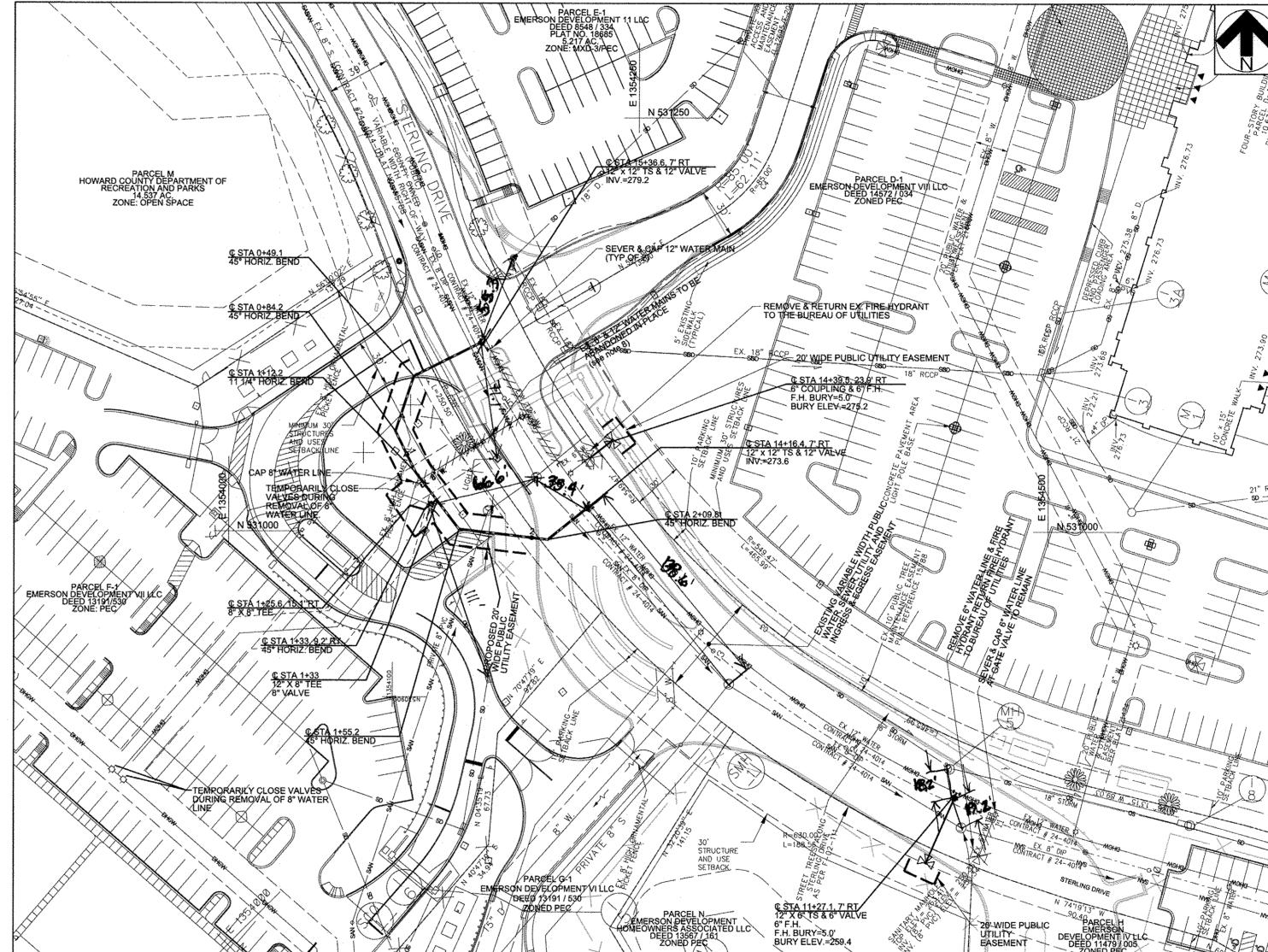
UNCLASSIFIED//FOR OFFICIAL USE ONLY 12" & 8" WATER MAIN RE-ROUTE

EMERSON- CAMPUS VCP

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 44-4957-D



SEQUENCE OF CONSTRUCTION ▲

SITE UTILITY PLAN

SCALE: 1"=50'

1. INSTALL 12" WATER MAIN BETWEEN STA 14+16.4 AND STA 15+36.6 OF EX. 12" WATER MAIN (CONTRACT NO. 24-4014-D). INSTALL BENDS, TEES, AND ASSOCIATED VALVES ALONG THE WATER MAIN REPOUTE. REPOUTED 12" WATER MAIN SHALL BE INSTALLED WITH RESTRAINED JOINTS AND MECHANICAL FITTINGS. DO NOT CONNECT TO EXISTING WATER MAIN.

2. PERFORM TESTING OF REROUTED WATER MAIN IN ACCORDANCE WITH HOWARD COUNTY BUREAU OF UTILITIES RULES AND REGULATIONS PRIOR TO CONNECTING TO EXISTING 12" WATER MAIN (CONTRACT NO. 24-4014-D) 3. INSTALL 12" TAPPING SLEEVES ON EXISTING 12" WATER MAIN AND CONNECT REPOUTED 12" WATER MAIN TO EXISTING 12" WATER MAIN.

4. CLOSE VALVE AND REMOVE EXISTING HYDRANT AT STA 14+39.5 AND RETURN TO BUREAU OF UTILITIES. EXTEND 6" DIP WATER LINE AT STA 14+39.5 AND INSTALL NEW FIRE HYDRANT

5. OPEN VALVE AND RESTORE SERVICE TO FIRE HYDRANT AT STA 14+39.5. 6. INSTALL 12" X 6" TAPPING SLEEVE AND VALVE AT STA 11+27.1. EXTEND 6" DIP WATER LINE TO SOUTH SIDE OF STERLING DRIVE AND INSTALL NEW FIRE HYDRANT.

7. CLOSE GATE VALVE AT STA 10+99.5. SEVER AND CAP 6" WATER LINE IMMEDIATELY AFTER VALVE. REMOVE 6" DIP WATER LINE AND FIRE HYDRANT. RETURN FIRE HYDRANT TO THE BUREAU OF UTILITIES. 8. COORDINATE SHUT-DOWN OF WATER SERVICE ALONG STERLING DRIVE WITH THE HOWARD COUNTY, BUREAU OF UTILITIES. NOTIFICATION SHALL BE GIVEN 5 DAYS PRIOR TO THE SHUT-DOWN AND ONE HOUR PRIOR TO THE SHUT-DOWN FOR CHANGES TO BE MADE TO THE WATER SUPPLY. ALL VALVES TO BE CLOSED IN ORDER TO ISOLATE THE EXISTING 12" WATER MAIN ALONG

STERLING DRIVE SHALL BE PERFORMED BY THE HOWARD COUNTY BUREAU OF UTILITIES. 9. SEVER AND CAP EXISTING 12" WATER MAIN (CONTRACT NO. 24-4014-D) AND PRIVATE 8" WATER LINE. REMOVE SEGMENTS OF 12" AND 8" WATER LINES AS SHOWN. ABANDON PORTION OF 12" WATER OF

WATER MAIN ALONG STERLING DRIVE AND INFILL WITH FLOWABLE FILL 10. INSTALL SCREW JACKS BETWEEN ACTIVE 12" WATER MAIN AND SECTION OF EXISTING WATER MAIN TO BE ABANDONED IN PLACE AND BACKFILL WITH CONCRETE.

11. CONNECT 8" PRIVATE WATER LINE AT PARCEL F-1 TO 12" X 8" TEE PLACED ALONG REPOUTED WATER MAIN.

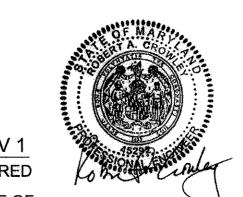
12. RESTORE WATER SERVICE ALONG STERLING DRIVE. ALL VALVES REQUIRED TO BE OPENED TO RESTORE SERVICE SHALL BE PERFORMED BY THE HOWARD COUNTY BUREAU OF UTILITIES.

PROFESSIONAL CERTIFICATION

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

▲ PROFESSIONAL CERTIFICATION FOR REV

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. 45292 EXPIRATION DATE: 05/21/2018.







WATER & SEWER CONTRACT #24-4695-D

HOWARD COUNTY GEODETIC COORDINATES

BENCH MARK ID: 47GM3 NORTHING: 531620.07 EASTING: 1352684.71

ELEVATION: 91.734

EASTING: 1356218.71 **ELEVATION: 84.447**

1	ADDRESS CHART	
1	PARCEL NUMBER	STREET ADDRESS
1	PARCEL H	9005 STERLING DRIVE

WATER ZONE: 400 TEST GRADIENT: 550

NO. OF PARCELS: DRAINAGE AREA:

LITTLE PATUXENT WATER QUALITY

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. All horizontal controls are based on Maryland State Coordinates, NAD 83/91

All vertical controls are based on NAVD 88. 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 bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from monies

owed the contractor. The contractor shall coordinate with the utility companies to For details not shown on the drawing, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job Where test pits have been made on existing utilities, they are noted by the symbol at the locations of the test pits. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in

advance of construction operations at his own expense. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

BGE (Contractor Services) 410-850-4620 BGE (Underground Damage Control) 410-787-9068 **Bureau of Utilities** 410-313-4900 Colonial Pipeline Co. 410-795-1390 1-800-257-777 State Highway Administratio 410-531-5533

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 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 11. 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 roads for laying water/sewer mains or house connections. The approval of these drawings will

12. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

constitute compliance with DPW requirements per Section 18.114(a) of the Howard

PART II - WATER All water mains shall be DIP Class 54 unless otherwise noted.

Tops of all water mains shall have a minimum of 3'-6' of cover unless otherwise noted. Valves adjacent to 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 DIP and PVC water mains in accordance with the Howard County Design Manual.

Pipeline to be abandoned in place using flowable fill or other approved method. THE PURPOSE FOR THIS REVISION IS TO PROVIDE

A REVISED SEQUENCE OF CONSTRUCTION FOR THE INSTALLATION OF THE WATER MAIN ALONG STERLING DRIVE.

REVITZ PROPERTY STERLING DRIVE LAUREL, MARYLAND CONTRACT NO. 44-4957-D

SHEET ZONE: PEC

UNCLASSIFIED//FOR OFFICIAL USE ONLY

SCALE

AS SHOWN

SIFIED//F

MARYLAND, LICENSE NO. 45292 EXPIRATION DATE: 05/21/2016. **REVITZ PROPERTY** DEPARTMENT OF PUBLIC WORKS **DEPARTMENT OF PLANNING & ZONING #9005 STERLING DRIVE** HOWARD COUNTY, MARYLAND OWNER/DEVELOPER: EMERSON DEVELOPMENT IV, LLC ONE TEXAS STATION, SUITE 200 TIMONIUM, MD 21093

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD

AND AS SHOWN ON THE APPROVED SDP-16-005 PLANS

CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. DATE

COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION

PROPOSED FIRE HYDRANT

F.H. INV,=259.4-

- EXISTING GRADE

PROPOSED GRADE

" DIP WATER LINE TO NEW FH

1100 N.GLEBE RD., ARLINGTON, VA, 22201

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

12" DIP WATER MAIN RELOCATION

VERTICAL SCALE: 1" = 5'

- EXISTING GRADE

-F.H. INV.=275.2

6" DIP WATER LINE EXTENSION TO NEW FH

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HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

CHIEF, BUREAU OF UTILITIES

PROPOSED PUBLIC

PROPOSED GRADE

REVISED SEQUENCE OF CONSTRUCTION

600 SCALE MAP NO. ___ BLOCK NO.

PROPOSED 12 INCH WATER MAIN

RELOCATION

PARCEL H, D, E, F, G, O, Q **6TH ELECTION DISTRICT**

HOWARD COUNTY, MARYLAND