### SHEET INDEX

SHEET	DESCRIPTION		
1	COYER SHEET		
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3	WATER AND SEWER PROFILES		
364	FENCE LAYOUT PLAN 2		

					1	
QUANTITIES						
`				AS-BUILT		
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER   SUPPLIER		
6" WATER	60'	60'	CL54 DIP	GRIFFIN PIPE PRODUCTS CO, L/BW	TERSERVICE	
8" WATER	1935'	1,983'	CL54DIP	CRIFFIN PIPE PRODUCTS CO, L/B W	TER SERVICE	
8" x 6" TEE	4	4	DIP	TYLER PIPE, L/BWATER SERVICE		
8" x 8" TEE	2	2	DIP	TYLER PIPE, L/B WATER SERVICE		
8" VALVE	5	5	CATE	KENNEDY VALVE, LIBWATER SERY	nc <del>e</del>	
6" VALVE	4	4	GATE	KENNEDY VALVE, L/BWATER SE	rvice	
8" 1/8 HORIZ BEND	8	8	DIP	TYLER PIPE, YB WATER SERVICE		
8" CAP	1	1	SOLID	TYLER PIPE, L/B WATER SERVICE		
6" FIRE HYDRANT	4	4	51/4"	AMERICAN FLOW CONTROL, L/8 W	TER SERVICE	
8" DIP SEWER	35'	13'	CL52DIP	GRIFFIN PIPE PRODUCTS CO, L/B V	VATERSERVICE	
8" PVC SEWER	10	10'	SDR-35	SMEAGLE, 4B WATER SERVICE		
SEWER MANHOLE	1		PRECAST	CONTRACTOR'S PRECAST CORP.		
NAME OF UTILITY CON	TRACTOR: C.	MILLER, INC				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: JANUARY 3, 2011						

## LEGEND

	PROPERTY BOUNDARY
***************************************	EX. RIGHT OF WAY
	ADJACENT PROPERTY BOUNDAR
	EX ROADS AND WALKS
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وه و	EX. MINOR CONTOUR
	FOREST CONSERVATION EASEM
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· · · · · · · · · · · · · · · · · · ·	PROP. BUILDING
	PROP. CURB   EDGE OF PAYING
	PROP. DEPRESSED CURB
<b>E</b>	PROP. GROUP LIGHT
· <b>@</b>	PROP. SINGLE LIGHT
▼4	PROP. LIGHT
T	PROP. WATER
	EX WATER LINE WITH FIRE HYDRANT
Θ	PROP. SANITARY SEWER AND MANHOLE/CLEANOUT
<u></u>	EX SANITARY SEWER

OWNER/DEVELOPER EMERSON DEVELOPMENT VIILLC 1 TEXAS STATION COURT, SUITE 200 TIMONIUM, MARYLAND 21093-8288 Project background information:

Subdivision Name: Revitz Property Parcel F Lot/Parcel:165 Zoning : PEC Election District: 6 Total Parcel Area: 9.53 Acres File Numbers: Plat #18684, 18685, F-07-055, S-99-12, PB 339 and ZB 979M, PB-359, F-02-111, SP-01-12, F-02131, F-07-55, F-11-019.

PLAT #21277 & 21278

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SDP-10-096

PROFESSIONAL CERTIFICATION 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. <u>8061</u>, EXPIRATION DATE: <u>08-26-2011</u>.

TYPE OF BUILDING: OFFICE BUILDING

NO. OF PARCELS: 1

NO. OF WATER CONNECTIONS: NO. OF SEWER CONNECTIONS: 1

DRAINAGE AREA: LITTLE PATUXENT

TREATMENT PLANT: LITTLE PATUXENT WATER

### RAWN BY: MC 3 WATER LINE REVISION, SEEDETAIL "A" SHT ZEPROFIED 3-13-15 CAMPUS PERIMETER SECURITY FENCE AS-BUILT REVISIONS

VICINITY MAP

TITLE SHEET

## EMERSON PARCEL F

**LOCATION MAP** 

IOWARD COUNTY ADC MAP NUMBER 19, BLOCK H9

**BENCHMARK** 

DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL

A. STANDARD GENERAL NOTES (CONTINUED)

13. A VARIANCE (RESOLUTION NO. 118-201) PURSUANT TO SECTIONS 16.301 AND 16.200 (4) OF THE HOWARD COUNTY CODE

WAS GRANTED ON JULY 28, 2011 FUR

AND USE SETBACK FOR A FENCE

GOVERNMENT USES FROM THE STRUCTURE

AND NGYD29 (VERTICAL) DATUMS.

EMERSON PARCEL F

TAX MAP 47

PARCEL 165

6th ELECTION DISTRICT

# WATER & SEWER CONSTRUCTION PLANS

Howard County, Maryland

Department of Public Works

CONTRACT NO. 24-4683-D

### A. STANDARD GENERAL NOTES

3. The horizontal coordinates shown on the drawings are based on Maryland State Reference System NAD'83191 as projected by Howard County Geodetic Control Stations No. #31ea and No. #37CA.

required unless otherwise noted. The owner has' contacted the utility companies and has

8. 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 are included on the drawings. Existing utilities in the vicinity of the proposed work which test pits have not been dug shall be located by the contractor two weeks in

10. 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

11. The contractor shall remove trees, stumps, and roots along line of excavation.

Payment for such removal shall be included in the unit price bid for construction of the

12. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313 7450 at least five working days before any open cut of any county road or boring/jacking of any County roads 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.

B. STANDARD WATER MAIN GENERAL NOTES

2. Tops of all water mains to have a minimum of 3'-6" of cover unless otherwise noted.

3. Valves adjacent to tees shall be strapped to tees.

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed and buttressed with concrete in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with section

6. The contractor shall not operate any water main valves on the existing water system.

7. For sprinkler system for all town homes or multi-family dwelling units should have a minimum of 1-1/2" connection with a 1" outside meter setting.

C. STANDARD SEWER MAIN GENERAL NOTES

1. All sewer mains shall be DIP or P.V.C. unless otherwise noted.

2. All manholes shall be 4'-0" inside diameter unless otherwise noted.

3. Force mains shall be D.I.P. only.

4. Manholes shown with 12" and 16" walls are for brick manholes only.

above finished grade unless otherwise noted on the drawings.

GENERAL NOTES

1. Approximate location of existing utility 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 Owner at the contractor's expense.

2. Topographic field surveys were performed by Shanaberger and Lane on January 2005, and field verified in April 2010 by Daft McCune Walker Inc.

4. All vertical controls are based on NGVD 88. Vertical controls provided on the drawings are 47E4 N535846.138, E1355431.196, Elev. 338.909'. 4762 N532938.964, E1351224.095, Elev. 364.210'.

5. All pipe elevations shown are invert elevations unless otherwise noted.

6. Clear all utilities by a minimum of 12". Clear all poles by 5' - 0" minimum or tunnel as 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

7. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a copy of Volume IV on the Job.

9. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

BG&E (Construction Services) 410-850-4620 State Highway Administration

1-800-252-1133 410-685-1400 BG&E (Emergency) Bureau of Utilities 410-313-4900 410-795-1390 Colonial Pipeline CO. 1-800-742-0033/410-224-9210

1. All water mains to be D.I.P. Class 54 unless otherwise noted.

4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.

1000 and 1005 of the Standard Specifications.

5. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame 1'-6"

QUALITY MANAGEMENT CENTER

UNDEVELOPED!

THE PURPOSE OF REDLINE REVISION 42 IS: I SHOW THE PROPOSED EMERSON CAMPUS SECURITY FENCE. 2. ADD AN ADDITIONAL DRAWING SHEET ASSOCIATED WITH THE PROPOSED EMERSON CAMPUS SECURITY FENCE.

JACOBS PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENCED PROFESSIONAL ENGINEER UNDER HE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 45292 EXPIRATION DATE: 05/21/2016 REDLINE REVISION "2 ONLY

6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

SCALE:

SHEET

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

> 00 EAST PENNSYLVANIA AVENUE • TOWSON, MD 21286 : 410 296 3333 F: 410 296 4705 WWW.DMW.COM

DATE 600 SCALE MAP NO. 47 BLOCK NO. 20

WATER ZONE: 400

TEST GRADIENT: 550

CONTRACT NO. <u>24-4683-D</u>

Fri Sep 24 13:21:10:200054\95054\\ENGR\95054\\WOI





