	QU	ANTITIES			
			AS-BUILT		
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURE SUPPLIER	R/
6" WATER	Λ π L.F.	315' :	CL54(DIP)	GRIFFIN PIPE SU	air RD PPLY
8" WATER	<u> </u>	201't	11 0	GRIFFIN PIPE "	, 61
8" X 8" T.S.&V.	I EA.	1		JCM INDUSTRIES	BRS
12" X 8" T.5.¢V.	I EA.	1.		JCM INDUSTRIES	RD.
8" X 6" F.H.T.	I EA.			11	14
6" VALVE	<u> </u>	3		" / ,	te
8" VALVE	I EA.	2		MULLER CORP/	BRS
FIRE HYDRANT	<u> </u>	<u> </u>		MULLER CORP.	11
8" CAP	2 EA.	2	D.1. M.J.	SIGMA CORP./	-11
8" I/8 BEND		2 .	D.I. M.J.	<i>v</i> • /	<b>,</b> ,,
6" × 6" F.H.T.	I EA.	2	DIPPE	, , , , , , , , , , , , , , , , , , ,	4
16" PVC	239 L.F.	239	CL 52 D.I.P.	GRIFFIN PIPE/	<i>,</i> ,
8" PVC	<u> </u>	397	P.V.C.SDR35		* j)\
MANHOLE	5 EA.	5	PRECAST CO.	ATLANTIC CONC. F	PROD
TYPE 'B' DROP CONN.	I EA.		n "	19 11	11
10" PVC	<u> </u>	17 =			
PAVING REPLACEMENT	1300 S.Y.	1,300 5.9 1			
NAME OF UTILITY C	ONTRACTOR: W.		SONS INC	CHECKBOX:	

# BENCHMARK DESCRIPTIONS

BM #I (GLW TRAY, 904) TOP OF REBAR & CAP 27' ± WEST BACK OF EXISTING WALK AND 34' ± EAST OF EXISTING STEPS (ADJACENT TO REMAX BUILDING) ELEV.= 339.97

BM #2 (GLW TRAV. 903) TOP OF REBAR & CAP SOUTHEAST CORNER OF EXISTING LARGE ISLAND ADJACENT TO COLUMBIA ELEV.= 324.53

WATER AND SEWER CODE: COUNTY USE WATER No. E 31 SEWER No. 5521000 TEST GRADIENT: 700 ZONE: 550

> VICINITY MAP SCALE: 1"=600'

# CONTRACT No. 24-4270-D

COLUMBIA TOWN CENTER △ PARCELS B, C-2, & D-1 AND OPEN SPACE LOT 1 SECTION 7 AREA 6

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING RETAIL / RESIDENTIAL NUMBER OF UNITS | BUILDING (160 UNITS) NUMBER OF S.H.C.'s LONE NUMBER OF W.H.C.'s 2 (TMO) LITTLE PATUXENT DRAINAGE AREA LITTLE PATUXENT WATER RECLAMATION PLANT TREATMENT PLANT

### GENERAL NOTES

APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES,

ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.

ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED

CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-O" 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 COMPANIES

TO SCHEDULE THE BRACING OF THE POLES. 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, 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. 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PIT. 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

8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

1*-800-2*52-1133 BGE (CONTRACTOR SERVICES) 410-850-4620 BGE (UNDER GROUND DAMAGE CONTROL) 410-787-9068 410-313-4900 BUREAU OF UTILITIES COLONIAL PIPELINE CO. 410-795-1390 1-800-257-7777 MISS UTILITY STATE HIGHWAY ADMINISTRATION 410-531-5533 1-800-743-0033/410-224-9210

TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT BE REMOVED OR DAMAGED BY THE CONTRACTOR.

IO. 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 MAIN.

II. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD OR BORING/JACKING OPERATION ON COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENT PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

PART II - WATER

ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" COVER UNLESS

VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE 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. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS

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

ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED ALL MANHOLES SHALL BE 4'-O" INSIDE DIAMETER UNLESS OTHERWISE NOTED

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 65.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

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

## SHEET INDEX

⚠ NOTE: THESE THREE (3) REVISED SHEETS SUPERCEEDES THE PREVIOUSLY APPROVED CONSTRUCTION PLANS BY CHIEF LAND DEVELOPMENT DIVISION ENGINEERINING ON JULY 21, 2005.

I. COVER SHEET

3. PROFILES

2. PLAN

" A5-BUILT" 10/25/07 12/8/16

GLW FILE No. 04052

DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in

for Sediment & Erosion Control.

SOIL CONSERVATION DISTRICT.

REQUIREMENT.

DISTRICT AND MEETS TECHNICAL

accordance with Section 219 of the Specifications & with Site Development Plans, SDP 05-090; Drawings

REVIEWED FOR HOWARD SOIL CONSERVATION

CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

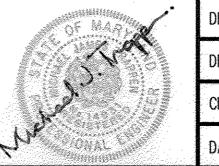
EROSION AND SEDIMENT CONTROL BY THE HOWARD

HOWARD COUNTY, MARYLAND

12/2/16

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866



DES: mjt					
DRN: mjt				1, 101	TITLE SHEET SCALE: AS SHOWN
CHK: <b>rot.</b>	KC1	2	RELOCATE F.H.  AS_BUILT DATA SHOWN	12/8/16	SCHEEL HS SHOWN
Uo./	mjt	Δ	REV QUANTITIES BOX & TITLE BLOCK	11/15/06	
DATE: 2006	BY	NO	REVISION	DATE	600' SCALE MAP NO. 36 BLOCK NO. 2

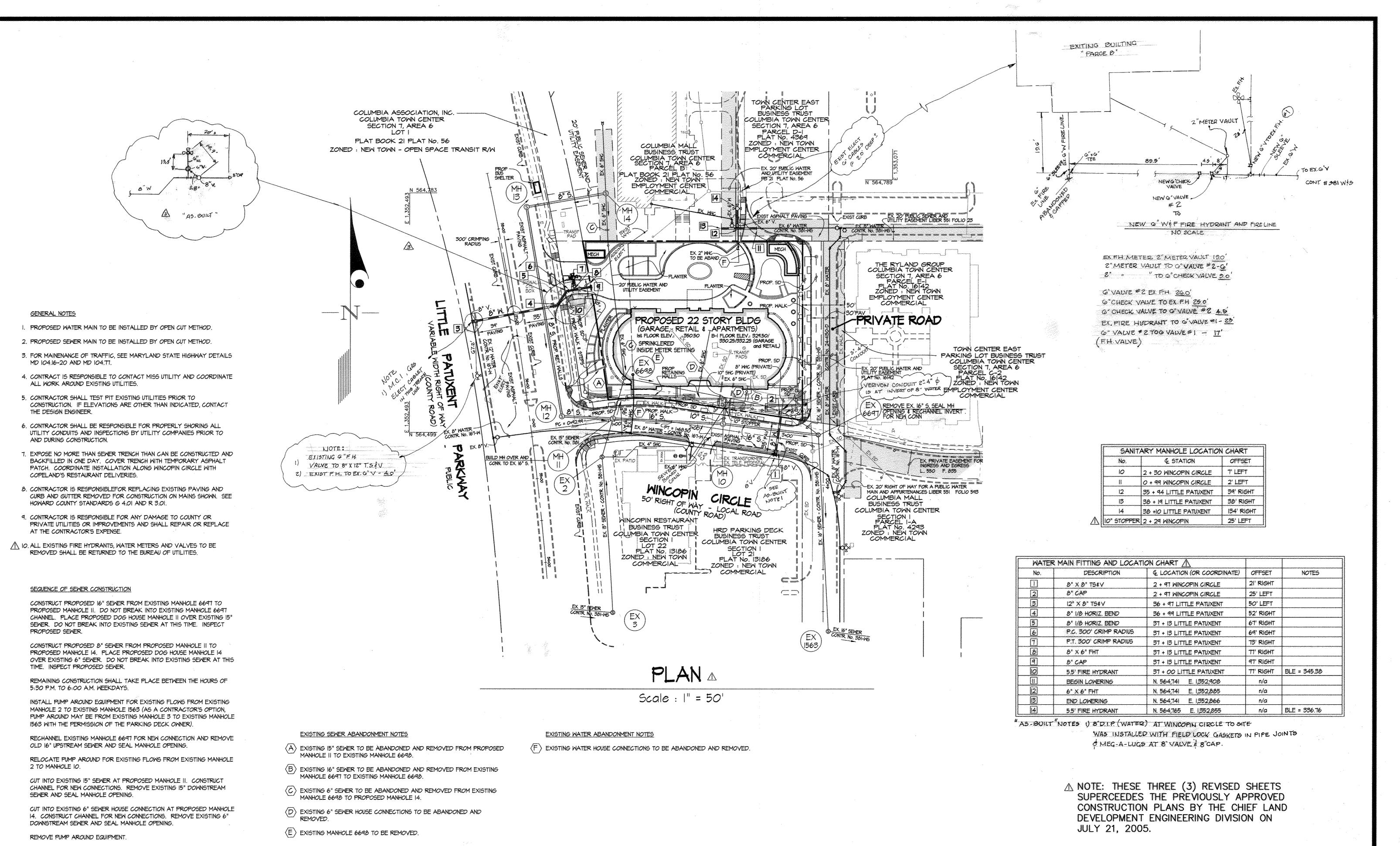
COLUMBIA TOWN CENTER ↑ PARCELS B. C-2, & D-1 AND OPEN SPACE LOT 1 SÉCTION 7 AREA 6 **ELECTION DISTRICT No. 5** HOWARD COUNTY, MARYLAND CONTRACT No. 24-4270-D

SHEET OF 3

SCALE

AS

SHOWN



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIÉF, BUREAU OF UTILITIES

15-8-06

CHIEF, DEVELO

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

IT ENGINEERING DIVISION

14/4/11

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866

TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



	ES: mjt	-				
	RN: mit	SEB	3	RELOGATE F. H.	12/8/16	WATER and SEWER EXTENSION
-		KCI	2	AS-BUILT DATA SHOWN	11 12 07	
	HK: NOT.	mjt	Δ	REV ALIGNMENT OF W EXT. FROM LPP,	11/15/06	PLAN
r	NOV			RELOC WHC FROM PRI. RD TO WINCOPIN		
DA	ATE: 2006	BY	NO	REVISION	DATE	600' SCALE MAP NO. $36$ BLOCK NO. $2$

WATER and SEWER EXTENSION PLAN

COLUMBIA TOWN CENTER PARCELS B, C-2, & D-1 AND OPEN SPACE LOT 1 SÉCTION 7 AREA 6

AS-BUILT : 10:26:07 12/8/16

**ELECTION DISTRICT No. 5** HOWARD COUNTY, MARYLAND CONTRACT No. 24-4270-D

AS SHOWN SHEET 2 OF 3

SCALE

GLW FILE # 04052 04052FWS.dwg

