QUANTITIES AS-BUILT STIMATED JOUANTITIES TYPE MANUFACTURER/SUPPLIER N 8" WATER 6" WATER 6" YALVES 8" x 6" TEE 8" CAP 8" 16BEND FIRE HYDRANT 8" SLEEVE & SPACER 8" VALVE 6" CAP 8" x 8" TEE 8" SEWER SEWER MANHOLE 3" PLUG NAME OF UTILITY CONTRACTOR SURVEY AND DRAFTING DIVISION AS-BUILT DATE

BENCHMARK

DESCRIPTION

NO. 2244002 - HOWARD COUNTY MONUMENT

CONCRETE MONUMENT SET FLUSH WITH THE GROUND, 0.5 MILES SOUTH OF US. ROUTE 1, 26.89' SOUTHWEST OF A NAIL IN A 4" OAK TREE, 36.98' SOUTHWEST OF A NAIL IN A 27" OAK TREE AND 72.54' NORTH OF A NAIL IN A 8" PINE TREE.

ELEVATION 861,905.275 253.074

NO. 2243003 - HOWARD COUNTY MONUMENT

CONCRETE MONUMENT WITH A BRONZE DISK SET FLUSH WITH THE GROUND, 2.5'± EAST OF EAST EDGE MAC. OF THE NORTHBOUND LANE OF 1-95, 70'± SOUTH OF EXIT SIGN TO MD. ROUTE 175.

TYPE OF BUILDINGS:	OFFICE
NO. OF LOTS / PARCELS	1
NO. OF WATER CONNECTION	S:2
NO. OF SEWER CONNECTION	1
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT: LI	ITLE PATUXENT WATER RECLAMATION
·	PLANT, SAVAGE, HOWARD COUNTY

	SHEET INDEX
SHEET No.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILES

REVIEWED FOR NATURAL RESOURCES CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

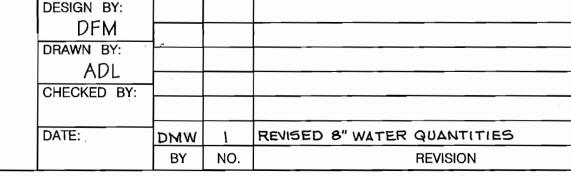
CHIEF DEVELOPMENT ENGINEERING DIVISION - DATE

WITH CONSTRUCTION PLANS SDP-02-63.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND







TITLE SHEET

BLOCK NO. 7

DATE 600 SCALE MAP NO.

Columbia Gateway

CONTRACT NO. __24-4027-D

DEVELOPER: ABRAMS DEVELOPMENT GROUP 5850 WATERLOO ROAD

COLUMBIA, MD 21045

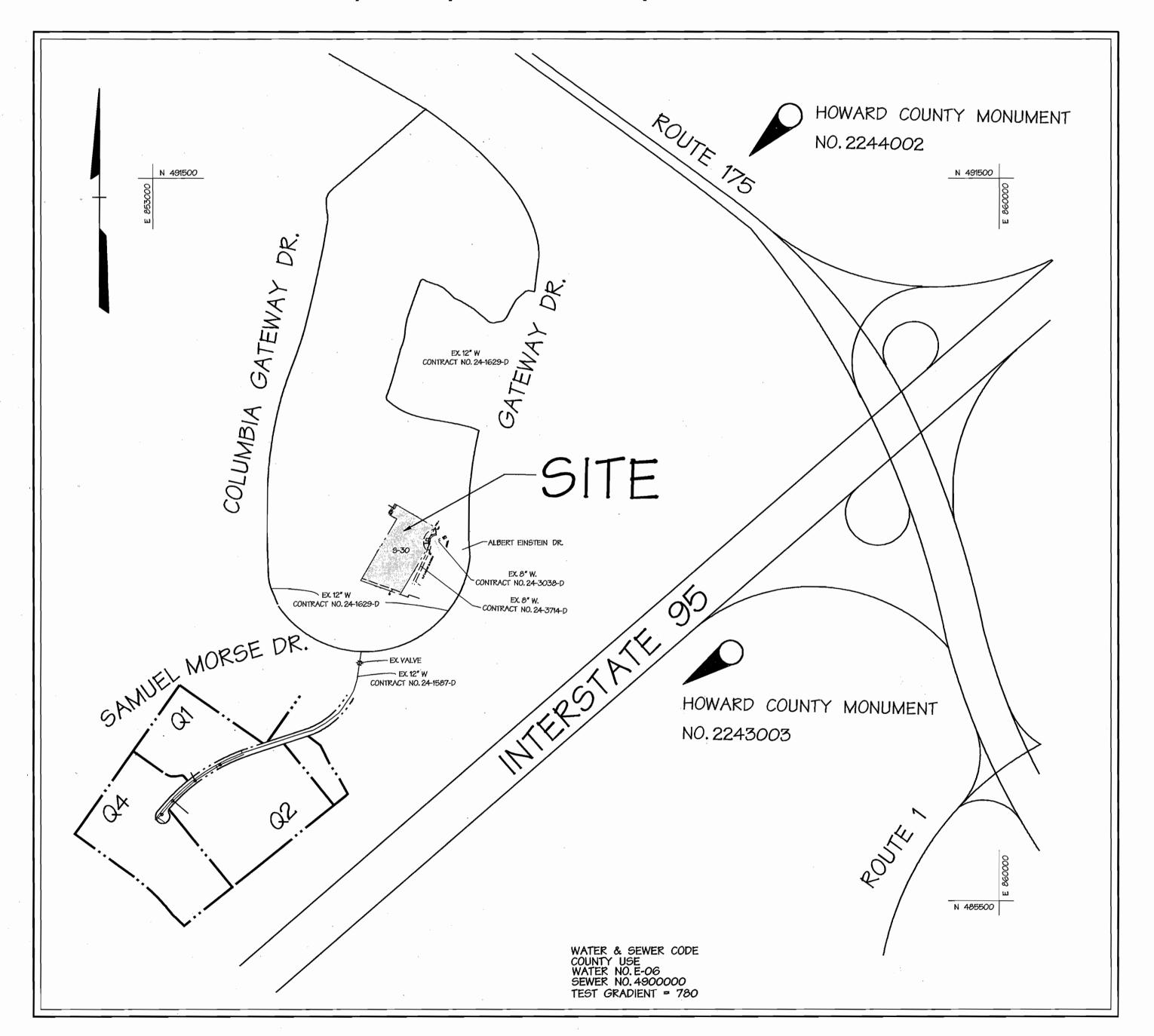
Contract No. 24-4027-D

COLUMBIA GATEWAY

PARCEL S-30

WATER & SEWER CONSTRUCTION PLANS

Howard County, Maryland Department of Public Works



VICINITY MAP

SCALE: 1" = 600'

CONTRACT NO. 24-4027-D

GENERAL NOTES

1. Approximate location 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.[North American Datum of 1927 (NAD 27)] 3. All vertical controls are based on U.S.G.S. data. 4. All pipe elevations shown are invert elevations.

5. Clear all utilities by a minimum of 6". Clear all poles by 2' - 0" minimum or tunnel as required. The owner has contracted 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 money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the

6. 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. 7. Where test pits have been made on existing utilities, they are noted by the symbol at the location 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. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration BG&E CO. Contractor Services 531-5533 850-4620 BG&E CO. Under Ground Damage Control 787-9068 1-800-257-7777 Colonial Pipeline CO. 795-1390 Howard County Department of Public Works 410-313-2420

Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the 10. 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. 11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any county road or boring/jacking operation in 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.

PART II - WATER

1. All water main to be D.I.P. Class 52 unless otherwise noted. 2. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.

3. Valves adjacent to tees shall be strapped to tees. 4. All fittings shall be buttressed or anchored with concrete in accordance with the standard details unless otherwise provided for on the drawings. 5. Fire hydrants shall be set to the bury line elevations shown

on the drawings. All fire hydrants shall be restrained and buttressed with concrete 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 water system. 7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

PART III - SEWER

AND DEVELOPMENT CORPORATION

10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MD 21044

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

3. Manholes shown with 12" and 16" walls are for brick manholes only. 4. Manholes designated W.T. in plan and profile shall have watertight frame and covers, standard detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on 5. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

6th Election District Howard County, Maryland OWNER: THE HOWARD RESEARCH

Wed Apr 10 10:58:32 2002 n:\01095\01095.wl

SCALE:

AS SHOWN

SHEET

SOIL EROSION AND DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

Daft·McCune·Walker, Inc 200 East Pennsylvania Avenue

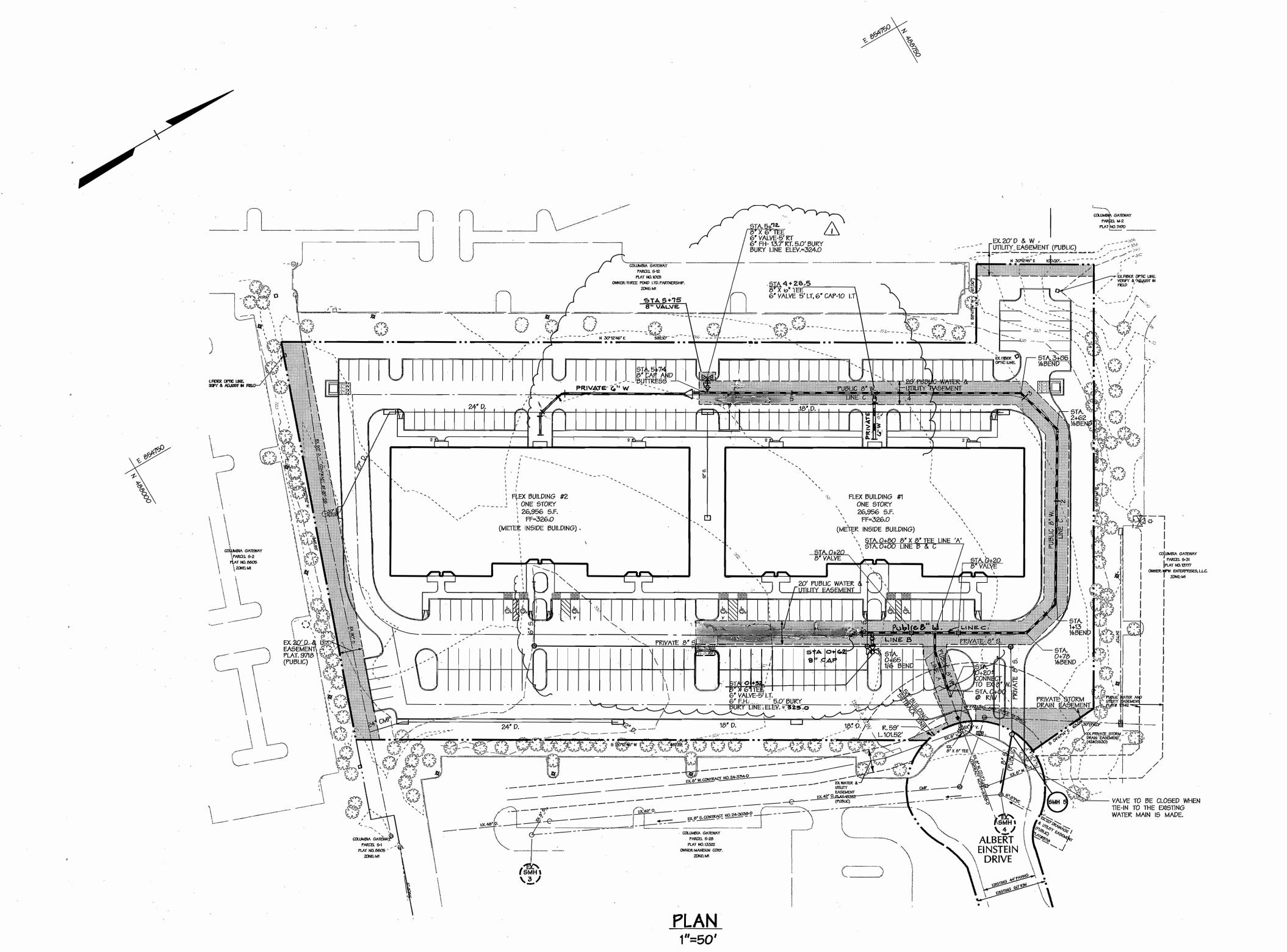
Towson, Maryland 21286

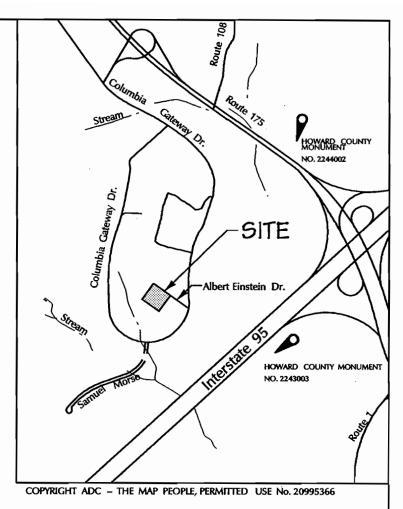
(410) 296-3333

Fax 296-4705

Landscape Architects, Golf Course Architects, Engineers, Surveyors &







LOCATION MAP

SCALE: 1" = 2000'

WATER MA	NIN STRU	JCTURE S	CHEDULE
ITEMS	COOR	DINATES	STATION
11 LIVIS	NORTH	EAST	JIATION
LINE A			
8" SLEEVE & SPACER			STA. 0+20±
8*YeBEND			STA. 0+65
8" X 8" TEE			STA. 0+80
LINE B			
8" X 8" TEE			STA. 0+00
8" YALYE			STA. 0+20
8" X 6" TEE			STA. 0+52
6" YALYE			STA. 0+52 5'LT
6" F.H.			5TA.0+5217.7'LT
8" VALYE			STA. 1+99
8" CAP			STA. 0+62
LINE C			
8" X 8" TEE			STA. 0+00
8" VALVE			STA. 0+20
8*%BEND			STA. 0+79
8"%BEND			STA. 1+13
8*%BEND			STA. 2+62
8"%BEND			STA. 3+05
8" X 6" TEE			STA: 4+28.5
6" VALVE			STA:4+28.5 5'LT
6" CAP			STA 4+28,5 10'LT
8" X 6" TEE			STA. 5+72
6" VALYE			STA. 5+ 72 -5'LT.
6" F.H.			STA. 5+ 72 -13.7' LT.
8" VALVE			STA 5+75
8"CAP			STA 5+79

NOTE: ALL FIRE HYDRANTS TO BE PLACED 3'-O' BEHIND THE BACK OF CURB

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF - DEVELOPMENT ENGINEERING DIVISIÓN - DATE

Daft-Mc

200 East F

Towson, M

(410) 296-3

Daft·McCune·Walker, Inc.

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296–3333
Fax 296–4705

A Team of Land Planners,
Landscape Architects,
Golf Course Architects,
Engineers, Surveyors &
Environmental Professionals

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	DATE:	DMW	I	REVISED WATER LINE B&C		
		BY	NO.	REVISION	DATE	600 SCALE MAP NO

WATER & SEWER PLAN

43 ____BLOCK NO. ____7

COLUMBIA GATEWAY

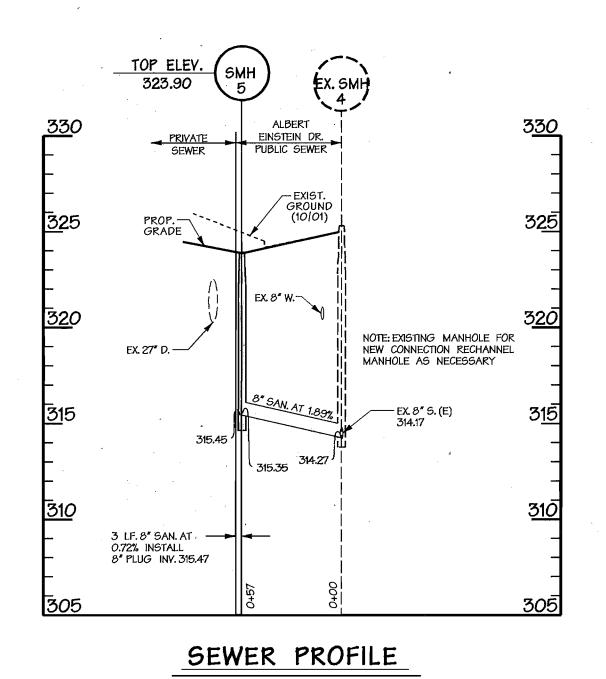
PARCEL S-30
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4027-D

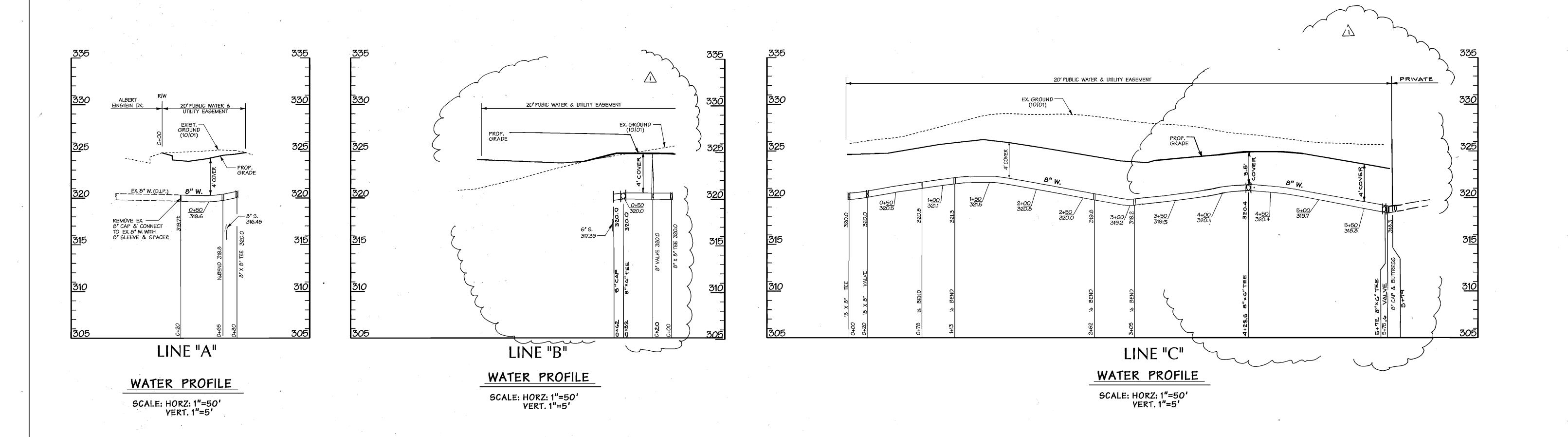
SHEET 2 of 3

SCALE:

1"=50'



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



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT, OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296–3333 Fax 296–4705

A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

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	DESIGN BY:					
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	ADL					WATER &
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İ	DATE:	DWM	-	REVISED PROFILE B&C	7/16/03	
		BY	NO.	REVISION	DATE	600 SCALE MAP NO

COLUMBIA GATEWAY

WATER & SEWER PROFILES

____BLOCK NO. _____7_

PARCEL S-30 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 3 of 3 CONTRACT NO. 24-4027-D

SCALE:

1"=50'