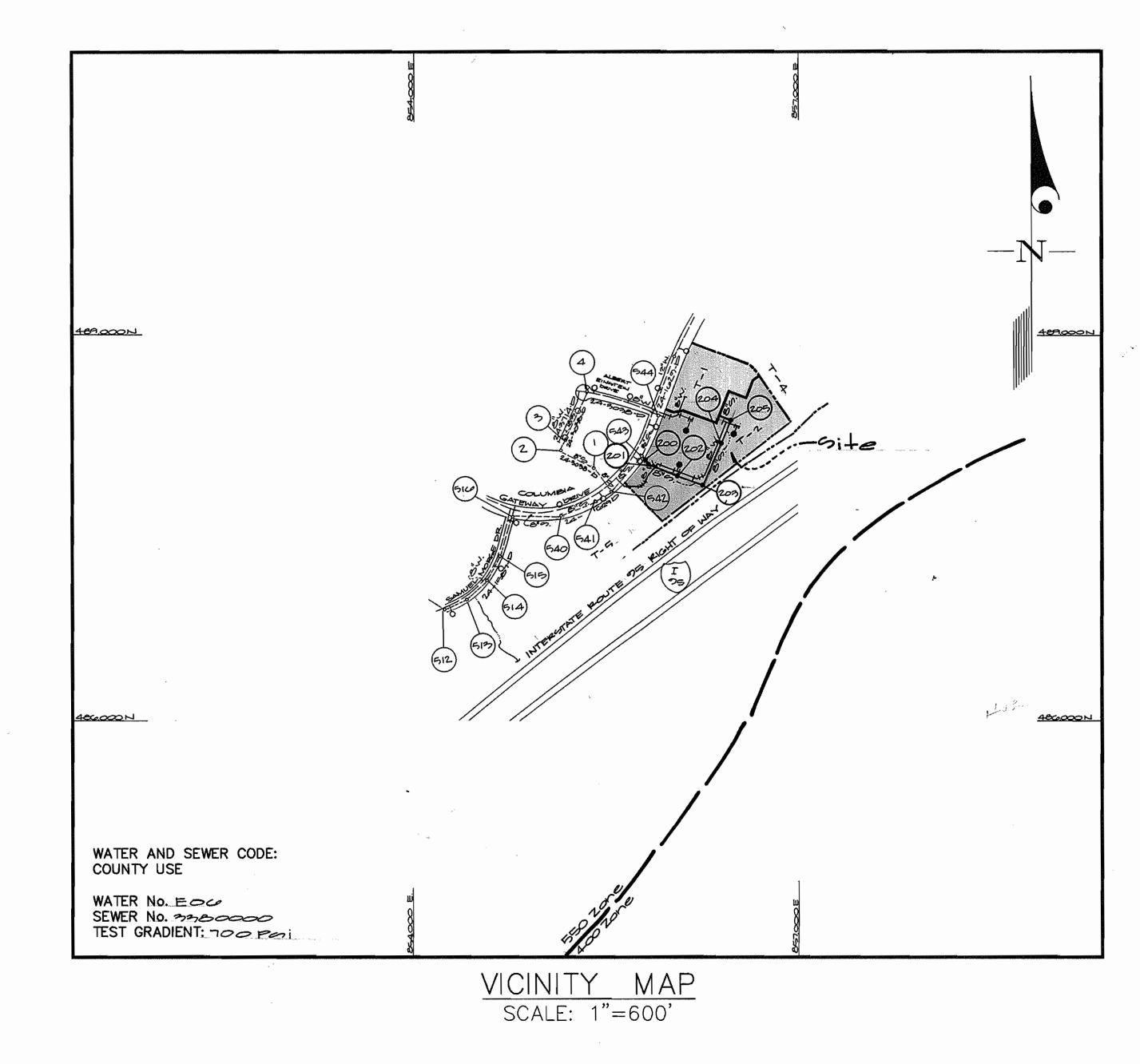
	QU	<u>ANTITIES</u>		· .	
	OHANTITIES	AS-BUILT			
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER	
8" Water	1950 L.F.	1563			
6 Water	97 L.F.				
2"1/2 bend	7 ea.				
81/10 bend	2. ea.				
8'x8' +ee	4 ea.				
8'×6' FHT	3 ea.		,		
B'valve	nea.				
6 cap & buttreas	4 ea.				
Fire Hydranta	3 <u>ea.</u>				
0" 10 1e	neo.				
B"newer	981 LF				
4'Dia. Manholen	Oea.				
6"0HC	42LF				
4" OHE	256				
Type A Drop Conn.	2 <i>ea</i> .				
Type Borop Lonn.	lea.				
Drop OHC Type A	l <i>ea</i> .				
	4-14-				
				,	
				·	
NAME OF UTILITY CO	NTRACTOR:	1			
			SURVEY AND	CHECKBOX:	
			DRAFTING DIV.	AS-BUILT DATE:	



CONTRACT No. 24-3738-D

Columbia Gateway
Parcelon T-1 and T-2

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING office NUMBER OF UNITS NUMBER OF S.H.C.'s NUMBER OF W.H.C.'s DRAINAGE AREA Little Potusent Water Reclamation Plant, Garage, MO-Howard County TREATMENT PLANT

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 1927 (NAD 27)].

All vertical controls are based on U.S.G.S. data. All pipe elevations shown are invert elevations.

to schedule the bracing of the poles.

Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. 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 bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies

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 (5) working days before starting work shown on these plans:

State Highway Administration 531-5533 850-4620 BGE Contractor Services BGE Under Ground Damage Control 787-9068 Miss Utility 1-800-257-7777 Colonial Pipeline Co. 795-1390 Howard County Department of Public Works Bureau of Utilities 313-4900

9. 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.

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 (5) working days before any open cut 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 to have a minimum of 3-1/2 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. 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 the 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

7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

8. For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

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

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

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

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 covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted

House(s) with the symbol "C.N.S." indicates that cellar cannot be

DEPARTMENT OF PUBLIC WORKS

SOIL CONSERVATION DISTRICT.

HOWARD COUNTY, MARYLAND

Roberty Beingn 1-12-99
CHIEF, BUREAU OF UTILITIES DATE

Sediment Control Measures will be implemented in

accordance with Section 219 of the Specifications & with oite development Flance opp 99-54 and Mana Grading Plane OP-99-75A

REVIEWED FOR HOWARD SOIL CONSERVATION

SIGNATURE 100 1/13/91

U.S.D.A. NATURAL RESOURCES

CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD

1/13/99 Vate

DISTRICT AND MEETS TECHNICAL

REQUIREMENT.

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION

Markenne 1/13/99

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



DES: Woo. Title oneet DRN: Was_ CHK: not. DATE: BY NO REVISION DATE 600' SCALE MAP NO. 43 BLOCK NO. 7

Micron COLUMBIA GATEWAY

Contract No. 24-2728-0

Parcelo T-land T-2

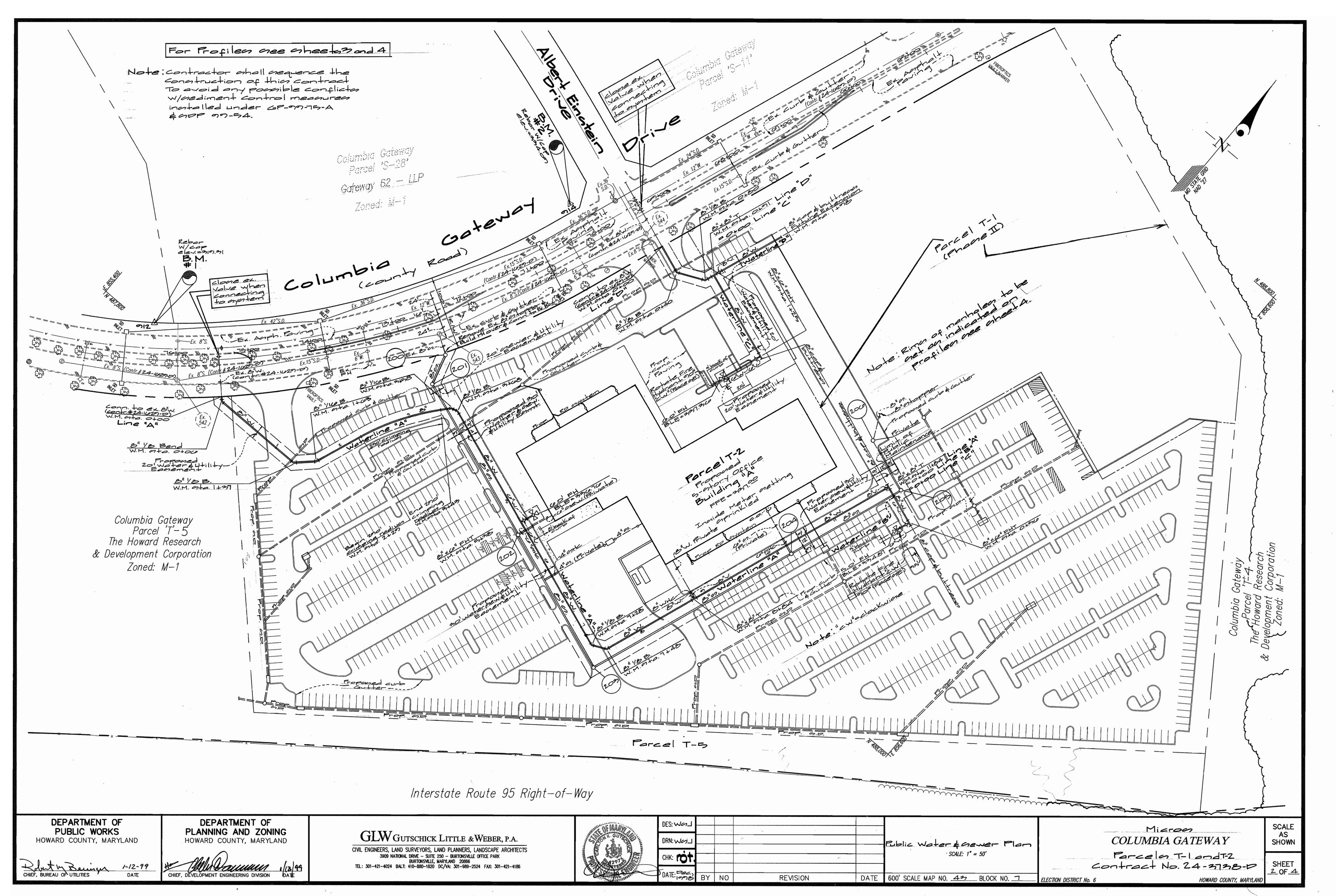
Howard County, Maryland

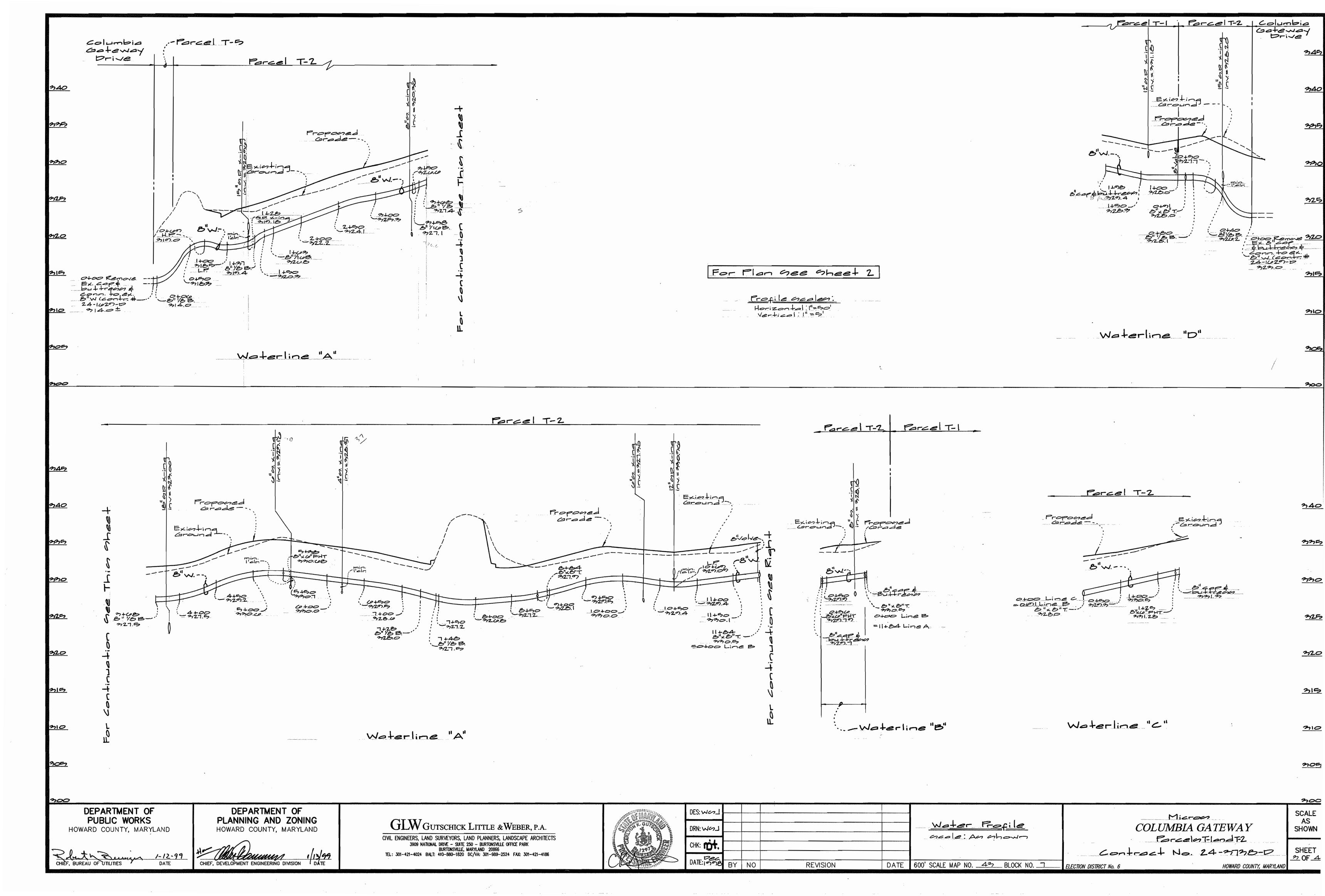
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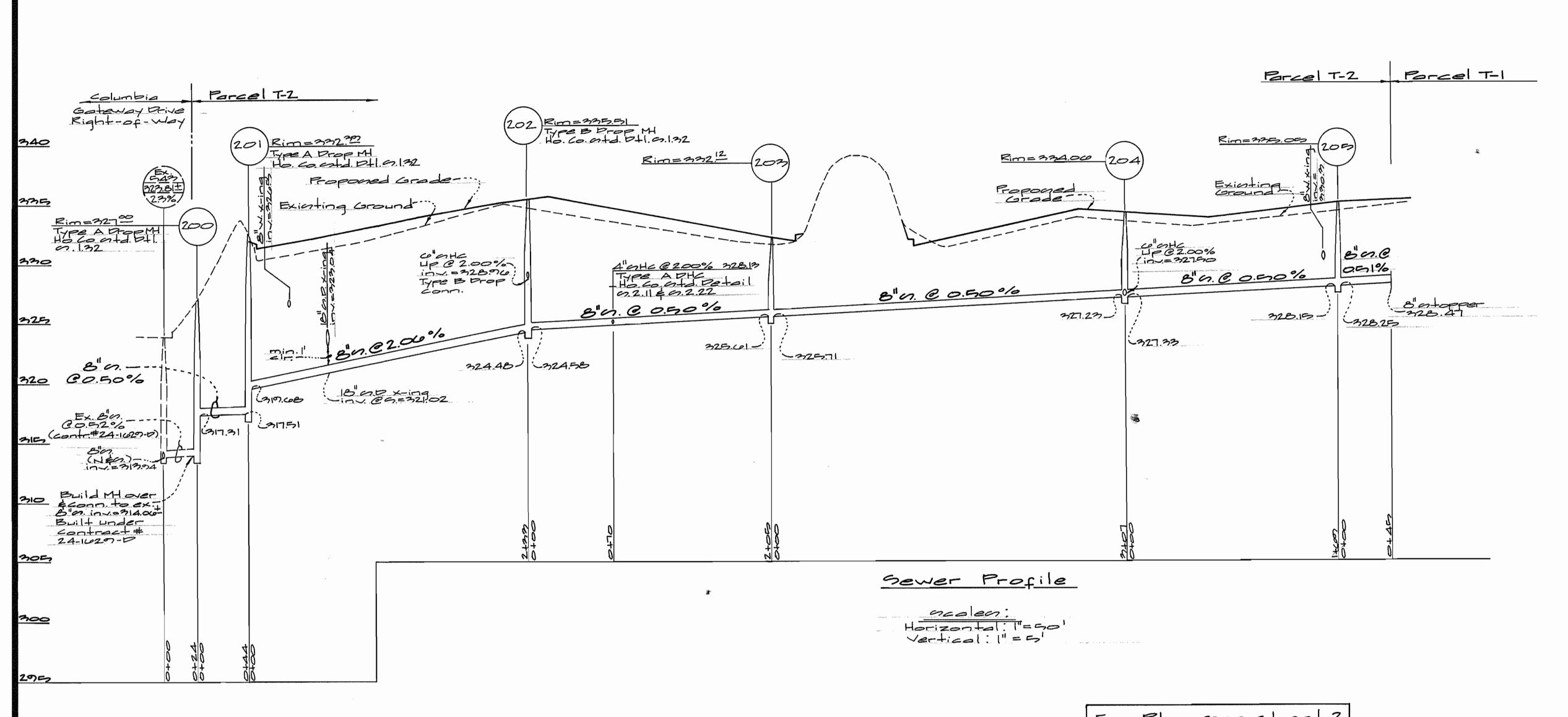
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SCALE

GLW FILE No. 98-067







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DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Sobert & Bainer 1-12-99

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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BURTONSVILLE, MARYLAND 20866

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DRN: WELL					newer Profiles
снк: т.					acales and an analysis of the contract of the
DATE: 1/9の	BY	NO	REVISION	DATE	600' SCALE MAP NO. 42 BLOCK NO. 7

COLUMBIA GATEWAY

Farcelo T-1 & T-Z

Contract No. 24-3736-D

ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND

SHEET 4 OF 4

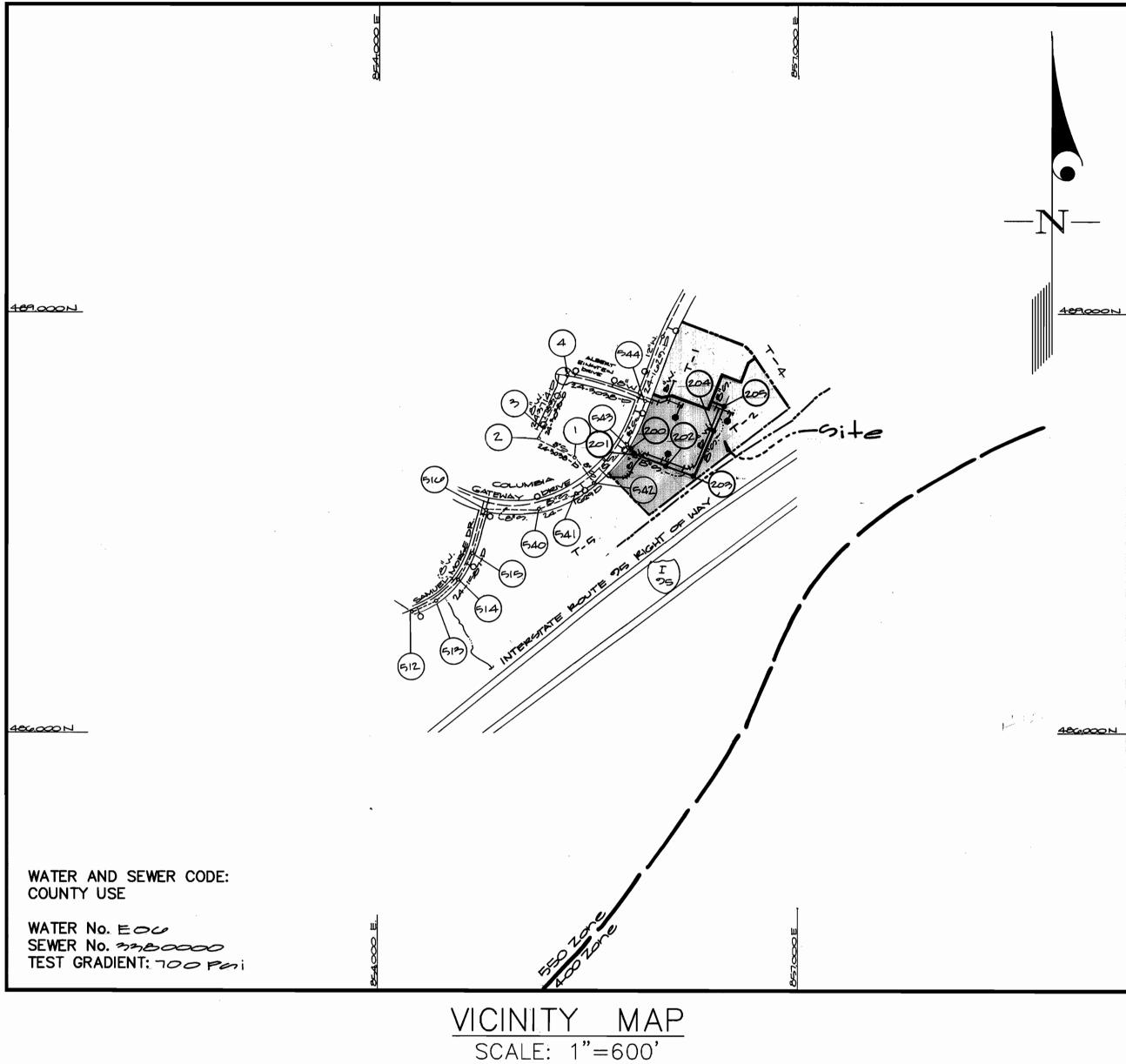
SCALE

SHOWN

QUANTITIES					
	QUANTITIES	AS-BUILT			
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER	
8" Water	1997 L.F.	1501574	D1.P. C-52	UNION FOUNDRY	
6 Water	97 L.F.	98	O.I.P. C-52	UNION FOUNDRY	
	•				
2"12 bend	Jea.	7	D.I.P.	UNION FOUNDRY	
ello bend	2 ea.	2	D.I.P.	UHION FOUNDRY	
e'xe' +ee	4 ea.	4	D.I.P.	ULLION FOUNDRY	
S'X G' FHT	nea.	3	DUSTILE	UNION FOUNDRY	
B" valve	nea.	3	CAST IRON	AMERICAN FLOW CONTROL	
B'cap & buttreas	A ea.	4	CAST IRON	UNION FOUNDRY	
Fire Hydranton	3 ea.	3	B84B	AMERICAN DARLING	
0" 10 re	nea.	3	CAST IRON	AMERICAN FLOW CONTROL	
			,		
8"newer	OBI LE	/¿ C	PSM/SDR 35	IPEX CANADA	
4'Dia. Manholen	uea.	4	CONCRETE	_	
6"0HC	42 LF	42	PSM/SDR 35	IPEX CANADA	
A" OHC	25LF	23		IPEX CANADA	
Type A Drop Conn.	200.	2		IPEX CANADA	
Type Borop Lonn.	100.	†	PSM/SDR 35		
Drop OHC Type A	lea.	1		IPEX CANADA	
A			, , , , ,	-	
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				-	
				-	
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TANIL OF CHEFT CO	INTINACTOR.				
			SURVEY AND	CHECKBOX:	

DRAFTING DIV.

AS-BUILT DATE:.



CONTRACT No. 24-3738-D Columbia Goteway Parcelo T-1 and T-2

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with oite development Plana opp 99-54 and Mana Grading Plana OP-99-75 A.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT. Charles Inman 1/13/91

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD

SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Robert Beinger 1-12-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

Mar Canne 1/13/99 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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



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	BY	NO	REVISION	DATE	

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COLUMBIA GATEWAY

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98-067

GLW FILE No. SCALE

Parcelo T-land T-2

600' SCALE MAP NO. 43 BLOCK NO. 7 Contract No. 24-2738-1

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

otherwise noted on plans or in specifications.

TYPE OF BUILDING

NUMBER OF UNITS

NUMBER OF S.H.C.'s

NUMBER OF W.H.C.'s

TREATMENT PLANT

DRAINAGE AREA

Contractor's expense.

American Datum 1927 (NAD '27)].

to schedule the bracing of the poles.

State Highway Administration BGE Contractor Services

Bureau of Utilities

removed or damaged by the contractor.

price bid for construction of the main.

Miss Utility

Colonial Pipeline Co.

the Howard County Code.

the Standard Specifications.

BGE Under Ground Damage Control

All vertical controls are based on U.S.G.S. data. 4. All pipe elevations shown are invert elevations.

Little Etuxent

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

2. All horizontal controls are based on Maryland State Coordinates [North

minimum or tunnel as required. The owner has contacted the utility

drawings. In the event the contractor's work requires the bracing of

construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition).

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

Existing utilities in the vicinity of the proposed work for which test

8. Contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

containing the results of the test pit or pits is included on the drawings.

pits have not been dug shall be located by the contractor two weeks in

Trees and shrubs are to be protected from damage to maximum extent.

(410) 313-2450 at least five (5) working days before any open cut of any

water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of

Trees and shrubs located within the construction strip are not be

excavation. Payment for such removal shall be included in the unit

County road or boring/jacking operation on County roads for laying

4. All fittings shall be buttressed or anchored with concrete in accordance

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

7. All water house connections shall be for inside meter setting unless

8. For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

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 the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of

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11. The contractor shall notify the Bureau of Highways, Howard County, at

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All water mains 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

Valves adjacent to tees shall be strapped to tees.

850-4620

787-9068

795–1390

313-4900

1-800-257-7777

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

companies and has made arrangements for bracing of poles as shown on the

5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0"

6. For details not shown on the drawings, and for materials and

The contractor shall have a copy of Volume IV on the job.

advance of construction operations at his own expense.

Howard County Department of Public Works

Little Paturent Water Reclamation Plant, havage.MD-Howard County

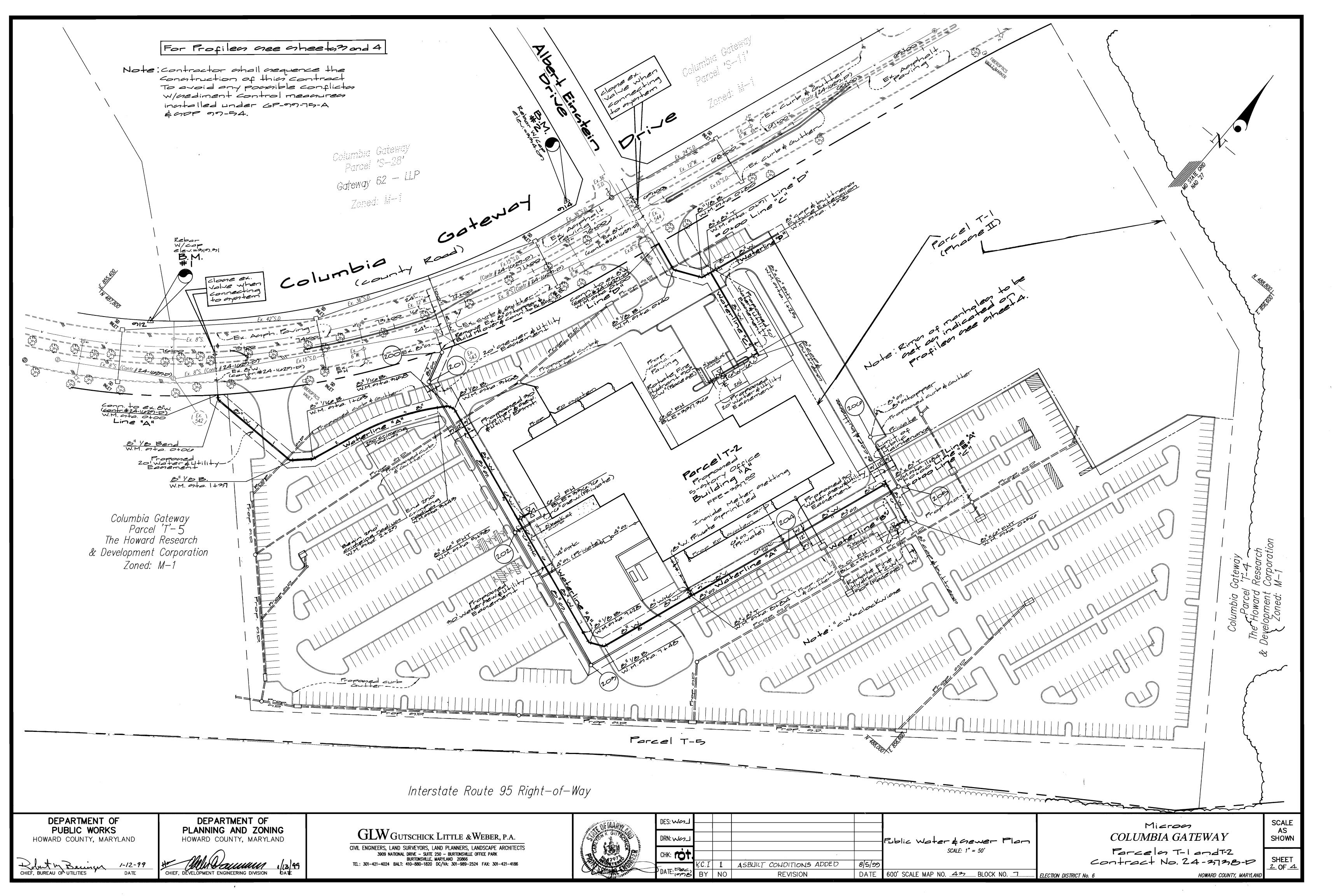
All manholes shall be 4' - 0'' inside diameter unless otherwise noted. Force mains shall be D.I.P. only.

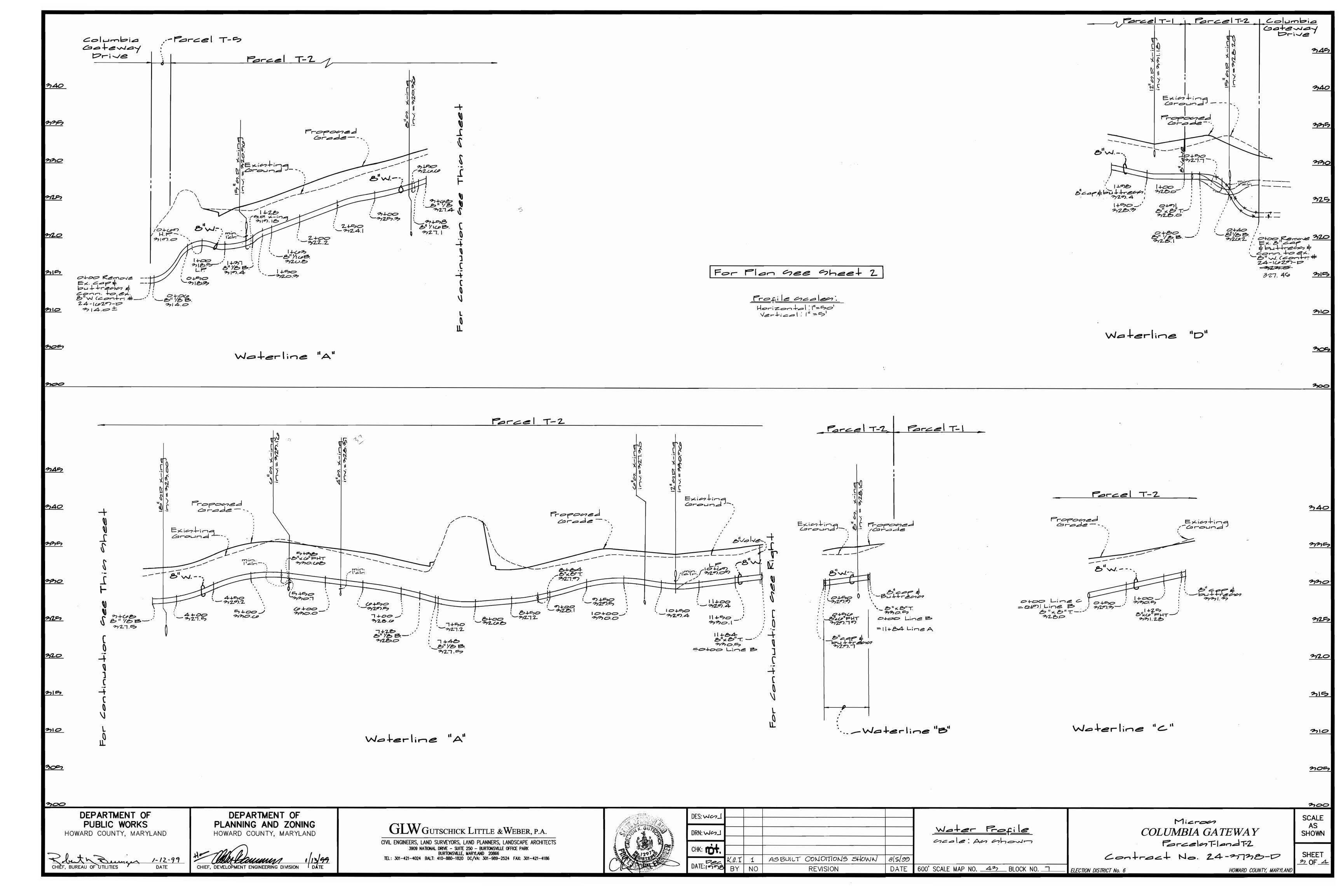
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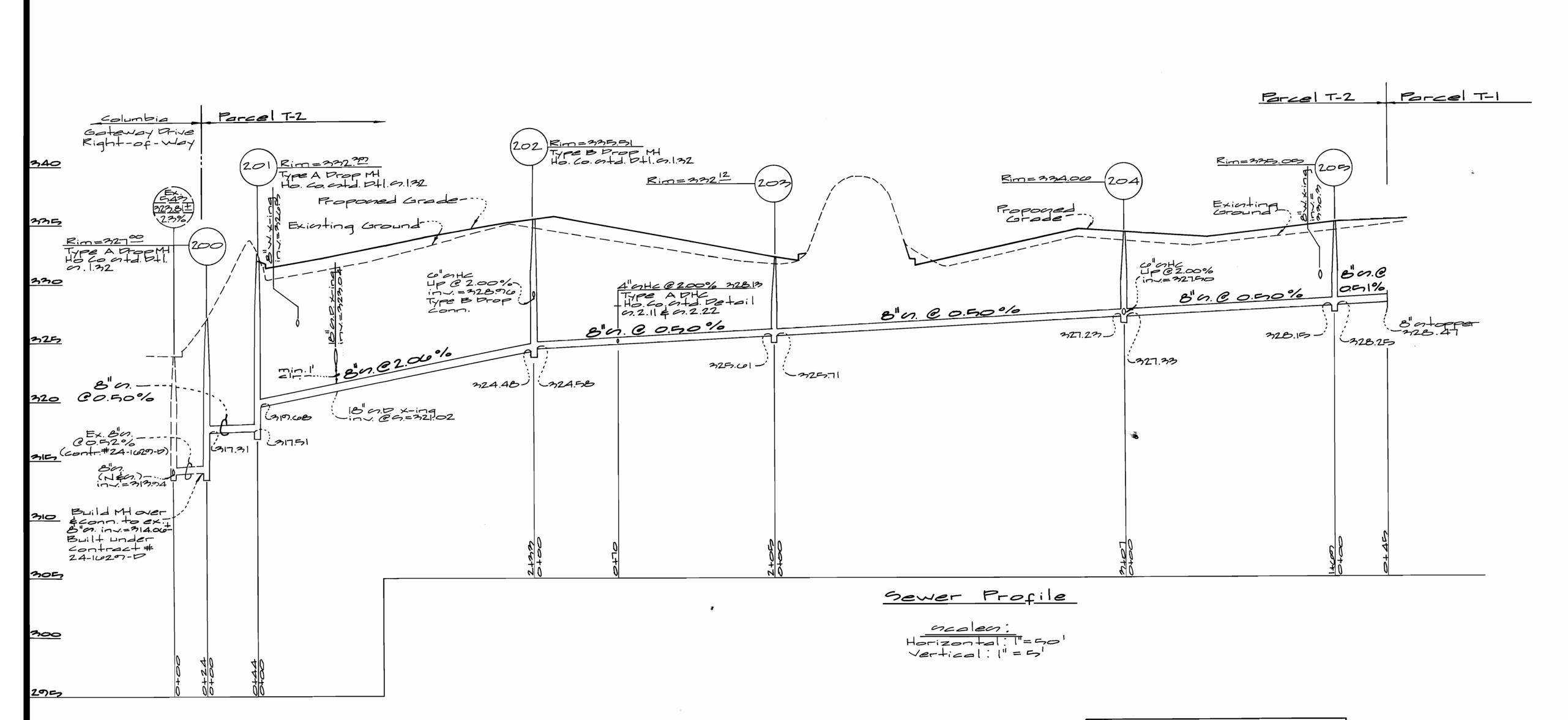
6. House(s) with the symbol "C.N.S." indicates that cellar cannot be

Micron

Election District No. G Howard County, Maryland





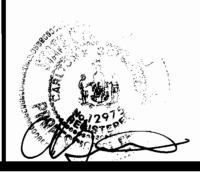


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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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لمما	BY	NO	REVISION	DATE	600' SCALE MAP NO. 47 BLOCK NO. 7

COLUMBIA GATEWAY Parcelo TI & T-2

SHEET 4 OF 4

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Contract No. 24-3736-D HOWARD COUNTY, MARYLAND