

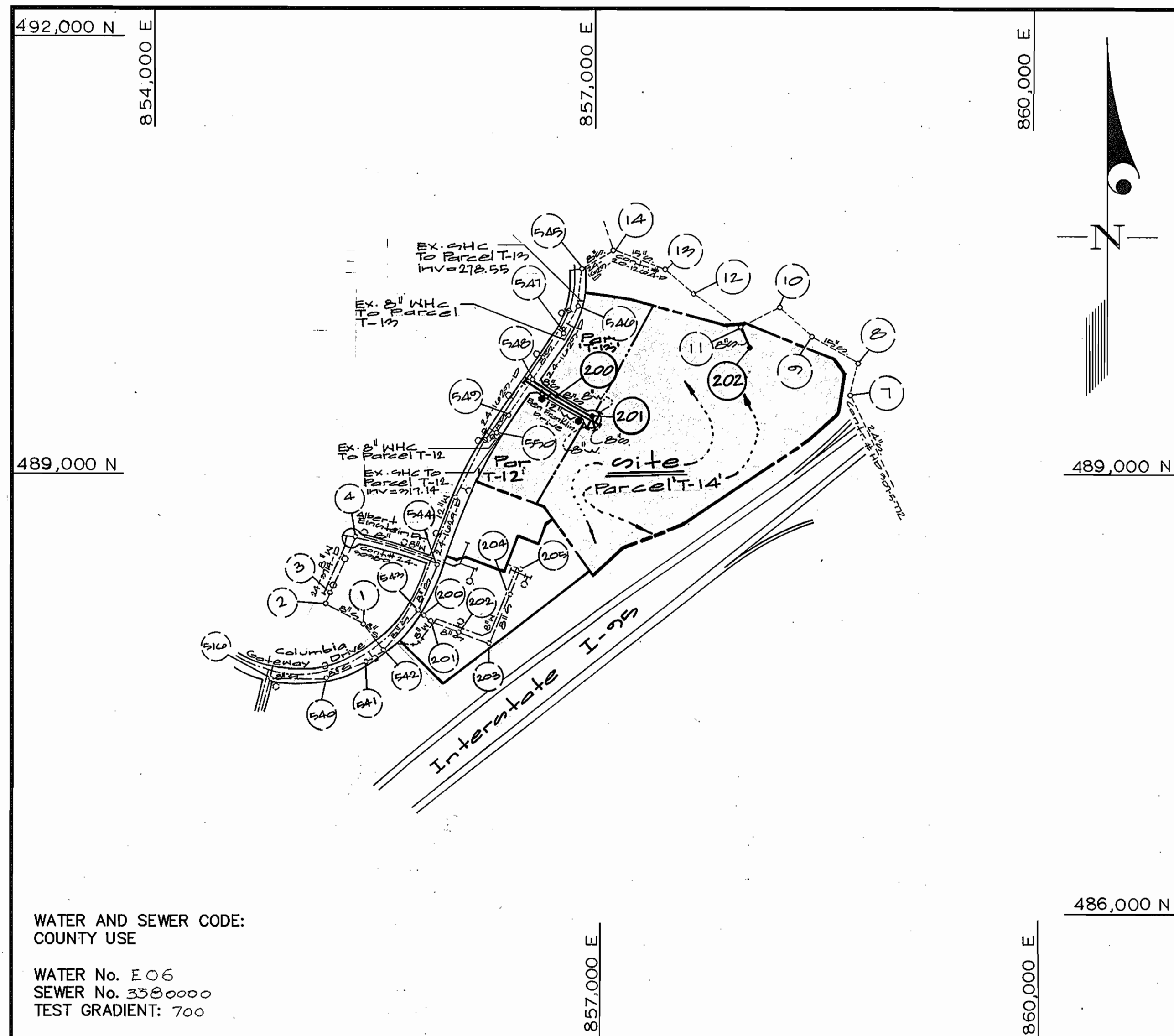
QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" sewer	487 LF	487 LF	SDR-35	DIAMOND/HUGHES
8" sewer (PIP)	117 LF	117 LF	CL 52 DIP	GRIFFIN/GRIFFIN
8" stopper	1 Ea.	1EA	SDR-35	HARLO/HUGHES
4" Manhole	4 Ea.	4EA	PRE-CAST	CONTR.PC.
12" water	550 LF	550 LF	CL 52 DIP	GRIFFIN/SAME
8" water	132 LF	132 LF	"	"
6" water	30 LF	30 LF	"	"
8" valve	3 Ea.	3 EA	G/V	KENNEDY/HUGHES
6" valve	2 Ea.	2 EA	"	"
12" x 8" reducer	1 Ea.	1 EA	M.J.	TYLER/HUGHES
12" x 6" FHT	2 Ea.	2 EA	"	KENNEDY/HUGHES
12" x 12" T&T	1 Ea.	1EA	"	FORD/HUGHES
Fire Hydrant	2 Ea.	2EA	"	KENNEDY/HUGHES
12" x 8" crown	1 Ea.	1EA	"	TYLER/HUGHES
8" cap	3 Ea.	3EA	"	TYLER/HUGHES

NAME OF UTILITY CONTRACTOR: GAINES

SURVEY AND DRAFTING DIV. CHECKBOX..... AS-BUILT DATE:.....

Bench Marks

HC Sta. 2243002 Elev. = 327.73  
 HC Sta. 2243001 Elev. = 322.920



WATER AND SEWER CODE: COUNTY USE

WATER No. E.06  
 SEWER No. 3380000  
 TEST GRADIENT: 700

VICINITY MAP  
 SCALE: 1"=600'

CONTRACT No. 24-3814-D  
**Columbia Gateway**  
 Parcels T-12 thru T-14

HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	Office & Commercial
NUMBER OF UNITS	Bulk Parcel
NUMBER OF S.H.C.'s	2 (Future)
NUMBER OF W.H.C.'s	2 (Future)
DRAINAGE AREA	Little Patuxent (DORSEY)
TREATMENT PLANT	Little Patuxent Water Reclamation Plant 70000 M <sup>2</sup> Howard County

GENERAL NOTES

- PART I**
- 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.
  - All horizontal controls are based on Maryland State Coordinates [North American Datum 1983 (NAD '83)].
  - All vertical controls are based on U.S.G.S. data.
  - All pipe elevations shown are invert elevations.
  - 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 to schedule the bracing of the poles.
  - 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.
  - Where test pits have been made on existing utilities, they are noted by the symbol  $\odot$  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.
  - 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
BGE Contractor Services	850-4620
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
  - 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 contractor.
  - 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.
  - 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 otherwise noted.
- 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 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.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

**PART III - SEWER**

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

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Drawings Plan F-00-132; Drawings for Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*John K. Roberts* 8/4/00  
 SIGNATURE DATE  
 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.

APPROVED: *Clayton Simpson* 8/4/00  
 HOWARD COUNTY DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Robert Bainger* 7-27-00  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

*John P. ...* 8/1/00  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20886  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



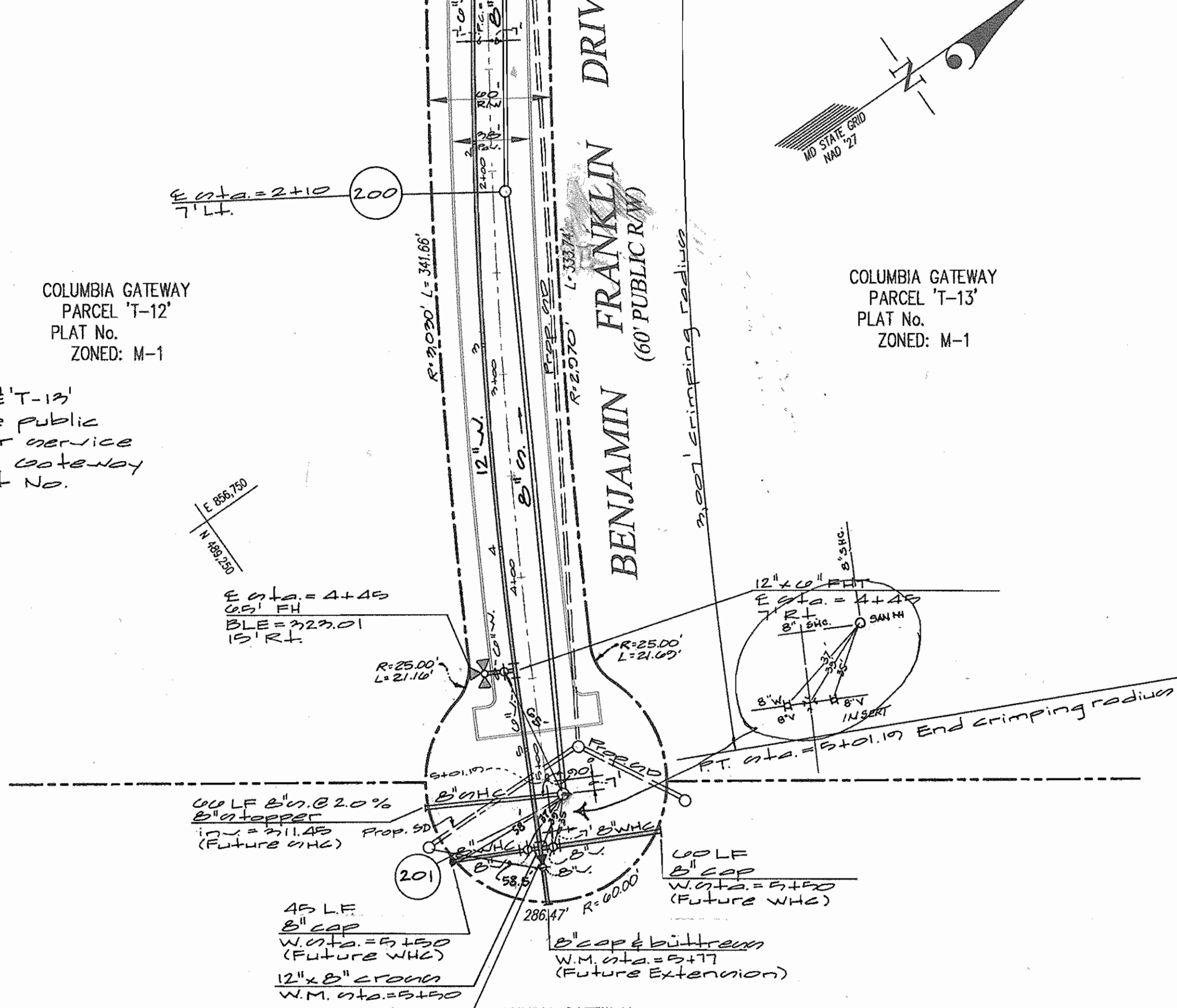
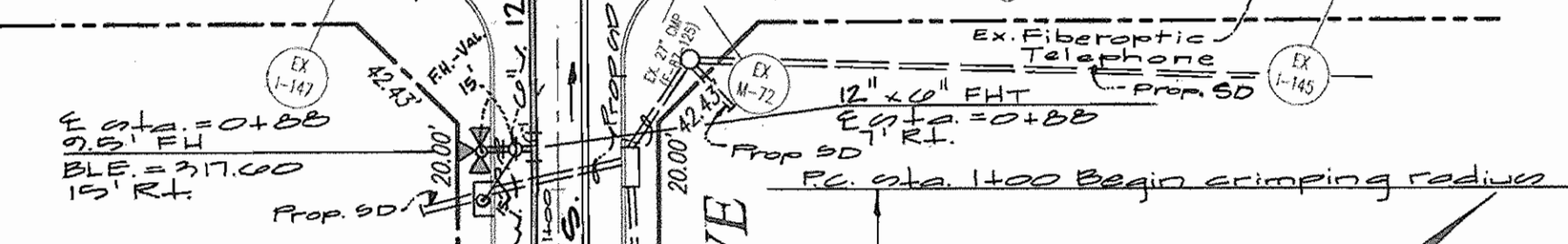
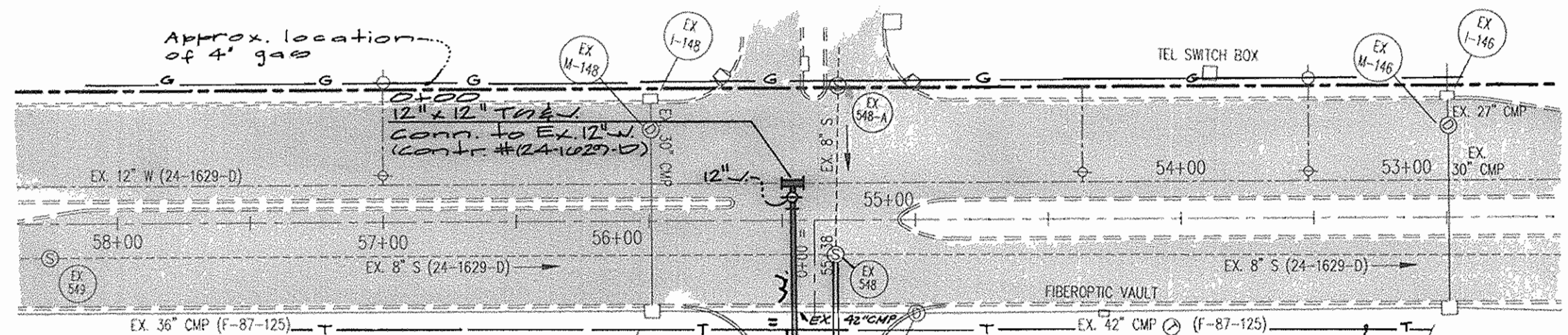
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DRN: W601				
CHK:				
DATE: 8/1/00	BY: KCI	NO: 113028	REVISION: AS-BUILT DATA SHOWN	DATE: 11/30/03

Title Sheet  
 Scale: 1"=600'  
 600' SCALE MAP NO. 43 BLOCK NO. 1

Columbia Gateway  
 Parcels T-12 thru T-14  
 Election District No. 6 Howard County, Md.  
 Contract No. 24-3814-D

GLW FILE No. 7B-005  
 SHEET 1 OF 3

**COLUMBIA GATEWAY DRIVE**  
(100' PUBLIC R/W)  
PLAT No. 7540

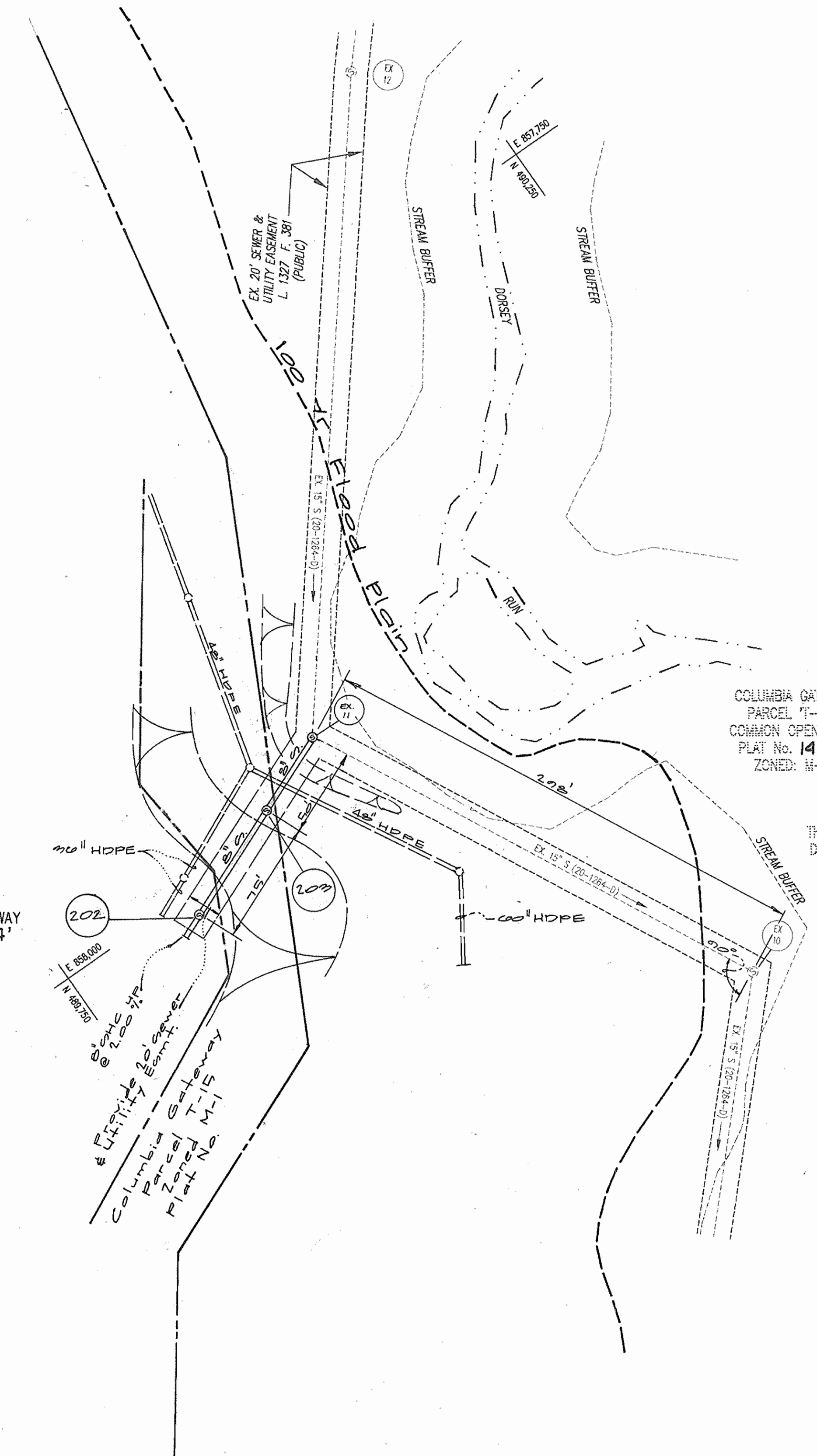
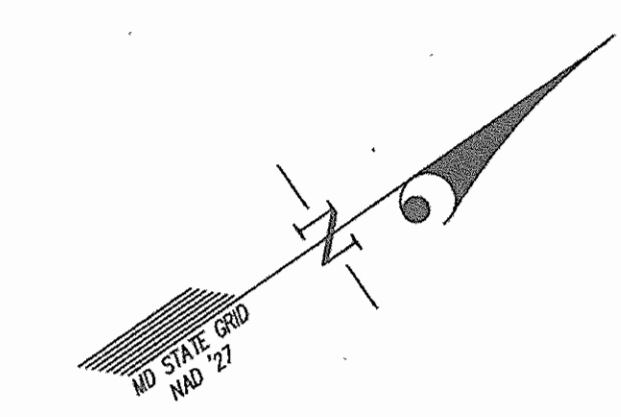


Note: Parcels T-12 & T-13 are to receive public water & sewer service from Columbia Gateway Drive (Contract No. 24-1029-D).

Note: Parcel T-14 is to receive water & sewer service from Benjamin Franklin Drive under this (contract 24-3814-D)

For Profiles see sheet 3

Note: Rim of Manholes to be set as indicated on Profiles



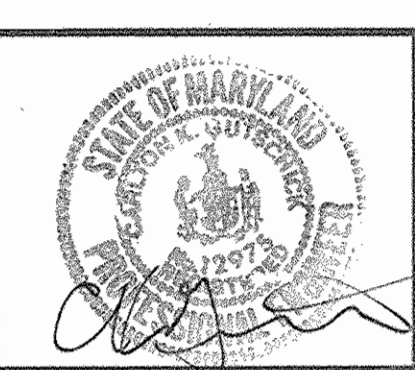
COLUMBIA GATEWAY PARCEL T-10  
COMMON OPEN AREA  
PLAT No. 14266  
ZONED: M-1

PROPERTY OF  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION  
L. 4118 F. 16

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert W. Bauman 7-27-00  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
John Vanaman 01/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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 BAL: 410-880-1820 DC/VA: 301-985-2524 FAX: 301-421-4186



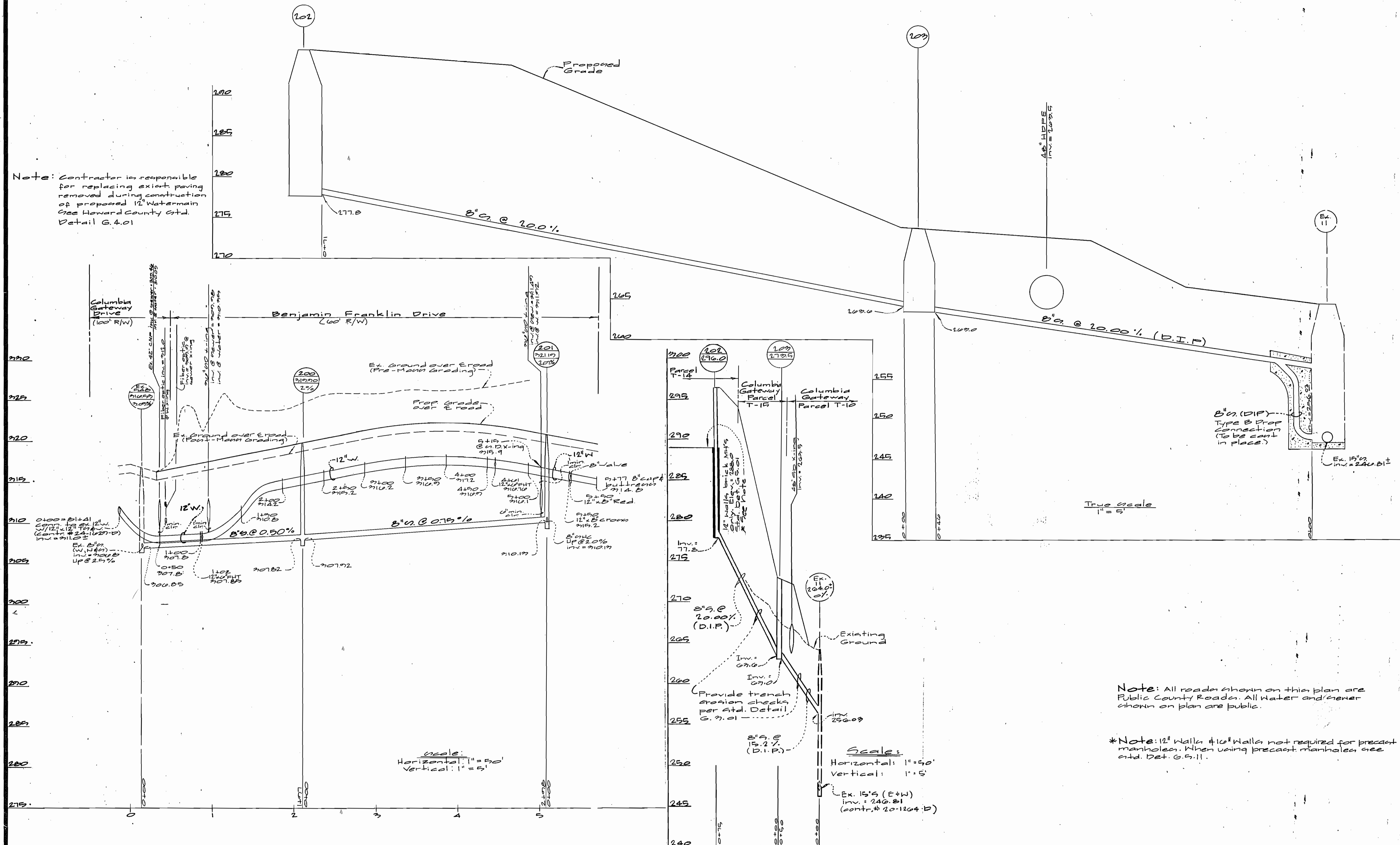
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DRN:	WJL/CAP			
CHK:	K.C.I.	2	ASBUILT DATA SHOWN	10/21/05
DATE:	K.C.I.	1	ASBUILT DATA SHOWN	11/30/05
	BY	NO	REVISION	DATE

WATER AND SEWER CONSTRUCTION PLAN  
Scale: 1" = 50'

COLUMBIA GATEWAY PARCELS T-12 THRU T-14  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT No. 24-3814-D

SCALE 1"=50'  
SHEET 2 OF 2

Note: Contractor is responsible for replacing exist paving removed during construction of proposed 12" Watermain See Howard County Std. Detail G.4.01



True Scale  
1" = 5'

Note: All roads shown on this plan are Public County Roads. All water and sewer shown on plan are public.

\*Note: 12" Walls & 10" Walls not required for precast manholes. When using precast manholes see std. Det. G.5.11.

Scale:  
Horizontal: 1" = 50'  
Vertical: 1" = 5'

Scale:  
Horizontal: 1" = 50'  
Vertical: 1" = 5'

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Robert D. ...</i> 11-27-00 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>...</i> 11/27/00 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>GLW GUTSCHICK LITTLE &amp; WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE, SUITE 250 - BIRTONSVILLE OFFICE PARK BIRTONSVILLE, MARYLAND 20686 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-999-2524 FAX: 301-421-4186</p>		<table border="1"> <tr> <td>DES: Waj</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DRN: Waj</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE: Nov 1999</td> <td>BY: NO</td> <td>REVISION</td> <td>DATE</td> </tr> </table>	DES: Waj				DRN: Waj				CHK:				DATE: Nov 1999	BY: NO	REVISION	DATE	<p>WATER AND SEWER PROFILES Scale: As Shown</p>	<p>COLUMBIA GATEWAY PARCELS 'T-12' THRU 'T-14' 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p> <p>CONTRACT No. 24-3814-D</p> <p>SCALE 1"=50' SHEET 27 OF 27</p>
DES: Waj																						
DRN: Waj																						
CHK:																						
DATE: Nov 1999	BY: NO	REVISION	DATE																			