

VICINITY MAP SCALE: I" = 600'

CONTRACT NO.14-1825-D

CRYSTAL SPRINGS ESTATES

SECTION 2 AREA I
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING

Single Family Detached

NUMBER OF UNITS

NUMBER OF SHC's

NUMBER OF WHC's

DRAINAGE AREA

Single Family Detached

36

PATAP 900

GENERAL NOTES

- 1. 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.
- 3. All vertical controls are based on U.S.G.S. Datum.
- 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. Any cost incurred by the contractor for tunnelling or bracing at poles shall be included in unit prices bid for construction of the main.
- 6. For details not shown on the drawings, use Howard County Standard Details.
- 7 For materials and construction methods use Howard County Standard Specifications & Howard County Design Manual, Volume IV. The Contractor shall have a copy of Volume IV on the job.
- 8 Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities, at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.

State Highway Administration 531-5533 Baltimore Gas & Electric Company 561 - 2585 Contractor Services 1-559-0100 "Miss Utility" ...234 - 5621 ...298 - 9013 Chesapeake & Potomac (C&P) Underground Damage Control 725-9976 Trouble-shooting Telephone Company 795-1390 Bureau of Utilities, Howard County... 992 - 2366 Colonial Pipeline Company

- 10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
- 11. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer Payment for such removal shall be included in the unit price bid for construction of the main.
- 12 Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- 13. All water mains to be D.I.P., Class 52 Only.
- 14 Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- 15 Valves adjacent to tees shall be strapped to tees.
- 16. Block all fittings with concrete.
- 17. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 10.05 and 10.08 of the Standard Specifications.
- 18. All water house connections shall be for an inside meter setting
- 19 The contractor shall not operate any water main valves on the existing system.
- 20 For all Copper Water House Connections, utilize flared type fittings only.
- 21 All sewer mains shall be C.S.P.X., V.C.P.X., R.C.S.P., P.V.C. or A.C.P. Class 2400 unless otherwise noted
- 22 The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall
- 23 All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 24 12" and 16" manhole wall thicknesses shown on profiles pertain to brick manholes only
- 25. Manholes designated W.T. in plan and profile shall have watertight frames and covers.(See Standard Detail G.5.52) Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade.(See Standard Detail G.5.41)
- 26 House(s) with the symbol "C.N.S." indicates that cellar cannot be served
- 27 Water main and water house connection lines must have a minimum of one foot separation from either sanitary sewer or sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10^t.
- 28. All D.I.P. Fittings shall be in accordance with A.W.W.A. specification C-153 ductile iron compact fittings, 3-inch through 12-inch for water and other liquids.

		QUANT	ITIES		
ITEM	ESTIMATED	AS-BUILT	MATERIAL / SUPPLIER		
8"5	2390 L.F.	2390 LF	SDR 35 J.M. PIPE		
8"W	909 L.F.	409 LF	CL 52 GRIFFIN PIPE		
6" W	448 L.F.	408 LF	CL 52 GRIFFIN PIPE		
4'Dia. MH	13 EA.	. EACH	4' & MH DEWEY BROS.		
F.H.	4 EA.	4 EALH			
8"V.	3 EA.	3 EACH	MUELLER CO		
6"V(Excl. F.H.V.)	I EA.	I EALH	MUELLER CO		
6"5.H.C.	305 L.F.	からした	J.M. PIPE		
1" W.H.C.	602 L.F.	r to LF	HOWELL, METALD		
3/4" W.H.C.	257 L.F.	6.57 LF	HOWELL METALS		
8"x6"TEE	I EA.	I EACH	J.M. PIPE		
4"x4 TEE	I EA.	EACH	GRIFFIN PIPE		
4" S.H.C.	1140 L.F.	1140 LF	J.M. PIPE		
3" Blowoff	I EA.	LEACH	MUELLER CO.		
8" × 8" Tee	I EA.	I EACH	GRIFFIN PIPE		
1/2 " W.HC,	72 L.F.	IL LF	HOWELL METALS		

accordance with Section 219 of the Specifications & with Road Construction Plan F 89-22; Drawings 446 of 6 for Sediment & Erosion Control, and this plan.

REVIEWED FOR HOWARD SOIL CONSERVATION
DISTRICT AND MEETS TECHNICAL

U.S. SOIL CONSERVATION SERVICE

Sediment Control Measures will be implemented in

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

Columber 5/6/90

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF ENGINEERING DATE

CHEF, LAND DEVELOPMENT DIV. DATE

ENGINEERS, PLANNERS, SURVEYORS

3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK

BURTONSVILLE, MD. 20866

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	DES: GPM				
	DRN: R.R.S.				
	снк: <i>С.К.G.</i>				
1	MAY	L .			
	DATE: MAY 1990	BY	NO.		

REVISION

TITLE SHEET

DATE 600'SCALE MAP NO. 31 BLOCK NO. 14

CRYSTAL SPRINGS ESTATES

SECTION 2 AREA 1

LOTS 35 THRU 72

15+ ELECTION DISTRICT

CONTRACT NO. 14 -1825-D

SHEET 1 OF 3



