LOT No.	Sta. • MAIN	Inv. SHC @ Sewer Main		Min. Cellar Elevation	REMARKS
1	1+85	441.12	441.30	444.50	DHC
2	1+10	441.96	442.60	446.00	-
3	0+90	445.16	445.80	449.50	DHC
4	AT MH 4	445.16	445.80	449.50	
5	0+70	447.00	448.84	452.44	DHC
6	1+64	443.17	443.57	447.27	
7	AT MH 5	443.64	444.02	447.92	
8	AT MH 5	443.64	444.04	450.80	TWIN SHC (SEE NOTE SHT. 2002)
9	AT MH 5	443.64	444.04	448.50	TWIN GHE @ 100 (SEE NOTE
10	0+90	442.64	443.22	446.72	
11	0+55	442.39	443.01	446.81	
12	1+98	441.84	442.20	445.90	
13	0+99	444.04	444.40	448.00	DHC
14	0+33	445.04	445.40	449.00	DHC

BENCH MARKS

1. HO. CO. MON. # 3443001 N.533191.605 E.853186.593 ELEV. 466.88 REBAR IN GRAVEL SHOULDER 0.2' BELOW SURFACE

2. HO. CO. MON. # 3443003 N.532859.485 E.853325.275 ELEV. 453.14 3/4 REBAR O.5' BELOW SURF.

GENERAL NOTES

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

3. All vertical controls are based on U.S.G.S. data.

4. 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.

6. For details not shown on the drawings, and for materials and construction methods used Howard County Design Manual, Volume IV, Standards Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume

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.

Contractor shall notify the following utility companies or agencies at least five working days before starting work shown

State Highway Administration BG&E Co. Contractor Services 531-55**3**3 850-4620 BG&E Co. Under Ground Damage Control 787-9068 1-800-257-7777 Colonial Pipeline Co. 795-1390 Howard County Department of Public Works Bureau of Utilities

9. 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.

Use Jacking/Boring for crossing state and county Roads, unless open cut is permitted.

PART II - WATER

1. 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 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

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained, as per STD. details W.1.11 and W2.13 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 and Specifications.

6. 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.

All sewer mains shall be DIP, RCP, VCPX, CSPX, RCCP, and P.V.C. unless otherwise noted.

The contractor shall provide a joint in all sewer mains within 2' — 0" of exterior manhole wall.

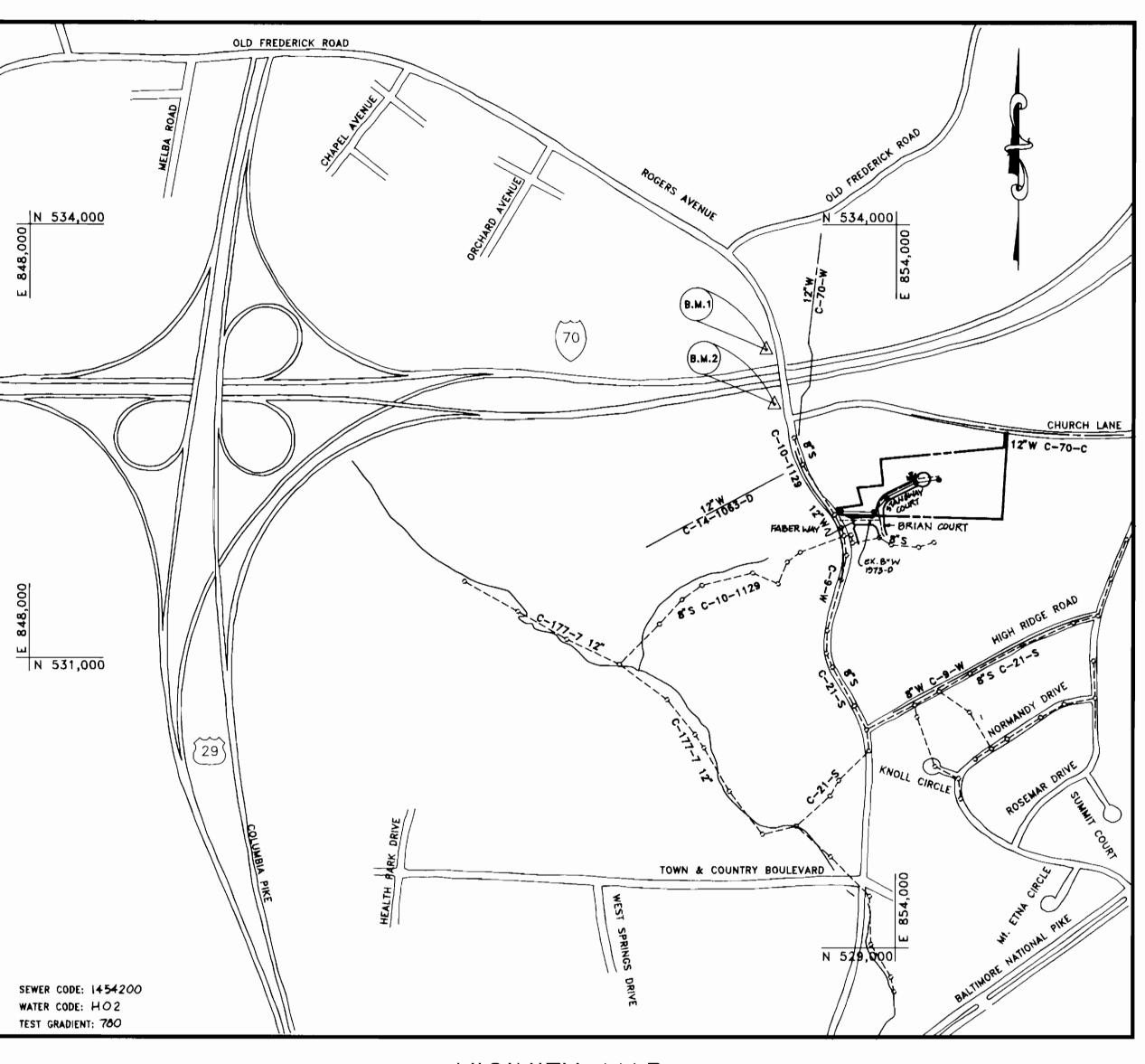
3. All manholes shall be 4' - 0" inside diameter unless

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

6. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where waterlight manhole frame and cover is used, set top of frame 1" — 6" above finished grade unless otherwise noted on the

Manholes shown with 12" and 16" wails are for brick manholes

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



VICINITY MAP Scale: 1" = 600'

Type of Building: SINGLE FAMILY DWELLINGS No. of Lots/Parcels: Drainage Area: Patapsco Patapsco WWTP Treatment Plant:

CONTRACT NO. 14-3174-D FEAGA PROPERTY LOTS 1 THRU 16

HOWARD COUNTY, MARYLAND **DEPARTMENT** WORKS **PUBLIC**

			QUANTITIES		
TILMS	ESTIMATED				
ITEMS	QUANTITIES	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
8" S.	819 L.F.	817 LF.	PUC SOR- 35	BR1510 L	
8" W.	416 L.F.	410.6 L.F.	DUCTILE IRON PIPE	GRIFFIN PIPE PROD.	
MANHOLE	4	4	4' 510.	MILANTIC CONC. PROP.	
TERM.MANHOLE	1	1	41 STO.	ATLANTIC CONC. PROD.	
FIRE HYDRANT	1	1			-NO CERTIFICATION 9/1/93
G"CAP&BUTTRESS	1	l	M.J. CAP	GRIFFIN PIPE	. ,
8"1/16 H.B.	2	2			-NO CERTIFICATION 9/1/93
8" X 6" T.	1	1	HYDRANT TEE	GRIFFIN PIPE	
6" V.	1	PREVIOUS CONTRACT	MJ. GATE VALVE	KENNEOY	
8" V.	1	INSTALLED PREVIOUS CONTRACT	-	-	TAY S HOEIZON THE EN TOLE OF
3/4" WHC	355 L.F. 377 L.F.	388 6 L.F. 247/+/49.5 L.F.*	PUC SDR-35	CAMBRIOGE LEE AMBRICAN	# 149.5 HORIZONTAL L.F FOR DH
4" DHC	20 V.L.F.	29.5 L.F.	PUC SOR - 35	AMERICAN	
I" WHC	15 L.F.	33 LF (TIDIN)	"K" COPPER	CAMBRIDGE LEE	
Ø ¹ ₩.	189 L.F.	169 LF.	DUCTILE IRON PIPE	GRIFFIN PIPE PROD.	
8" x G" KEDUCER		/			NO CERTIFICATION 9/1/73

WALTER & SEWER 43 BUILTS

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DATE HE CHIEF, LAND DEVELOPMENT DIVISION

Sediment Control Measures will be implemented in accordance with section 219 of the Specifications and with Road Construction Plan F-53-25

CHIEF, BUREAU OF UTILITIES

Boandar Associates 3230 BETHANY LANE ELLICOTT CITY, MARYLAND 21042 (410) 465-7777 FAX: (410) 465 7966

5	SEPT.1992	BY	No.	REVISION	DATE
DATE					
	s.K.W.				
CHKı					
DRN:	4.B.B.				
	J.J.B.				
DE2:					

TITLE SHEET

600 SCALE MAP NO .: 17 : 18 , BLOCK NO .: 18 : 13

FEAGA PROPERTY LOTS 1 Thru 16 2nd ELECTION DISTRICT CONTRACT No. 14-3174-D AS SHOWN SHEET 1 of 2

