QUANTITIES						
Tre M	**************************************	A5-BUILT				
ITEM	estimated	QUANTITIES	TYPE	SUPPLIER		
Ø" WATER	1,052.97 L.F.	970L.F.	DIP CLASS 52	HUGHES		
6" WATER	78.30 L.F.	53 L.F.	DIP CLASS 52	Hughes		
FIRE HYDRANT	3 EACH	3 EACH	KENNEDY	HUGHES		
12" X 0" TAPPING SLEEVE & VALVE	1 EACH	I EACH	FORD C207 KENNEDY VALVE	HUGHES		
8" VALVE	3 EACH	3 EACH	KENNEDY VALVE	HUGHES		
6" VALVE	4 EACH	4 EACH	KENNEDY VALVE	Hughes		
0" X 0" TEE	2 EACH	2 EACH	TYLER	HUGHES		
9" X 6" TEE	3 EACH	3 EACH	TYLER HYD/TEE	Hughes		
1/8 H.B.	2 EACH	2 EACH	TYLER	HUGHES		
1/32 H.B.	2 EACH	2 EACH	TYLER	Hughes		
8" X 6" REDUCER	1 EACH	I EACH	TYLER	HUGHES		
Ø" PLUG & BUTTRESS	3 EACH	1 EACH	TYLER	HUGHES		
-6"-PLUG-&- -BUTTRESS	-1 EACH-					
NAME OF UTILITY CONTRACTOR: ROSS CONTRACTING						
SURVEY & DRAFTING DIVISION AS-BUILT DATE: FEBRUARY 2005						

DEVELOPER'S CERTIFICATION

" I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

6.3.04 DATE

## ENGINEER'S CERTIFICATION

\* I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

06-03-04

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

IN DEVELOPING AREAS AND AS SHOWN ON SDP 04-118.

WW. (2 6.3.04 SIGNATURE OF DEVELOPER

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND





CEDAR LANE PROGRAM

AT THE FULTON CAMPUS

MIDDLE SCHOOL

FULTON ELEMENTARY

SCAGGSVILLE

WATER MAIN EXTENSIONS

CONTRACT NO. 44-4195-D

LIME KILN ROAD I

WATER & SEWER CODE FOR COUNTY USE ONLY WATER NO.: \_\_\_\_\_ SEWER NO .: . WATER ZONE: .

WATER TEST GRADIENT: \_\_\_\_\_\_\_700

TYPE OF BUILDING: PUBLIC SCHOOL

NO. OF WATER HOUSE CONNECTIONS: \_\_\_\_\_

DRAINAGE AREA: LITTLE PATUXENT

NUMBER OF LOTS & PARCELS: 1 BUILDABLE

NO. OF SEWER HOUSE CONNECTIONS: N/A

TREATMENT PLANT: LITTLE PATUXENT WATER RECLAMATION

DRAWN BY M.D.T. CHECKED BY P.W.K. DATE : JUNE, 2004 REVISION

WATER MAINS TITLE SHEET

600' SCALE MAP NO. 41/46 BLOCK NO. 20 & 21/2 & 3

## CEDAR LANE PROGRAM AT THE FULTON CAMPUS WATER MAIN EXTENSIONS

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CEDAR LAME PROGRAM AT THE FULTON CAMPUS WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 03/91. 3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 00. 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF

TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES

6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.

1. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY

7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL & AT THE LOCATIONS OF THE TEST PITS. 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.

0. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T . . . . 1-800-252-1133 BGE (CONTRACTOR SERVICES) . . . . 410-050-4620 BGE (UNDERGROUND DAMAGE CONTROL) . . . . 410-787-9068 BUREAU OF UTILITIES . . . . . 410-313-4900 COLONIAL PIPELINE CO . . . . 410-795-1390 MISS UTILITY . . . . 1-800-257-7777 STATE HIGHWAY ADMINISTRATION . . . . 410-531-5533 VERIZON . . . . 1-800-743-0033/410-224-9210

9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR. 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL

SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN. 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

N 542500

N 539750

PLAN REFERENCE NUMBERS:

5DP 04-118

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN

ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS. 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

> BENCHMARK INFORMATION B.M. 1 - HOWARD COUNTY MONUMENT 41GA N 541,399.078 E 1,333,808.248

ELEVATION = 462.807 B.M. • 2 - HOWARD COUNTY MONUMENT 46B2 N 539,907.714 E 1,337,210.435 ELEVATION = 475.235

CONTRACT NO. 44-4195-D

VICINITY MAP

SCALE: 1"=600"

RESERVOIR

HIGH SCHOOL

# CEDAR LANE PROGRAM AT THE FULTON CAMPUS EXTENSIONS

HOWARD COUNTY, MARYLAND

CONTRACT NO. 44-4195-D

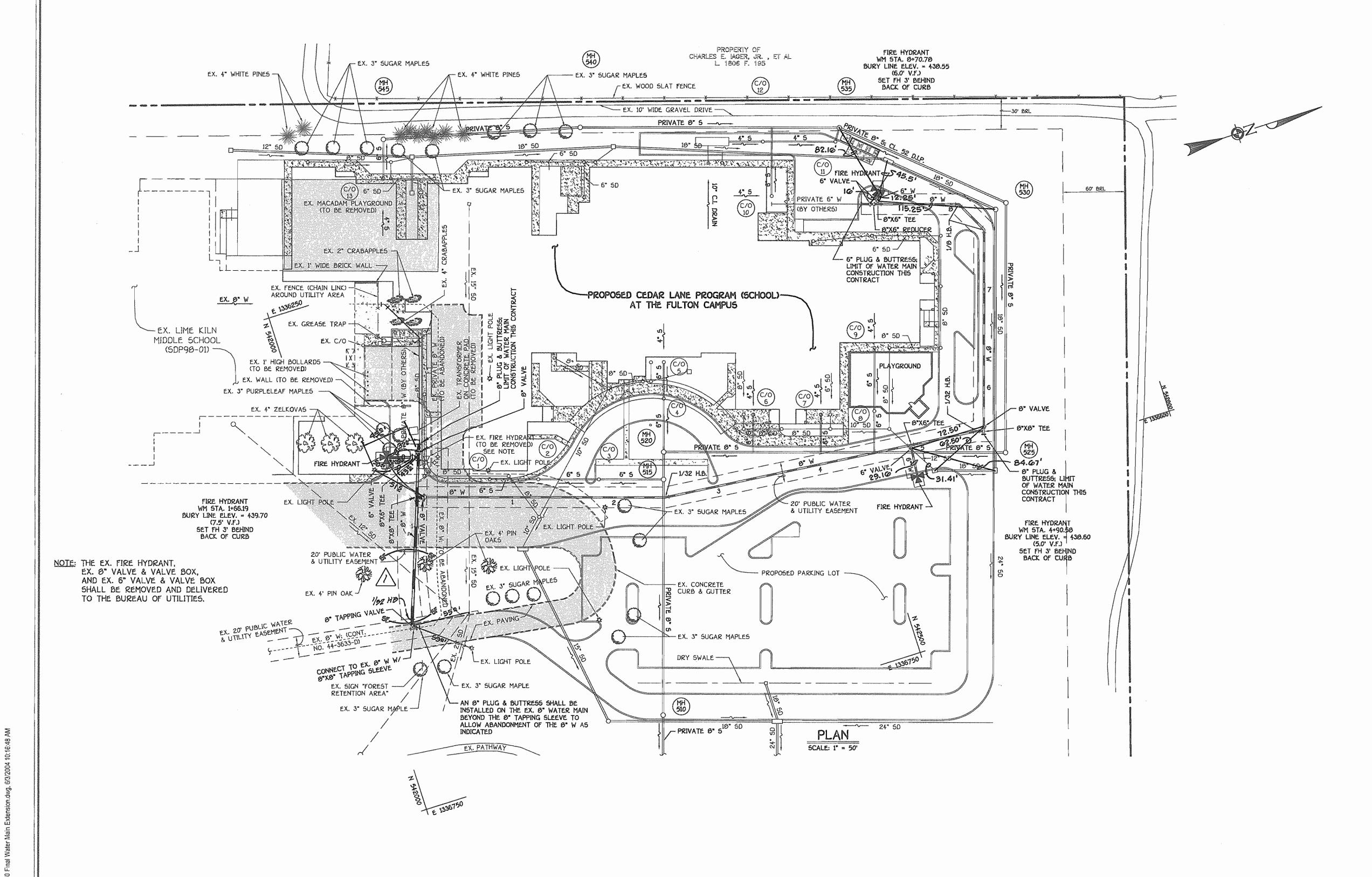
CONTRACT NO. 44-4195-D

PATE FEBRUARY 2005

SHEET 1 of 3

SHOWN

F.C.C. WORK ORDER NO. \_\_\_\_61770 FINAL WATER MAINS TITLE SHT



DATE FEBRUARY 2005

CONTRACT NO. 44-4195-D
CEDAR LANE PROGRAM
AT THE FULTON CAMPUS
WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. I. Square office park – 10272 Baltimore national pike Ellicoft city, maryland 21042 (410) 461 – 2855



	DESIGNED BY : M.D.T.					
	DRAWN BY : M.D.T.					
	CHECKED BY :	SVC	$\triangle$	Moved approx 179' of public 8" water Main to avoid Ex. underground electric conduit	1.5.05	600' SCALE
	DATE:	,		avoid Ex underground electric conduit		F
HER	JUNE, 2004	βY	NO.	REVISION	DATE	FILE NAME : _
			***************************************			

WATER MAINS PLAN!

600' SCALE MAP NO. \_41/46 BLOCK NO. 20 & 21/2 & 3

FINAL WATER MAIN PLAN 5HT 2

F.C.C. WORK ORDER NO. 61770

CEDAR LANE PROGRAM AT THE FULTON CAMPUS WATER MAIN EXTENSIONS CONTRACT NO. 44-4195-D FIFTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

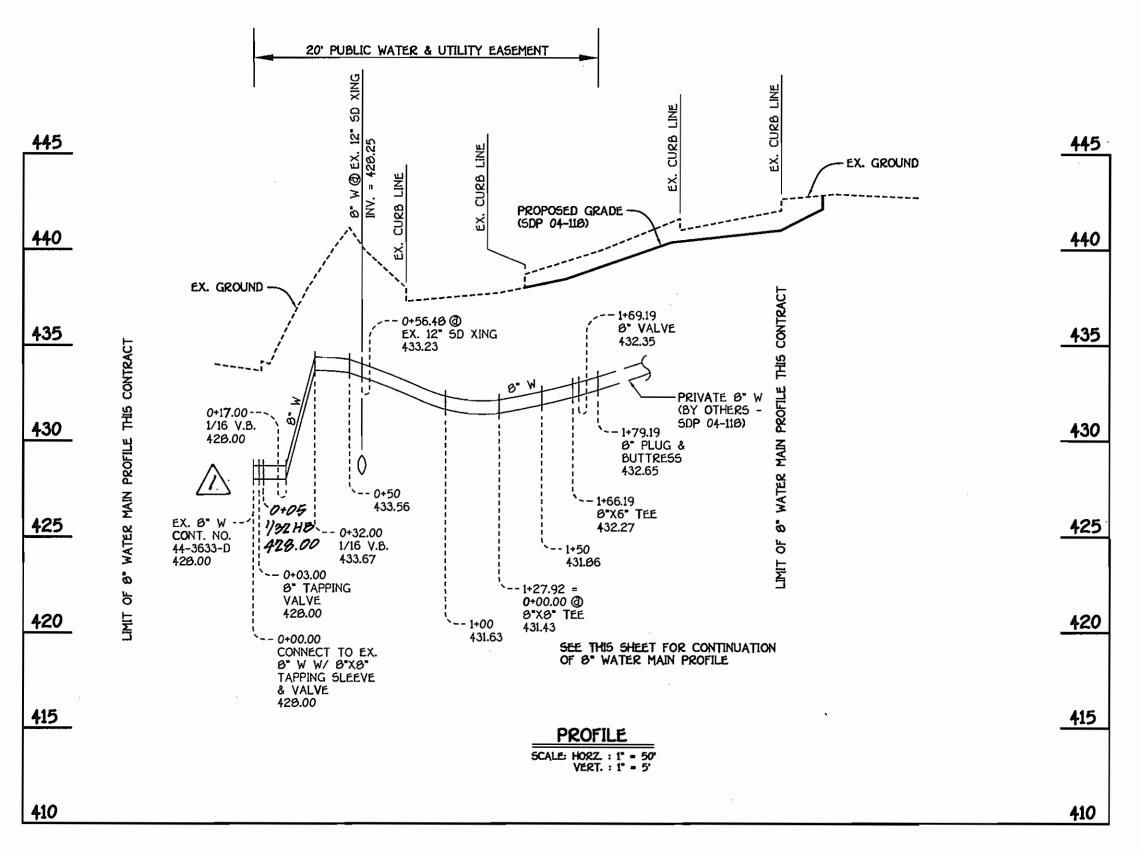
SHOWN SHEET 2 or 3

**SCALE** 

A5

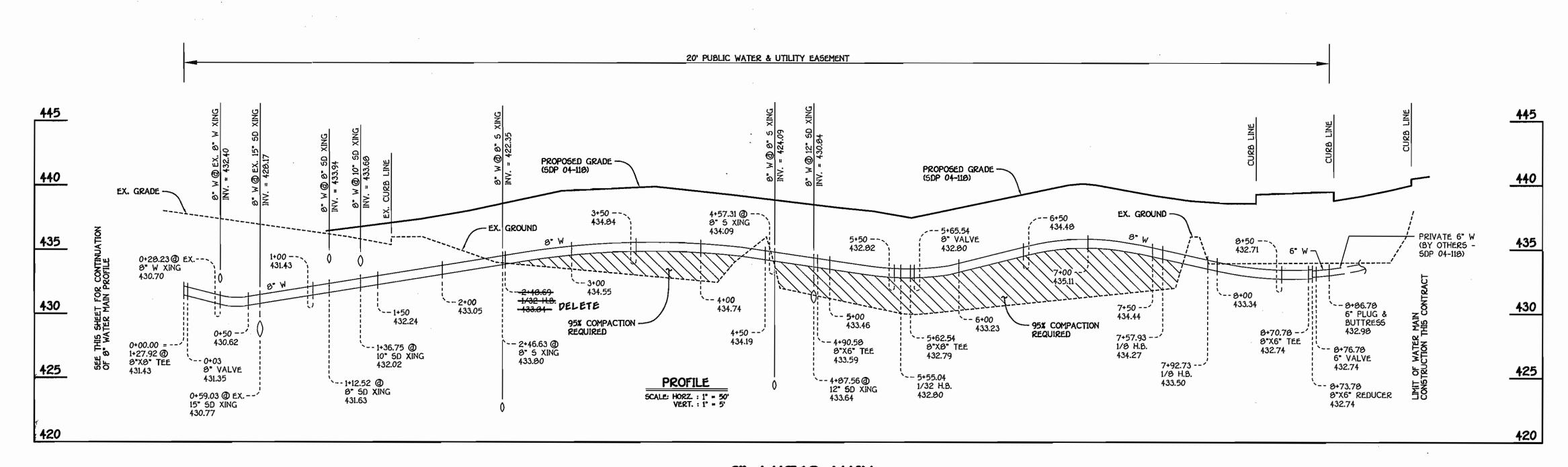
DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

6/30/04



	WATER MAIN TABULAT	ION CHART				
W.M. STATION	APPURTENANCE	NORTHING	EASTING			
8" WATER MAINS						
0+00.00	6" X 6" TAPPING SLEEVE	542041.26	1336579.06			
0+03.00	8" TAPPING VALVE	542041.71	1336576.09			
0+03.97	P.C. (CRIMP RADIUS - 300.00')	542041.85	1336575.13			
0+64.42	P.T. (CRIMP RADIUS = 300.00')	542055.61	1336516.34			
1+27.92	0" X 0" TEE	542074.94	1336455.05			
1+66.19	0" X 6" F.H. TEE	542086.59	1336419.40			
1+69.19	8° VALVE	542007.51	1336416.54			
1+79.19	0" PLUG & BUTTRESS	542090.55	1336407.02			
0+00.00	8" X 8" TEE	542074.94	1336455.05			
0+03.00	8" VALVE	542077.80	1336456.77			
2+40.69	1/32 H.B.	542311.70	1336531.95			
4+90.50	0" X 6" F.H. TEE	542552.43	1336555.63			
5+55.04	1/32 H.B.	542616.50	1336561.95			
5+62.54	0" X 0" TEE	542623.72	1336564.24			
5+65. <b>54</b>	8" VALVE	542624.64	1336561.30			
7+57.93	1/8 H.B.	542683.41	1336370.10			
7+92.73	1/0 H.B.	542667.50	1336347.24			
8+70.78	Ø" X 6" F.H. TEE	542593.10	1336323.40			
Ø+73.78	0" X 6" REDUCER	542590.32	1336322.48			
Ø+76.7Ø	6" VALVE	542587.44	1336321.56			
8+86.78	6" PLUG & BUTTRESS	542577.95	1336316.51			

### 8" WATER MAIN



8" WATER MAIN

AS BUILT

CONTRACT NO. 44-4195-D
CEDAR LANE PROGRAM
AT THE FULTON CAMPUS
WATER HAN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DESIGNED BY:
HOWARD COUNTY, MARYLAND

DESIGNED BY:
M.D.T.

Milwelly Limo G/4/04 DATE CHIEF, DEV

MURLIMINE ( ) DATE



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A POLITICAL PROPERTY OF THE PARTY OF THE PAR	CHEC
TERRELL A. FISHER	ב 1טנ

M.D.T.					WATER MAINS
DRAWN BY : M.D.T.			<del>-</del>		PROFILES
CHECKED BY:					
P.W.K.		Λ-			600' SCALE MAP NO41/46 BLOCK NO20 & 21/2 & 3
DATE :	3/0	$\angle\!$	Added 1/22 HB	1.5.05	F.C.C. WORK ORDER NO. 61770
JUNE, 2004	βY	NO.	REVISION	DATE	FILE NAME : FINAL WATER MAINS PROFILES SHT 3

CEDAR LANE PROGRAM AT THE FULTON CAMPUS WATER MAIN EXTENSIONS

CONTRACT NO. 44-4195-D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SHOWN
SHEET
3 OF 3