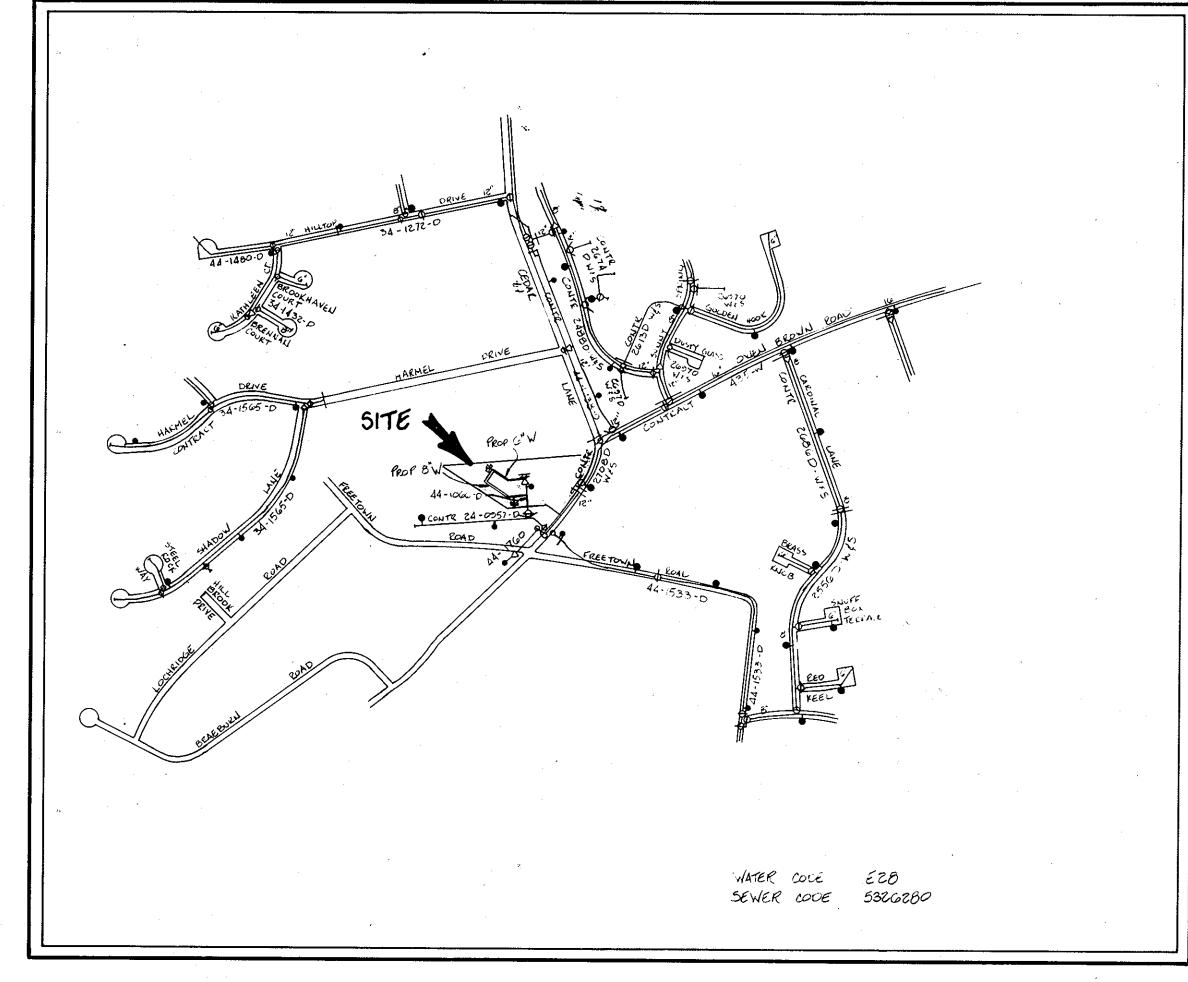
LORIEN NURSING HOME

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



LOCATION MAP Scale: |" = 600'

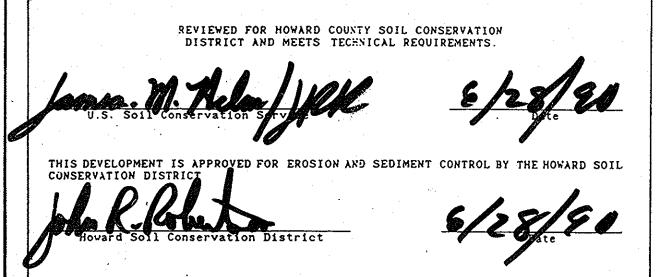
<u> </u>	
	TYPE OF BUILDING <u>NURSING HOME</u>
]	NUMBER OF LOTS1
	NUMBER OF WATER HOUSE CONNECTIONS 1
	NUMBER OF SEWER HOUSE CONNECTIONS O
	DRAINAGE AREA LITTLE PATUXENT RIVER

QUANTITIES 3 UNIT ESTIMATED AS-BUILT MATERIAL/SUPPLIER 8"X6" TEE 8"X4" TEE 4" VALVE 6" VALVE 6" FIRE HYDRANT 6" WATER 4" WATER

AS-BUILT QUA	51	LPPLIER	₹			
8"DIP WATER	"DIP WATER 4524F.		MUNICIPAL & CONTRACTOR Sales			
6" DIP Water	92LF.	*		*	7	
Fire Hydrant	25A.	50	MEH	5>		
6" VAIVE	48A.	• 1	MEJ	12	s)	
8" 90° HORZ. Bend.	JEA.			17	3/	
8"x6" Tes	YEA.	23		11	18	
8"- 18 BEND	EA			47	17	
8" VALVE	jen.	MS	<u></u>		•	

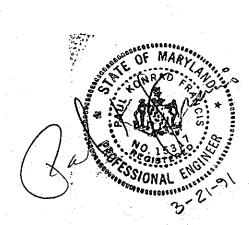
	QUA	ANTITIES		
ITEM	UNIT	ESTIMATED	AS BUILT	MATERIAL/ SUPPLIER
6" WATER	LF	2 5		
6"- 1/8 BEND	EA	Juny		
8" WATER	LF _	589 481	Λ	
8"x 6" REDUCER	EA/) wight	خشا	
-8"= 1/4 BEND	 EA V /	/ (
8"- 1/8 BEND	` EA C	- ا		
8"x 6" TEE	EA	2		
8"x 8" TS & V	EA	4 3 49/		
FIRE HYDRANT	EΑ	2		•

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IN ACCORDANCE WITH SECT-219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS



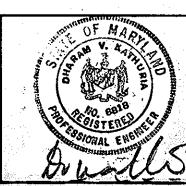
REFERENCE FILE No. SDP-76-93

SDP-81-36 SDP-82-82 SDP-90-109 F-84-26



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS ELLICOTT CITY, MD. 21043



DES: MAL	PKR		REVISED QUANTITY TAIBLE	3-21-01
DES: MAL	KCE	A	REVISED QUANTITY TABLE FIRE HYDRANT &WATER LINE S	5-4-10
DRN: MAL				· ·
снк:				
DATE:	BY	NO.	REVISION	DATE

TITLE SHEET WATER MAINS

600'SCALE MAP NO. 35 BLOCK NO.

CONTRACT 44-3048-D LORIEN NURSING HOME EXPANSION

5th ELECTION DISTRICT

SHOWN SHEET

AS-BUILT 4-5-91

HOWARD COUNTY, MARYLAND

1 ALL WATER MAIN TO BE DIP CLASSISS. ALL FITTINGS FOR THE 8" MAIN TO BE D.I.P. COMPACT FITTINGS (SEE NOTE #24)

2 TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5 FT. COVER UNLESS

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES

4. BLOCK ALL FITTING WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.

5. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND OUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARDS DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTION 1005 OF THE STANDARD SPECIFICATIONS.

6 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.

7. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.

8. ALL VERTICAL CONTROLS, ARE BASED ON U.S.G.S. DATUM:

9. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

10. CLEAR ALL UTILITIES BY A MINIMUM OF 6", CLEAR ALL POLES BY 2' - 0" MINIMUM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF MAIN.

11. FOR DETAILS NOT SHOWN ON DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.

12. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATION IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.

13 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.

14 CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE

15. 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.

16. 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 AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION (CUSTOMER SERVICE 685-\$123)

ENGINEERING, "DAMAGE CONTROL" - 234-5621 BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION (CUSTOMER SERVICE 685-Ø123)

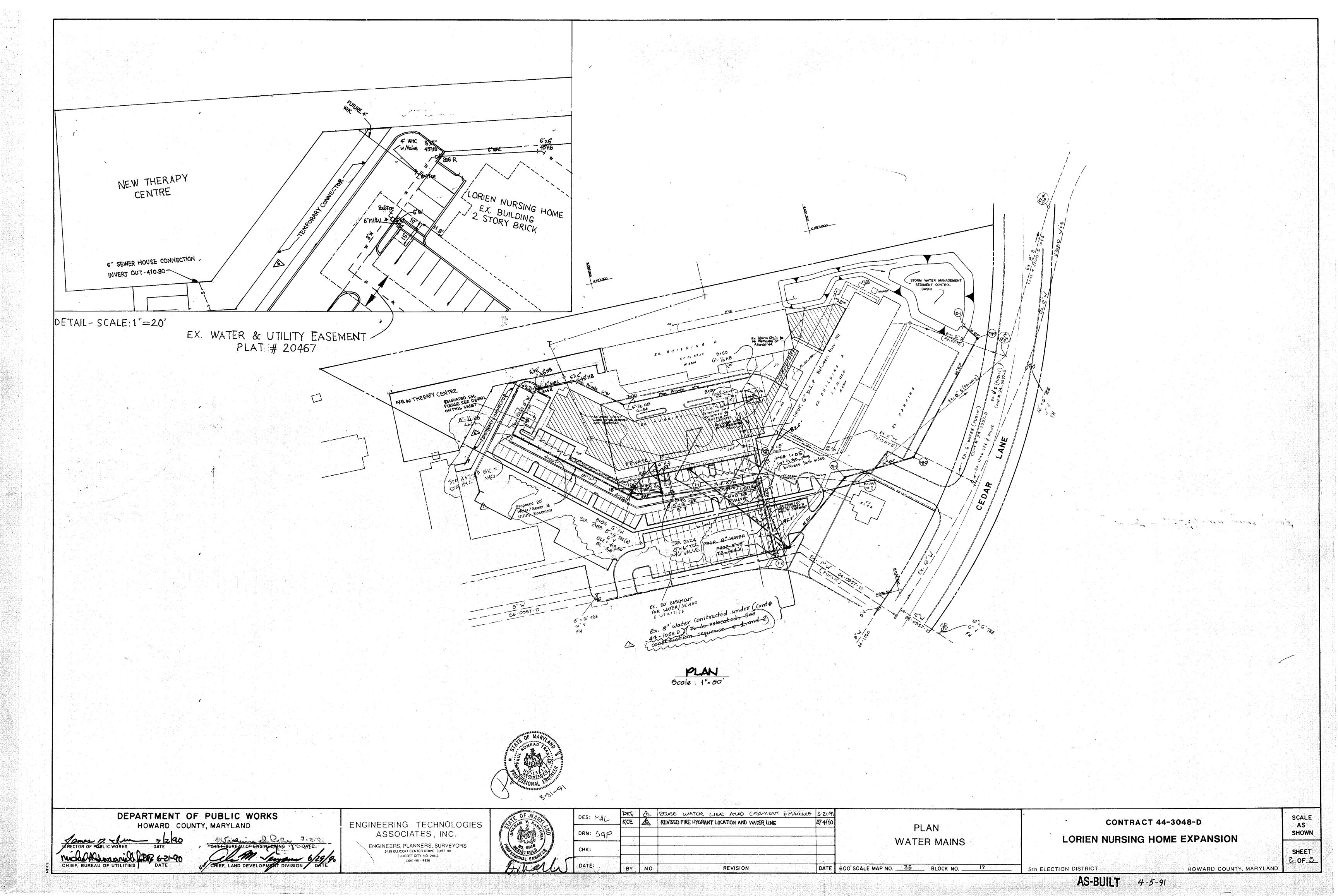
"MISS UTILITY" - 1-553-0100 CHESAPEAKE & POTOMAC (C&P) TELEPHONE CO. - 725-9976 AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 393-3553 COLONIAL PIPELINE COMPANY - 795-1390

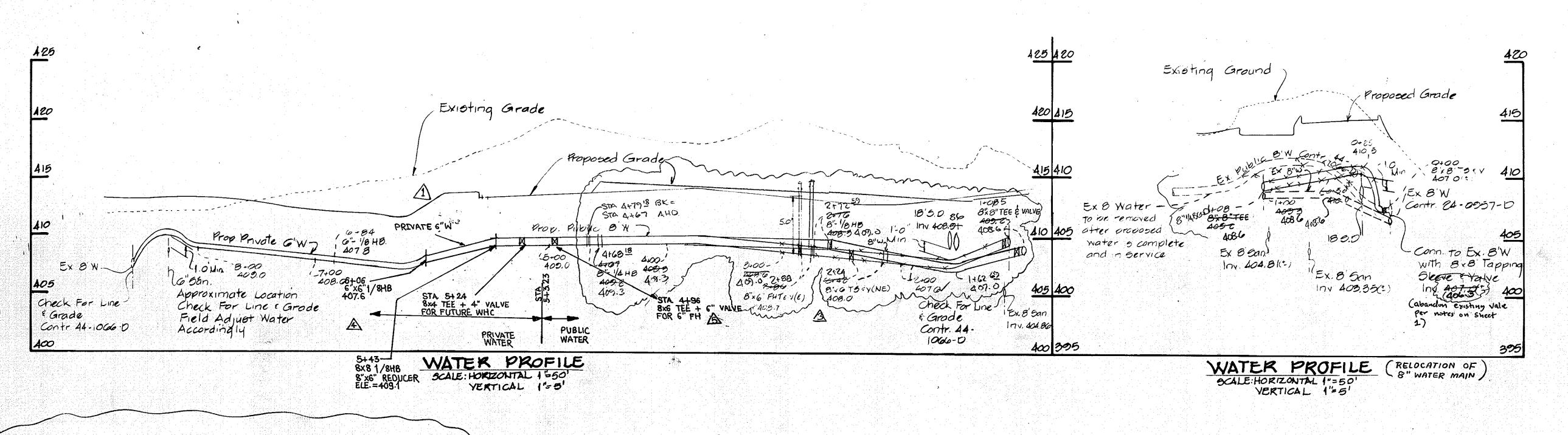
BUREAU OF UTILITIES HOWARD COUNTY - 992-2366 17. FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD

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

20. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.





WATER LINE INSTALLATION SEQUENCE (REVISED)

1) RELOCATE 108 L.F. OF 8"WATER MAIN CONSTRUCTED UNDER CONTRACT 44-1066-D. THIS WORK WOULD INCLUDE THE 8"×8" TAPPING SLEEVE AND VALVE AND ADDITIONAL BENDS AND FITTINGS REQUIRED TO RE-CONNECT THE EXISTING 8" PRIVATE WATER MAIN.

2) THE ABOVE WORK SHALL BE PERFORMED PRIOR TO THE START OF GRADING. THIS WORK IS CONSIDERED AS A RELOCATION OF CONTRACT 44-1066-D AND NOT REQUIRED FOR ANY FORMAL PLACED IN-SERVICE NOTIFICATION NOR REQUIRE ANY WEN RELEASES.

ABANDON THE OLD PUBLIC 8" WATER MAIN, CONTRACT 44-1066-D.

4) CONSTRUCT NEW 8" WATER MAIN AND G" WATER HOUSE CONNECTION

AND PLACE A NEW FIRE HYDRANT. THIS CONSTRUCTION SHOULD

BEGIN AFTER GRADING HAS BEEN COMPLETED AND WOULD

REQUIRE ALL NORMAL PROCEDURES FOR INSPECTION AND TESTING.

NEQUIRE ALL NORMAL PROCESSIVES FOR INSPECTION AND TESTING.

5) NO BUILDING CONSTRUCTION OVER THE EXISTING CONNECTION

WOULD BE ALLOWED UNTIL THE NEW WATER MAIN HAS BEEN

CONSTRUCTED AND PLACED IN-SERVICE AND RECONNECTED VIA

THE G" PRIVATE MAIN INTO THE EXISTING BUILDING B.

(&) DISCONNECT AND ABANDON EXISTILG 8" PRIVATE WATER MAIN FEED TO BUILDING B, STEP I ABOVE.

- (1) WATER LINE INSTALLATION SEQUENCE
- 1. Construct proposed 8" public water line and fire hydrants. Water line from station 0+00 through 1+08 to be constructed parallel to existing public water line and within existing 20' utility easement, as shown on plan and profile. (Relocation of Water Main between sta. 0+00 To sta. 1+08)

 2. After previously mentioned water line has been tested
- and approved by the County, install remaining 6" private water line, as shown on plan and profile.
- 3. After proposed water line is completely installed, connect proposed water line to existing water line and redirect flow of water through nearly constructed system.
- 4. Remove abandoned existing water line from proposed water line station 0+00 to proposed bend at station 8+39 Remove indicated abandoned fire hydrant and return to Bureau of Utilities.

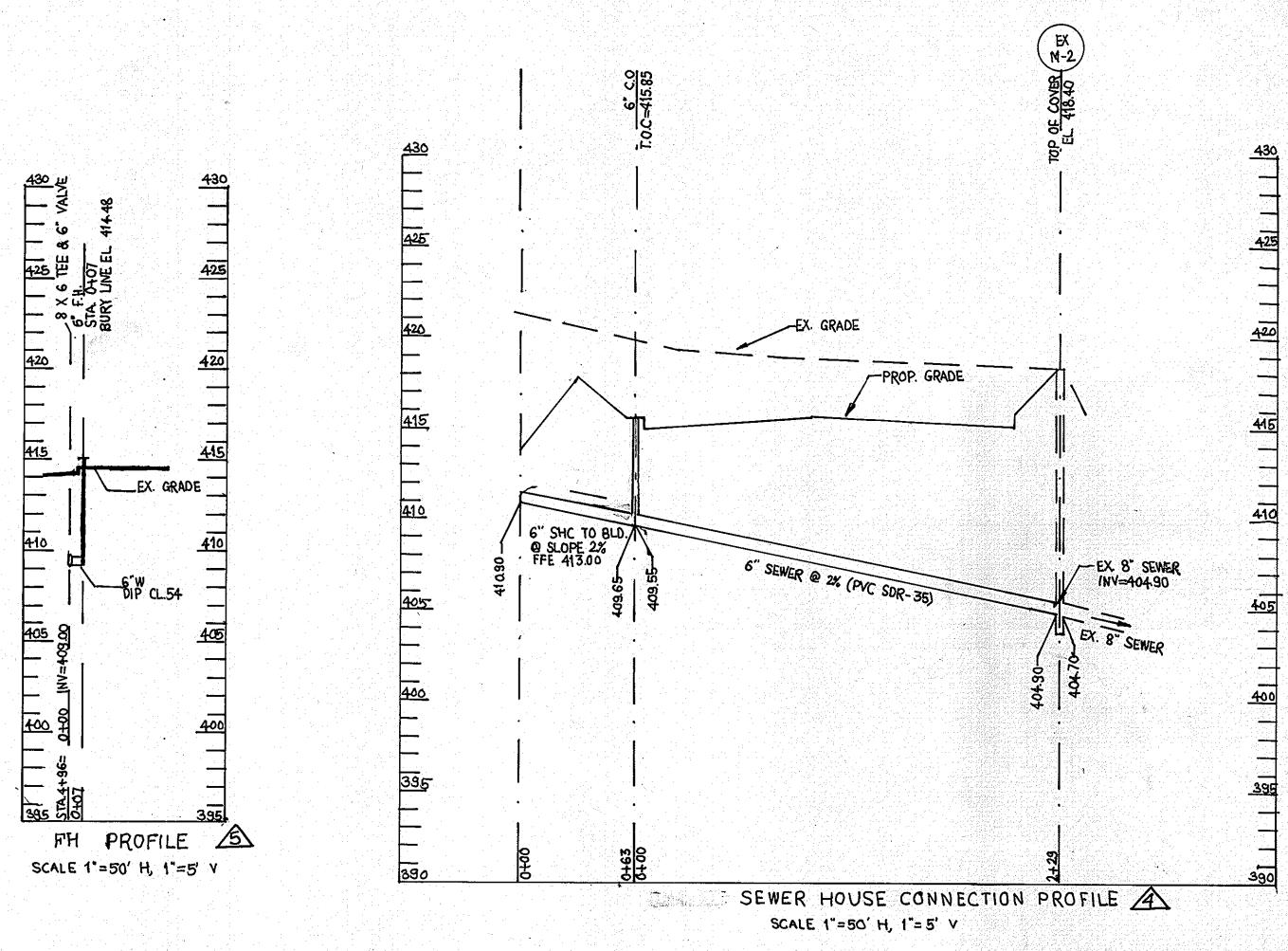
- (2) SEQUENCE OF CONSTRUCTION
- (1) TAP THE EXISTING WATER MAIN 4' AWAY FROM EXISTING TEE.
- (2) BUILT A PARALLEL LINE AND PROVIDE WATER TO BUILDING "B"
- (3). CUT THE EXISTING PIPE BEHIND THE EXISTING TEE.

 REMOVE A SECTION OF OLD PIPE AND PORE BUTTRESS

 BEHIND THE VALVE. ABANDON THE EXISTING WATER MAIN
- (4) REMOVE ROAD WAY BOX OF THE VALVE AND RETURN TO THE BUREAU OF UTILITIES.



NOTE: To Minimize disruption to patients, proposed public 8" water main from profile station 0+00 through 1+08 will be installed parallel to existing public 8" water and within existing 20' utility easement. The existing line will be removed or abandoned after water is redirected through proposed line.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF CUBLIC WORKS DATE

MICHAEL MANAGEMENT G-21-90

CHIEF BUREAU OF UTILITIES DATE

CHIEF, LAND DEVELOPMEN DIVISION DATE

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS

3458 ELLICOTT CENTER DRIVE SUITE 10:

ELLICOTT CITY MO. 21043

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	DES: LAL	KAP	1	Changed 8"x8" Tee To 8"x6" Tee of Sta. 5+69		
	DES: MAL	MCR	2	PROUSED WATER LIVE INSTALLATION SER.	11-29-90	
2	DRN: Pur	PK	13.	RUISED WATCH PROFILES & SECURICE	3-21-91	
	KITIC ,	KCE	<u> </u>		5/4/10	
	СНК:	KCE	4	Revised FH. Add SHC profile	7/16/09	
NA NAME		5-14-2473) Ar 95, 25,88				11
0010	DATE:	BY	NO.	REVISION	DATE	6

PROFILES WATER MAINS CONTRACT 44-3048-D
LORIEN NURSING HOME EXPANSION

SHOWN
SHEET
3 OF 3

HOWARD COUNTY, MARYLAND

SCALE

BY NO REVISION DATE 600 SCALE MAP NO 35 BLOCK NO 17 STA ELECTION DISTRICT