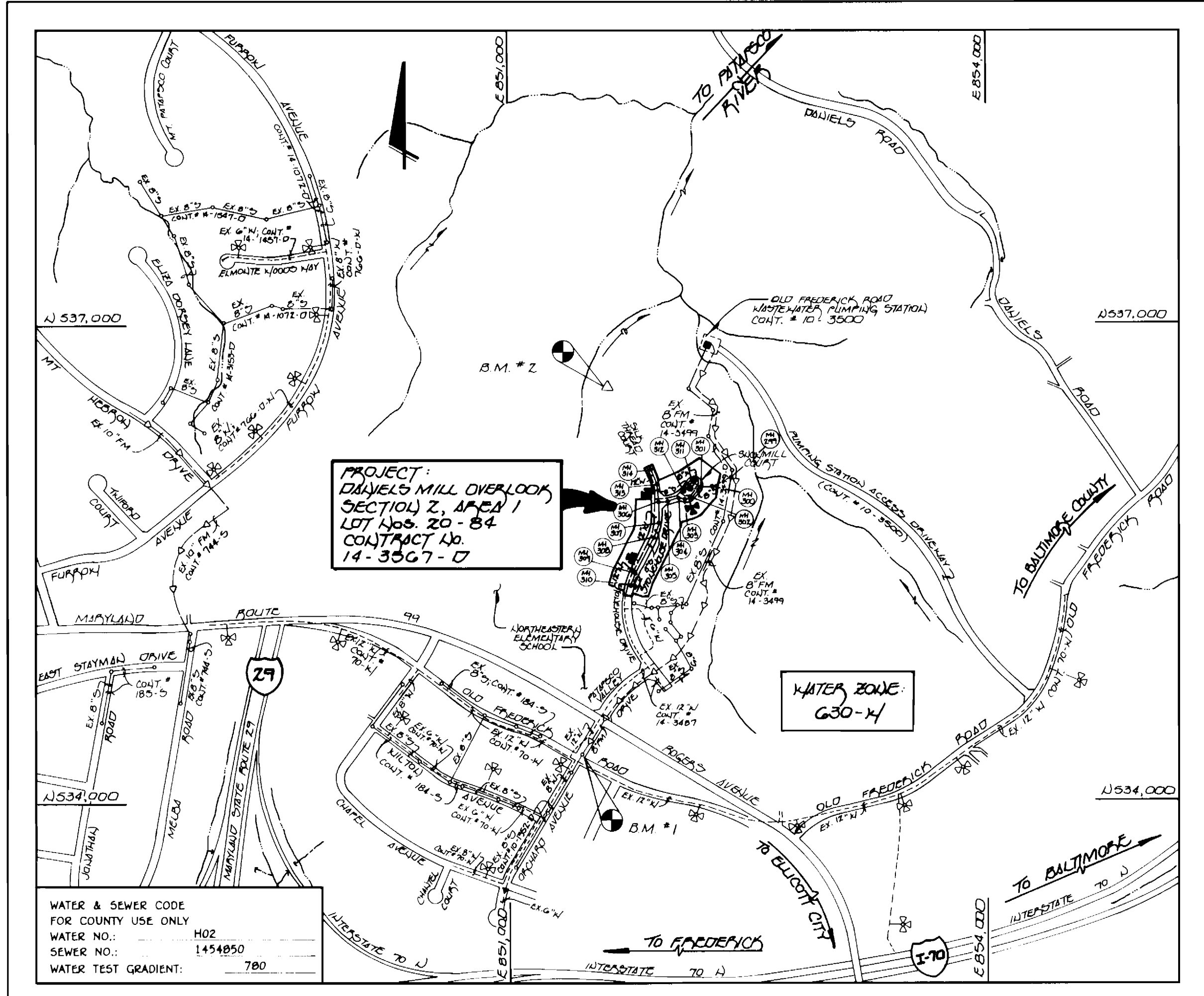


ITEM	ESTIMATED	AS-BUILT		SUPPLIER
		QUANTITIES	TYPE	
8" SCHEDULE 40	1,469 L.F.			
4" SCHEDULE 40	1,062 L.F.			
MANHOLE	16 EACH			
12" WATER	852 L.F.			
8" WATER	913 L.F.			
6" WATER	113 L.F.			
1 1/2" W.H.C.	6 L.F.			
1" W.H.C.	1,839 L.F.			
FIRE HYDRANTS	4 EACH			
12" x 8" TEE	1 EACH			
12" x 6" TEE	2 EACH			
12" VALVE	2 EACH			
12" 1/16 HO	1 EACH			
8" x 8" TEE	1 EACH			
8" x 6" TEE	3 EACH			
8" VALVE	1 EACH			
8" 1/8 HO	6 EACH			
8" 1/16 HO	1 EACH			
8" 1/32 HO	4 EACH			
12" PLUG & BUTTWELD	1 EACH			
6" VALVE	4 EACH			

NOTE: ALL TRAIL WATER HOUSE CONNECTIONS (W.H.C.) SHALL USE 1/2" - 1/4" COPPER PIPE FROM THE WATER MAIN TO THE 1" BRASS 1" - 1/4" COPPER TUBING FROM THE 1" BRASS TO THE BALL VALVE SERVICE BOX. ALL SINGLE WATER HOUSE CONNECTIONS SHALL BE 1" - 1/4" COPPER TUBING.



TYPE OF BUILDING:	RESIDENTIAL TOWNHOMES
NUMBER OF LOTS:	65 (61 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	61
NO. OF SEWER HOUSE CONNECTIONS:	61
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO W.W.T.P.; CITY OF BALTIMORE VIA THE OLD FREDERICK ROAD PUMPING STATION
NUMBER OF W.H.C.'S FOR FUTURE LOTS:	10
NUMBER OF S.H.C.'S FOR FUTURE LOTS:	0

VICINITY MAP

SCALE: 1"=600'

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 COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL \square 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- 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 G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G 5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). 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 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(b) OF THE HOWARD COUNTY CODE.

BENCHMARKS

BENCHMARK No. 1 ELEV. 401.10
 & EXISTING MANHOLE R/W No. 1 (CONTRACT NO. 1352-D)
 1) 534,313.051000 E 851,495.348000

BENCHMARK No. 2 ELEV. 407.75
 HDG. WITH STAKE MARKED "TRANSVERSE PT. No. 100"
 1) 536,742.360000 E 851,706.890000

CONTRACT No. 14-3567-D
DANIELS MILL OVERLOOK
 SECTION 2 , AREA 1
 LOT NOS. 20 - 84
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simms 2/5/97
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.
Michael J. Williams 2/5/97
 HOWARD SOIL CONSERVATION DISTRICT DATE

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 AS SHOWN ON THESE PLANS AND UNDER F-97-29.
Michael J. Williams 2/24/97
 SIGNATURE OF DEVELOPER DATE

CONTRACT NO. 14-3567-D
DANIELS MILL OVERLOOK
 SECTION 2 , AREA 1
 LOT NOS. 20-84
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Michael J. Williams</i> 2/13/97 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Michael J. Williams</i> 2/13/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	Fisher, Collins & Carter, Inc. #9757 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 481-2855 <i>Terrell A. Fisher</i> TERRELL A. FISHER	DES: M.J.M. DRWN: J.M.M. CHK: P.W.K. DATE: 9/13/96 BY: NO.	NOTE SEE SHEETS 3A, 3B, 3C, 3D, 3E & 3F FOR AS-BUILT PLAN 11/97 REVISE WATER & S.C. QUANTITIES 7/97 REVISION	TITLE SHEET	600' SCALE MAP NO. 17 BLOCK NO. 12	DANIELS MILL OVERLOOK SECTION 2 , AREA 1 LOT NOS. 20-84 CONTRACT NO. 14-3567-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
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FOR AS-BUILT PLANS SEE SHEETS 3A, 3B, 3C, 3D, 3E & 3F

NOTE: ALL TRUNK WATER MAIN CONNECTIONS (W/M'S) SHALL USE 18" DIAMETER COPPER PIPE FROM THE WATER MAIN TO THE "Y" BRANCH & 1" DIAMETER COPPER TUBING FROM THE "Y" BRANCH TO THE BALL VALVE/BRANCH BOX. ALL SINGLE WATER HOUSE CONNECTIONS SHALL USE 1" DIAMETER COPPER TUBING.

SHC WEST @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+20 ST	MH 300 TO MH 301	405.10
0+40 LT	53	405.20
	55	
	MH 301 TO MH 302	
0+16 LT	56	406.36
0+39 LT	57	407.13
0+60 LT	58	408.19
0+75 LT	59	408.60
@ MH 302 LT	60 (SHC @ MH)	409.00
	MH 302 TO MH 303	
0+19 LT	61	410.03
	MH 303 TO MH 304	
0+25 LT	62	412.85
@ MH 304 ST	43 (SHC @ MH)	414.14
	MH 304 TO MH 305	
0+17 LT	63	418.79
0+34 ST	42	418.19
0+42 ST	64	419.07
0+55 LT	41	418.41
0+62 LT	65	418.74
	MH 305 TO MH 306	
0+16 LT	66	418.45
	MH 306 TO MH 307	
0+10 ST	38	419.75
0+33 ST	37	420.72
0+50 ST	36	422.00
0+76 ST	35	422.92
1+20 ST	34	423.16
	MH 307 TO MH 308	
0+09 LT	67	425.50
0+36 LT	68	426.94
0+54 LT	69	428.41
0+80 LT	70	429.19
0+84 ST	33	429.55
@ MH 308 LT	71 (SHC @ MH)	430.06
	MH 308 TO MH 309	
0+32 LT	72	431.04
0+46 ST	32	431.75
0+49 LT	75	431.67
0+65 ST	31	432.30
0+90 ST	30	433.27
0+94 LT	74	433.21
1+00 ST	29	433.00
1+15 LT	75	433.90
1+31 ST	28	434.09
1+38 LT	76	434.75
1+54 ST	27	435.49
1+57 LT	77	435.44
1+82 LT	78	436.36
2+00 ST	26	437.16
2+04 LT	79	437.06
2+24 ST	25	438.54
2+45 LT	80	438.57
	MH 309 TO MH 310	
0+14 ST	24	439.24
0+32 ST	23	439.85
0+52 LT	31	440.23
0+58 ST	22	440.55
0+69 LT	82	440.74
0+74 ST	21	441.09
@ MH 310 LT	83	441.53
@ MH 310 ST	20	441.61
	MH 310 TO MH 311	
0+12 ST	31 & 32 (TRUNK SHC)	400.05
0+30 ST	30	406.34
@ MH 311 ST	48 & 49 (TRUNK SHC @ MH)	406.65
@ MH 311 ST	47 (SHC @ MH)	406.51
	MH 311 TO MH 312	
0+50 ST	45	408.81
@ MH 312 ST	44 (SHC @ MH)	411.09
	MH 312 TO MH 313	
0+22 LT	59	415.41
0+76 LT	FUTURE LOT 85	415.60
	MH 313 TO MH 314	
0+38 ST	FUTURE LOT 125	415.86
0+40 LT	FUTURE LOT 86	416.04
0+63 LT	FUTURE LOT 87	416.10
0+85 LT	FUTURE LOT 88	416.35
0+87 ST	FUTURE LOT 127	416.21
1+01 ST	FUTURE LOT 126	416.30
1+03 LT	FUTURE LOT 89	416.52

* INDICATED REVERSED STATION & ELEVATION

CONTRACT NO. 14-3567-0
DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20-84
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

MANHOLE TABULATION CHART

No.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
299				375.50
300				415.52
301	SNOWMILL COURT L.P. STA 2+01	13' ST	+ 3.40%	414.44
302	SNOWMILL COURT L.P. STA 2+24	4' ST	+ 4.00%	417.96
303	SNOWMILL COURT L.P. STA 2+24	7' ST	+ 4.00%	419.93
304	SNOWMILL COURT L.P. STA 4+00	9' ST	+ 4.00%	421.43
305	SNOWMILL COURT L.P. STA 0+70	7' ST	- 4.00%	423.89
306	STONEHOUSE DRIVE L.P. STA 39+45	0' ST	- 4.31%	427.08
307	STONEHOUSE DRIVE L.P. STA 38+45	9' ST	- 5.21%	433.03
308	STONEHOUSE DRIVE L.P. STA 37+50	6' ST	- 3.28%	437.58
309	STONEHOUSE DRIVE L.P. STA 35+00	5' ST	- 3.28%	445.81
310	STONEHOUSE DRIVE L.P. STA 34+120	5' ST	- 2.39%	448.21
311	SNOWMILL COURT L.P. STA 1+59	23' ST	- 4.00%	416.29
312	SNOWMILL COURT L.P. STA 0+60	16' ST	- 4.00%	420.04
313	SILK THREAD COURT L.P. STA 40+77	7' ST	- 1.37%	423.92
314	SILK THREAD COURT L.P. STA 41+97	7' ST	1.74%	424.23

* MANHOLES IN SNOWMILL COURT BEYOND THE BEGINNING OF THE LINEAR PROFILE ARE REFERENCED TO TOP OF THE MODIFIED CURB. ALL OTHER MANHOLES ARE REFERENCED TO CENTERLINE OF ROAD.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael J. ... 2/13/97
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 2/13/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION

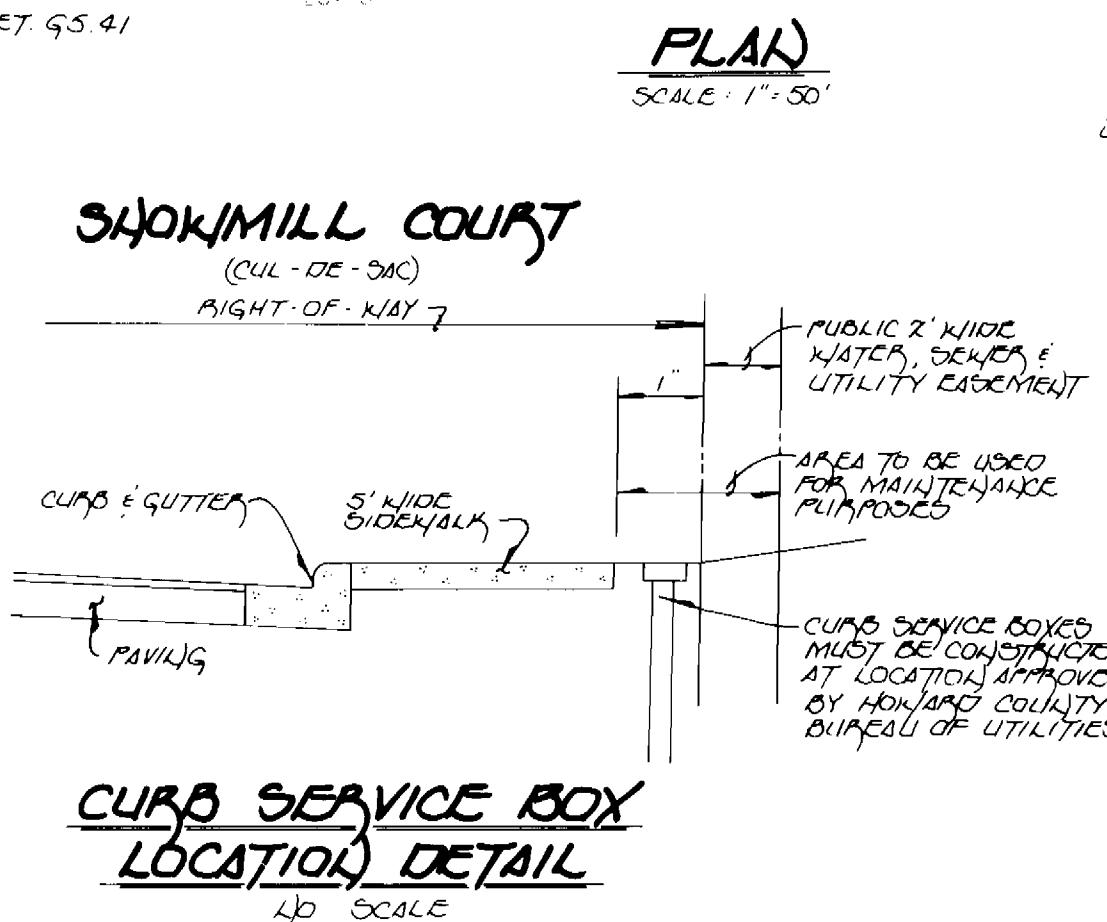
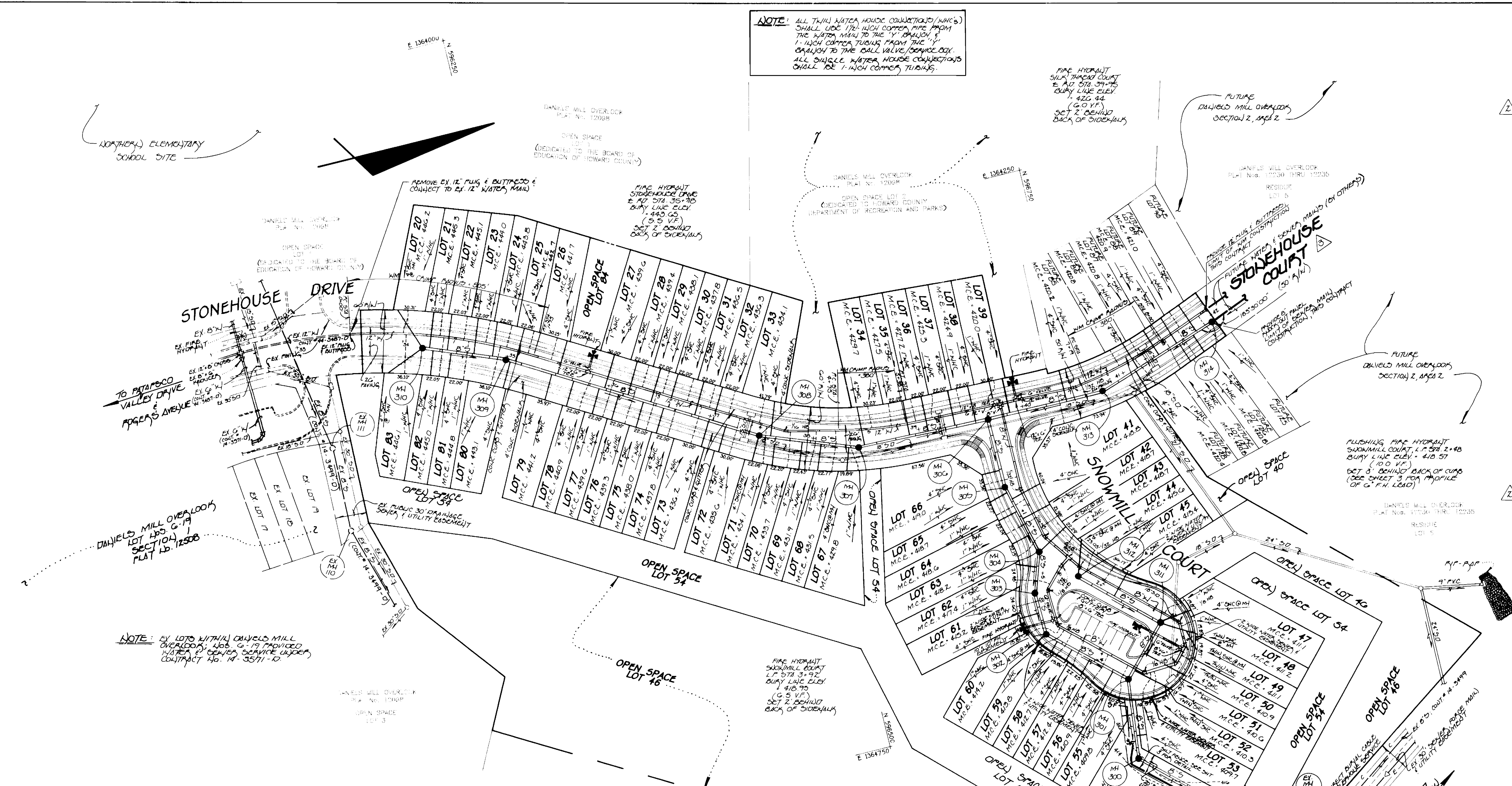
Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK
10272 Baltimore National Pike
Ellicott City, Maryland 21042
(410) 481-2855

TERRELL A. FISHER
REGISTERED PROFESSIONAL ENGINEER
STATE OF MARYLAND
No. 11111

DES: J.H.M.
DRAWN: J.H.M.
CHK: P.W.K.
DATE: 9/13/96
BY: NO.
REVISION
DATE

PLAN
WATER AND SEWER MAINS
600' SCALE MAP NO. 17 BLOCK NO. 12

SCALE AS SHOWN
SHEET 2 OF 3
FOR AS-BUILT RECORDS SEE SHEETS 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

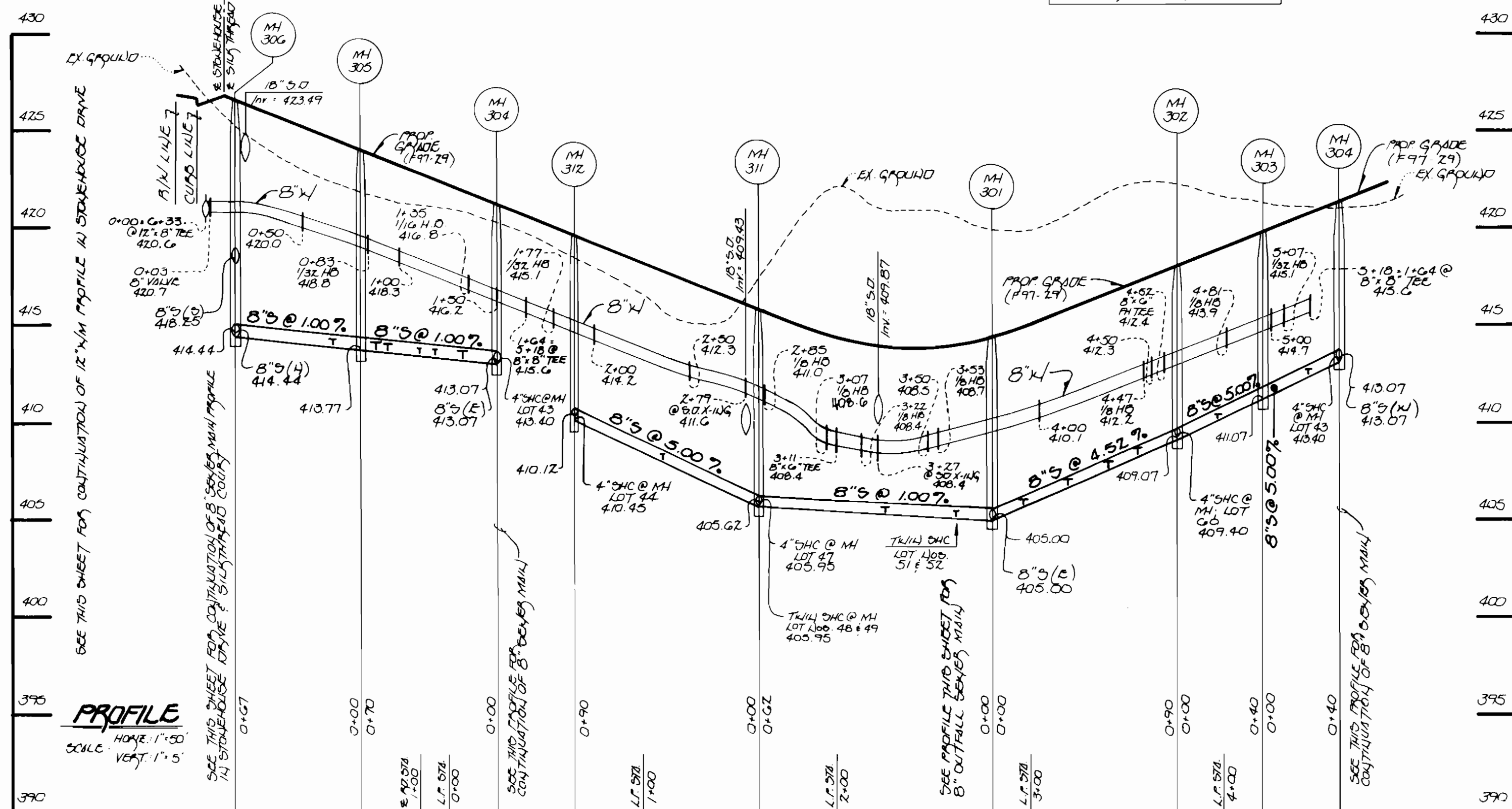


NOTE: CURB SERVICE BOXES MUST BE PROVIDED IN ADDITION TO THE CURB & SEDIMENT CONTROL MEASURES PROVIDED UNDER # 97-29

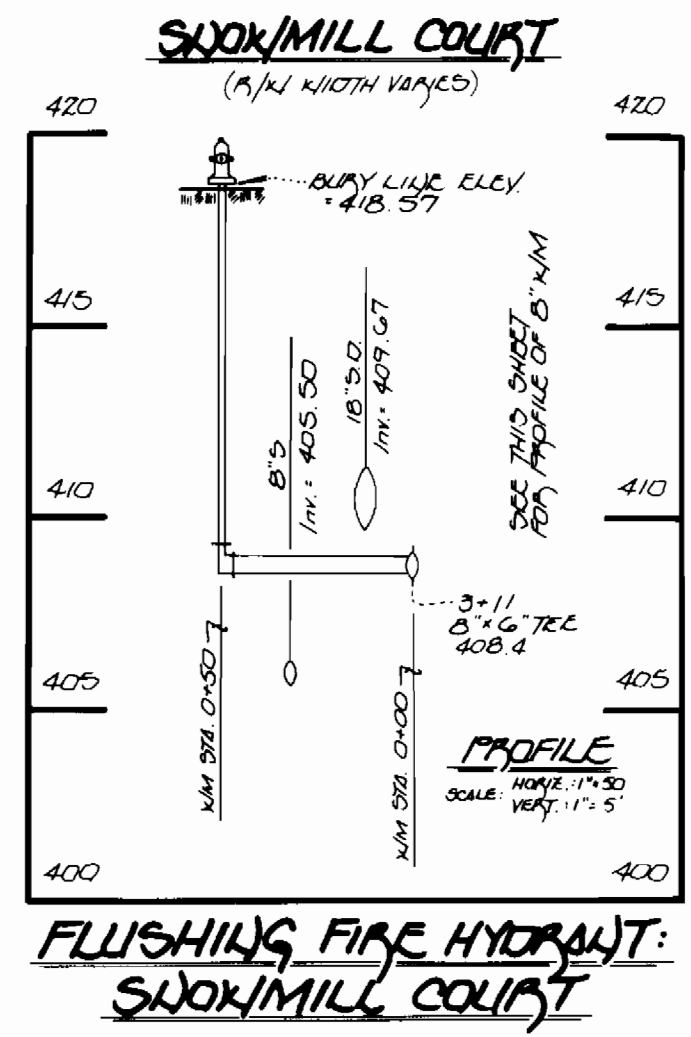
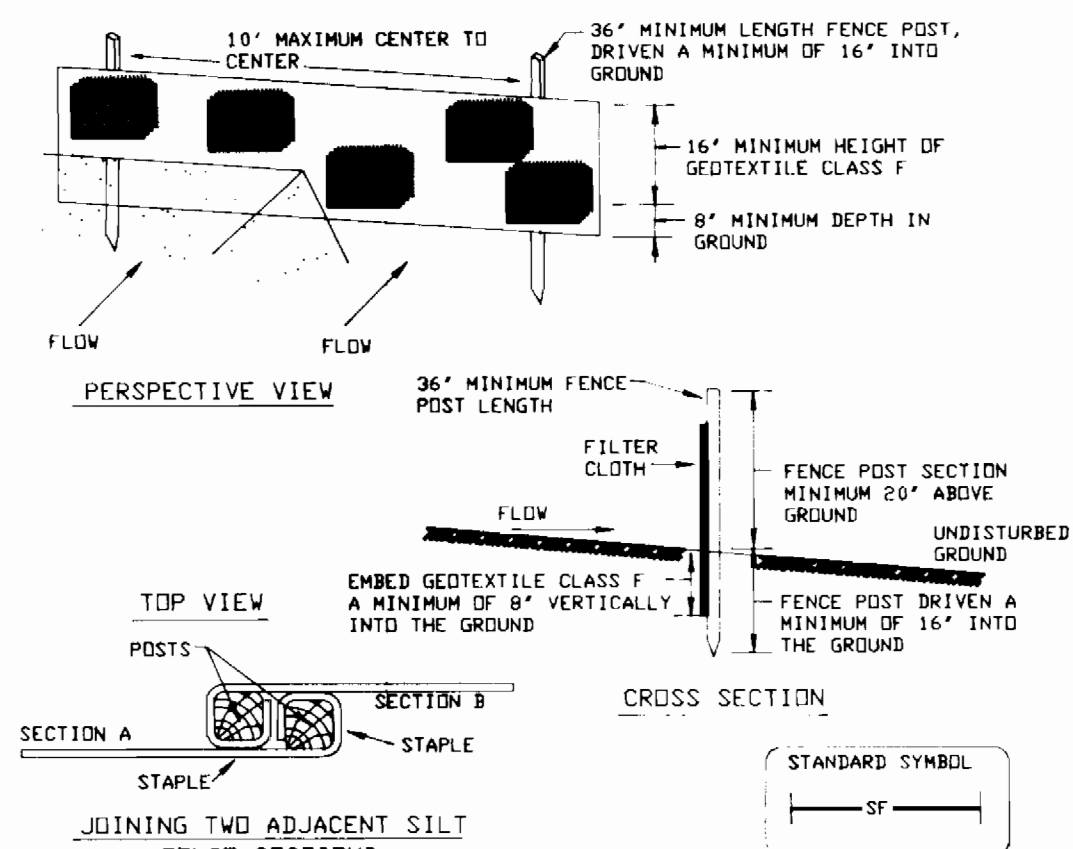
STONEHOUSE DRIVE
&
SILK THREAD COURT

SNOOKMILL COURT
(50' R/W)

SEE SHEET 2 FOR PLAN VIEW
OF WATER & SEWER MAINS



NOTE: ALL 1 1/4" WATER HOUSE CONNECTIONS (H/WCS) SHALL USE 1 1/2" WCH COPPER PIPE FROM THE WATER MAIN TO THE 1" BRANCH & 1" WCH COPPER TUBING FROM THE 1" BRANCH TO THE BALL VALVE SERVICE BOX. SINGLE WATER HOUSE CONNECTIONS SHALL BE 1" WCH COPPER TUBING.



- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

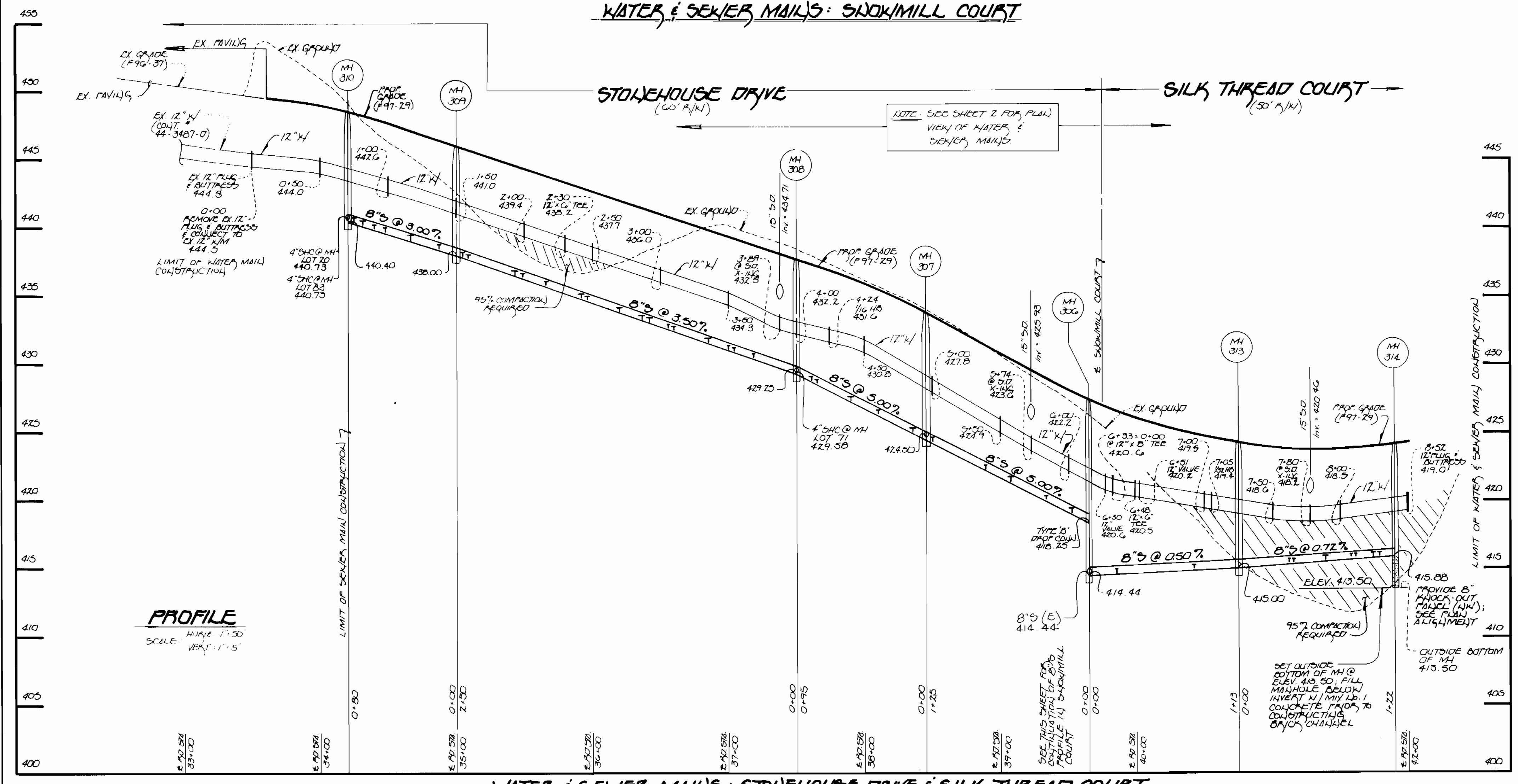
SILT FENCE
NOT TO SCALE

WATER & SEWER MAINS: SNOOKMILL COURT

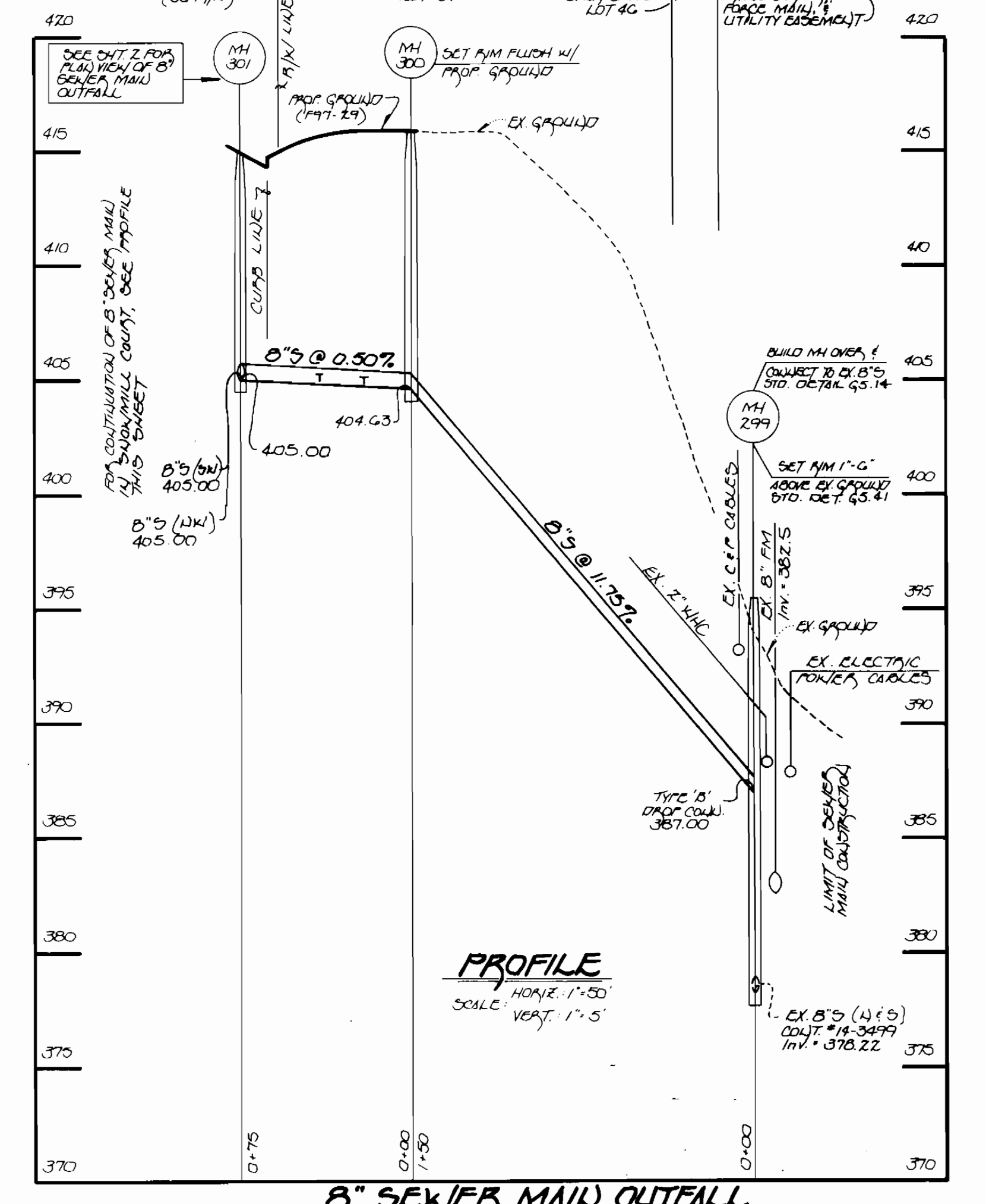
STONEHOUSE DRIVE
(50' R/W)

SILK THREAD COURT
(50' R/W)

NOTE: SEE SHEET 2 FOR PLAN
VIEW OF WATER &
SEWER MAINS



SNOOKMILL COURT
(50' R/W)



PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

8" SEWER MAIN OUTFALL

CONTRACT NO. 14-3567-D
DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20-84
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Richard A. [Signature] for RMB 2/7/97
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature] 2/7/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
#9757
CIVIL ENGINEERING CONSULTANTS &
LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK
10272 Baltimore National Pike
Elliott City, Maryland 21042
(410) 461-2866

TERRELL A. FISHER

DES: M.J.M.
DRWN: J.M.M.
CHK: P.W.K.
DATE: 9/13/92
K.O.L. 11/07
REVISE LOCATIONS OF CHWS
7/97

WATER AND SEWER MAIN
PROFILES
600' SCALE MAP NO. 17 BLOCK NO. 12

DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20-84
CONTRACT NO. 14-3567-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
3 OF 3

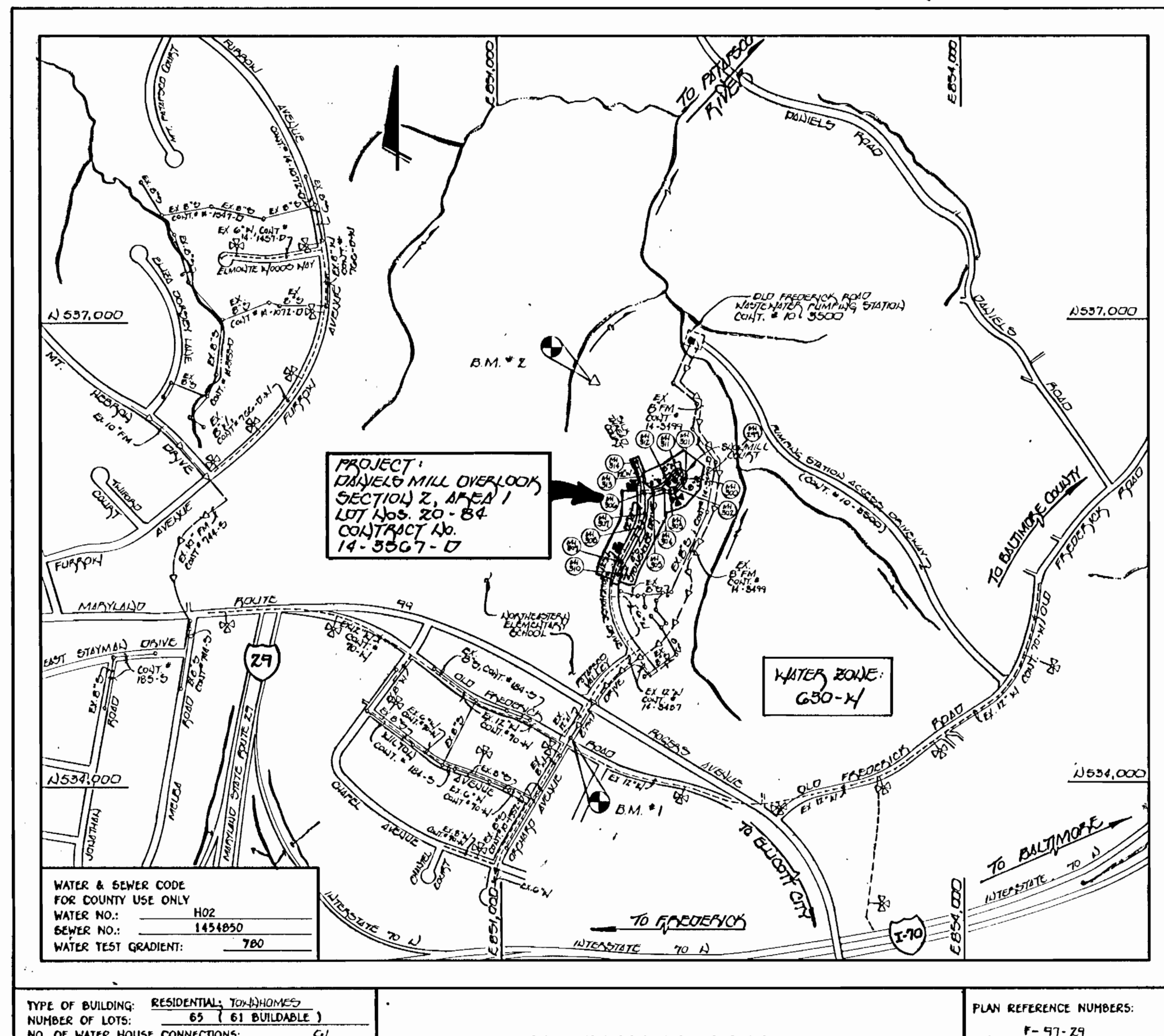
FOR ASBUILT PLANS
SEE SHEETS 3A, 3B, 3C,
3D & 3E, 3F

WATER

ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
6" SINKS	1,109 L.F.			
4" SINKS	1,062 L.F.			
MANHOLES	10 EACH			
12" WATER	692 L.F.	672.0 L.F.	D.I.P.	ATLANTIC STATES
6" WATER	518 L.F.	527.0 L.F.	"	"
6" WATER	115 L.F.	62.0 L.F.	"	"
1 1/2" NHC	6 L.F.	8.0 L.F.	K. COPPER	READING COPPER
1" NHC	1857 L.F.	1,868 L.F.	K. COPPER	"
FIRE HYDRANTS	4 EACH	3 EA.	"	"
12" x 6" TEE	1 EACH	2 EA.	M. J.	UNION FOUNDRY
12" x 6" TEE	2 EACH	2 EA.	"	"
12" VALVE	2 EACH	2 EA.	RES. WEDGE	MUELLER CO.
12" 1/4" HO	1 EACH	---	M. J.	UNION FOUNDRY
6" x 6" TEE	1 EACH	1 EA.	"	"
6" x 6" TEE	3 EACH	3 EA.	"	"
6" VALVE	1 EACH	1 EA.	RES. WEDGE	MUELLER CO.
6" 1/4" HO	6 EACH	6 EA.	M. J.	UNION FOUNDRY
6" 1/2" HO	1 EACH	1 EA.	"	"
6" 1/2" HO	4 EACH	2 EA.	"	"
12" PLUG & BUTTRESS	1 EACH	1 EA.	"	"
6" VALVE	4 EACH	3 EA.	RES. WEDGE	MUELLER CO.

NAME OF UTILITY CONTRACTOR: GAINES & CO. INC.
SURVEY & DRAFTING DIVISION AS-BUILT DATE: 11-14-97

NOTE: ALL TOWN WATER HOUSE CONNECTIONS (NHC'S) SHALL USE 1 1/2" INCH COPPER PIPE FROM THE WATER MAIN TO THE 1" BRANCH & 1" INCH COPPER TUBING FROM THE 1" BRANCH TO THE BALL VALVE / SERVICE BOX. ALL DWELLING WATER HOUSE CONNECTIONS SHALL BE 1" INCH COPPER TUBING.



TYPE OF BUILDING:	RESIDENTIAL TOWNHOMES
NUMBER OF LOTS:	65 (61 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	61
NO. OF SEWER HOUSE CONNECTIONS:	61
DRAINAGE AREA:	PATAPOCO
TREATMENT PLANT:	PATAPOCO W.W.T.P., CITY OF BALTIMORE VIA THE OLD FREDERICK ROAD PUMPING STATION
NUMBER OF WHC'S FOR FUTURE LOTS:	10
NUMBER OF SHC'S FOR FUTURE LOTS:	0

VICINITY MAP

SCALE: 1"=600'

PLAN REFERENCE NUMBERS: P-97-29

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 COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST FITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL B AT THE LOCATION OF THE TEST FIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST FIT OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - 795-1590
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.2.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.M.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G.5.1.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 8-1/2" 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W.1.1 AND W.2.1). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 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.
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BENCHMARKS

- BENCHMARK No. 1 ELEV. 401.10
EXISTING MANHOLE RIM No. 1 (CONT'D TO 3567-D)
1 334, 318, 051000 E 851, 495, 348000
- BENCHMARK No. 2 ELEV. 407.75
HUB WITH STAKE MARKED "TRAVELER PI. No. 126"
1 034, 742, 360000 E 051, 766, 890000

CONTRACT No. 14-3567-D
DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20 - 84
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Sivan 2/5/97
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.
Michael J. Williams 2/5/97
 HOWARD SOIL CONSERVATION DISTRICT DATE

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 AS SHOWN ON THESE PLANS AND UNDER P-97-29.

Michael J. Williams FOR PERMITS 1-24-97
 SIGNATURE OF DEVELOPER DATE

CONTRACT NO. 14-3567-D
 DANIELS MILL OVERLOOK
 SECTION 2, AREA 1
 LOT NOS. 20-84
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Michael J. Williams</i> 2/13/97 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Michael J. Williams</i> 2/7/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 461-8855 TERRELLA A. FISHER	DES: H.S.H. DRWN: J.M.H. CHK: P.W.K. DATE: 9/13/94	RWLW 2 FCC Δ BY NO.	REVISIONS: 1/14/97 AS-BUILT CONDITIONS ADDED TO PLAN 7/97 REMOVE WATER & SHC QUANTITIES	DATE: 9/13/94	"WATER" AS-BUILT ONLY TITLE SHEET	600' SCALE MAP NO. 17 BLOCK NO. 12	DANIELS MILL OVERLOOK SECTION 2, AREA 1 LOT NOS. 20-84 CONTRACT NO. 14-3567-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 3A OF 3
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NOTE: ALL TRUNK WATER HOUSE CONNECTIONS (WHC'S) SHALL USE 1/2" I.D. COPPER PIPE FROM THE WATER MAIN TO THE "Y" BRANCH, & 1" I.D. COPPER TUBING FROM THE "Y" BRANCH TO THE CALL VALVE/OPEN BOX. ALL SINGLE WATER HOUSE CONNECTIONS SHALL BE 1" I.D. COPPER TUBING.

FIRE HYDRANT
SNOWMILL COURT
E AD 578 34-75
BURY LINE ELEV. 426.44
(100 V.P.)
SET 2' BEHIND
BACK OF SIDEWALK

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

DANIELS MILL OVERLOOK
PLAT No. 12230 THRU 12235
RESIDUE LOT 5

FUTURE
STONEHOUSE COURT
(50' WIDE)

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

DANIELS MILL OVERLOOK
PLAT No. 12230 THRU 12235
RESIDUE LOT 5

DANIELS MILL OVERLOOK
PLAT No. 12230 THRU 12235
RESIDUE LOT 5

SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+20 RT	MH 300 TO MH 301	405.10
0+40 LT	53	405.20
0+16 LT	56	406.36
0+39 LT	57	407.13
0+60 LT	58	408.19
0+75 LT	59	408.66
@ MH 302 LT	60 (SHC @ MH)	409.60
	MH 302 TO MH 303	
0+19 LT	61	410.63
	MH 303 TO MH 304	
0+23 LT	62	412.88
@ MH 304 RT	43 (SHC @ MH)	414.14
	MH 304 TO MH 305	
0+17 LT	63	418.79
0+34 RT	42	419.19
0+42 RT	64	419.07
0+55 LT	41	419.41
0+62 LT	65	419.24
	MH 305 TO MH 306	
0+16 LT	66	419.45
	MH 306 TO MH 307	
0+15 RT	36	419.75
0+33 RT	37	420.72
0+50 RT	38	422.00
0+76 RT	35	422.92
1+20 RT	34	425.16
	MH 307 TO MH 308	
0+09 LT	67	425.58
0+30 LT	68	426.94
0+54 LT	69	428.41
0+80 LT	70	429.19
0+04 RT	33	429.55
@ MH 308 LT	71 (SHC @ MH)	430.00
	MH 308 TO MH 309	
0+32 LT	72	431.04
0+42 RT	32	431.75
0+49 LT	73	431.67
0+65 RT	31	432.38
0+90 RT	30	433.27
0+94 LT	74	433.21
1+00 RT	29	433.88
1+13 LT	75	435.90
1+31 RT	28	436.69
1+35 LT	76	436.75
1+54 RT	27	435.49
1+57 LT	77	435.44
1+82 LT	78	436.36
2+00 RT	26	437.16
2+04 LT	79	437.88
2+41 RT	25	438.54
2+45 LT	80	438.57
	MH 309 TO MH 310	
0+14 RT	24	439.26
0+32 RT	23	439.85
0+52 LT	81	440.25
0+80 RT	22	440.55
0+99 LT	82	440.74
0+74 RT	21	441.09
@ MH 310 LT	83	441.55
@ MH 310 RT	20	441.61
	MH 310 TO MH 311	
0+12 RT	51 & 52 (TRUNK SHC)	406.05
0+30 RT	50	406.34
@ MH 311 RT	48 & 49 (SHC @ MH)	406.65
@ MH 311 RT	47 (SHC @ MH)	406.51
0+30 RT	45	408.81
@ MH 312 RT	44 (SHC @ MH)	411.09
	MH 309 TO MH 313	
0+22 LT	59	415.41
0+76 LT	FUTURE LOT 85	415.60
	MH 313 TO MH 314	
0+38 RT	FUTURE LOT 125	415.86
0+40 LT	FUTURE LOT 86	416.04
0+63 LT	FUTURE LOT 87	416.18
0+85 LT	FUTURE LOT 88	416.35
0+07 RT	FUTURE LOT 127	416.21
1+01 RT	FUTURE LOT 126	416.30
1+03 LT	FUTURE LOT 89	416.52

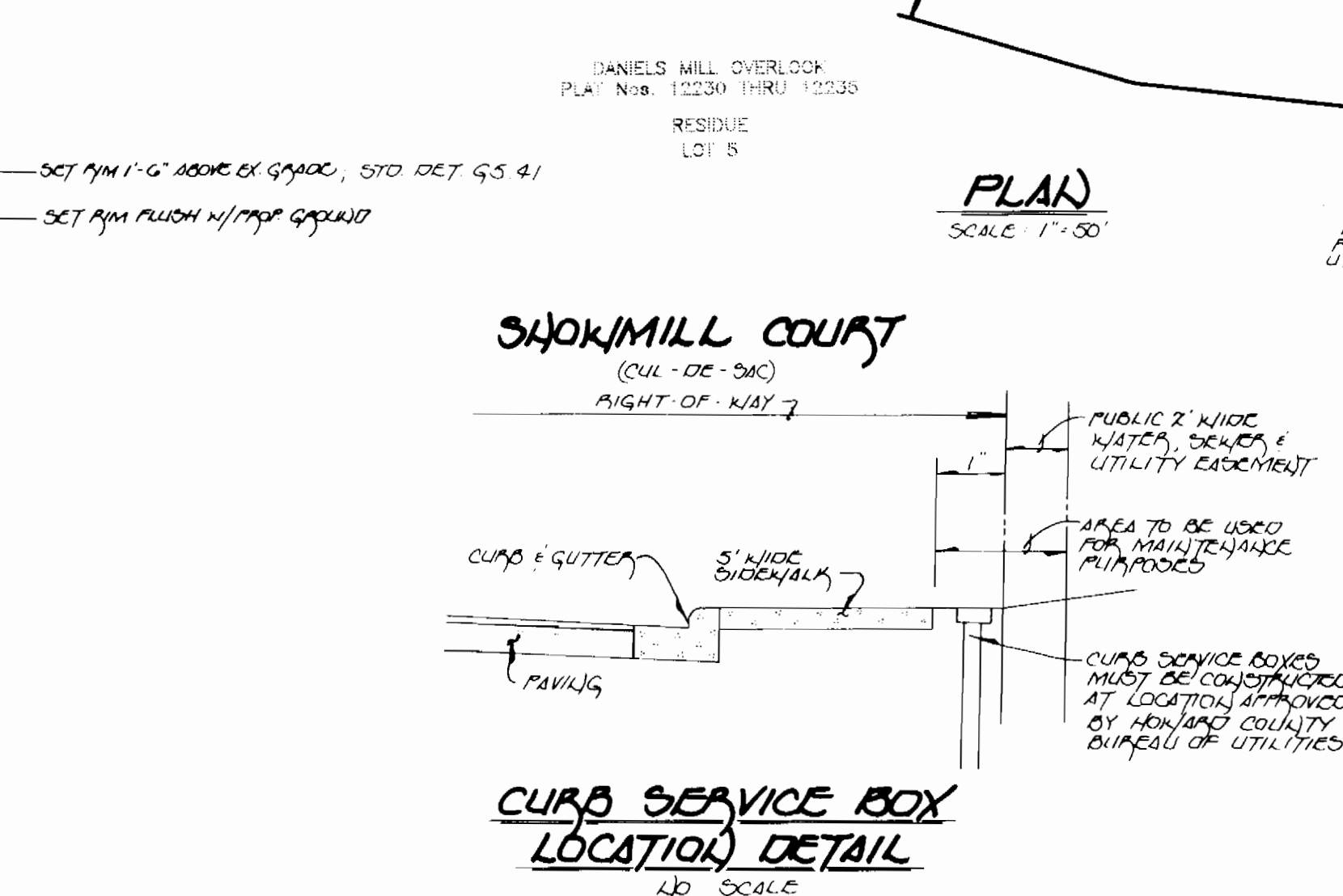
* INDICATED REVISION STATION & ELEVATION



MANHOLE TABULATION CHART

No.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
299				379.50
300				415.52
301	SNOWMILL COURT L.F. 578 2+50	13 RT	+ 3.40%	414.44
302	SNOWMILL COURT L.F. 578 3+77	4 RT	+ 4.00%	417.96
303	SNOWMILL COURT L.F. 578 4+22	7 RT	+ 4.00%	419.93
304	SNOWMILL COURT L.F. 578 4+60	9 RT	+ 4.00%	421.43
305	SNOWMILL COURT E AD 578 5+75	7 RT	- 4.00%	423.89
306	STONEHOUSE DRIVE E AD 578 39+08	6 RT	- 4.31%	427.08
307	STONEHOUSE DRIVE E AD 578 38+43	9 RT	- 5.21%	433.63
308	STONEHOUSE DRIVE E AD 578 37+30	6 RT	- 3.28%	437.58
309	STONEHOUSE DRIVE E AD 578 35+00	5 RT	- 3.25%	445.81
310	STONEHOUSE DRIVE E AD 578 34+20	5 RT	- 2.39%	448.21
311	SNOWMILL COURT L.F. 578 1+59	23 RT	- 4.00%	416.29
312	SNOWMILL COURT L.F. 578 0+60	16 RT	- 4.00%	420.04
313	SNOWMILL COURT E AD 578 40+75	7 RT	- 1.37%	423.92
314	SNOWMILL COURT E AD 578 41+97	7 RT	1.74%	424.23

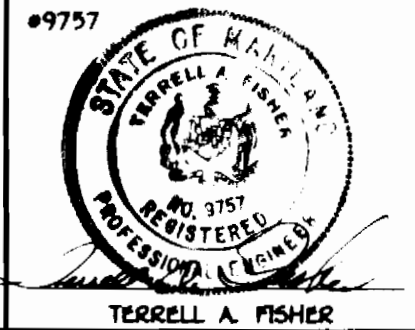
* MANHOLES IN SNOWMILL COURT BEYOND THE BEGINNING OF THE LINEAR PROFILE ARE REFERENCED TO TOP OF THE MODIFIED CURB. ALL OTHER MANHOLES ARE REFERENCED TO CENTERLINE OF ROAD.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael J. [Signature] RFB 2/13/97
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature] 2/13/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK
18272 Baltimore National Pike
Ellicott City, Maryland 21042
(410) 481-2855
TERRELL A. FISHER



DES.	M.J.M.	DATE
DRWN.	J.M.H.	11/14/91
CHK.	P.W.K.	7/17
DATE:	9/13/92	7/97

"WATER" AS BUILT ONLY
PLAN
WATER AND SEWER MAINS
600' SCALE MAP NO. 17 BLOCK NO. 12

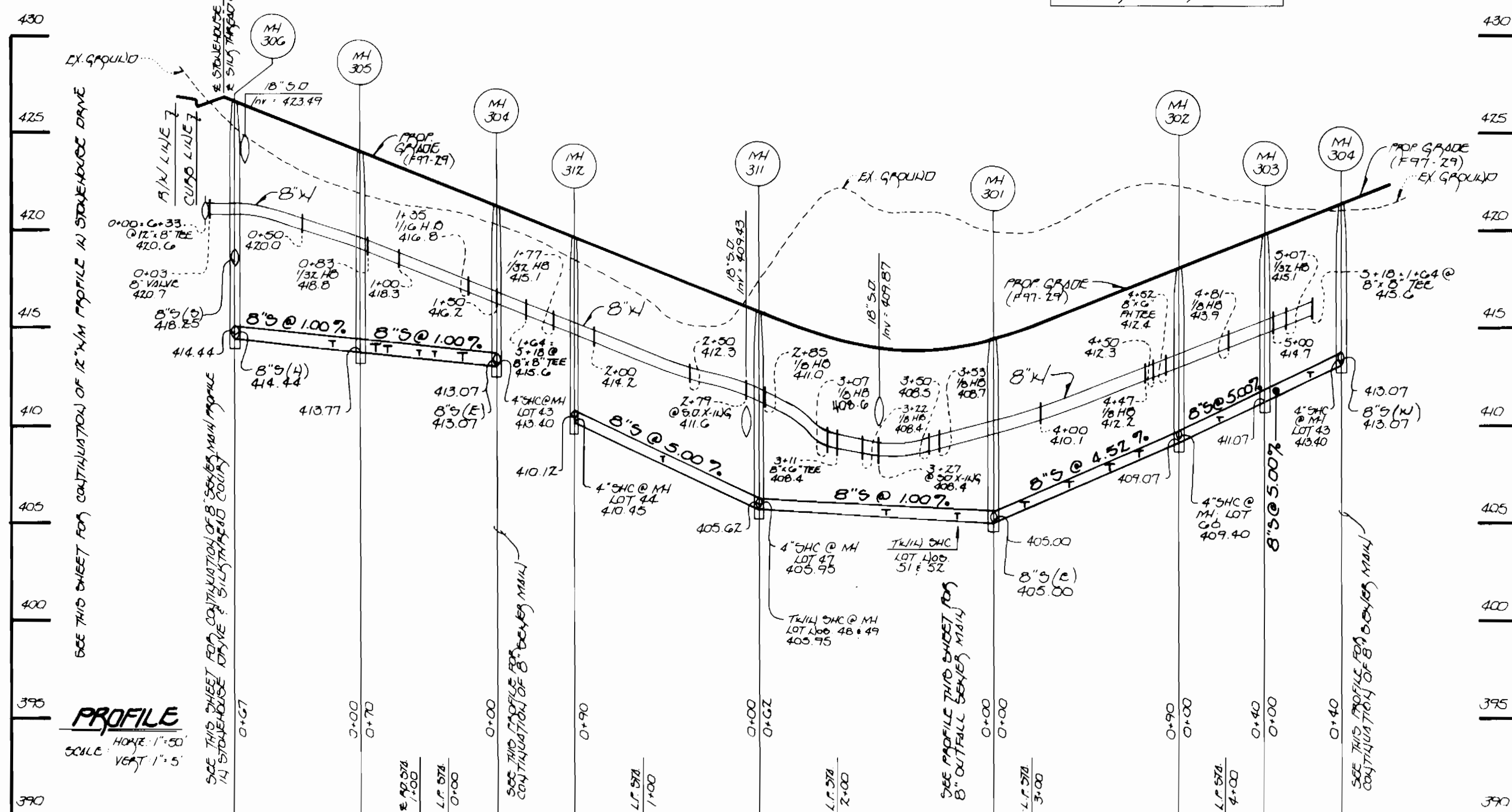
DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20-84
CONTRACT NO. 14-35G7-0
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS SHOWN
SHEET
38 OF 38

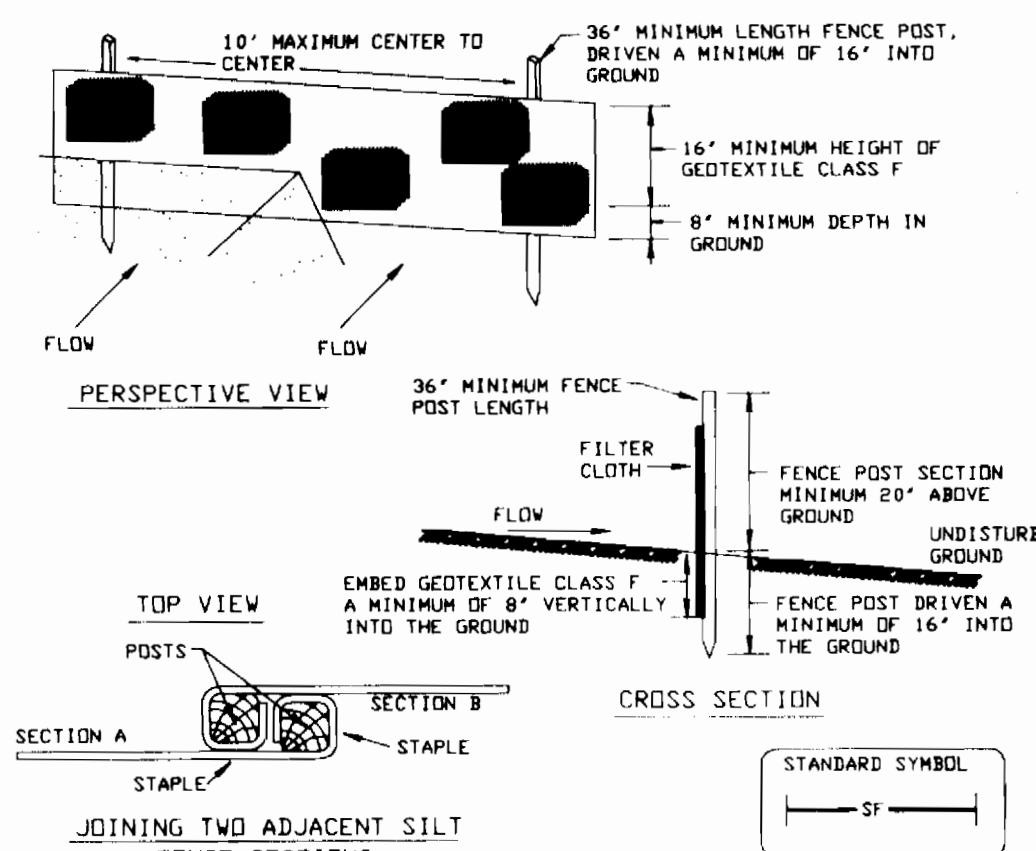
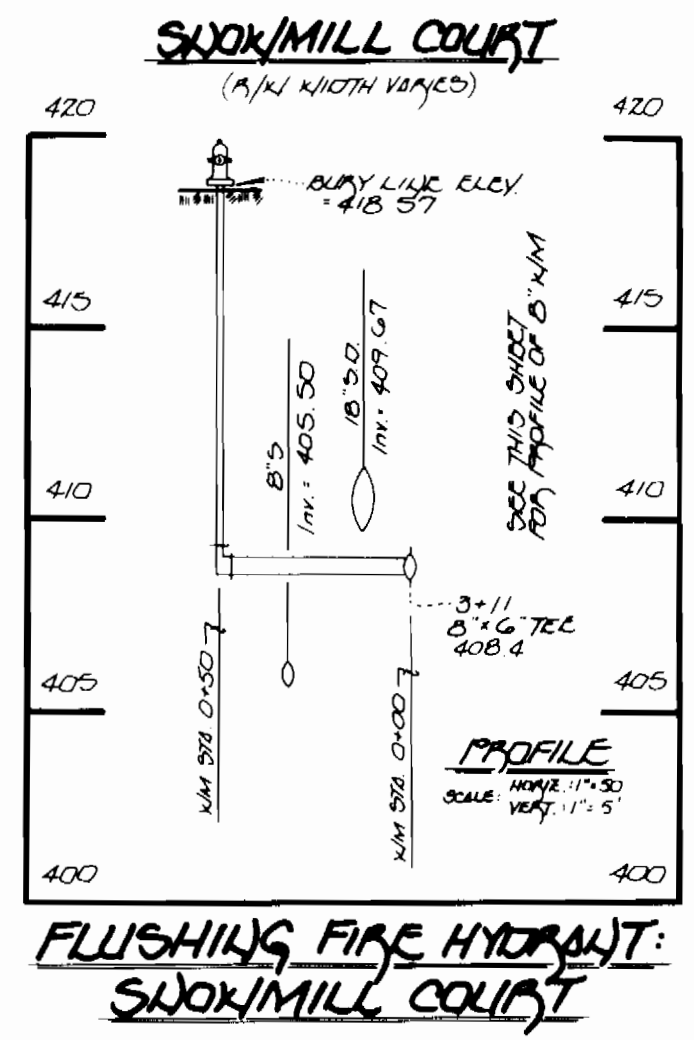
STONEHOUSE DRIVE
SILK THREAD COURT

SNOWMILL COURT
(50' A/W)

SEE SHEET 2 FOR PLAN VIEW
OF WATER & SEWER MAINS



NOTE: ALL TWIN WATER HOUSE CONNECTIONS (WHCO) SHALL USE 1/2" 1-1/4" CORNER PIECE FROM THE WATER MAIN TO THE "Y" BRANCH & 1-1/4" CORNER TUBING FROM THE "Y" BRANCH TO THE BALL VALVE. OTHERWISE COX SINGLE WATER HOUSE CONNECTIONS SHALL BE 1-1/4" CORNER TUBING.

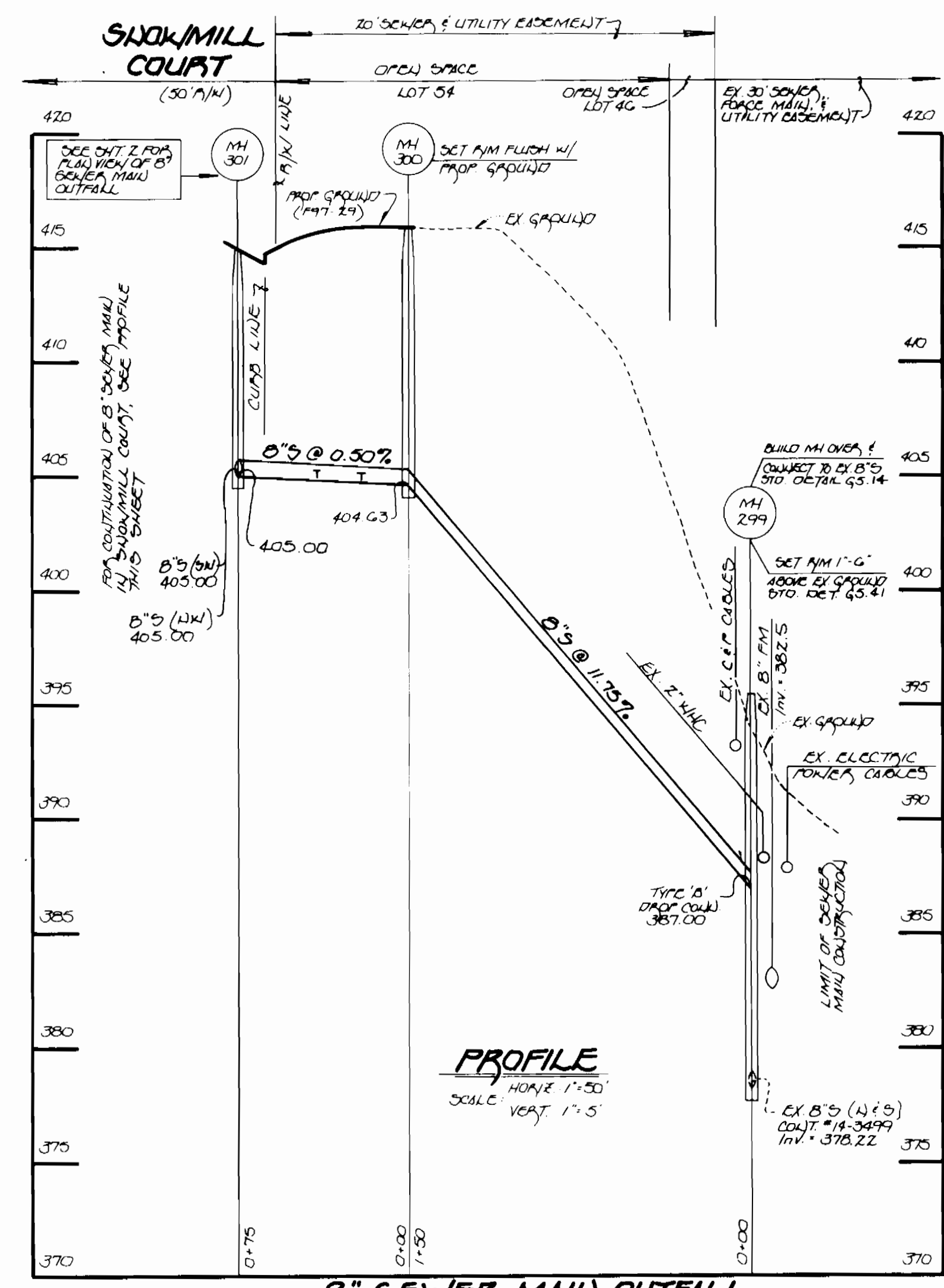
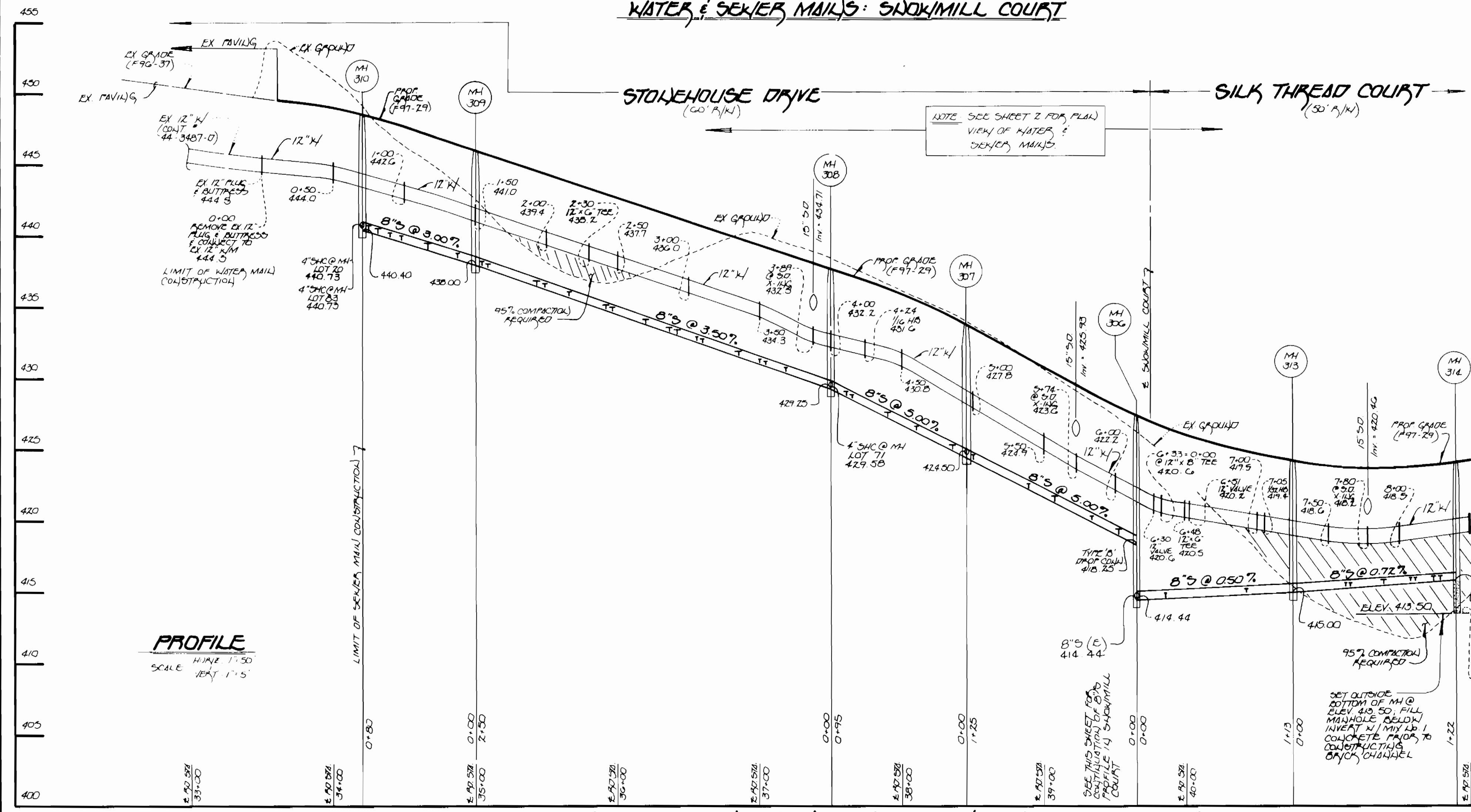


- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE
NOT TO SCALE

WATER & SEWER MAINS: SNOWMILL COURT



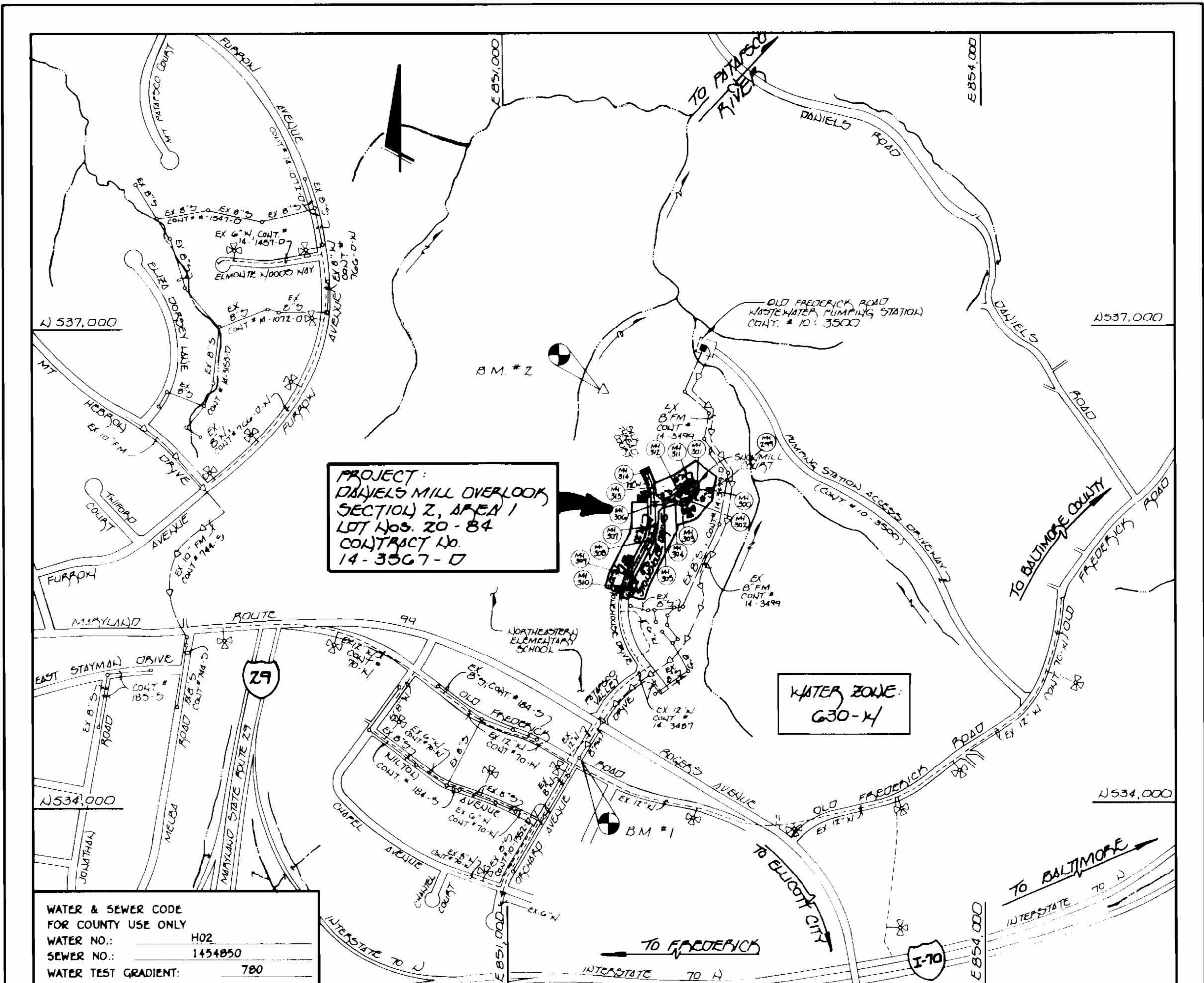
WATER & SEWER MAINS: STONEHOUSE DRIVE & SILK THREAD COURT

6" SEWER MAIN OUTFALL

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>Richard A. [Signature] RMB 2/17/99 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p>[Signature] 2/17/99 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 19272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 461-2855</p>	<p>DES: M.J.M. DRWN: J.M.H. CHK: P.W.E. DATE: 9/13/94</p>	<p>PROJECT: WATER ASBUILT CONDITIONS ADDED TO PLAN REV: ADVISE LOCATIONS OF CHANGES DATE: 7/97</p>	<p>WATER ASBUILT ONLY WATER AND SEWER MAIN PROFILES 600' SCALE MAP NO. 17 BLOCK NO. 12</p>	<p>DANIELS MILL OVERLOOK SECTION 2, AREA 1 LOT NOS. 20-84 CONTRACT NO. 14-3567-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN SHEET 30 OF 39</p>
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QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	1,409 LF			
4" SEWER	1,062 LF			
MANHOLE	16 EACH			
12" WATER	892 LF			
8" WATER	913 LF			
6" WATER	113 LF			
1 1/2" WVC	6 LF			
1" WVC	1059 LF			
FIRE HYDRANT	4 EACH			
12" x 8" TEE	1 EACH			
12" x 6" TEE	2 EACH			
12" VALVE	2 EACH			
12" 1/2" HD	1 EACH			
8" x 6" TEE	1 EACH			
8" x 6" TEE	3 EACH			
6" VALVE	1 EACH			
8" 1/2" HD	6 EACH			
6" 1/2" HD	1 EACH			
6" 1/2" HD	4 EACH			
12" FLG. & BUTTWOSS	1 EACH			
6" VALVE	4 EACH			

NOTE: ALL TRUNK WATER HOUSE CONNECTIONS (WVC'S) SHALL USE 1 1/2" INCH COPPER PIPE FROM THE WATER MAIN TO THE Y-BRANCH & 1" INCH COPPER TUBING FROM THE Y-BRANCH TO THE GALL VALVE SERVICE BOX. ALL DWELLING WATER HOUSE CONNECTIONS SHALL BE 1" INCH COPPER TUBING.



TYPE OF BUILDING:	RESIDENTIAL (TOWNHOMES)
NUMBER OF LOTS:	65 (61 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	61
NO. OF SEWER HOUSE CONNECTIONS:	61
DRAINAGE AREA:	PATAFSCO
TREATMENT PLANT:	PATAFSCO W.W.T.P. : CITY OF BALTIMORE VIA THE OLD FREDERICK ROAD PUMPING STATION
NUMBER OF WVC'S FOR FUTURE LOTS:	10
NUMBER OF SHC'S FOR FUTURE LOTS:	6

VICINITY MAP

SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
F-47-29

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 COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
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 - MISS UTILITY - 1-800-257-7777
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- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
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- TOPS OF ALL WATER MAINS SHALL 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.
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- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2490 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW SPECIFICATIONS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

BENCHMARKS

- BENCHMARK No. 1 ELEV: 401.10
- EXISTING MANHOLE RIM No. 1 (COUNT NO. 032-D) ELEV: 495.348000
- BENCHMARK No. 2 ELEV: 407.75
- 4" HD WITH SPARK MARKED "TRAVERSE PT. NO. 126" ELEV: 742.360000
- ELEV: 766.870000

CONTRACT No. 14-3567-D
DANIELS MILL OVERLOOK
 SECTION 2 , AREA 1
 LOT NOS. 20 - 84
WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Cheryl S. [Signature] 2/5/97
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/5/97
 HOWARD SOIL CONSERVATION DISTRICT DATE

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 AS SHOWN ON THESE PLANS AND UNDER F-47-29.
 Michael J. [Signature] 1-24-97
 SIGNATURE OF DEVELOPER DATE

CONTRACT NO. 14-3567-D
 DANIELS MILL OVERLOOK
 SECTION 2 , AREA 1
 LOT NOS. 20-84
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 2/3/97
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 2/7/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK
 10272 Baltimore National Pike
 Ellicott City, Maryland 21042
 (410) 461-2855

TERRELL A. FISHER
 #9757

DES: M.J.M.	
DRWN: J.M.H.	
CHEK: P.W.K.	
DATE: 9/13/96	
BY: NO.	REVISION
DATE: 11/4/97	SEWER AS-BUILT CONNECTIONS ADDED TO PLAN
DATE: 7/97	REVISE WATER & SHC QUANTITIES

"SEWER" AS-BUILT ONLY
 TITLE SHEET
 600' SCALE MAP NO. 17 BLOCK NO. 12

DANIELS MILL OVERLOOK
 SECTION 2 , AREA 1
 LOT NOS. 20-84
 CONTRACT NO. 14-3567-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 30 OF 35

NOTE: ALL TRUNK WATER HOUSE CONNECTIONS (H.W.'S) SHALL USE 1.5" HIGH COPPER PIPE FROM THE WATER MAIN TO THE "Y" BRANCH. 1.5" HIGH COPPER TUBING FROM THE "Y" BRANCH TO THE BALL VALVE/SERVICE BOX. ALL SERVICE WATER HOUSE CONNECTIONS SHALL USE 1.5" HIGH COPPER TUBING.

FIRE HYDRANT
SNOWMILL COURT
E. AD. STA. 39+75
CURB LINE ELEV. 432.84
(6.0 FT.)
SET 2' BEHIND
BACK OF SIDEWALK

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

DANIELS MILL OVERLOOK
PLAT No. 12098B

OPEN SPACE
LOT 1
(DEDICATED TO THE BOARD OF
EDUCATION OF HOWARD COUNTY)

DANIELS MILL OVERLOOK
PLAT No. 12098B
OPEN SPACE LOT 2
(DEDICATED TO HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS)

DANIELS MILL OVERLOOK
PLAT No. 12230A THRU 12230B
RESIDUE
LOT 5

REMOVE EX. 1.5" BUTTERFLY &
CONNECT TO EX. 12" WATER MAIN

FIRE HYDRANT
STONEHOUSE DRIVE
E. AD. STA. 35+70
CURB LINE ELEV. 443.05
(5.5 FT.)
SET 2' BEHIND
BACK OF SIDEWALK

REMOVE EX. 1.5" BUTTERFLY &
CONNECT TO EX. 12" WATER MAIN

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

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FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

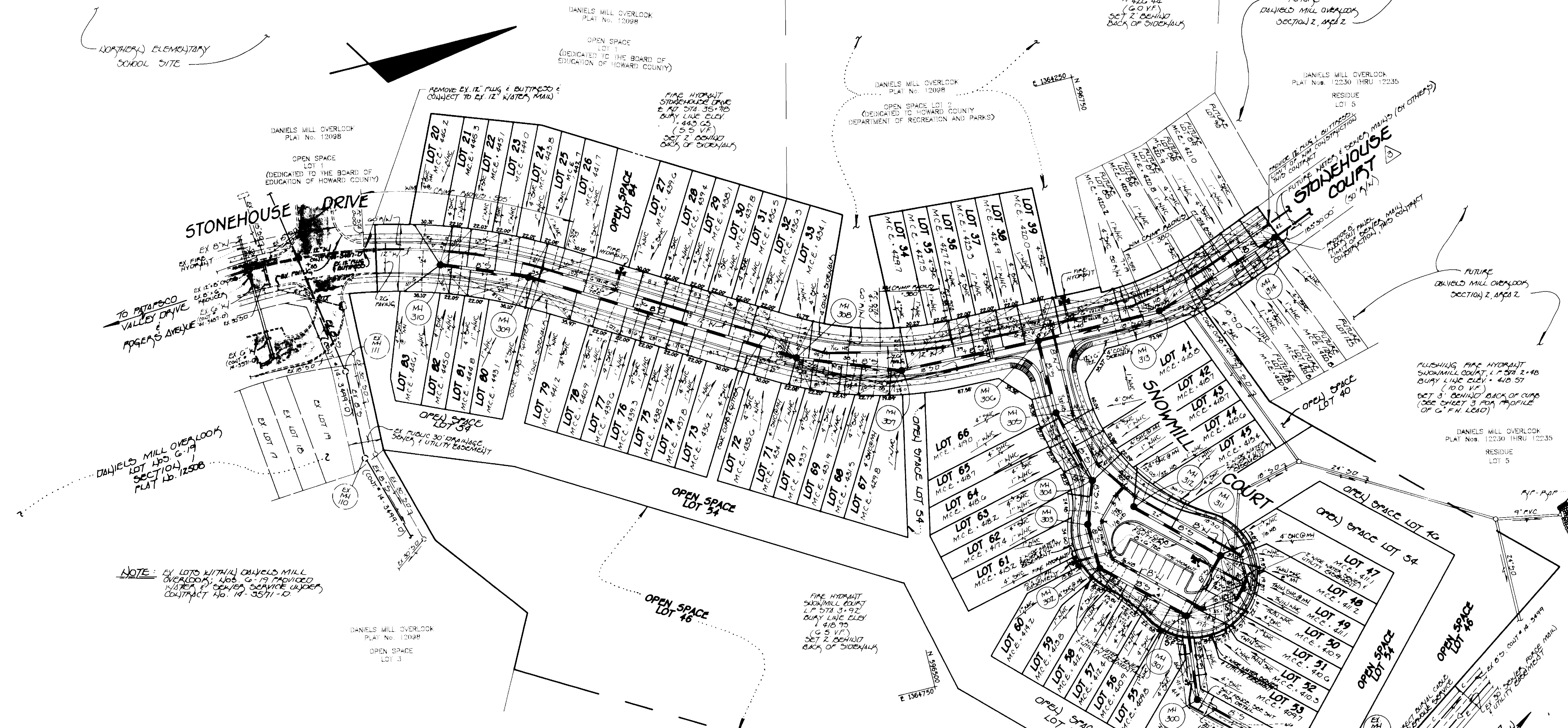
FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

FUTURE
DANIELS MILL OVERLOOK
SECTION 2, AREA 2

SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+20 RT	MH 300 TO MH 301	405.10
0+40 LT	53	405.20
	MH 301 TO MH 302	
0+16 LT	54	406.36
0+39 LT	57	407.13
0+60 LT	58	408.19
0+75 LT	59	408.06
@ MH 302 LT	60 (SHC @ MH)	409.60
	MH 302 TO MH 303	
0+19 LT	61	410.63
	MH 303 TO MH 304	
0+23 LT	62	412.88
@ MH 304 RT	43 (SHC @ MH)	414.14
	MH 304 TO MH 305	
0+17 LT	63	416.79
0+34 RT	42	414.19
0+42 RT	64	414.07
0+55 LT	41	414.41
0+62 LT	65	414.24
	MH 305 TO MH 306	
0+16 LT	66	414.45
	MH 306 TO MH 307	
0+13 RT	38	419.75
0+33 RT	37	420.72
0+58 RT	36	422.00
0+76 RT	35	422.92
1+20 RT	34	425.16
	MH 307 TO MH 308	
0+09 LT	67	425.88
0+36 LT	68	426.94
0+54 LT	69	428.41
0+80 LT	70	429.19
0+04 RT	33	429.55
@ MH 308 LT	71 (SHC @ MH)	430.08
	MH 308 TO MH 309	
0+32 LT	72	431.04
0+46 RT	32	431.73
0+49 LT	73	431.67
0+65 RT	31	432.36
0+90 RT	30	433.27
0+94 LT	74	433.21
1+00 RT	29	433.68
1+13 LT	75	435.90
1+31 RT	28	434.69
1+38 LT	76	434.75
1+54 RT	27	435.49
1+57 LT	77	435.44
2+00 LT	78	436.36
2+04 LT	79	437.16
2+41 RT	25	438.54
2+45 LT	80	438.37
	MH 309 TO MH 310	
0+14 RT	24	439.26
0+32 RT	23	439.85
0+32 LT	31	440.25
0+50 RT	22	440.35
0+69 LT	82	440.74
0+74 RT	21	441.09
@ MH 310 LT	83	441.33
@ MH 310 RT	20	441.61
	MH 310 TO MH 311	
0+12 RT	57 & 82 (TRUNK SHC)	406.05
0+30 RT	30	406.34
@ MH 311 RT	48 & 49 (TRUNK SHC @ MH)	406.65
@ MH 311 RT	47 (SHC @ MH)	406.51
	MH 311 TO MH 312	
0+30 RT	45	408.81
@ MH 312 RT	44 (SHC @ MH)	411.09
	MH 312 TO MH 313	
0+22 LT	59	415.41
0+76 LT	FUTURE LOT 85	415.60
	MH 313 TO MH 314	
0+38 RT	FUTURE LOT 125	415.86
0+40 LT	FUTURE LOT 86	416.04
0+63 LT	FUTURE LOT 87	416.18
0+85 LT	FUTURE LOT 88	416.35
0+87 RT	FUTURE LOT 127	416.21
1+01 RT	FUTURE LOT 126	416.30
1+03 LT	FUTURE LOT 89	416.32

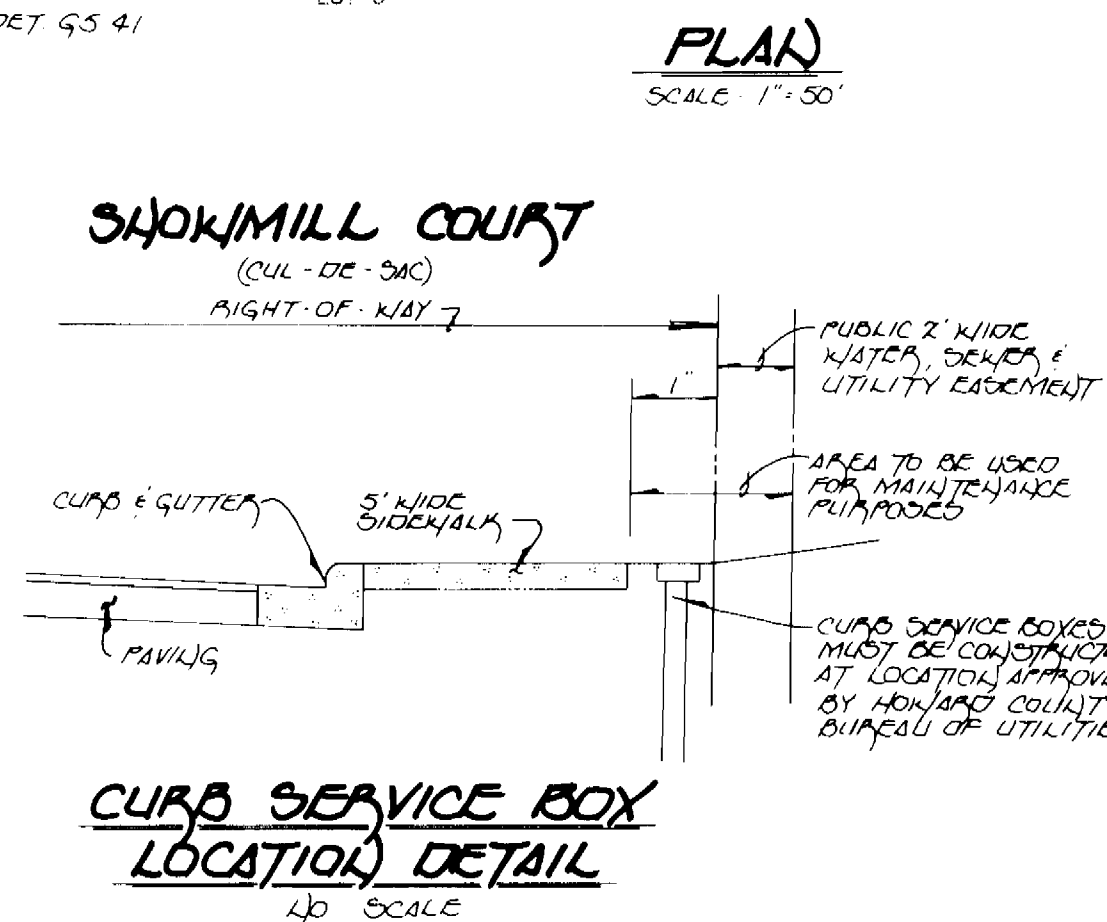
* INDICATES REVISION STATION & ELEVATION



MANHOLE TABULATION CHART

No.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
299				395.50
300				410.52
301	SNOWMILL COURT L.P. STA. 2+01	13 RT	+ 3.40%	414.44
302	SNOWMILL COURT L.P. STA. 3+71	4 RT	+ 4.00%	417.96
303	SNOWMILL COURT L.P. STA. 4+24	7 RT	+ 4.00%	419.93
304	SNOWMILL COURT L.P. STA. 4+60	9 RT	+ 4.00%	421.43
305	SNOWMILL COURT E. AD. STA. 0+70	7 RT	- 4.00%	423.89
306	STONEHOUSE DRIVE E. AD. STA. 39+68	6 RT	- 4.31%	427.08
307	STONEHOUSE DRIVE E. AD. STA. 38+43	9 RT	- 5.21%	433.63
308	STONEHOUSE DRIVE E. AD. STA. 37+50	6 RT	- 3.28%	437.55
309	STONEHOUSE DRIVE E. AD. STA. 35+00	5 RT	- 3.25%	445.81
310	STONEHOUSE DRIVE E. AD. STA. 34+20	5 RT	- 2.39%	448.21
311	SNOWMILL COURT L.P. STA. 1+59	23 RT	- 4.00%	416.29
312	SNOWMILL COURT L.P. STA. 0+60	16 RT	- 4.00%	420.04
313	SILK THREAD COURT E. AD. STA. 40+79	7 RT	- 1.37%	423.92
314	SILK THREAD COURT E. AD. STA. 41+97	7 RT	1.74%	424.23

* MANHOLES IN SNOWMILL COURT BEYOND THE BEGINNING OF THE LINEAR PROFILE ARE REFERENCED TO 70' OF THE MODIFIED CURB. ALL OTHER MANHOLES ARE REFERENCED TO CENTERLINE OF ROAD.



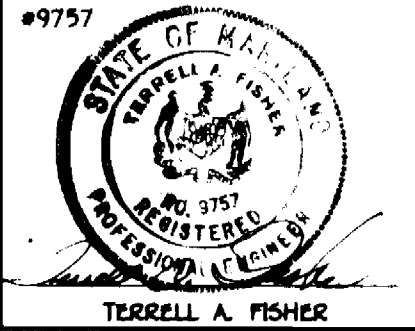
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael A. Dawson, P.E. 2/13/17
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Mr. [Signature] 2/1/17
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS &
LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK
10272 Baltimore National Pike
Ellicott City, Maryland 21042
(410) 461-2865



DES: M.J.M.
DRAWN: J.M.H.
CHK: P.W.K.
DATE: 9/13/16

REVISION

1	SEWER ASBUILT CONDITIONS ADDED TO PLAN	11/17/01
2	REVISE AD. ELEVATIONS FROM "SILK THREAD" TO "STONEHOUSE CRY"	7/97
3	REVISE SHC INVERT @ PROPERTY LINE CHART	7/97
4	REVISE LOCATION OF WATER & GAS S.O. THEY ARE NOT ON ORIGINAL	7/97

"SEWER" ASBUILT ONLY
PLAN
WATER AND SEWER MAINS

600' SCALE MAP NO. 17 BLOCK NO. 12

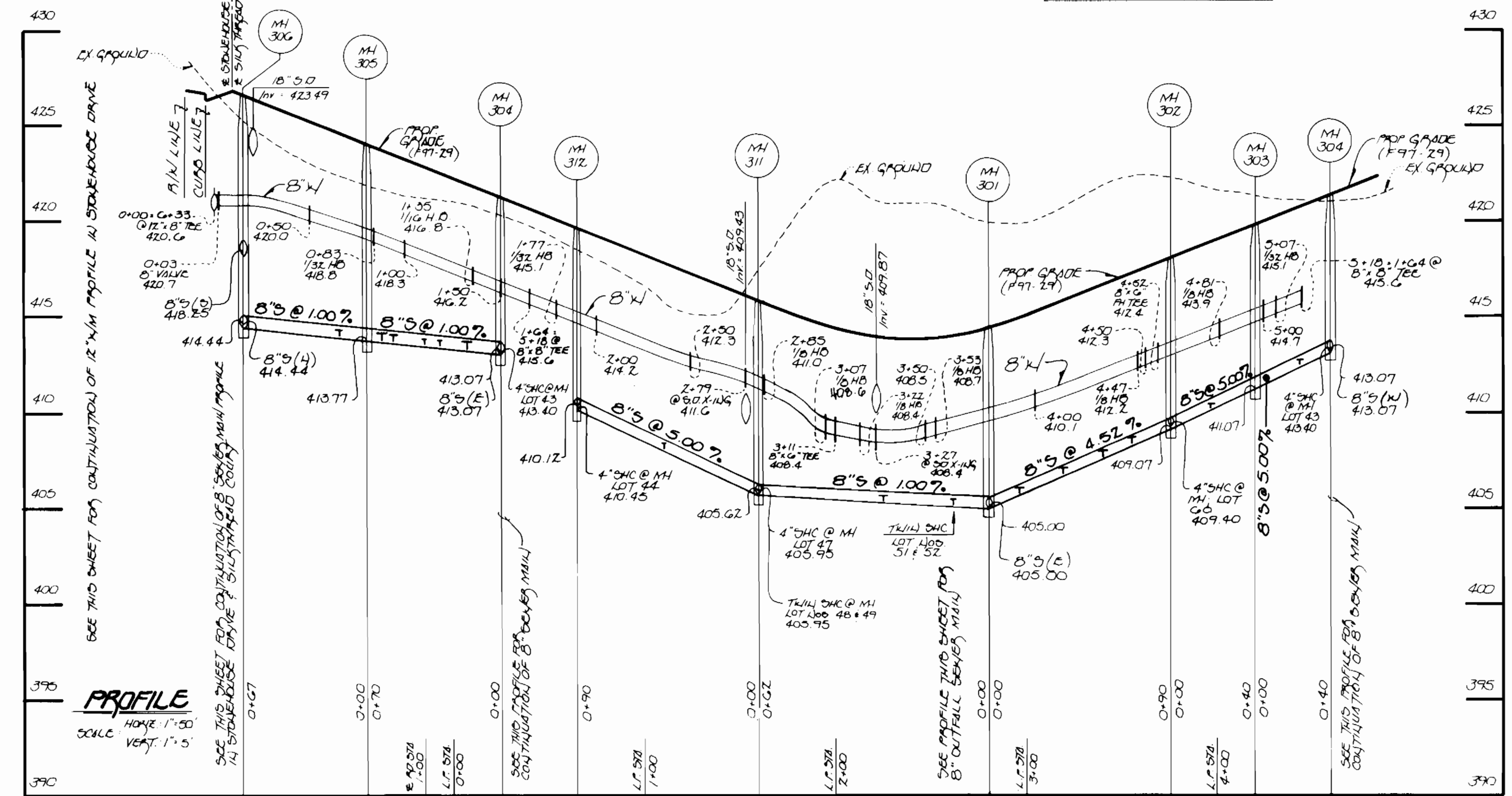
DANIELS MILL OVERLOOK
SECTION 2, AREA 1
LOT NOS. 20-84
CONTRACT NO. 14-3567-0
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3E OF 3F

STONEHOUSE DRIVE
SILK THREAD COURT

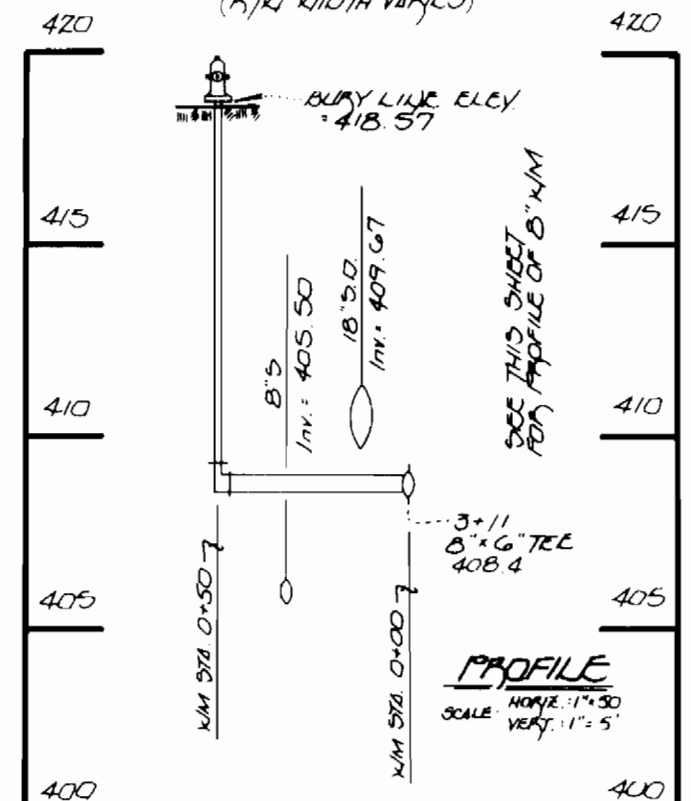
SNOWMILL COURT
(50' R/W)

SEE SHEET 2 FOR PLAN VIEW
OF WATER & SEWER MAINS

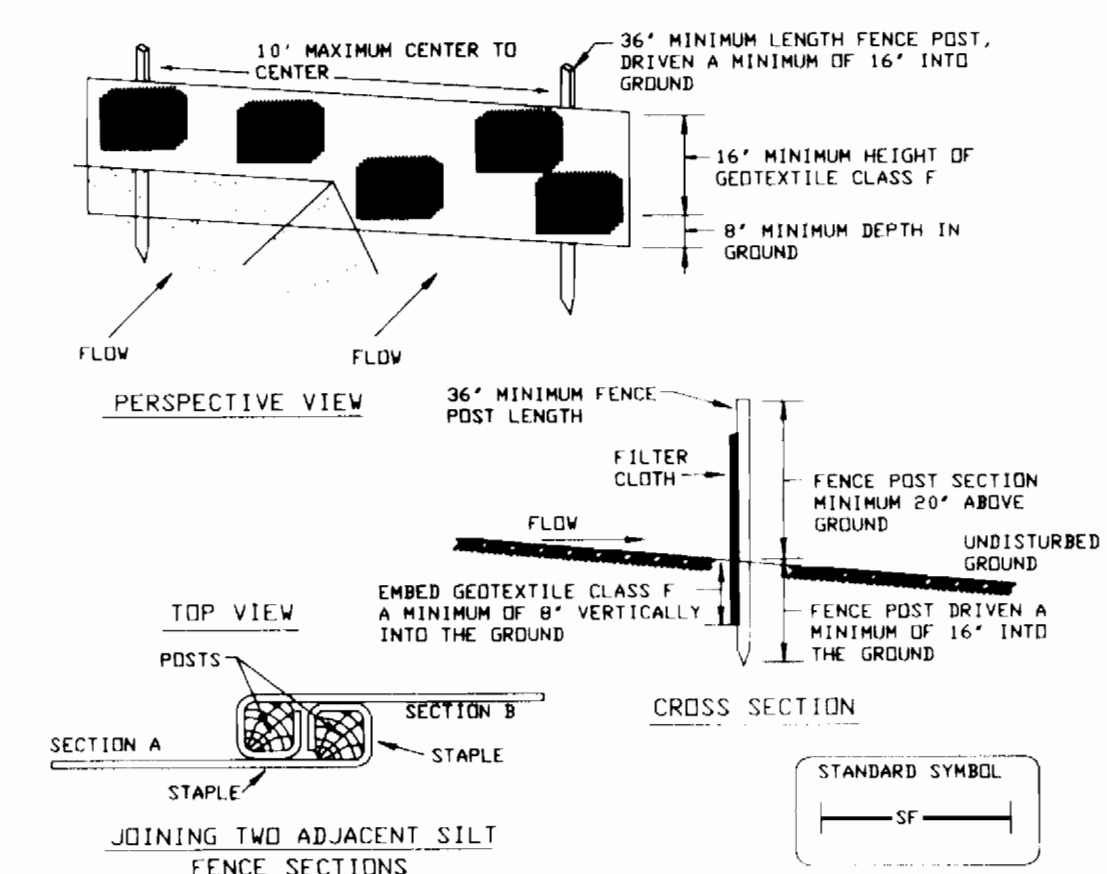


NOTE: ALL TRUNK WATER HOUSE CONNECTIONS (W/HCO) SHALL BE 1/2" CUMULATIVE FROM THE WATER MAIN TO THE "Y" BRANCH & 1" CUMULATIVE FROM THE "Y" BRANCH TO THE BALL VALVE. SERVICE COX. SINGLE WATER HOUSE CONNECTIONS SHALL BE 1" CUMULATIVE.

SNOWMILL COURT
(A/N) NORTH VALE



FLUSHING FIRE HYDRANT:
SNOWMILL COURT



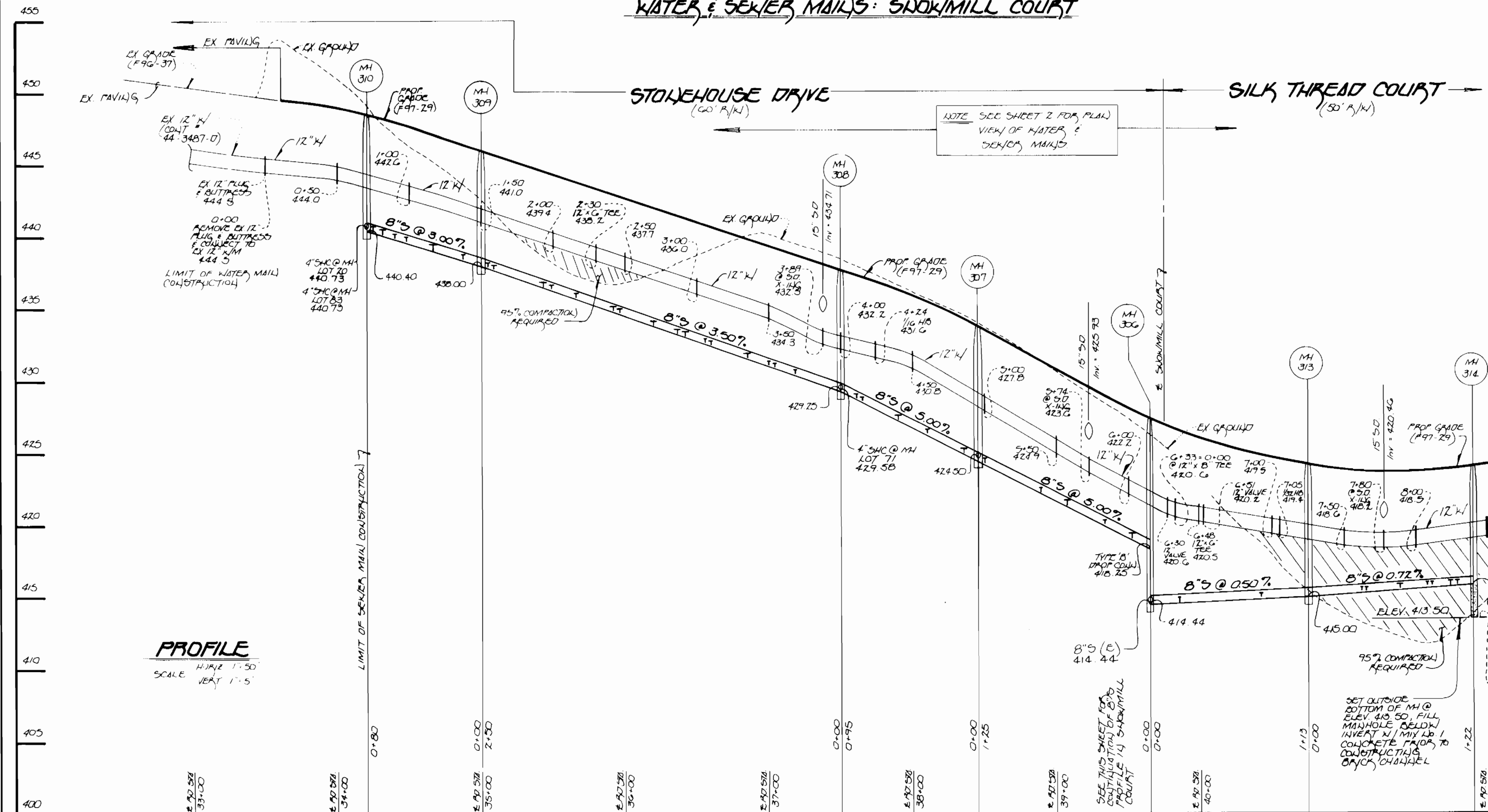
Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut), or 1 3/4" diameter (minimum round) and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

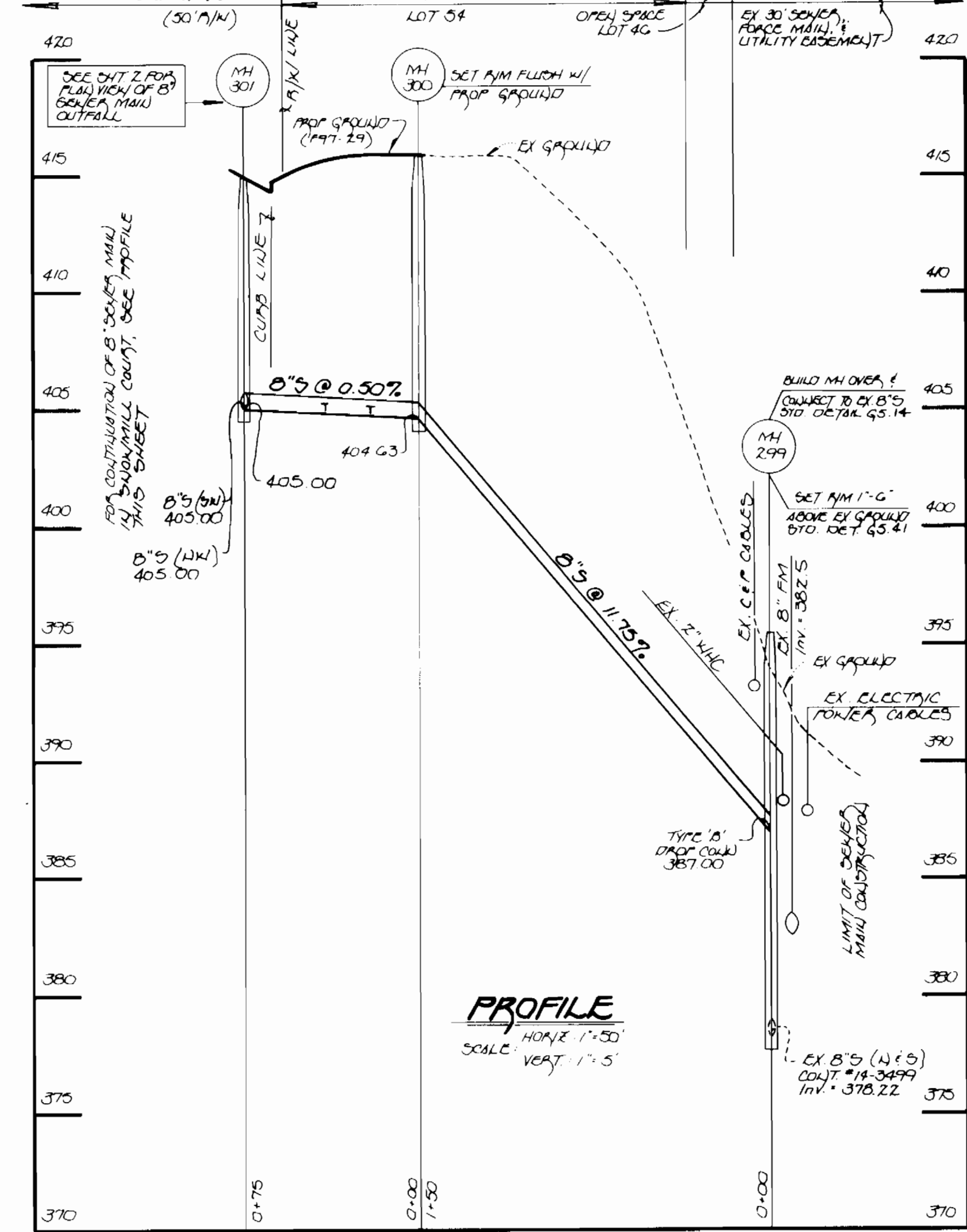
Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	9.3 gal/ft ² /minute (max.)	Test: MSMT 302
Filtering Efficiency	75% (min.)	Test: MSMT 302
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

SILT FENCE
NOT TO SCALE

WATER & SEWER MAINS: SNOWMILL COURT



SNOWMILL COURT
(50' R/W)



8" SEWER MAIN OUTFALL

CONTRACT NO. 14-3567-D
DANIELS MILL OVERLOOK
SECTION 2 - AREA 1
LOT NOS. 20-84
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Richard A. ...
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS &
LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK
10272 Baltimore National Pike
Biltsville City, Maryland 21042
(410) 461-2866

Professional Engineer Seal for Terrill A. Fisher, No. 9717.

DES. H.J.H.	DATE: 9/13/91
DRWN: J.M.H.	
CHK: P.W.K.	
DATE: 9/13/91	
BY NO.	REVISION
1	SEWER ASPHALT CONDITIONS ADDED TO PLAN
2	REVISE LOCATIONS OF SMC'S

"SEWER ASBUILT ONLY"
WATER AND SEWER MAIN
PROFILES
600' SCALE MAP NO. ... BLOCK NO. ...

DANIELS MILL OVERLOOK
SECTION 2 - AREA 1
LOT NOS. 20-84
CONTRACT NO. 14-3567-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 3