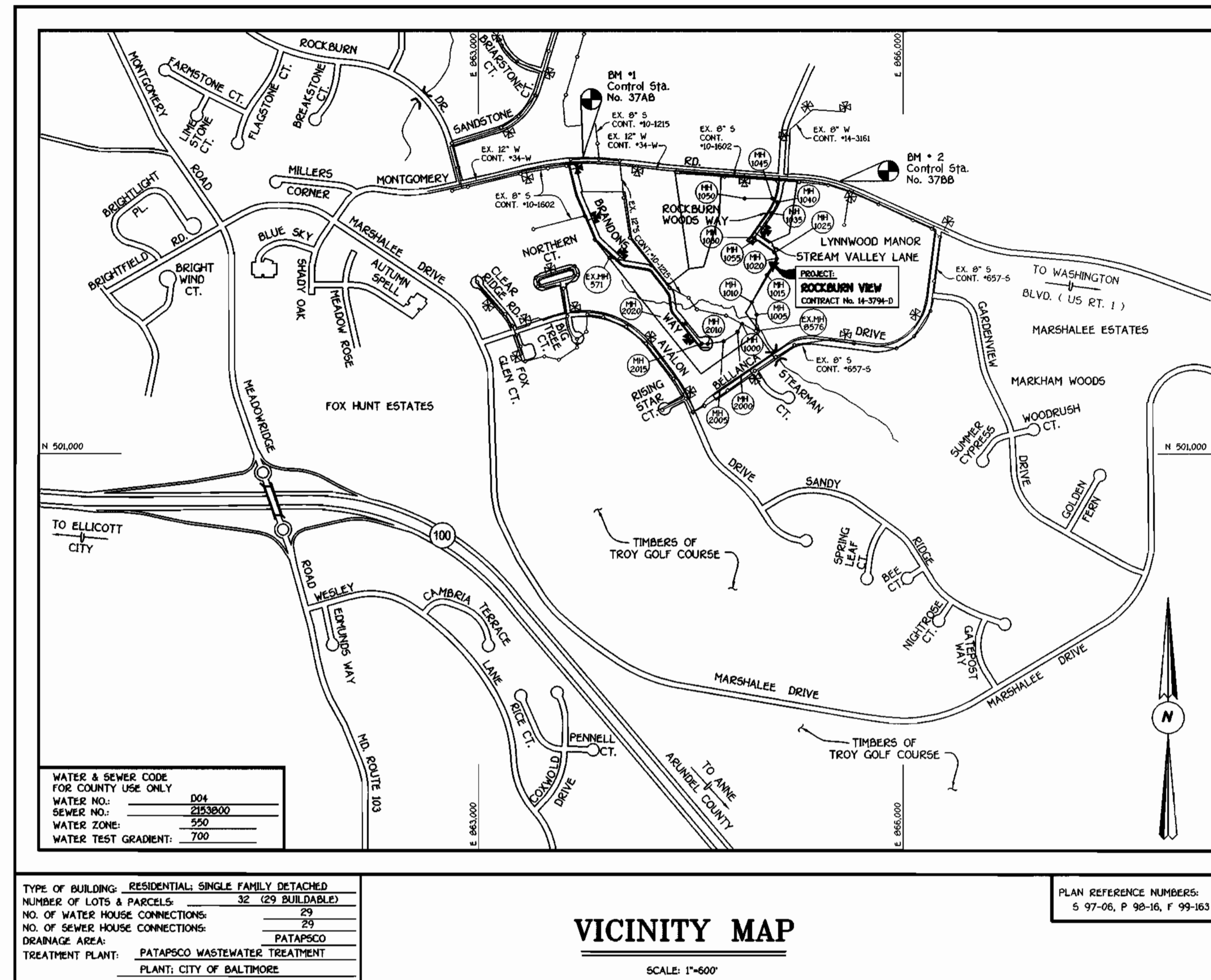


ITEM	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	1,303.32 L.F.			
8" SEWER (D.I.P.)	633.12 L.F.			
4" SEWER	1,326 L.F.			
4" SEWER (D.I.P.)	142 L.F.			
MANHOLES	15 EACH			
8" WATER	2,328.75 L.F.			
6" WATER	163.89 L.F.			
4" WATER	273 L.F.			
1-1/2" WATER	134 L.F.			
1" WATER	696 L.F.			
FIRE HYDRANTS	5 EACH			
8" x 8" TEE	1 EACH			
8" x 6" TEE	5 EACH			
8" x 4" TEE	1 EACH			
8" VALVE	2 EACH			
6" VALVE	5 EACH			
4" VALVE	1 EACH			
8"-1/8" H.B.	2 EACH			
8"-1/16" H.B.	4 EACH			
8"-1/32" H.B.	3 EACH			
4"-1/32" H.B.	1 EACH			
6" PLUG & BUTTRESS	2 EACH			
6" PLUG & BUTTRESS	1 EACH			
4" PLUG & BUTTRESS	1 EACH			
12" x 8" TAPPING SLEEVE & VALVE	2 EACH			
OUTSIDE METER SETTING	2 EACH			
8" x 6" REDUCER	1 EACH			

NAME OF UTILITY CONTRACTOR: _____
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: _____



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 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 BUG 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 - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - (410) 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - (410) 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 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 5.52.
- 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.
- HOUSES 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 G5.5L.
- 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 (W111 AND W213). 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.

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 A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL 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."

Paul W. Wood FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER 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."

M. McCann 5/3/00
 SIGNATURE OF ENGINEER DATE

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

Chaf Simon / GS. 5/15/00
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED: *[Signature]* 5/15/00
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

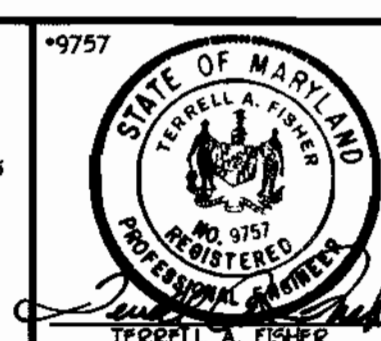
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND ON F99 - 153.

Paul W. Wood FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PkE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2055



DESIGNED BY:	M.D.T.
DRAWN BY:	J.E.P./M.D.T.
CHECKED BY:	P.W.K.
DATE:	APRIL 2000
BY NO.	
REVISION	
DATE	

TITLE SHEET
 600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30510
 FILE NAME: G:\30510\WES\WATSEW\WALS\TITLESHEET

ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 9

CONTRACT No. 14-3794-D

ROCKBURN VIEW

LOTS 4 THRU 35

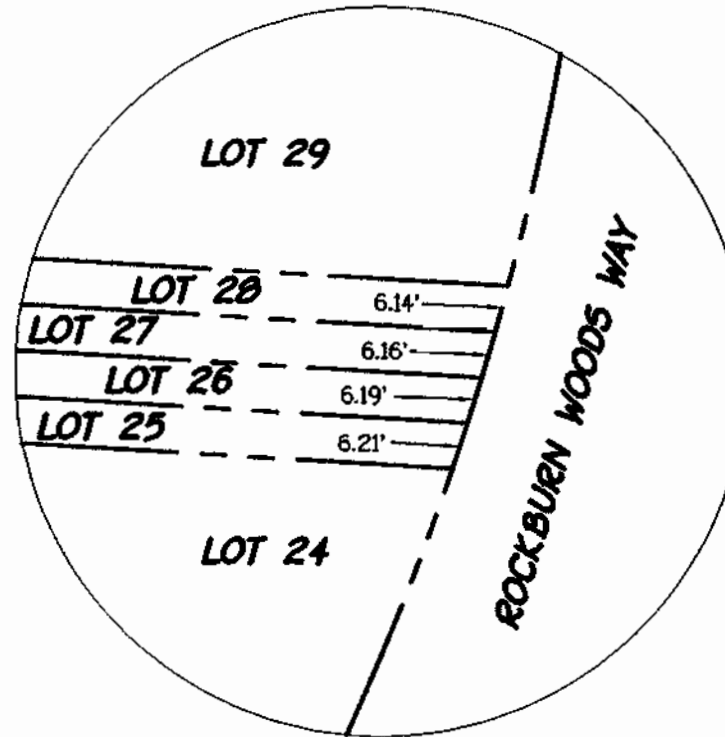
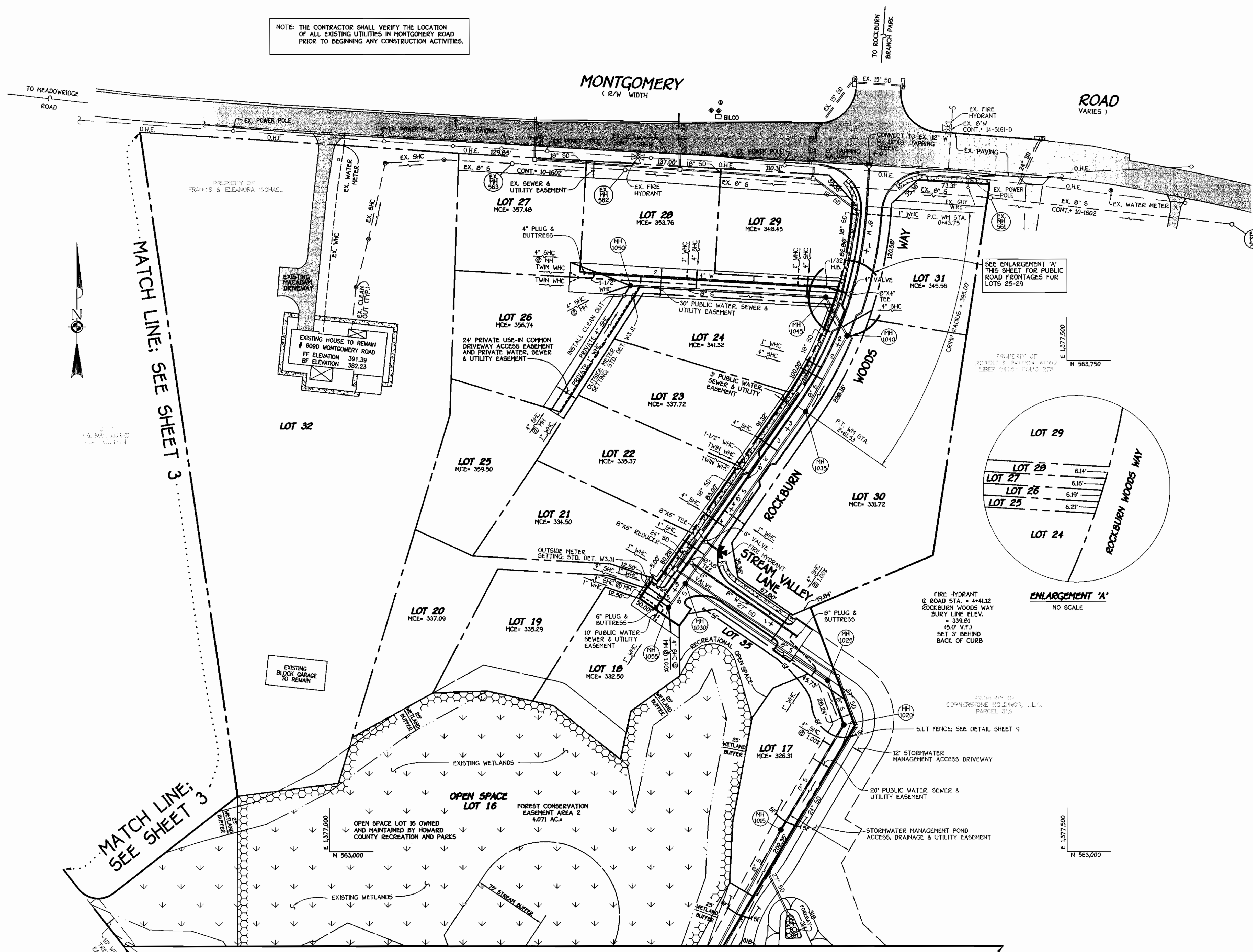
WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

BENCHMARK INFORMATION
 B.M.-1 - HOWARD COUNTY MONUMENT NO. 37AB
 ELEV.= 394.74; DESCRIPTION: STAMPED CONC. MONUMENT • SURFACE APPROX. 9' SOUTH OF EDGE OF E.O.L. OF MONTGOMERY ROAD AND 64' WEST OF CENTERLINE OF DRIVEWAY FOR HOUSE #6028
 B.M.-2 - HOWARD COUNTY MONUMENT NO. 37BB
 ELEV.= 373.83; DESCRIPTION: STAMPED CONC. MONUMENT • SURFACE BETWEEN BACK OF GUARD RAIL AND SOUTH EDGE OF CONCRETE WALK FOR ROCKBURN ELEM. SCHOOL, 16.3' FROM AN X-CUT IN THE END POST OF THE GUARDRAIL AND 18.8' FROM THE END OF THE CHAIN LINK FENCE.

CONTRACT NO. 14-3794-D
 ROCKBURN VIEW
 LOTS 4 THRU 35
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN MONTGOMERY ROAD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



SHC INVERT • PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+00 LT.	MH 1015 TO MH 1020	322.86
	17 (SHC @ 1.00%)	
	MH 1025 TO MH 1030	
0+70 RT.	30 (SHC @ 1.00%)	328.07
	MH 1030 TO MH 1035	
0+35 LT.	21	329.70
0+70 LT.	22	330.57
1+64 LT.	23	332.92
	MH 1035 TO MH 1040	
0+37 LT.	24	336.52
	MH 1040 TO MH 1045	
0+10 RT.	31	340.66
	MH 1045 TO MH 1050	
0+19 RT.	29	343.35
1+32 RT.	28	348.66
⊙ MH 1050 RT.	27 (SHC @ MH)	352.88
⊙ MH 1050 CT.	26 (SHC @ MH)	352.14
⊙ MH 1050 LT.	25 (SHC @ MH)	354.60
	MH 1030 TO MH 1055	
0+25 RT.	20	343.45
⊙ MH 1055 RT.	19 (SHC @ MH)	329.29
⊙ MH 1055 LT.	18 (SHC @ MH @ 1.00%)	328.80
	MH 2000 TO MH 2005	
0+65 LT.	13 (TYPE 'B' DHC)	325.20
0+65 RT.	14 (TYPE 'B' DHC)	325.20
	MH 2005 TO MH 2010	
1+00 LT.	12 (TYPE 'B' DHC)	333.64
1+00 RT.	15 (TYPE 'B' DHC)	333.94
	MH 2010 TO MH 2015	
0+30 LT.	11 DHC	333.54
	MH 2015 TO MH 2020	
0+53 LT.	10 DHC	331.50
⊙ MH 2020 LT.	9 (SHC @ MH)	325.87
⊙ MH 2020 LT.	8 (SHC @ MH; FIRST FLOOR SERVICE ONLY)	326.09
	EX. MH 104 TO EX. MH 571	
2+22 RT.	4 (TYPE 'A' DHC @ 1.00%)	345.53
	EX. MH 571 TO EX. MH 572	
1+27 RT.	34 (SHC @ 1.00%)	349.82
⊙ EX. MH 573 RT.	33 (SHC @ 1.00%; FIRST FLOOR SERVICE ONLY)	357.79
	EX. MH 103 TO EX. MH 104	
1+20 LT.	6	333.09
	EX. MH 104 TO EX. MH 571	
0+65 RT.	5	341.28
	EX. MH 106 TO EX. MH 107	
0+55 LT.	1 (SHC @ 1.00%); FIRST FLOOR SERVICE ONLY	375.54

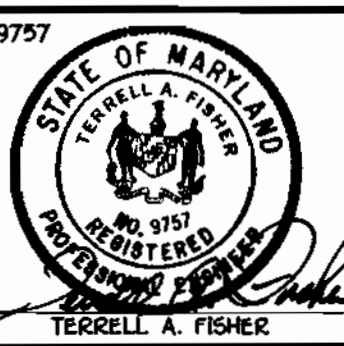
MATCH LINE; SEE SHEET 4

PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

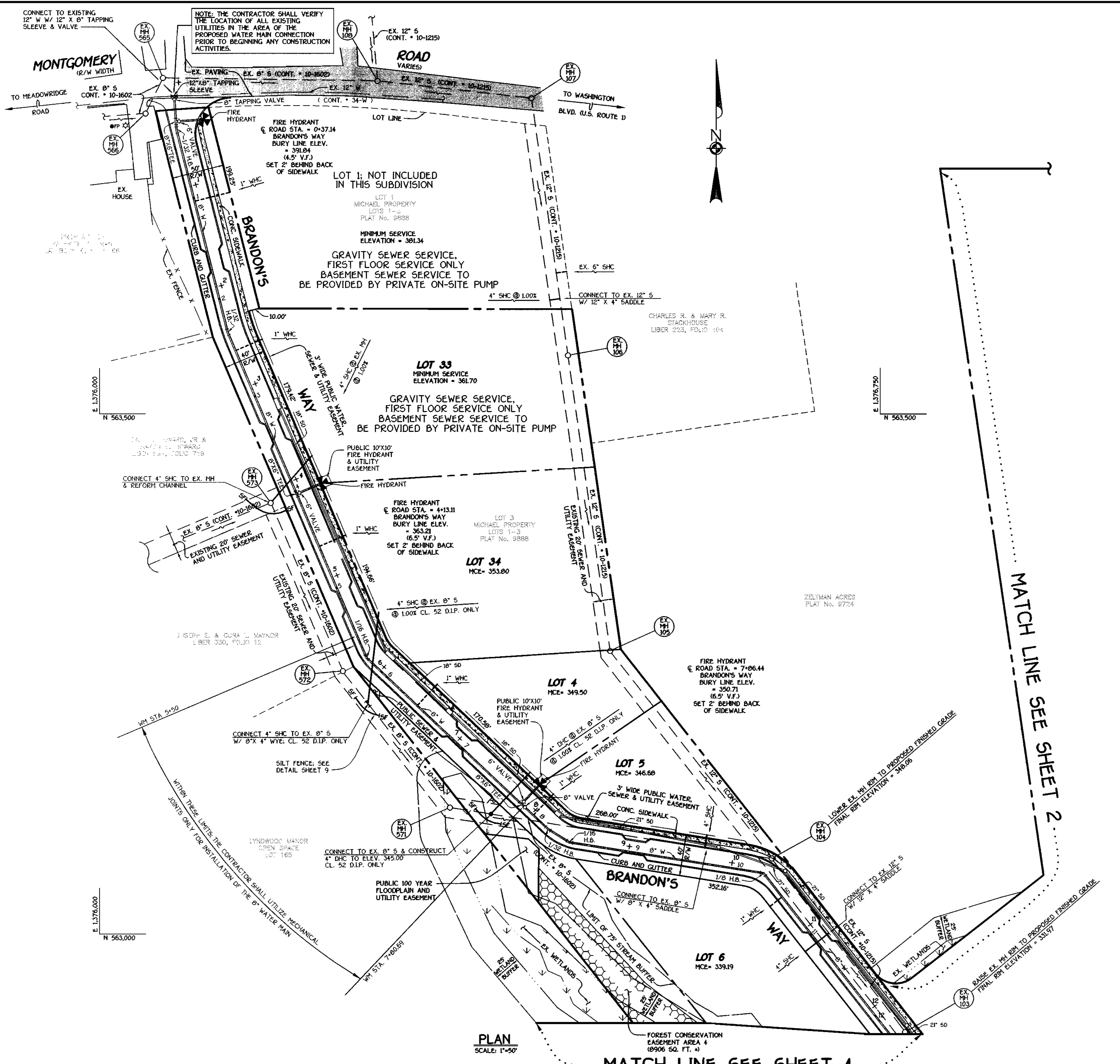


DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.K.
DATE: APRIL, 2000

PLAN VIEW
WATER AND SEWER MAINS

ROCKBURN VIEW
LOTS 4 THRU 35
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 9



WATER MAIN TABULATION CHART

WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
BRANDON'S WAY			
0+00	12" X 8" TAPPING SLEEVE	0+12.92	5.00' RT.
0+03	8" TAPPING VALVE	0+15.92	5.00' RT.
0+24.7	8" X 6" TEE	0+37.14	5.24' RT.
0+32.55	1/32 H.B.	0+44.90	5.79' RT.
2+32.06	1/32 H.B.	2+44.40	5.56' RT.
4+02.00	8" X 6" TEE	4+13.11	5.00' RT.
5+72.80	1/16 H.B.	5+82.72	6.18' RT.
7+77.59	8" X 6" TEE	7+86.44	5.00' RT.
7+80.69	8" VALVE	7+89.44	5.00' RT.
8+12.54	1/32 H.B.	8+21.29	5.00' RT.
8+36.97	1/16 H.B.	8+43.54	5.66' RT.
10+25.02	1/8 H.B.	10+32.50	1.67' RT.
12+44.74	1/16 H.B.	12+53.15	4.48' RT.
12+58.30	P.C. (CRIMP RADIUS=380')	12+68.35	6.00' RT.
13+09.41	P.T. (CRIMP RADIUS=380')	13+19.73	3.90' RT.
13+63.41	1/16 H.B.	13+73.33	5.33' RT.
13+66.41	P.C. (CRIMP RADIUS=380')	13+75.95	4.51' RT.
14+28.48	P.T. (CRIMP RADIUS=380')	14+36.52	5.00' RT.
15+92.92	8" X 6" TEE	16+00.97	5.00' RT.
16+87.77	1/8 H.B.	16+85.92	23.41' RT.
17+37.67	8" PLUG & BUTTRESS	L.P. STA.	5.79' RT.
ROCKBURN WOODS WAY			
0+00	12" X 8" TAPPING SLEEVE	0+10.80	5.00' RT.
0+03	8" TAPPING VALVE	0+13.80	5.00' RT.
0+43.75	P.C. (CRIMP RADIUS=380')	0+54.64	5.00' RT.
1+35.07	8" X 4" TEE	1+47.01	5.00' RT.
2+61.53	P.T. (CRIMP RADIUS=380')	2+75.17	5.00' RT.
4+28.08	8" X 6" TEE	4+41.72	5.00' RT.
4+54.08	8" X 8" TEE	4+67.72	5.00' RT.
4+57.08	8" X 6" REDUCER	4+70.72	5.00' RT.
5+12.46	6" PLUG & BUTTRESS	5+26.10	5.00' RT.
STREAM VALLEY LANE			
0+00	8" X 8" TEE	-0+05	5.00' LT.
0+03	8" VALVE	-0+02	5.00' LT.
1+34	8" PLUG & BUTTRESS	1+29	5.00' LT.
ACCESS DRIVE			
0+00	8" X 4" TEE	1+47.01	5.00' RT.
0+03	4" VALVE	1+47.01	8.00' RT.
0+25.48	1/32 H.B.	1+47.01	30.48' RT.
2+47.53	4" PLUG & BUTTRESS	---	---

MANHOLE TABULATION CHART

NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1000	---	---	---	312.00 *
2000	---	---	---	314.59 **
2005	---	---	---	330.00 **
2010	IN CUL-DE-SAC; BRANDON'S WAY	---	---	345.60
2015	IN CUL-DE-SAC; BRANDON'S WAY	---	---	342.77
2020	14+89.54; BRANDON'S WAY	5' LT.	+5.12%	332.70
1005	---	---	---	309.00 *
1010	---	---	---	312.70 **
1015	---	---	---	325.40 **
1020	---	---	---	330.50 **
1025	---	---	---	337.70 **
1030	4+80.61; ROCKBURN WOODS WAY	5' LT.	+1.28%	339.63
1035	2+75.17; ROCKBURN WOODS WAY	5' LT.	-6.08%	344.65
1040	1+87.86; ROCKBURN WOODS WAY	5' LT.	-9.92%	351.93
1045	---	---	---	352.00 **
1050	---	---	---	362.85 **
1055	5+18.18; ROCKBURN WOODS WAY	5' LT.	+1.28%	340.01

* SET RIM 1.5' ABOVE EXISTING GROUND
 ** SET RIM FLUSH W/ EXISTING OR PROPOSED FINISHED GRADE

PLAN
SCALE: 1"=50'

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 2

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. Bennett
CHIEF, BUREAU OF UTILITIES

5-5-00
DATE

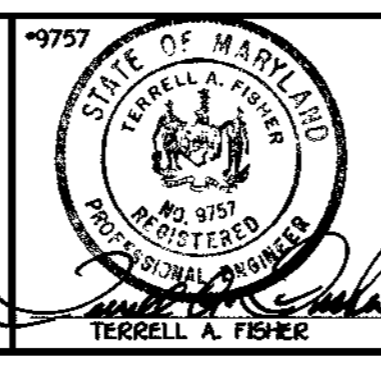
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael J. Dawson
CHIEF, DEVELOPMENT ENGINEERING DIVISION

5/17/00
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL PIKE
GAITHERSBURG CITY, MARYLAND 20878
410-941-2000



DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.M.K.
DATE: APRIL, 2000

BY NO. REVISION DATE

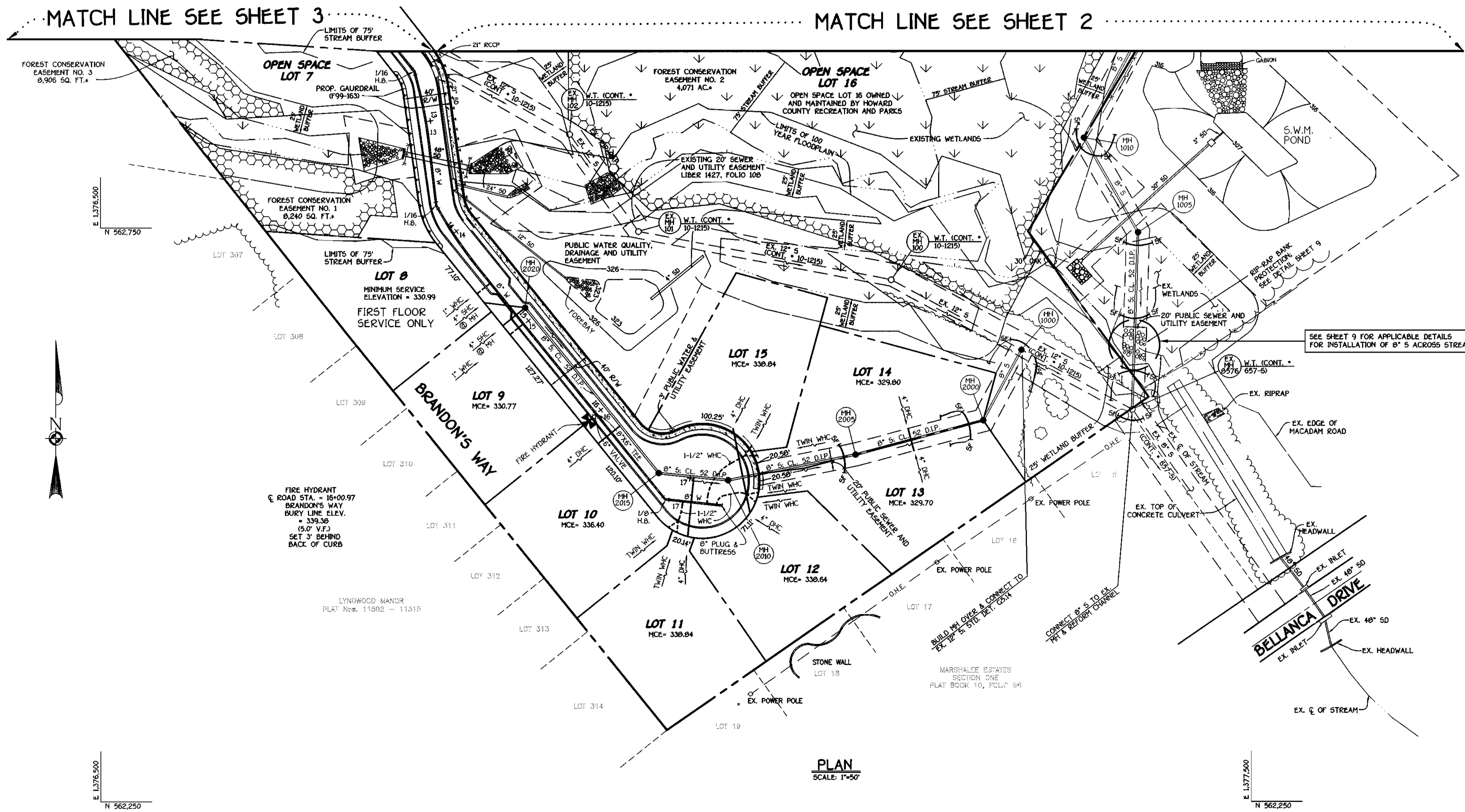
PLAN VIEW
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO. 4
F.C.C. WORK ORDER NO. 30610
FILE NAME: G:\30610\WAS\WATSEWFINAL\5\PLAN\SH13

ROCKBURN VIEW
LOTS 4 THRU 35
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 9

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 35
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



NOTE: SEE SHEET 9 FOR:
 A. SEQUENCE OF CONSTRUCTION
 B. EROSION & SEDIMENT CONTROL NOTES
 C. STANDARDS & SPECIFICATIONS FOR VEGETATIVE STABILIZATION
 D. TEMPORARY & PERMANENT SEEDING NOTES
 E. STANDARDS & SPECIFICATIONS FOR TOPSOIL
 F. CONDITIONS & MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS

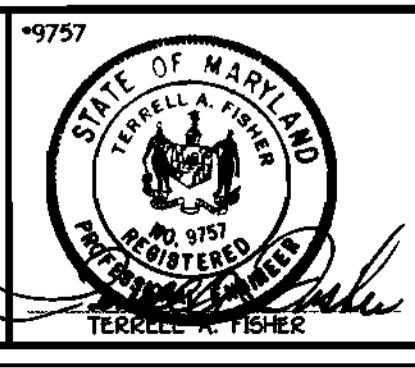
PLAN
 SCALE: 1"=50'

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 35
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Design
 CHIEF, BUREAU OF UTILITIES
 5-5-00
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 5/1/00
 DATE

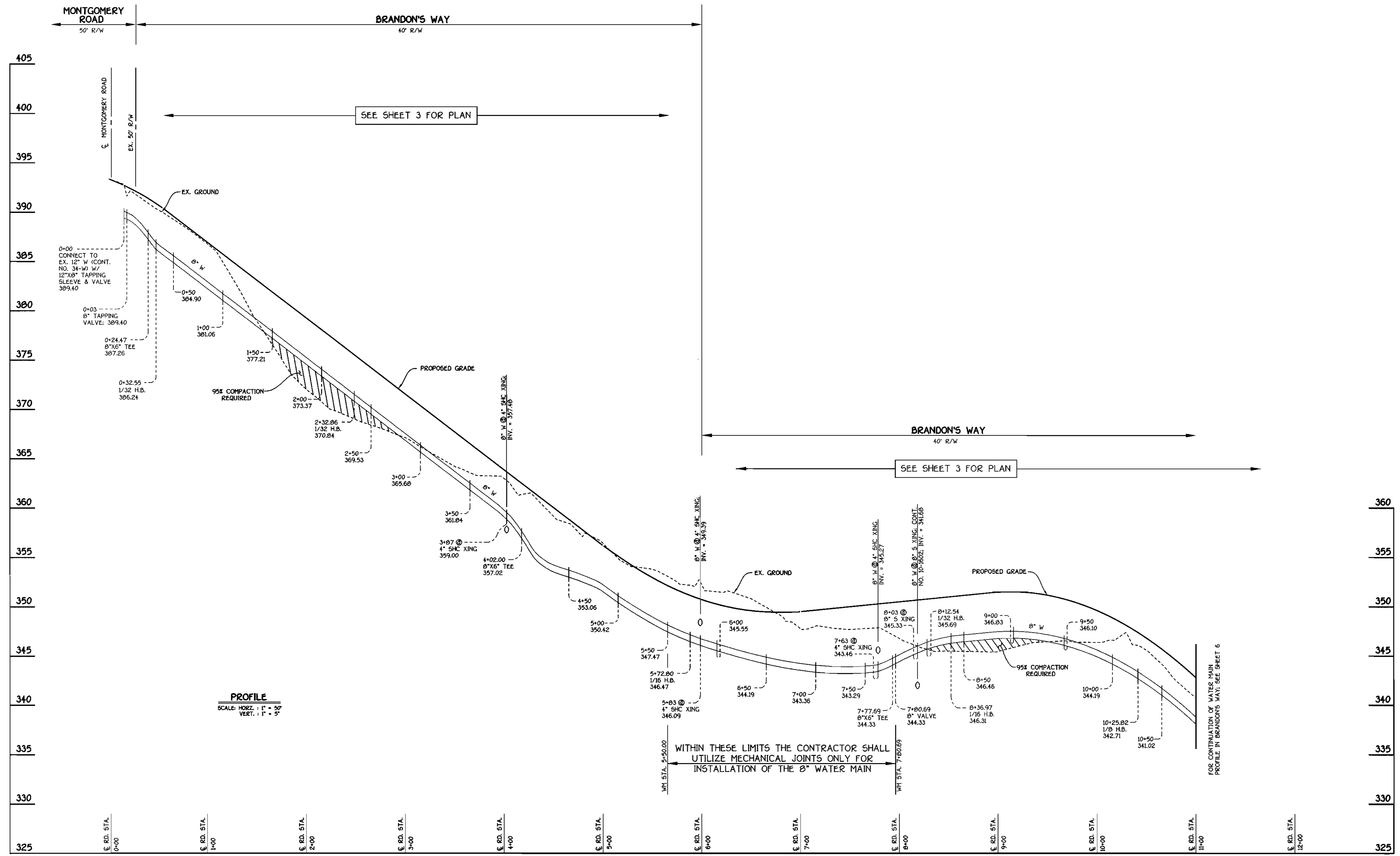
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2255



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.L.		
DATE:	APRIL, 2000		
BY NO.		REVISION	DATE

PLAN VIEW
 WATER AND SEWER MAINS
 600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30610
 FILE NAME: G:\30610\WSS\WATSEWFRNALS\PLANS\4

ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 4 of 9



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

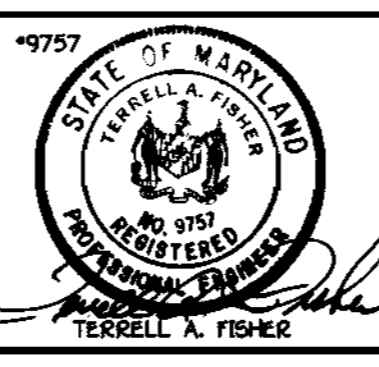
BRANDON'S WAY: 8" WATER MAIN

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 35
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert M. Benjamin
CHIEF, BUREAU OF UTILITIES
5-5-00
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Michael J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
5/17/00
DATE

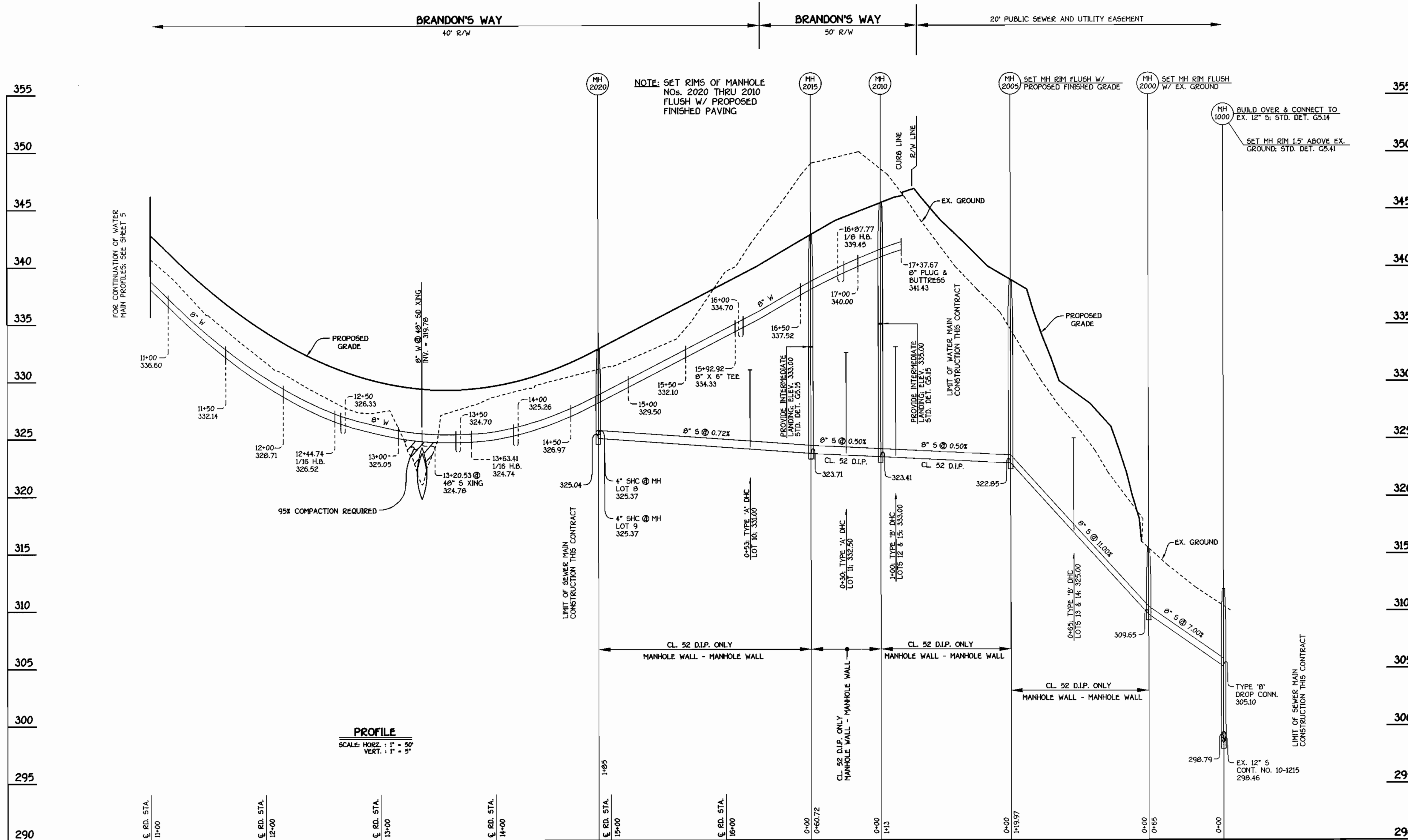
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21036
(410) 481-2855



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.L.
DATE:	APRIL, 2000
BY:	NO.
REVISION:	

WATER AND SEWER MAINS PROFILES	
600' SCALE MAP NO. 37	BLOCK NO. 4
F.C.C. WORK ORDER NO. 30610	
FILE NAME: G:\30510\WAS\FINAL\5.30510BSW\MYMAINPROFILES	

ROCKBURN VIEW
LOTS 4 THRU 35
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 5 of 9



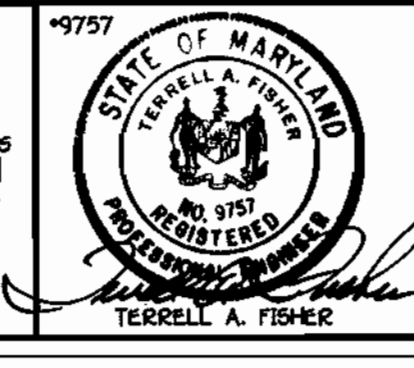
BRANDON'S WAY: 8" WATER AND SEWER MAINS

CONTRACT NO. 14-3769-D
ROCKBURN VIEW
 LOTS 4 THRU 35
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert Benjamin
 CHIEF, BUREAU OF UTILITIES
 5-5-00

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 5/12/00

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21117
 (410) 461-2000



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	APRIL, 2000
BY NO.	
REVISION	

WATER AND SEWER MAINS PROFILES

600' SCALE MAP NO. 37 BLOCK NO. 4

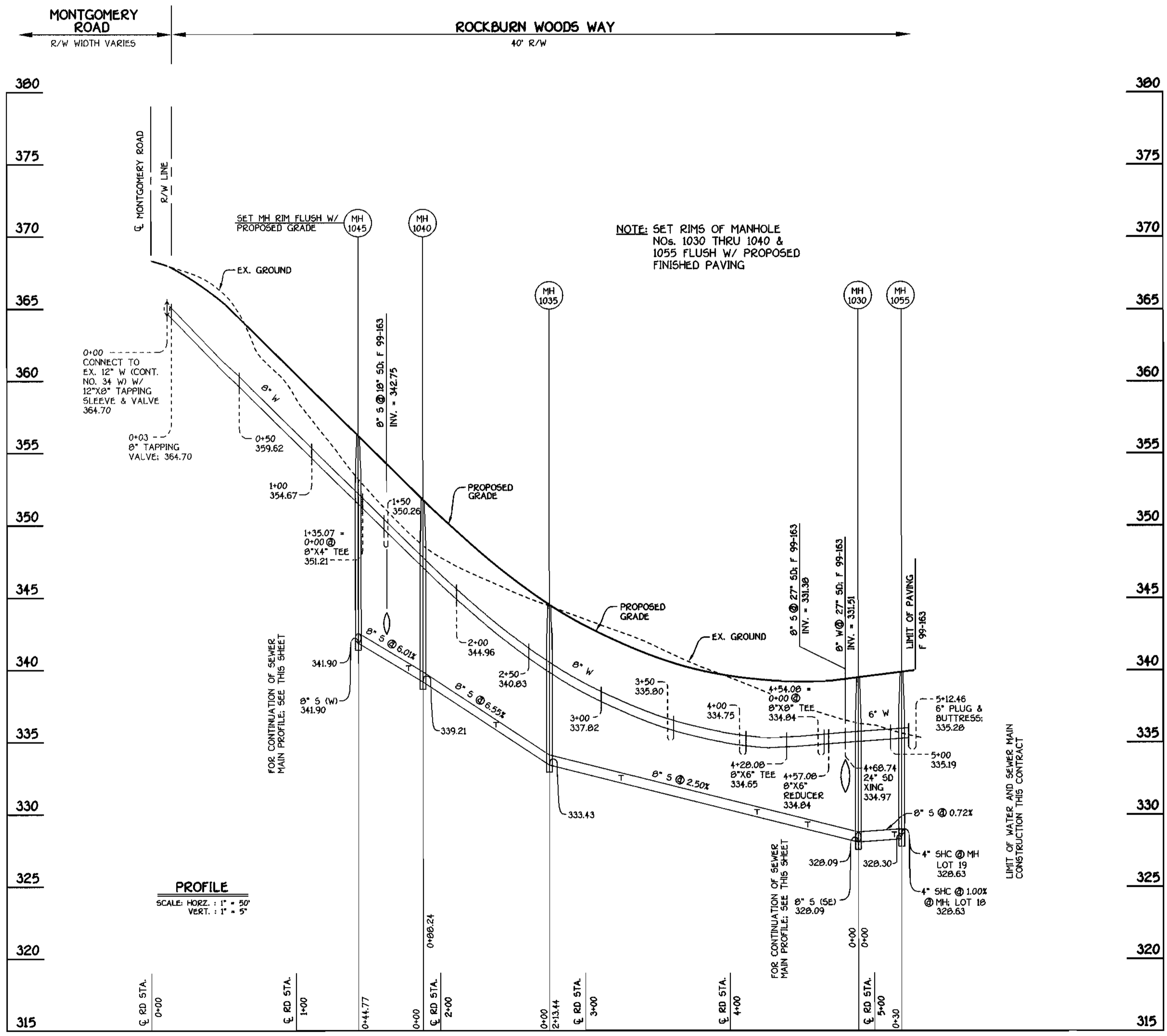
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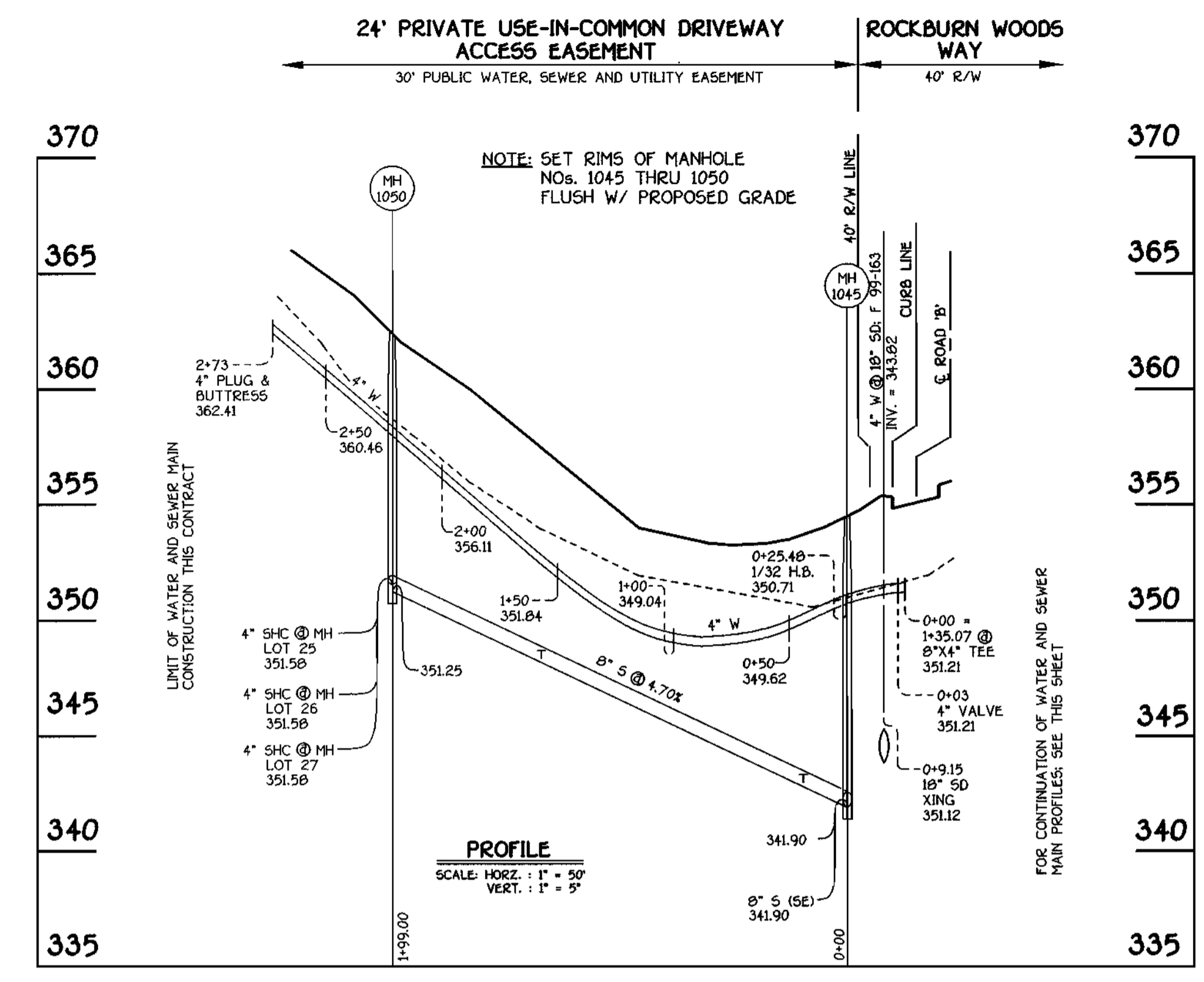
ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN

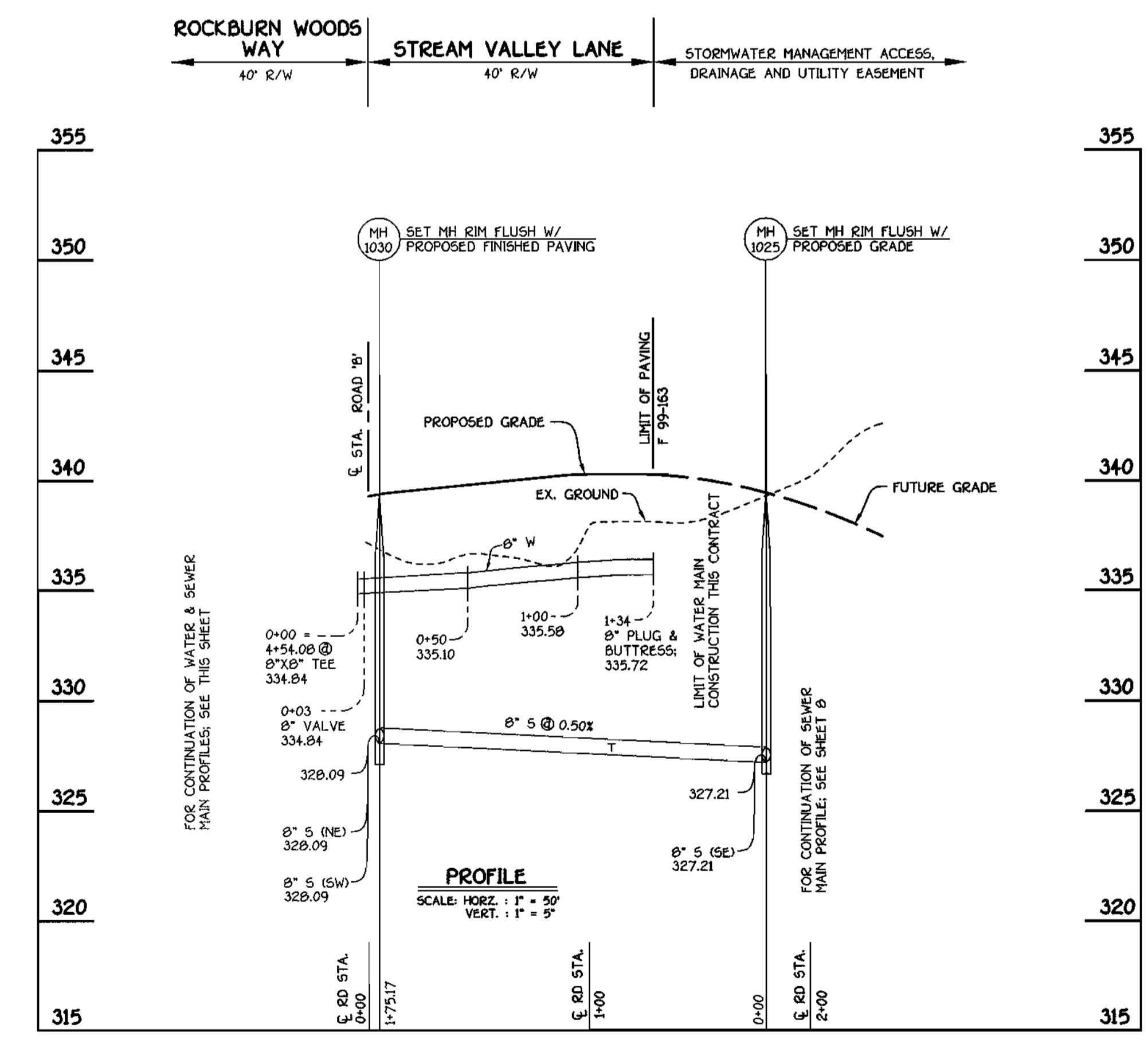
SHEET
 6 OF 9



ROCKBURN WOODS WAY: WATER & SEWER MAINS



WATER & SEWER MAINS FOR LOTS 25 THRU 29



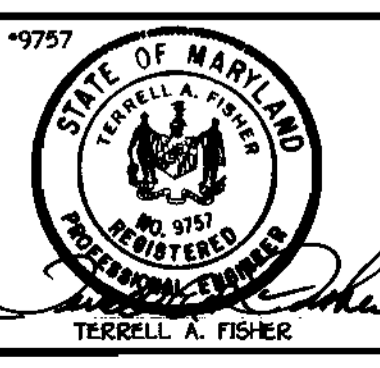
STREAM VALLEY LANE: WATER & SEWER MAINS

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 35
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Deane
 CHIEF, BUREAU OF UTILITIES
 5-5-00
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 5/17/00
 DATE

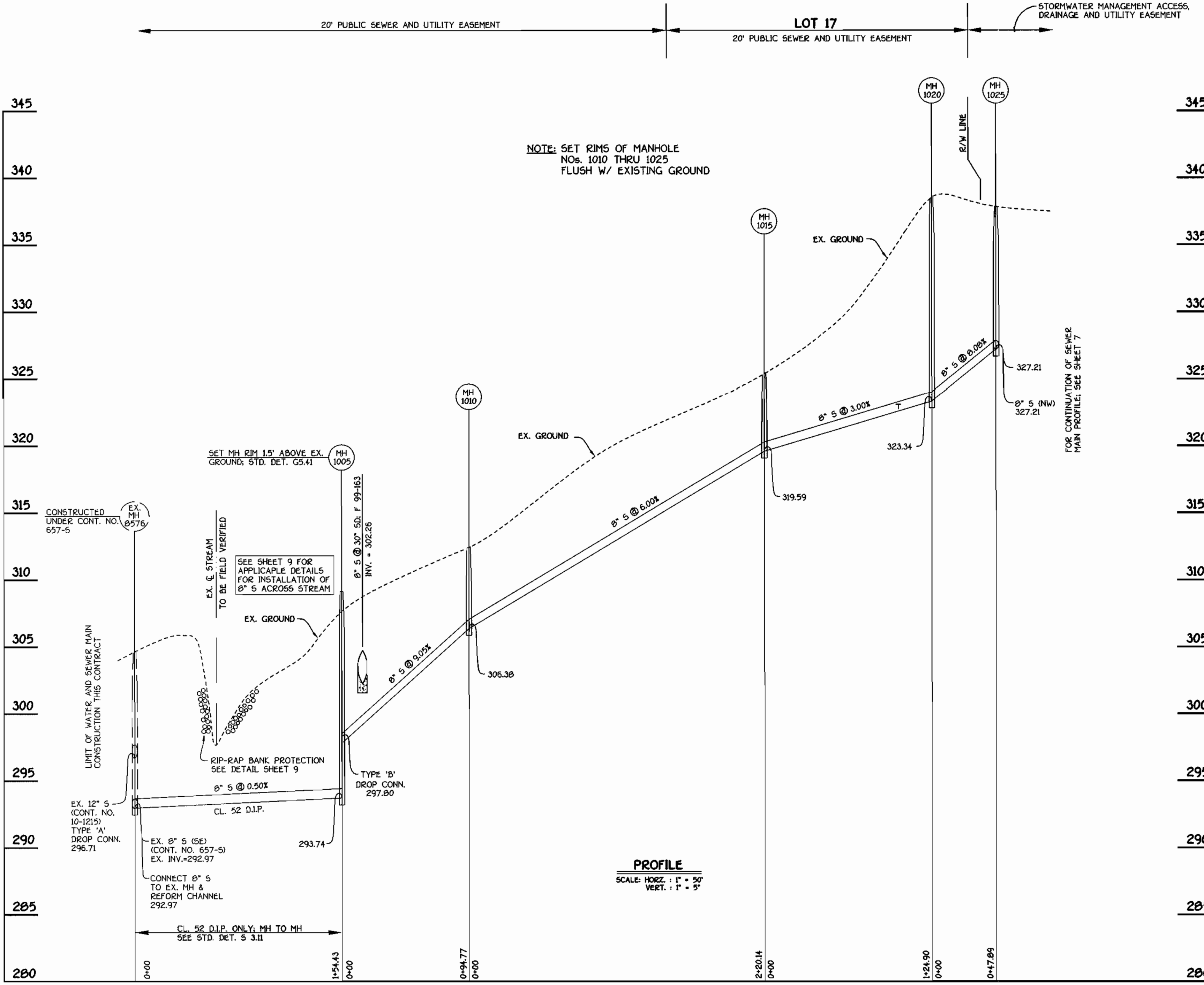
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 BELLESTOWN CITY, MARYLAND 21115
 410.461-2895



DESIGNED BY: M.D.T.
 DRAWN BY: M.D.T.
 CHECKED BY: P.W.L.
 DATE: APRIL, 2000
 BY NO. REVISION

WATER AND SEWER MAINS
 PROFILES
 600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30810
 FILE NAME: G:\30810\WATER\FINAL\5-30810\WATER\PROFILES\PROFILES\ANDC'

ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 7 OF 9



8" SEWER MAIN OUTFALL FROM STREAM VALLEY LANE

NOTE: SET RIMS OF MANHOLE NOS. 1010 THRU 1025 FLUSH W/ EXISTING GROUND

FOR CONTINUATION OF SEWER MAIN PROFILE, SEE SHEET 7

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

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 35
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert D. ...
5-5-00
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
5/17/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
4100 401 - 2855



DESIGNED BY:					
DRAWN BY:					
CHECKED BY:					
DATE:	APRIL, 2000	BY:		NO.:	
		REVISION:		DATE:	

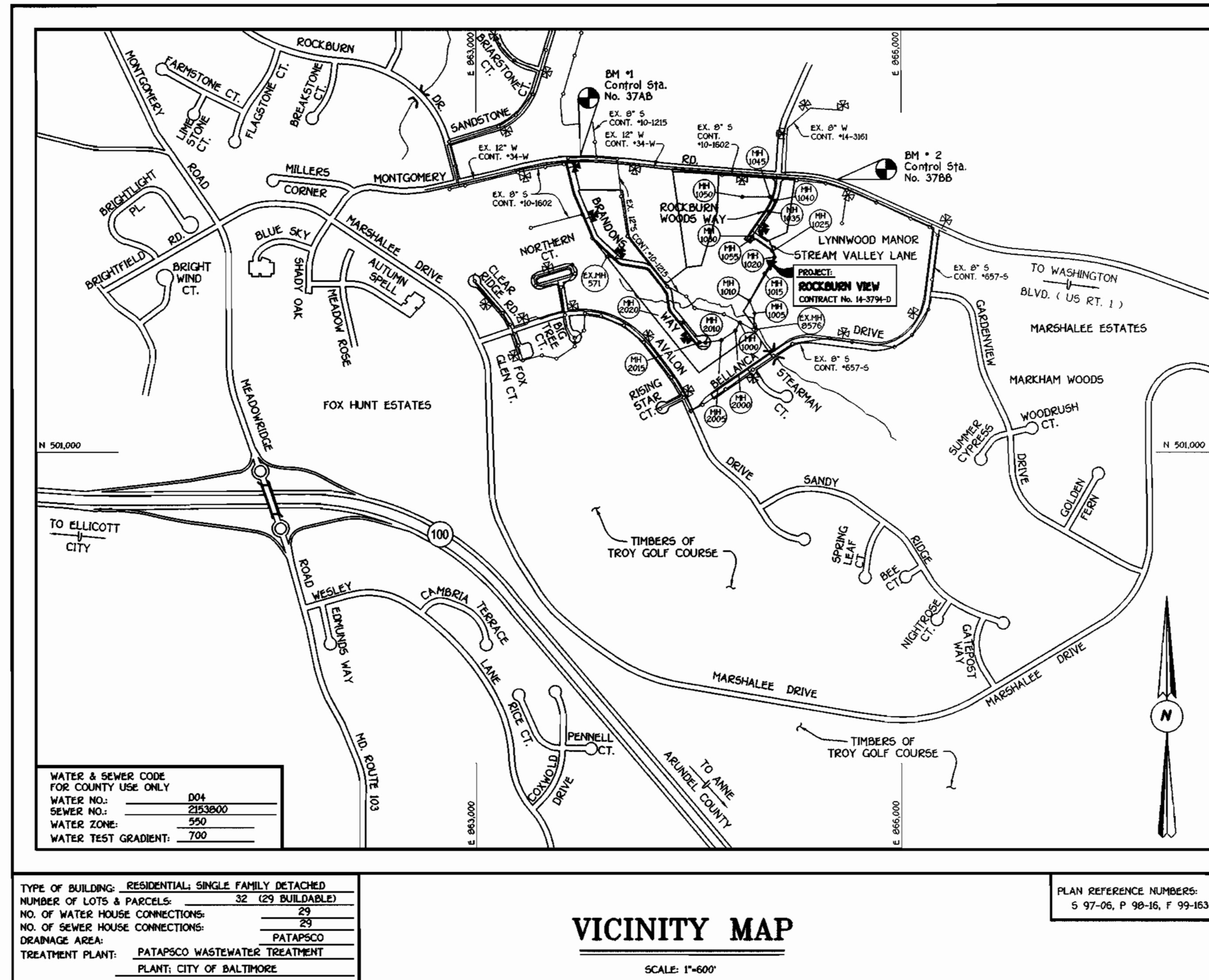
SEWER MAIN PROFILES	
600' SCALE MAP NO. 37	BLOCK NO. 4
F.C.C. WORK ORDER NO. 30610	
FILE NAME: G:\30610\WAS\FINALS\30610SEWOUTFALLRDC\PROFILE	

ROCKBURN VIEW
LOTS 4 THRU 35
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 8 OF 9

ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	1,303.32 L.F.			
8" SEWER (D.I.P.)	633.12 L.F.			
4" SEWER	1,266 L.F.			
4" SEWER (D.I.P.)	142 L.F.			
MANHOLES	15 EACH			
8" WATER	2,329.75 L.F.			
6" WATER	163.99 L.F.			
4" WATER	273 L.F.			
1-1/2" WATER	134 L.F.			
1" WATER	692 L.F.			
FIRE HYDRANTS	5 EACH			
8" x 8" TEE	1 EACH			
8" x 6" TEE	5 EACH			
8" x 4" TEE	1 EACH			
8" VALVE	2 EACH			
6" VALVE	5 EACH			
4" VALVE	1 EACH			
8"-1/8" H.B.	2 EACH			
8"-1/16" H.B.	4 EACH			
8"-1/32" H.B.	3 EACH			
4"-1/32" H.B.	1 EACH			
8" PLUG & BUTTRESS	2 EACH			
6" PLUG & BUTTRESS	1 EACH			
4" PLUG & BUTTRESS	1 EACH			
12" x 8" TAPPING SLEEVE & VALVE	2 EACH			
OUTSIDE METER SETTING	2 EACH			
8" x 6" REDUCER	1 EACH			

NAME OF UTILITY CONTRACTOR: _____
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: _____



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 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 - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 950-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - (410) 797-9068
 - M&E UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - (410) 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 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 5.52.
- 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.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 (W11 AND W213). 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.

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 A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL 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."

Paul W. Hurd FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER 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."

M. McCann 5/13/00
 SIGNATURE OF ENGINEER DATE

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

Chad Simon / GS. 5/15/00
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED: *[Signature]* 5/15/00
 HOWARD COUNTY 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 ON F99 - 153.

Paul W. Hurd FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER DATE

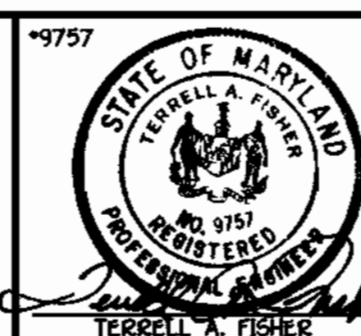
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Robert Berger 5-5-00
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 5/17/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 861-2955



DESIGNED BY:	M.D.T.
DRAWN BY:	J.E.P./M.D.T.
CHECKED BY:	P.W.C.
DATE:	APRIL, 2000
BY:	NO.
REVISION:	

TITLE SHEET

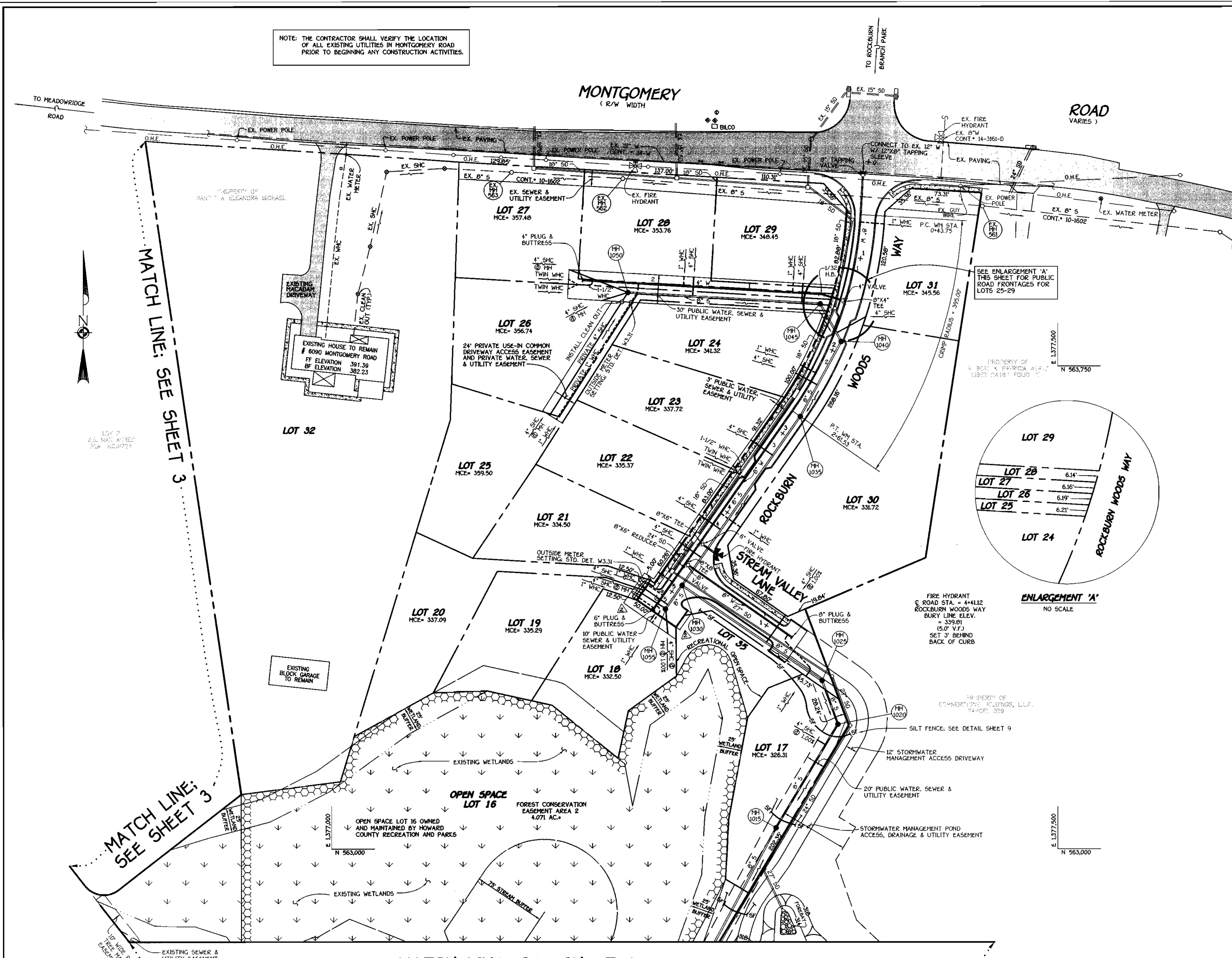
600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30680
 FILE NAME: G/30680/WAS/WATSEWFINALS/TITLE SHEET

ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

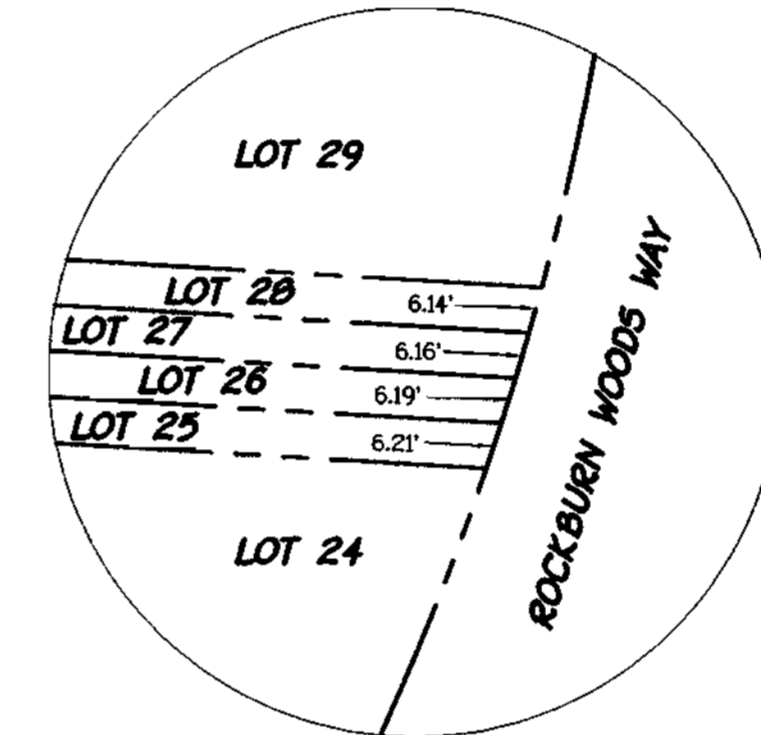
SCALE AS SHOWN
 SHEET 1 OF 9

CONTRACT NO. 14-3794-D
 ROCKBURN VIEW
 LOTS 4 THRU 35
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN MONTGOMERY ROAD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



SEE ENLARGEMENT 'A' THIS SHEET FOR PUBLIC ROAD FRONTAGES FOR LOTS 25-29



ENLARGEMENT 'A' NO SCALE

SHC INVERT • PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+00 LT.	MH 1015 TO MH 1020 17 (SHC @ 1.000)	322.86
0+70 RT.	MH 1025 TO MH 1030 30 (SHC @ 1.000)	326.07
0+35 LT.	MH 1030 TO MH 1035 21	329.70
0+70 LT.	22	330.57
1+64 LT.	23	332.92
0+37 LT.	MH 1035 TO MH 1040 24	336.52
0+10 RT.	MH 1040 TO MH 1045 31	340.66
0+19 RT.	MH 1045 TO MH 1050 29	343.35
1+32 RT.	28	348.66
⊙ MH 1050 RT.	27 (SHC @ MH)	352.88
⊙ MH 1050 CT.	26 (SHC @ MH)	352.14
⊙ MH 1050 LT.	25 (SHC @ MH)	354.60
0+25 RT.	MH 1030 TO MH 1055 20	343.45
⊙ MH 1055 RT.	19 (SHC @ MH)	329.29
⊙ MH 1055 LT.	18 (SHC @ MH @ 1.000)	328.80
0+65 LT.	MH 2000 TO MH 2005 13 (TYPE 'B' DHC)	325.20
0+65 RT.	14 (TYPE 'B' DHC)	325.20
1+00 LT.	MH 2005 TO MH 2010 12 (TYPE 'B' DHC)	333.64
1+00 RT.	15 (TYPE 'B' DHC)	333.94
0+30 LT.	MH 2010 TO MH 2015 11 DHC	333.54
0+53 LT.	MH 2015 TO MH 2020 10 DHC	331.50
⊙ MH 2020 LT.	9 (SHC @ MH)	325.87
⊙ MH 2020 LT.	8 (SHC @ MH); FIRST FLOOR SERVICE ONLY	326.09
2+22 RT.	EX. MH 104 TO EX. MH 571 4 (TYPE 'A' DHC @ 1.000)	345.53
1+27 RT.	EX. MH 571 TO EX. MH 572 34 (SHC @ 1.000)	349.82
1+20 LT.	EX. MH 103 TO EX. MH 104 6	333.09
0+65 RT.	EX. MH 104 TO EX. MH 571 5	341.28

MATCH LINE; SEE SHEET 4

PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-5-00

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
5/17/00

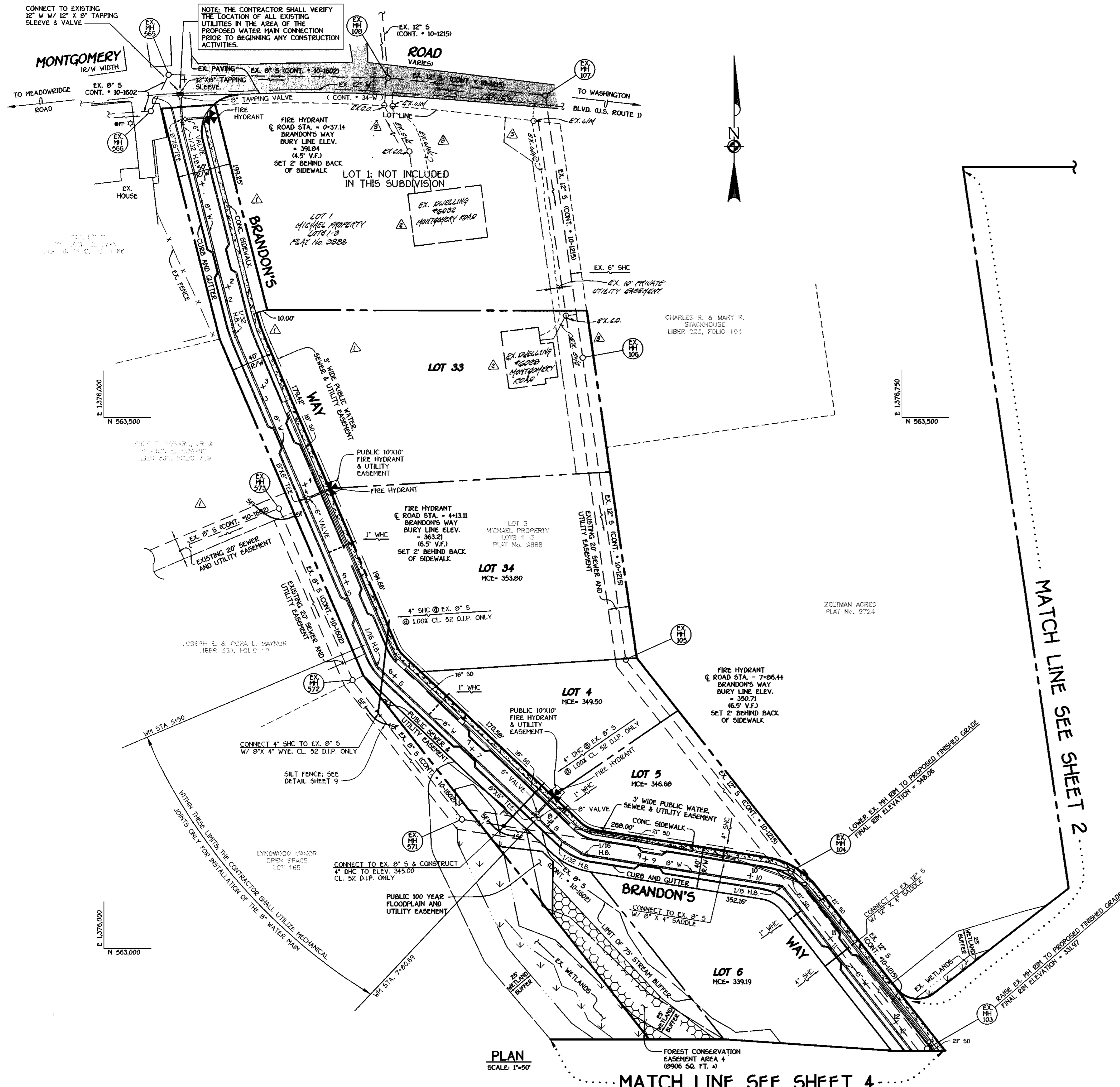
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.K.	
DATE:	APRIL, 2000	
BY NO.		
REVISION		

PLAN VIEW
WATER AND SEWER MAINS
600' SCALE MAP NO. 37 BLOCK NO. 4
F.C.C. WORK ORDER NO. 30610
FILE NAME: G:\30610\WSS\WATSEWFINAL\PLANSHITZ

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 35
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 2 OF 9



WATER MAIN TABULATION CHART

WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
BRANDON'S WAY			
0+00	12" X 8" TAPPING SLEEVE	0+12.92	5.00' RT.
0+03	8" TAPPING VALVE	0+15.92	5.00' RT.
0+24.47	8" X 6" TEE	0+37.34	5.24' RT.
0+32.55	1/32 H.B.	0+44.98	5.79' RT.
2+32.86	1/32 H.B.	2+44.40	5.56' RT.
4+02.00	8" X 6" TEE	4+13.11	5.00' RT.
5+72.80	1/16 H.B.	5+82.72	6.10' RT.
7+77.89	8" X 6" TEE	7+86.44	5.00' RT.
7+80.69	8" VALVE	7+89.44	5.00' RT.
8+12.54	1/32 H.B.	8+21.29	5.00' RT.
8+36.97	1/16 H.B.	8+43.54	5.66' RT.
10+25.82	1/8 H.B.	10+32.50	1.67' RT.
12+44.74	1/16 H.B.	12+53.15	4.40' RT.
12+58.30	P.C. (CRIMP RADIUS=300')	12+68.35	6.00' RT.
13+09.41	P.T. (CRIMP RADIUS=300')	13+19.73	3.90' RT.
13+63.41	1/16 H.B.	13+73.33	5.33' RT.
13+66.41	P.C. (CRIMP RADIUS=300')	13+75.95	4.51' RT.
14+28.48	P.T. (CRIMP RADIUS=300')	14+36.52	5.00' RT.
15+92.92	8" X 6" TEE	16+00.97	5.00' RT.
16+87.77	1/8 H.B.	16+85.92	23.41' RT.
17+37.67	8" PLUG & BUTTRESS	L.P. STA.	5.79' RT.
ROCKBURN WOODS WAY			
0+00	12" X 8" TAPPING SLEEVE	0+10.80	5.00' RT.
0+03	8" TAPPING VALVE	0+13.80	5.00' RT.
0+43.75	P.C. (CRIMP RADIUS=300')	0+54.64	5.00' RT.
1+35.07	8" X 4" TEE	1+47.01	5.00' RT.
2+61.53	P.T. (CRIMP RADIUS=300')	2+75.17	5.00' RT.
4+28.08	8" X 6" TEE	4+41.72	5.00' RT.
4+54.08	8" X 8" TEE	4+67.72	5.00' RT.
4+57.08	8" X 6" REDUCER	4+70.72	5.00' RT.
5+12.46	6" PLUG & BUTTRESS	5+26.10	5.00' RT.
STREAM VALLEY LANE			
0+00	8" X 8" TEE	-0+05	5.00' LT.
0+03	8" VALVE	-0+02	5.00' LT.
1+34	8" PLUG & BUTTRESS	1+29	5.00' LT.
ACCESS DRIVE			
0+00	8" X 4" TEE	1+47.01	5.00' RT.
0+03	4" VALVE	1+47.01	8.00' RT.
0+25.48	1/32 H.B.	1+47.01	30.48' RT.
2+47.53	4" PLUG & BUTTRESS	---	---

MANHOLE TABULATION CHART

NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1000	---	---	---	312.00 *
2000	---	---	---	314.59 **
2005	---	---	---	330.00 **
2010	IN CUL-DE-SAC; BRANDON'S WAY	---	---	345.60
2015	IN CUL-DE-SAC; BRANDON'S WAY	---	---	342.77
2020	14+89.54; BRANDON'S WAY	5' LT.	+5.12%	332.70
1005	---	---	---	309.00 *
1010	---	---	---	312.70 **
1015	---	---	---	325.40 **
1020	---	---	---	330.50 **
1025	---	---	---	337.70 **
1030	4+88.61; ROCKBURN WOODS WAY	5' LT.	+1.28%	339.63
1035	2+75.17; ROCKBURN WOODS WAY	5' LT.	-6.08%	344.65
1040	1+87.86; ROCKBURN WOODS WAY	5' LT.	-9.92%	351.93
1045	---	---	---	352.00 **
1050	---	---	---	362.55 **
1055	5+18.18; ROCKBURN WOODS WAY	5' LT.	+1.28%	340.01

* SET RIM 1.5' ABOVE EXISTING GROUND
 ** SET RIM FLUSH W/ EXISTING OR PROPOSED FINISHED GRADE

PLAN
SCALE: 1"=50'

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 2

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Benjamin
CHIEF, BUREAU OF UTILITIES

5-5-00
DATE

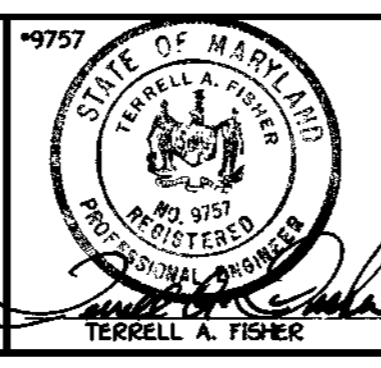
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael D. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

5/17/00
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 931-2292



DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.L.
DATE: APRIL, 2000

BY NO. REVISION DATE

1. SHOW EXISTING OPEN UTILITIES TO LOTS 14 & 33 08/14/00
 2. SHOW EXISTING UTILITIES ON LOTS 14 & 33 08/14/00
 3. DELETE 5/4", 1/4", & 3/8" SERVICES TO LOTS PREVIOUSLY PROVIDED 08/14/00

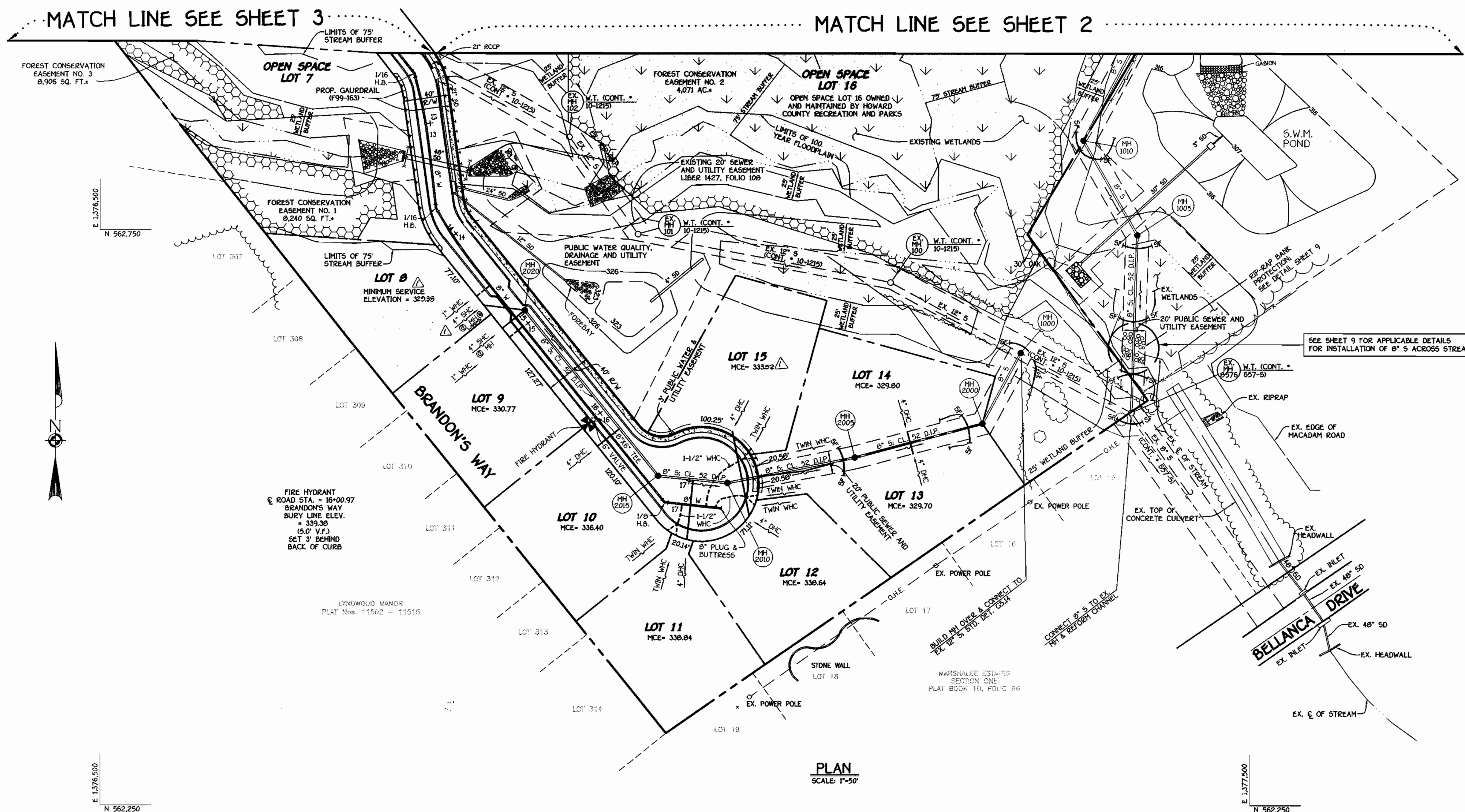
PLAN VIEW
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30510
 FILE NAME: G:\30510\WAS\WATSEWFINAL\PLAN\PLANS1

ROCKBURN VIEW
 LOTS 4 THRU 35
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 9

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 35
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



NOTE: SEE SHEET 9 FOR:
 A. SEQUENCE OF CONSTRUCTION
 B. EROSION & SEDIMENT CONTROL NOTES
 C. STANDARDS & SPECIFICATIONS FOR VEGETATIVE STABILIZATION
 D. TEMPORARY & PERMANENT SEEDING NOTES
 E. STANDARDS & SPECIFICATIONS FOR TOPSOIL
 F. CONDITIONS & MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS

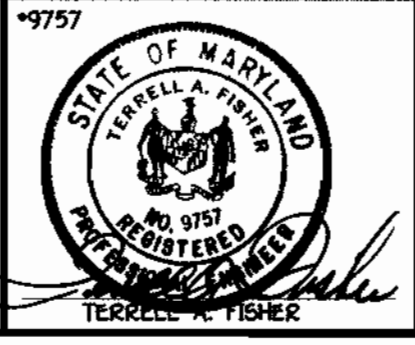
PLAN
 SCALE: 1"=50'

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Design
 CHIEF, BUREAU OF UTILITIES
 5-5-00
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 5/17/00
 DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLSWORTH CITY, MARYLAND 21042
 (410) 481-2000

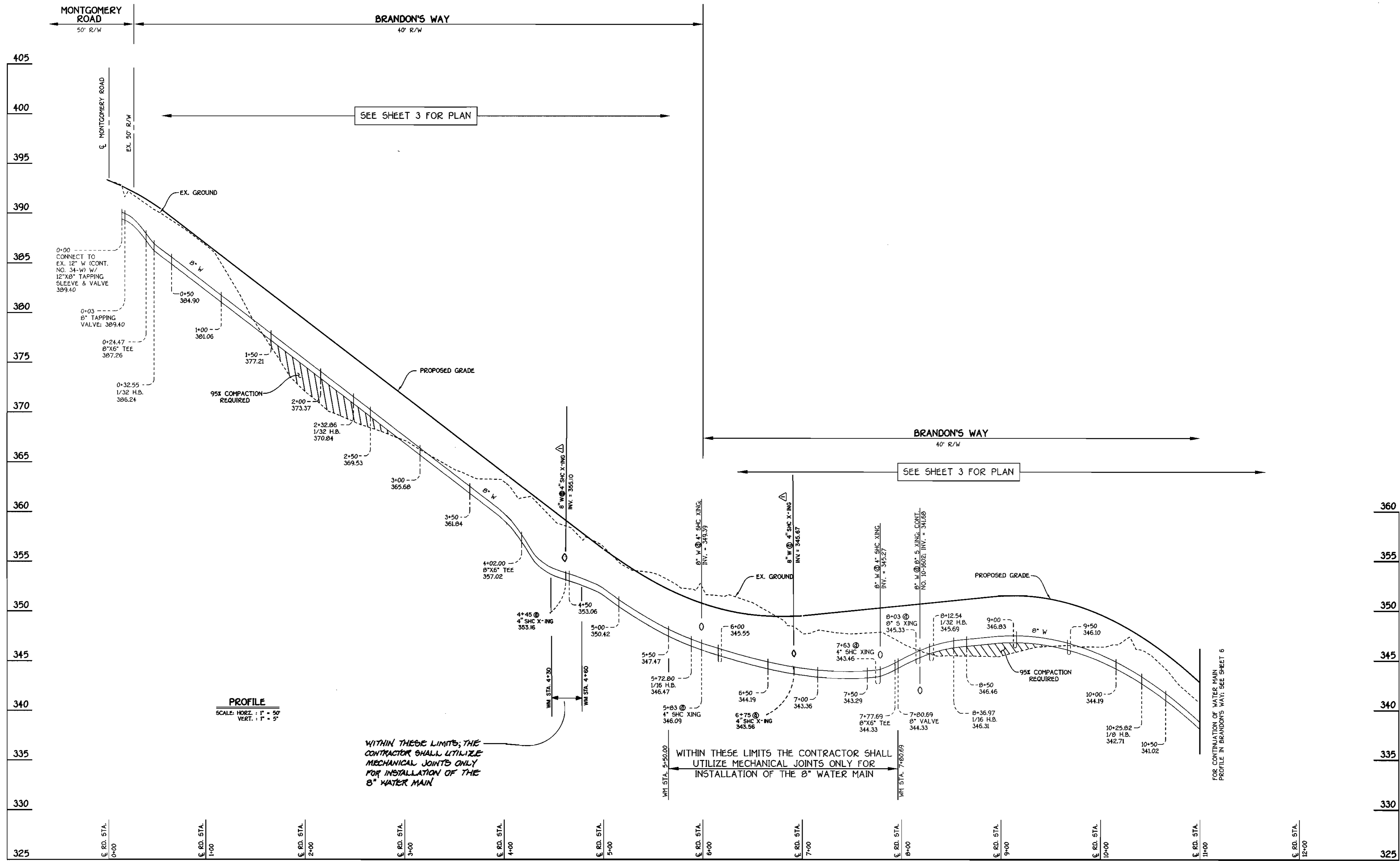


DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.K.	
DATE:	APRIL, 2000	
BY NO.		
REVISION		

PLAN VIEW WATER AND SEWER MAINS	
600' SCALE MAP NO. 37	BLOCK NO. 4
F.C.C. WORK ORDER NO. 30810	
FILE NAME:	G:\30810\WAS\WATSEWTR\PLANS\PLANSHT4

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 of 9



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

WITHIN THESE LIMITS; THE CONTRACTOR SHALL UTILIZE MECHANICAL JOINTS ONLY FOR INSTALLATION OF THE 8" WATER MAIN

WITHIN THESE LIMITS THE CONTRACTOR SHALL UTILIZE MECHANICAL JOINTS ONLY FOR INSTALLATION OF THE 8" WATER MAIN

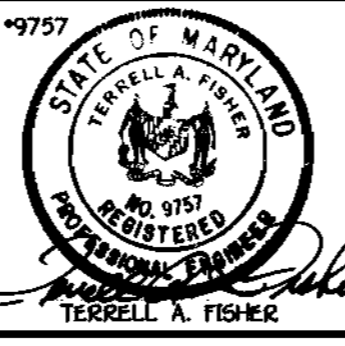
BRANDON'S WAY: 8" WATER MAIN

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 39
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert L. Berman
CHIEF, BUREAU OF UTILITIES
5-5-00
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
William J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
5/17/00
DATE

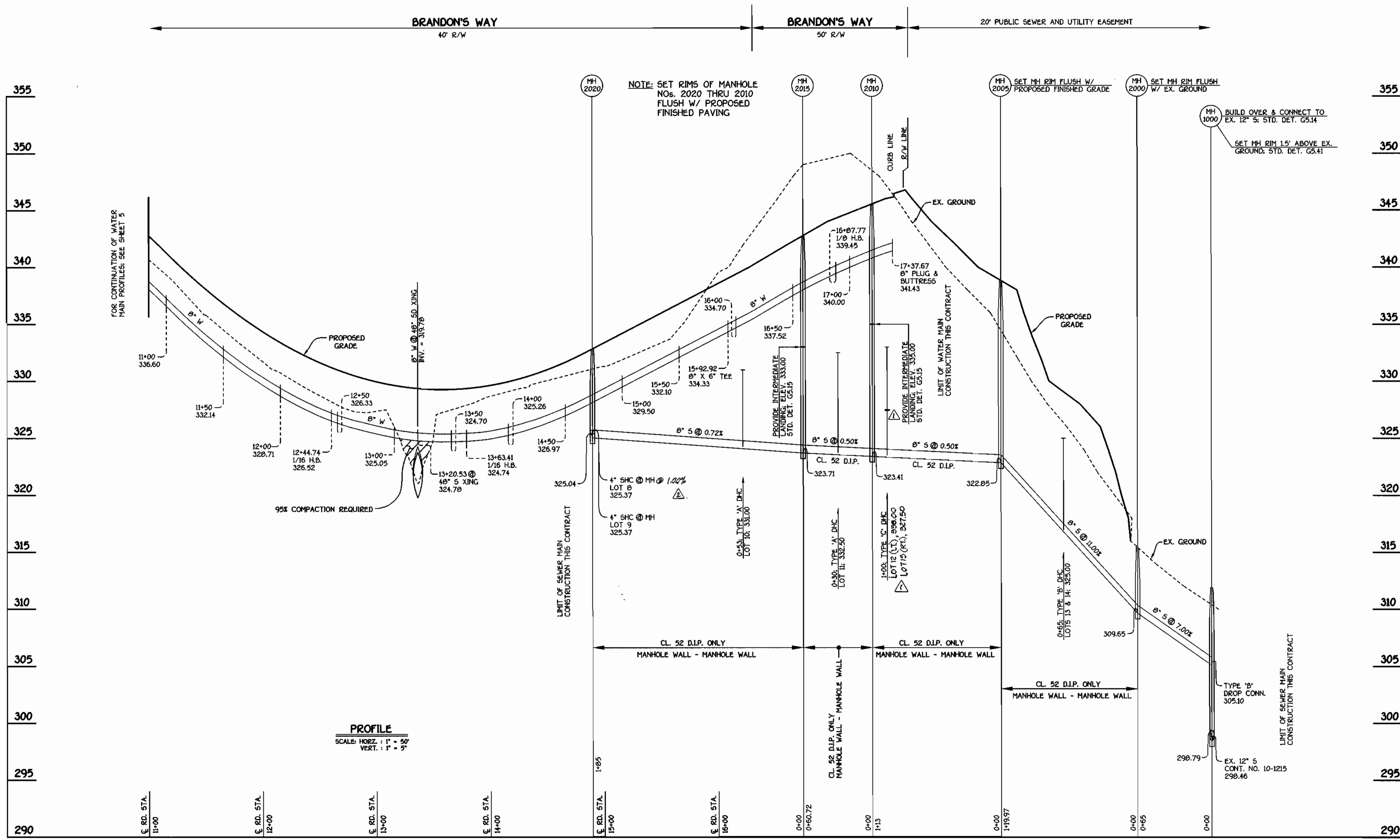
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2255



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	APRIL, 2000
BY:	J.C.L.
NO.:	1
REVISION:	Addition of connections for lots 36-39 & future lots
DATE:	11-28-00

WATER AND SEWER MAINS PROFILES	
600' SCALE MAP NO. 37	BLOCK NO. 4
F.C.C. WORK ORDER NO. 30912	
FILE NAME: G:\30912\W&S\PROFILES\30912BRWAYW&SMAINSPROFILES...	

ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 5 OF 9



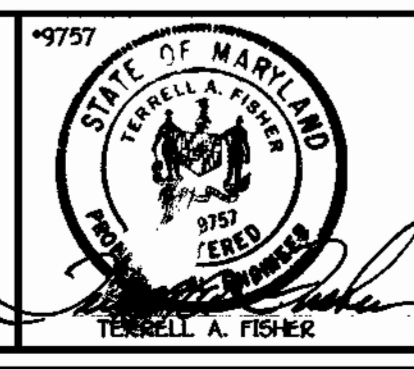
BRANDON'S WAY: 8" WATER AND SEWER MAINS

CONTRACT NO. 14-3769-D
ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 5-5-00

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 5/10/00

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2555

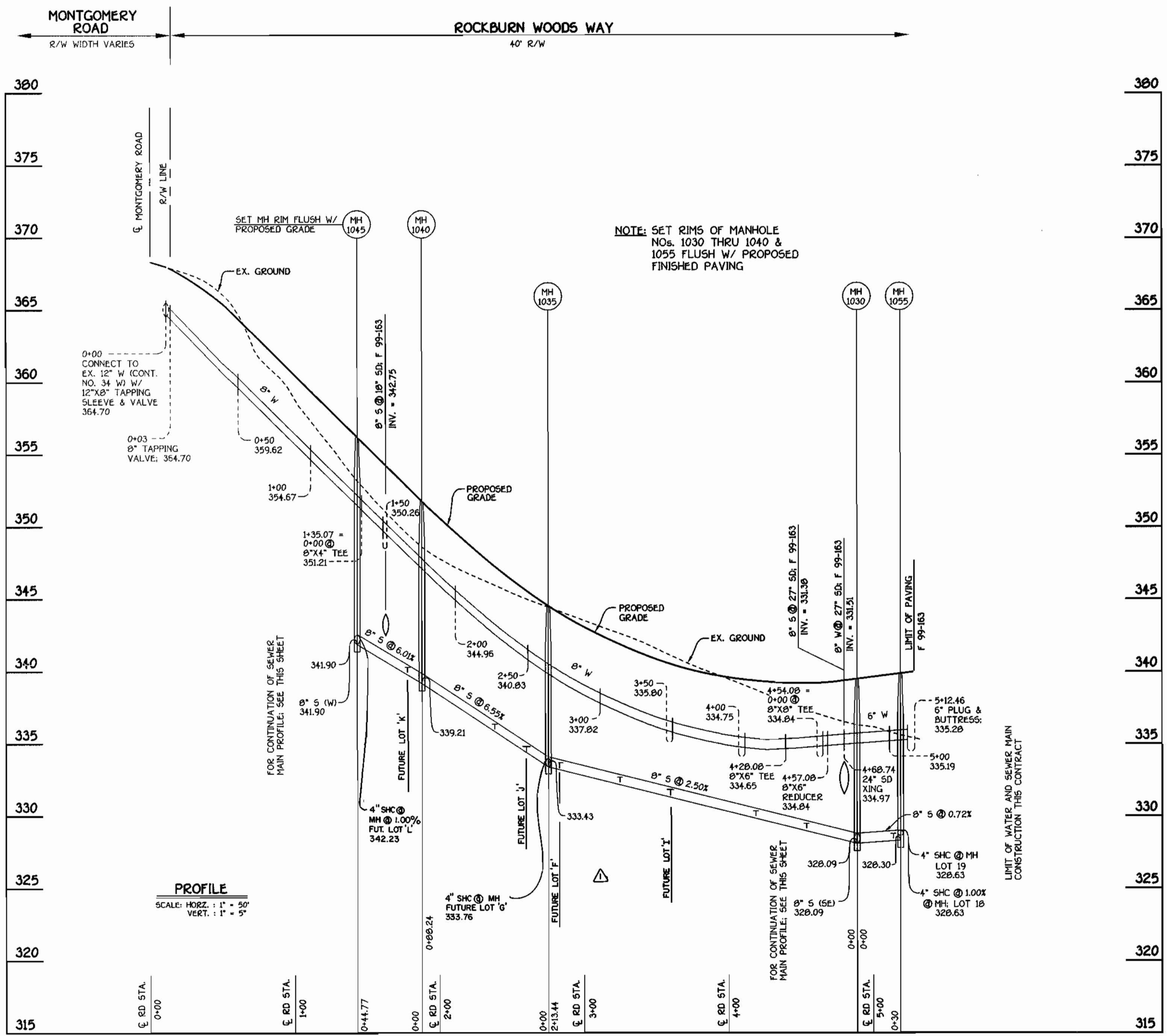


DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.K.	
DATE:	APRIL, 2000	
BY NO.		
REVISION		
1	REVISE NO. OF LOTS IN CONTRACT TITLE	5-2-01
2	REVISE 6" TO 8" TO 1.00%	5-2-01
3	REVISE 0.4% ELEVATIONS & REVISE TO TYPE 'C' D.I.P.	5-3-01

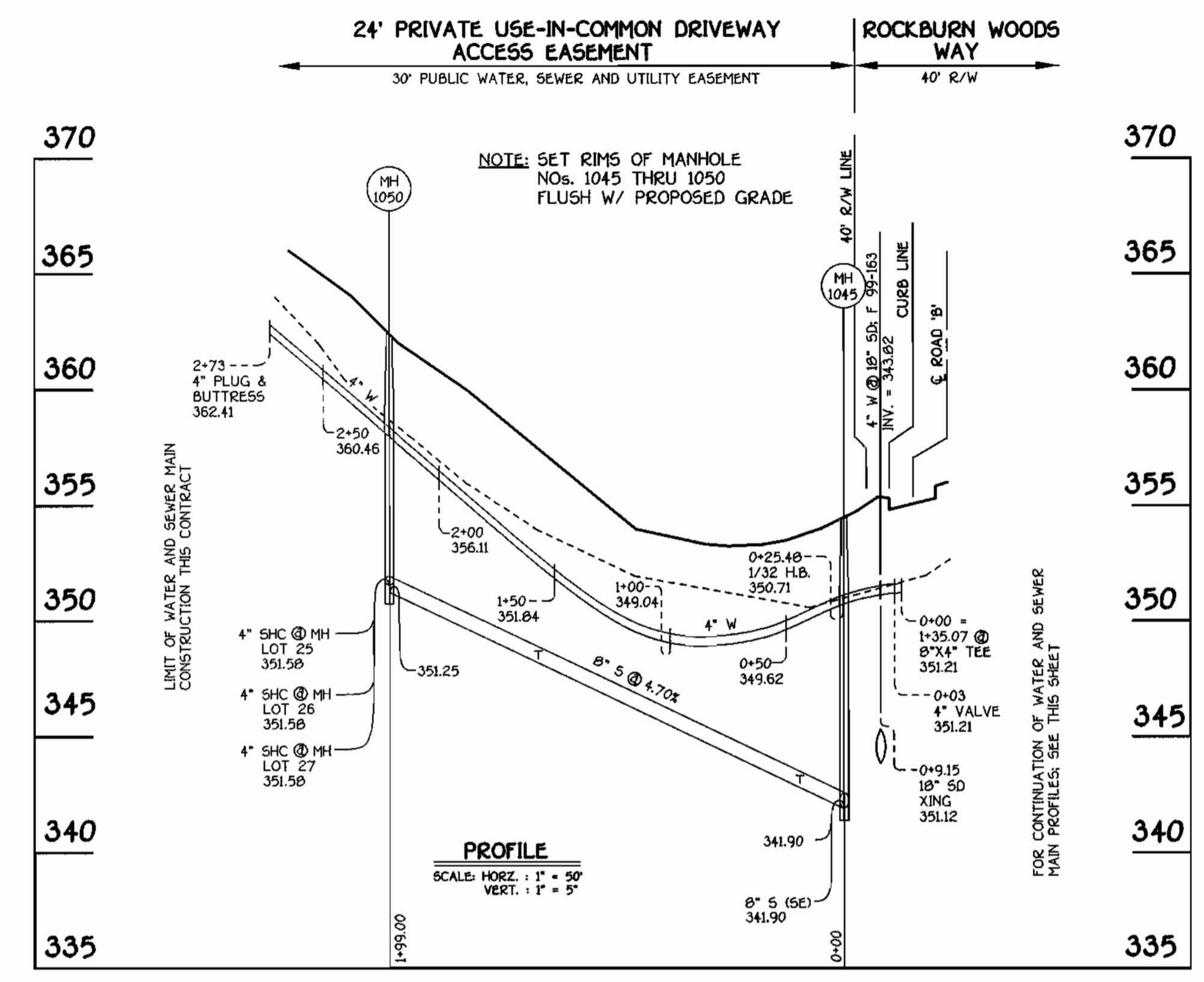
WATER AND SEWER MAINS PROFILES	
600' SCALE MAP NO.	37
BLOCK NO.	4
F.C.C. WORK ORDER NO.	30510
FILE NAME	G:\30510\WAS\FINAL\5\30510BRWAY\WATPROF\SEWOUTALL

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

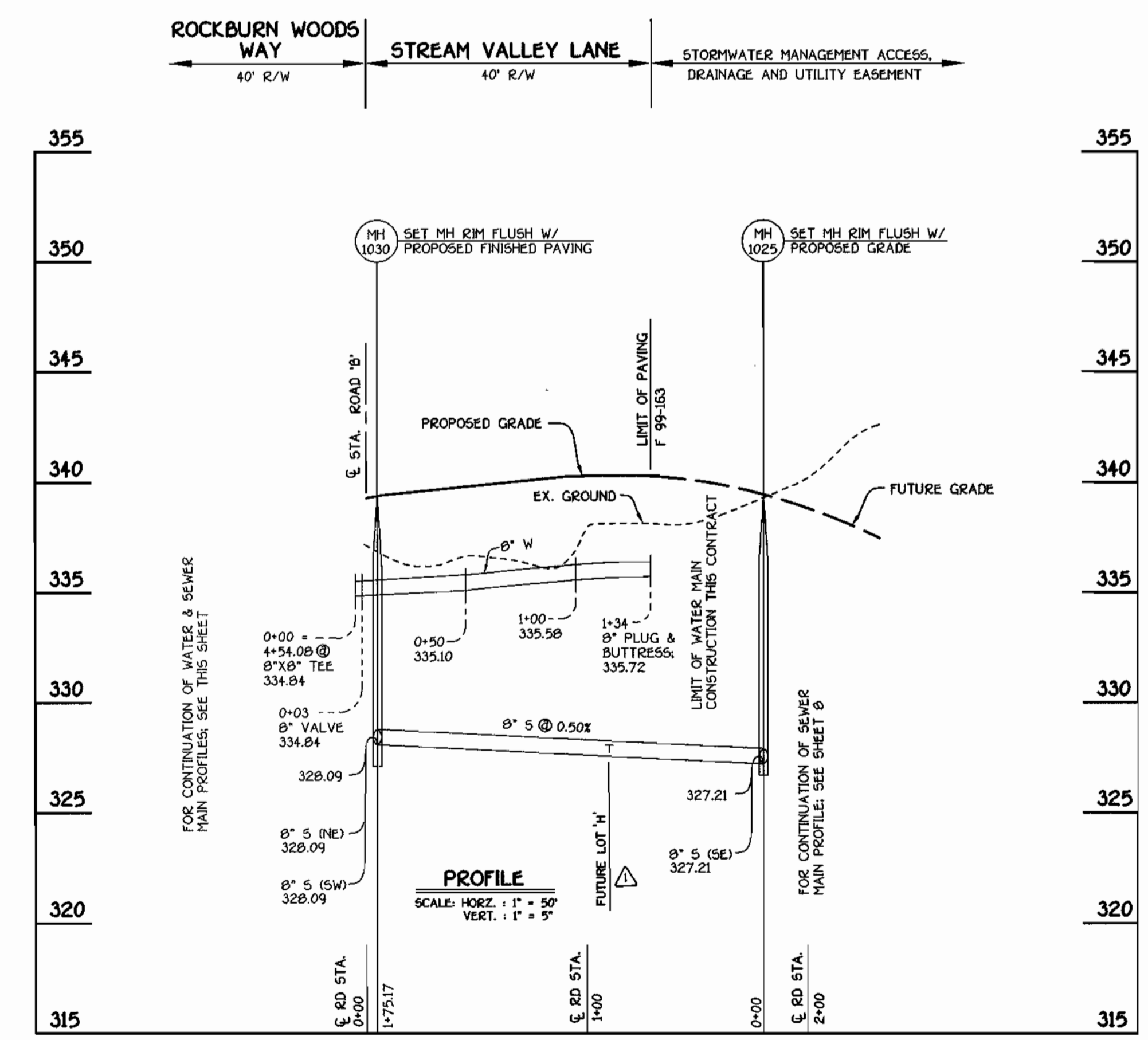
SCALE AS SHOWN
 SHEET 6 OF 9



ROCKBURN WOODS WAY: WATER & SEWER MAINS



WATER & SEWER MAINS FOR LOTS 25 THRU 29



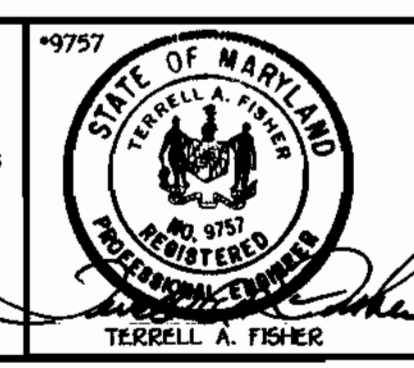
STREAM VALLEY LANE: WATER & SEWER MAINS

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 39
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert W. Benjamin
CHIEF, BUREAU OF UTILITIES
5-5-00
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
William J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
5/17/00
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21117
410-661-2955

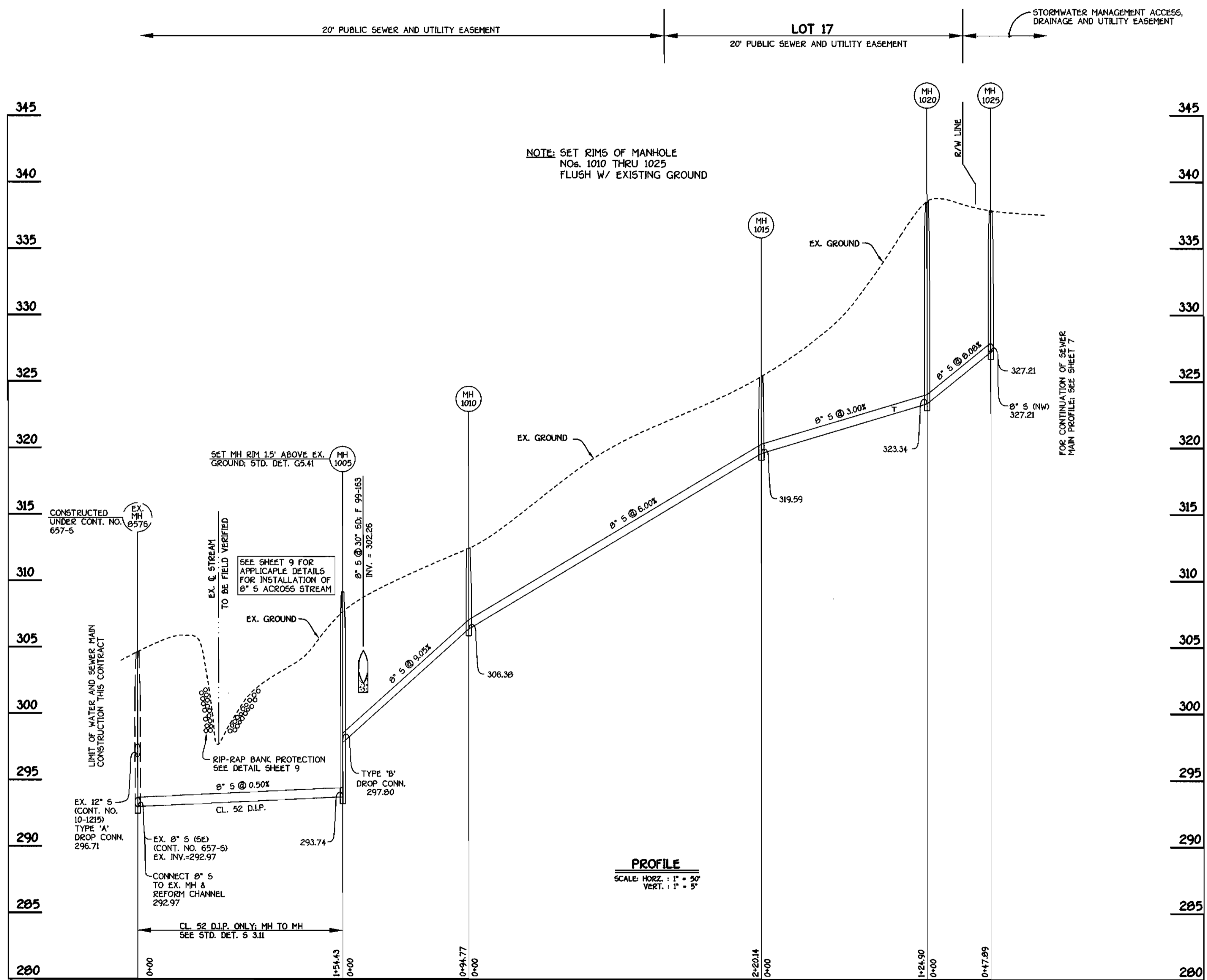


DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.L.
DATE:	APRIL, 2000
BY:	NO.
REVISION:	

WATER AND SEWER MAINS PROFILES	
60' SCALE MAP NO. 37	BLOCK NO. 4
F.C.C. WORK ORDER NO. 30610	
FILE NAME:	G:\30610\WATER\WATER\WATER\PROFILES\PROFILES.WXD

ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 7 OF 9



8" SEWER MAIN OUTFALL FROM STREAM VALLEY LANE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert D. ...
5-5-00
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

...
5/17/00
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 3872 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 20642
4100 401 - 2055



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	APRIL, 2000
BY:	NO.

SEWER MAIN PROFILES

600' SCALE MAP NO. 37 BLOCK NO. 4

F.C.C. WORK ORDER NO. 30610

FILE NAME: G:\30610\WBS\FINALS\30610SEWOUTFALLRDC\PROFILE

ROCKBURN VIEW
LOTS 4 THRU 39
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

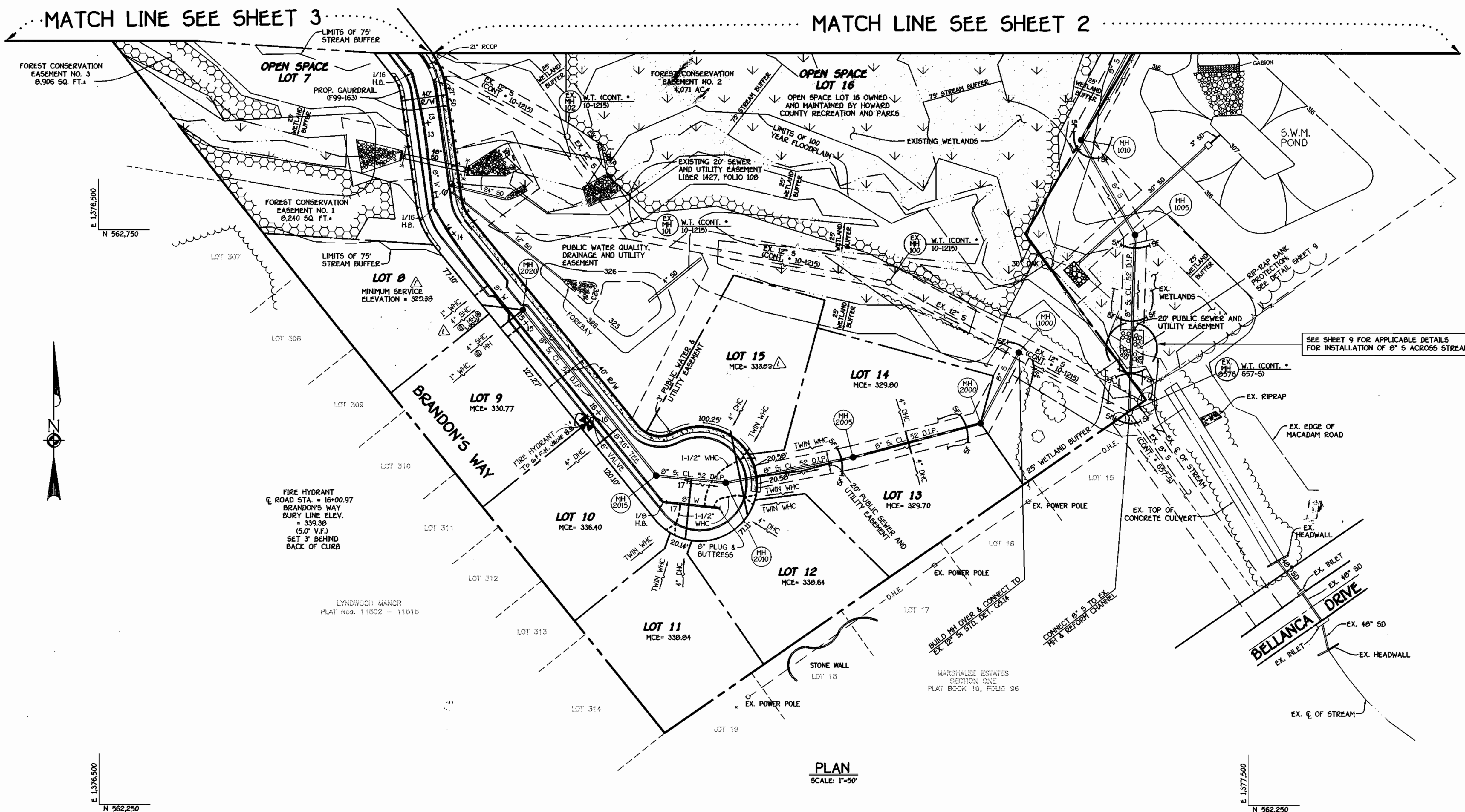
SHEET 8 of 9

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 39
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SEWER ASBUILT FIELD MEASUREMENTS

LOT #	FROM	TO	DISTANCE (FT)	REMARKS
5	S.H.C.	EX SH# 104	67.5	
5	"	M# 8	16.0	
6	"	M# 6	88.0	
6	"	EX SH# 105	81.5	
8	"	SH# 2020	28.0	
8	"	I-6	108.0	
9	"	SH# 2020	23.0	
9	"	FIRE HYD.	110.0	
10	"	"	22.5	
10	"	SH# 2015	57.0	
11	"	SH# 2015	62.0	
11	S.H.C.	SH# 2010	58.0	
12	"	SH# 2015	86.5	
12	"	SH# 2010	28.8	
13	"	SH# 2000	71.0	
13	"	SH# 2005	48.5	
14	"	SH# 2000	67.5	
14	"	SH# 2005	56.5	
15	"	SH# 2010	30.5	
15	"	SH# 2015	75.5	
17	"	"		
17	"	SH# 1055	27.0	
18	"	SH# 1030	54.0	
19	S.H.C.	SH# 1055	38.8	
19	"	SH# 1030	40.8	
20	"	SH# 1030	46.0	
20	"	SH# 1055	39.3	
21	"	SH# 1030	48.3	
21	"	FIRE HYD	42.5	
22	"	SH# 1030	72.0	
22	"	FIRE HYD	45.4	
23	"	SH# 1035	58.5	
23	"	I-3	63.5	
24	"	I-3	20.6	
24	"	SH# 1035	48.5	
25	"	LOT 25 W.H.C.	12.5	
25	"	SH# 1050	14.5	
26	"	SH# 1050	20.0	
27	"	LOT 25 W.H.C.	78.5	
27	"	SH# 1050	63.0	
28	"	SH# 1050	70.0	
28	S.H.C.	LOT 25 W.H.C.	68.5	
29	"	SH# 1005	28.5	
29	"	M-4	64.5	
30	"	EX MH 573	88.0	
30	"	FIRE HYD.	57.0	
31	"	I-10	43.0	
37	"	I-9	117.0	
38	"	I-10	87.5	
38	"	I-9	17.0	
39	"	FIRE HYD	15.0	
39	"	FIRE HYD VALVE	32.5	
H	"	M-3	83.0	STORM DRAIN
H	"	F.H.	80.5	UR. COLLECT H.
I	"	F.H.	82.5	NRDR LOT H.
I	"	I' W.H.O.	128.5	
J	"	M# 1040	75.5	
J	"	M# 1035	24.0	
K	S.H.C.	M# 1040	35.0	
K	"	M# 4	31.5	
L	"	M# 1045	65.0	
L	"	M# 4	54.5	

- B. EROSION & SEDIMENT CONTROL NOTES
- C. STANDARDS & SPECIFICATIONS FOR VEGETATIVE STABILIZATION
- D. TEMPORARY & PERMANENT SEEDING NOTES
- E. STANDARDS & SPECIFICATIONS FOR TOPSOIL
- F. CONDITIONS & MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS

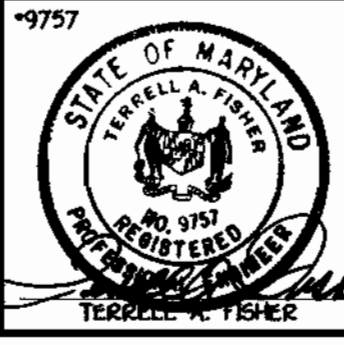


PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.K.	01/14/02
DATE:	APRIL, 2000	01/14/02
BY:	NO.	

PLAN VIEW
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO. 4
F.C.C. WORK ORDER NO. 30910
FILE NAME: G:\30910\WBS\WATSEWER\PLANS\H4

ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

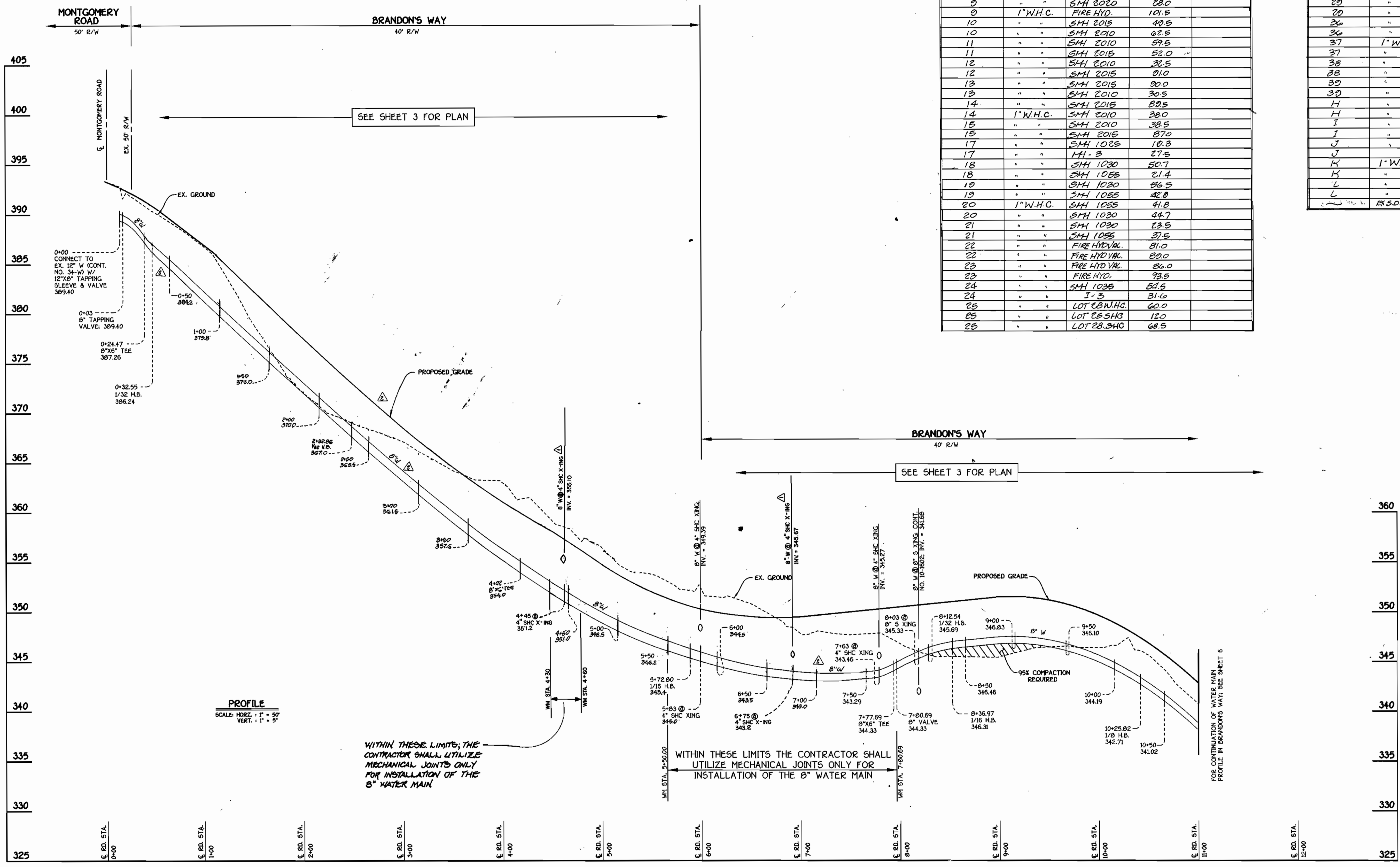
SCALE AS SHOWN
SHEET 4 OF 9

WATER ASBUILT FIELD MEASUREMENTS

LOT #	FROM	TO	DISTANCE (FT)	REMARKS
5	1" W.H.C.	FIRE HYD.	18.4	
5	"	8" W.VALE	23.0	
6	"	EX. SMH 104	46.0	
6	"	MH # 8	78.0	STORM DRAIN
8	"	I-6	100.0	
8	"	SMH 2020	46.5	
9	"	SMH 2020	23.0	
9	1" W.H.C.	FIRE HYD.	101.8	
10	"	SMH 2015	40.5	
10	"	SMH 2010	62.5	
11	"	SMH 2010	59.5	
11	"	SMH 2015	52.0	
12	"	SMH 2010	28.5	
12	"	SMH 2015	91.0	
13	"	SMH 2015	90.0	
13	"	SMH 2010	30.5	
14	"	SMH 2015	89.5	
14	1" W.H.C.	SMH 2010	28.0	
15	"	SMH 2010	38.5	
15	"	SMH 2015	87.0	
17	"	SMH 1025	18.3	
17	"	MH-3	27.5	
18	"	SMH 1030	50.7	
18	"	SMH 1055	21.4	
19	"	SMH 1030	26.5	
19	"	SMH 1055	42.8	
20	1" W.H.C.	SMH 1055	41.8	
20	"	SMH 1030	44.7	
21	"	SMH 1030	23.5	
21	"	SMH 1055	37.5	
22	"	FIRE HYD VAL.	81.0	
22	"	FIRE HYD VAL.	80.0	
23	"	FIRE HYD VAL.	84.0	
23	"	FIRE HYD.	93.5	
24	"	SMH 1035	51.5	
24	"	I-3	31.6	
25	"	LOT 25 W.H.C.	60.0	
25	"	LOT 25 SHG	12.0	
25	"	LOT 25 SHG	68.5	

WATER ASBUILT FIELD MEASUREMENTS

LOT #	FROM	TO	DISTANCE (FT)	REMARKS
26	1" W.H.C.	SMH #1050	61.5	
26	"	LOT 25 W.H.C.	68.0	
27	"	LOT 25 W.H.C.	68.5	
27	"	SMH 1050	61.0	
28	"	SMH 1050	61.0	
28	"	LOT 25 W.H.C.	60.5	
29	"	M-4	49.5	
29	"	SMH 1045	32.0	
30	"	EX. SMH 573	61.0	
30	"	FIRE HYD.	46.0	
37	1" W.H.C.	I-10	58.0	
37	"	FIRE HYD.	119.5	
38	"	I-0	28.5	
38	"	I-10	51.5	
39	"	I-0	49.0	
39	"	FIRE HYD.	63.5	
H	"	INLET MH	50.0	@ LOT 21/22
H	"	F.H. COR.	37.0	N/E COR. H
I	"	VALVE F.H.	123.5	@ CORNER
I	"	I-3	69.0	@ LOT 24
J	"	MH #1040	24.0	
J	"	MH #1035	21.5	
K	1" W.H.C.	MH #4	39.0	
K	"	MH 1045	54.5	
L	"	EX. SANI MH	66.0	@ COR. LOT 29
L	"	EX. S.D. MH	53.0	225' FROM B VALVE
M	"	EX. S.D. MH	20.6	



BRANDON'S WAY: 8" WATER MAIN

CONTRACT NO. 14-3794-D
 ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 5-5-00

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 5/17/00

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 W. 10th St., Suite 200
 Ellicott City, Maryland 21041

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 TERRILL A. FISHER

DESIGNED BY: M.D.T.
 DRAWN BY: M.D.T.
 CHECKED BY: P.W.K.
 DATE: APRIL 2000

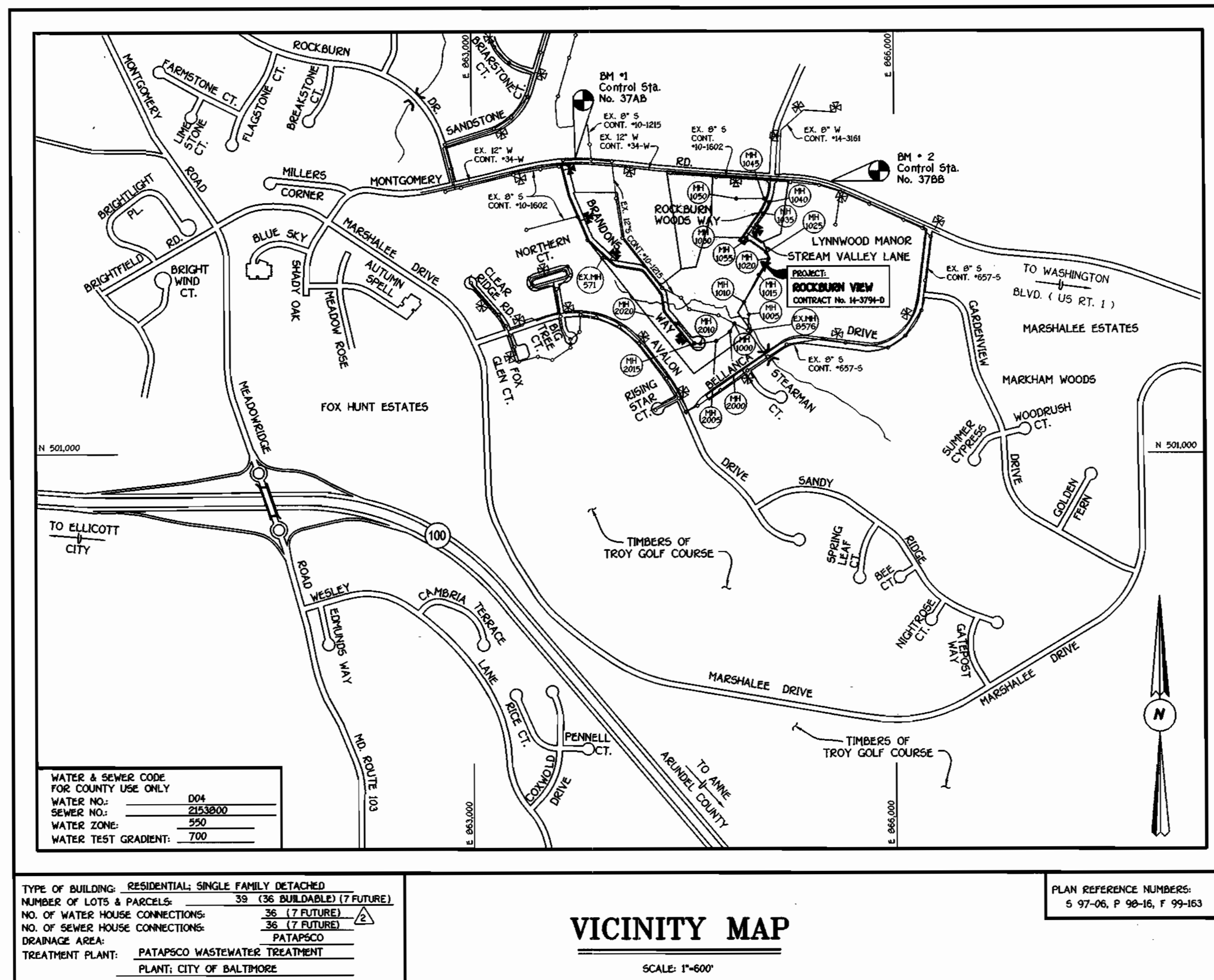
ASBUILT DATA ADDED TO PLAN
 REVISE ROAD GRADE & SW PROFILE, W/ 0.50' TO 7+00'
 Addition of connections for lots 36-39 & future lots

WATER AND SEWER MAINS PROFILES
 600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30910
 FILE NAME: G:\30910\WATER\WATER\30910\WATER\WATER MAINS PROFILES

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 5 OF 9

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" SEWER	1,303.32 L.F.	1,310 L.F.	SDR 35 PVC	J.M. MANUF.
8" SEWER (D.I.P.)	633.12 L.F.	556 L.F.	TYTON JOINT	GRIFFIN PIPE CO.
4" SEWER	1,397 L.F.	1,397 L.F.	SDR 35 PVC	J.M. MANUF.
4" SEWER (D.I.P.)	286 L.F.	275 L.F.	TYTON JOINT	GRIFFIN PIPE CO.
MANHOLES	15 EACH	15EA		
8" WATER	2,328.75 L.F.	2,300 L.F.	TYTON JOINT	GRIFFIN PIPE CO.
8" WATER	163.89 L.F.	170 L.F.		GRIFFIN PIPE CO.
4" WATER	273 L.F.	273 L.F.		GRIFFIN PIPE CO.
1/2" WATER	134 L.F.	130 L.F.	TYPE K COPPER	READING TUBE
1/2" WATER	813 L.F.	810 L.F.	TYPE K COPPER	READING TUBE
FIRE HYDRANTS	5 EACH	5EA	M 230 BRONZE	MOELLER CO.
8" x 8" TEE	1 EACH	1EA	M.J. TEE	UNION FOUNDRY
8" x 4" TEE	5 EACH	5EA	M.J. HYD TEE	UNION FOUNDRY
8" x 4" TEE	1 EACH	1EA	M.J. TEE	UNION FOUNDRY
8" VALVE	2 EACH	2EA	RES. WEDGEGATE	MOELLER CO.
8" VALVE	5 EACH	5EA		
4" VALVE	1 EACH	1EA		
8"-1/8 H.B.	2 EACH	2EA	M.J. BEND	UNION FOUNDRY
8"-1/8 H.B.	4 EACH	4EA		
8"-1/32 H.B.	4 EACH	4EA		
4"-1/32 H.B.	1 EACH	1EA		
8" PLUG & BUTTRESS	2 EACH	2EA	M.J. CAP	UNION FOUNDRY
6" PLUG & BUTTRESS	1 EACH	1EA	M.J. CAP	UNION FOUNDRY
4" PLUG & BUTTRESS	1 EACH	1EA		
12" x 8" TAPPING SLEEVE & VALVE	2 EACH	2EA	H 304 STAINLESS STEEL	MOELLER CO.
OUTSIDE METER SETTING	2 EACH	2EA	1" x 3/4" ANG 2-3/4" x 3/4" METER	FORD METER CO.
8" x 6" REDUCER	1 EACH	1EA	M.J.	UNION FOUNDRY

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



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.C.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 (991 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 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 - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - (410) 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - (410) 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 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.A. 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.
- HOUSES 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 G5.51.
- 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 TREES SHALL BE STRAPPED TO TREES.
- 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 (W111 AND W121). 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 ANMA 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.

DEVELOPER'S CERTIFICATION

I 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 A DEPARTMENT OF THE ENVIRONMENT TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL 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.

Signature of Developer: *[Signature]* FOR: CORNERSTONE HOLDINGS LLC. 05/03/00
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.

Signature of Engineer: *[Signature]* 5/3/00
DATE

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

Signature: *[Signature]* 5/15/00
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Signature: *[Signature]* 5/15/00
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 ON 199 - 153.

Signature of Developer: *[Signature]* FOR: CORNERSTONE HOLDINGS LLC. 05/03/00
DATE

CONTRACT No. 14-3794-D

ROCKBURN VIEW

LOTS 4 THRU 39

WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY MONUMENT NO. 37AB
ELEV. = 394.74; DESCRIPTION: STAMPED CONC. MONUMENT * SURFACE APPROX. 9' SOUTH OF EDGE OF E.B.L. OF MONTGOMERY ROAD AND 64' WEST OF CENTERLINE OF DRIVEWAY FOR HOUSE #6028

B.M.#2 - HOWARD COUNTY MONUMENT NO. 37BB
ELEV. = 373.83; DESCRIPTION: STAMPED CONC. MONUMENT * SURFACE BETWEEN BACK OF GUARD RAIL AND SOUTH EDGE OF CONCRETE WALK FOR ROCKBURN ELEM. SCHOOL. 16.3' FROM AN X-CUT IN THE END POST OF THE GUARDRAIL AND 18.8' FROM THE END OF THE CHAIN LINK FENCE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL Pk
ELLCOTT CITY, MARYLAND 21042
(410) 461-2055



DESIGNED BY:	M.D.T.		
DRAWN BY:	J.E.P./M.D.T.	KCI	ADDUCT DATA ACCORD TO PLAN
CHECKED BY:	P.W.L.	J.C.L.	REVISE QUANTITIES; W/L REALIGNMENT IN ROCKBURN WOODS WAY
DATE:	APRIL 2000	D.A.N.	ADDITION OF CONNECTIONS FOR FUTURE LOTS
BY:	NO.		REVISE QUANTITIES DUE TO VERTICAL ADJUSTMENTS

TITLE SHEET

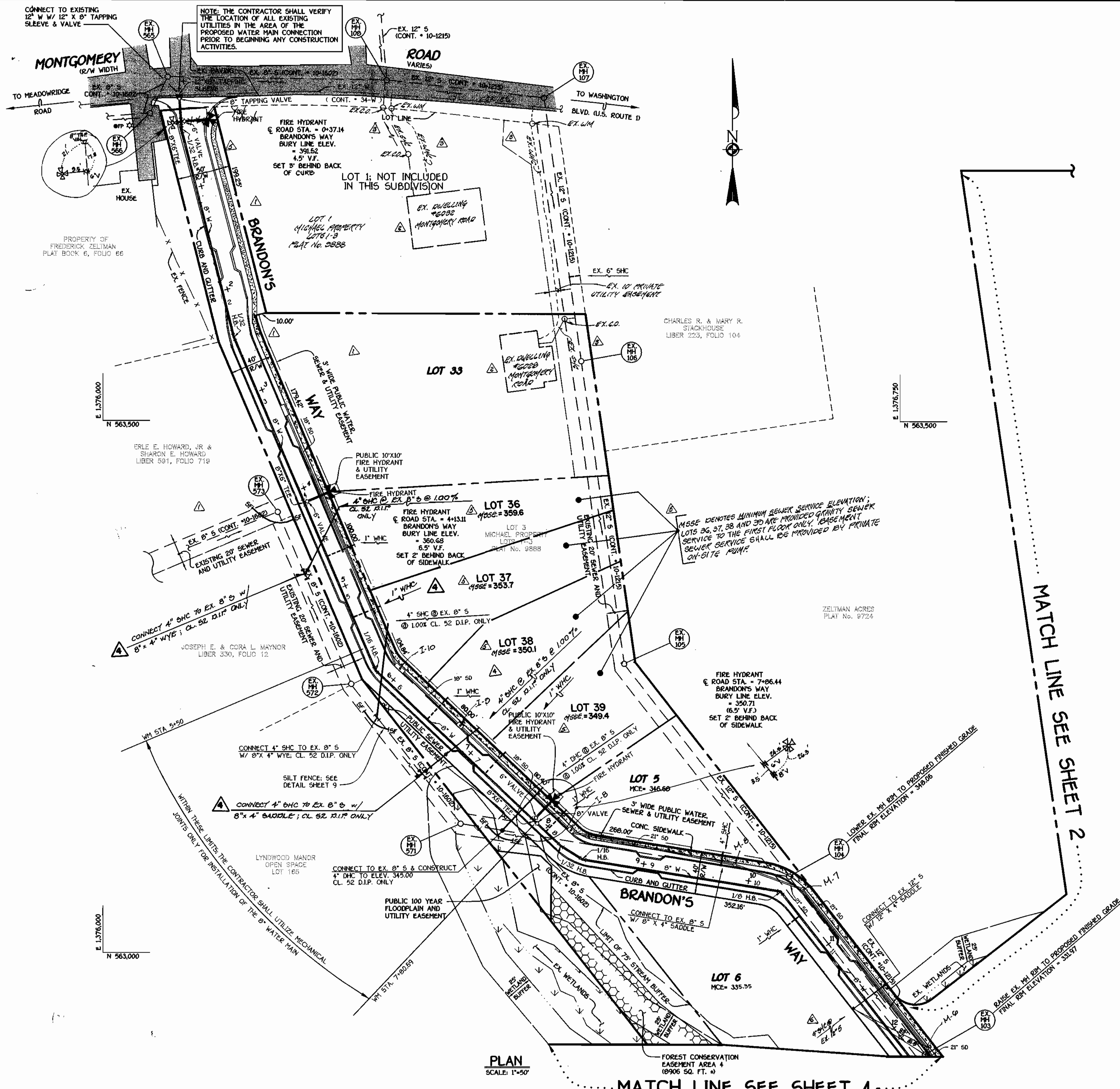
600' SCALE MAP NO. 37 BLOCK NO. 4
T.C.C. WORK ORDER NO. 30510
FILE NAME: G:\30510\WSS\WATSEW\B\NLS\TITLE.SHEET

ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
1 of 9

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 39
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



WATER MAIN TABULATION CHART

WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
BRANDON'S WAY			
0+00	12" X 8" TAPPING SLEEVE	0+12.92	5.00' RT.
0+03	8" TAPPING VALVE	0+15.92	5.00' RT.
0+24.47	8" X 6" TEE	0+37.14	5.00' RT.
0+32.55	1/32 H.B.	0+44.98	5.79' RT.
2+32.86	1/32 H.B.	2+44.40	5.58' RT.
4+02.00	8" X 6" TEE	4+13.11	5.00' RT.
5+72.80	1/16 H.B.	5+82.72	6.18' RT.
7+77.89	8" X 6" TEE	7+86.44	5.00' RT.
7+80.89	8" VALVE	7+89.44	5.00' RT.
8+12.54	1/32 H.B.	8+21.29	5.00' RT.
8+36.97	1/16 H.B.	8+43.54	5.66' RT.
10+25.02	1/8 H.B.	10+32.58	1.67' RT.
12+44.74	1/16 H.B.	12+53.15	4.48' RT.
12+58.38	P.C. (CRIMP RADIUS=380')	12+68.35	6.00' RT.
13+09.41	P.T. (CRIMP RADIUS=380')	13+19.73	3.90' RT.
13+63.41	1/16 H.B.	13+73.33	5.33' RT.
13+66.41	P.C. (CRIMP RADIUS=380')	13+75.95	4.51' RT.
14+28.48	P.T. (CRIMP RADIUS=380')	14+36.52	5.00' RT.
15+92.92	8" X 6" TEE	16+00.97	5.00' RT.
16+87.77	1/8 H.B.	16+85.92	23.41' RT.
17+37.67	8" PLUG & BUTTRESS	L.P. STA.	5.79' RT.
ROCKBURN WOODS WAY			
0+00	12" X 8" TAPPING SLEEVE	0+10.88	5.00' RT.
0+03	8" TAPPING VALVE	0+13.88	5.00' RT.
1+35.07	P.C. (CRIMP RADIUS=380')	1+47.01	5.00' RT.
1+35.07	8" X 4" TEE	1+47.01	5.00' RT.
2+61.53	P.T. (CRIMP RADIUS=380')	2+75.17	5.00' RT.
4+28.08	8" X 6" TEE	4+41.72	5.00' RT.
4+54.08	8" X 6" TEE	4+67.72	5.00' RT.
4+57.08	8" X 6" REDUCER	4+70.72	5.00' RT.
5+12.46	6" PLUG & BUTTRESS	5+26.10	5.00' RT.
STREAM VALLEY LANE			
0+00	8" X 8" TEE	-0+05	5.00' LT.
0+03	8" VALVE	-0+02	5.00' LT.
1+34	8" PLUG & BUTTRESS	1+29	5.00' LT.
ACCESS DRIVE			
0+00	8" X 4" TEE	1+47.01	5.00' RT.
0+03	4" VALVE	1+47.01	8.00' RT.
0+25.48	1/32 H.B.	1+47.01	30.88' RT.
2+47.53	4" PLUG & BUTTRESS	---	---
ROCKBURN WOODS WAY			
0+14.0	1/8 H.B.	0+50.88	5.00' RT.

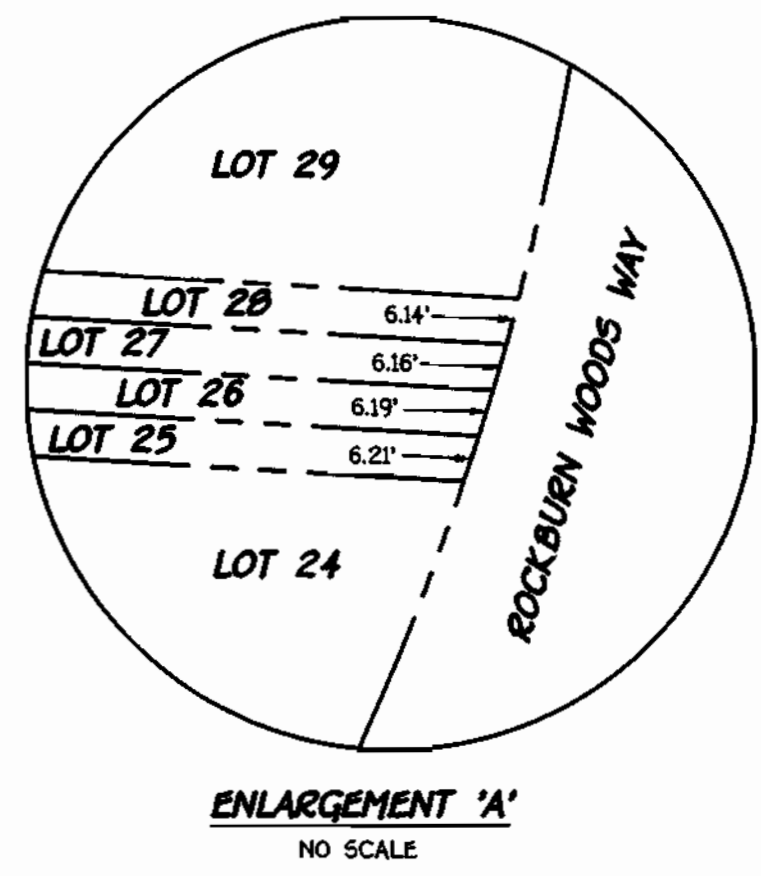
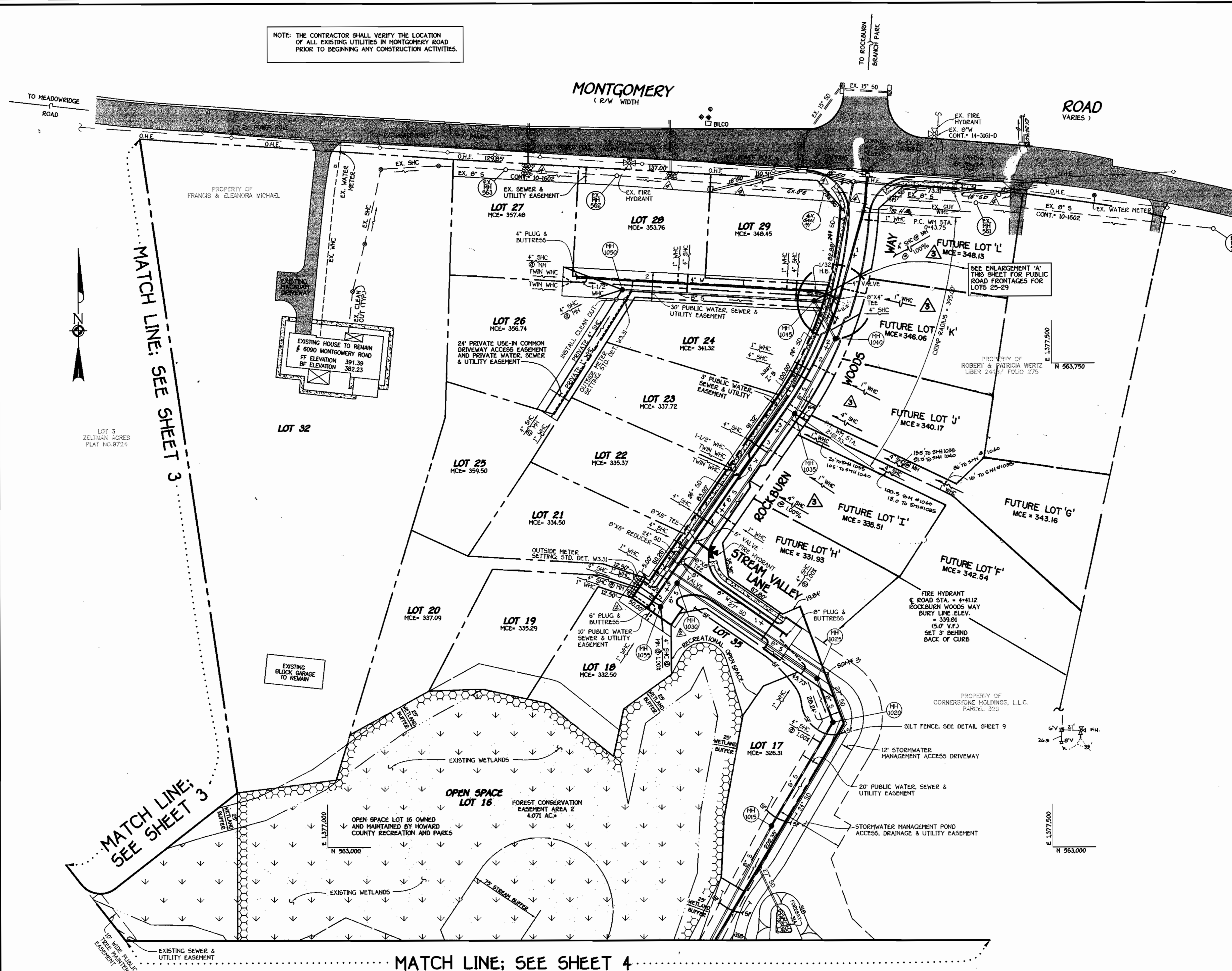
MANHOLE TABULATION CHART

NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1000	---	---	---	312.00 *
2000	---	---	---	314.59 **
2005	---	---	---	338.00 **
2010	IN CUL-DE-SAC; BRANDON'S WAY	---	---	345.60
2015	IN CUL-DE-SAC; BRANDON'S WAY	---	---	342.77
2020	14+89.54; BRANDON'S WAY	5' LT.	+5.12%	332.70
1005	---	---	---	309.00 *
1010	---	---	---	312.70 **
1015	---	---	---	325.40 **
1020	---	---	---	338.50 **
1025	---	---	---	337.70 **
1030	4+88.61; ROCKBURN WOODS WAY	5' LT.	+1.28%	339.63
1035	2+75.17; ROCKBURN WOODS WAY	5' LT.	-6.08%	344.65
1040	1+87.86; ROCKBURN WOODS WAY	5' LT.	-9.92%	351.93
1045	---	---	---	352.00 **
1050	---	---	---	362.55 **
1055	5+18.18; ROCKBURN WOODS WAY	5' LT.	+1.28%	340.01

* SET RIM 1.5' ABOVE EXISTING GROUND
 ** SET RIM FLUSH W/ EXISTING OR PROPOSED FINISHED GRADE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 5-5-00	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: 5/17/00	 FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 1000 W. WASHINGTON BLVD., SUITE 200 ELKTON, MD 21921	 TERRELL A. FISHER PROFESSIONAL ENGINEER LICENSE NO. 10157	DESIGNED BY: D.A.R. DRAWN BY: M.D.T. CHECKED BY: P.W.K. DATE: APRIL, 2000	REVISED LOCATION OF SHC TO LOT 6 ADD MSSE NOTE; REVISE CURB, GUTTER, SIDEWALK; ADD 1/8\"/>	PLAN VIEW WATER AND SEWER MAINS 600' SCALE MAP NO. 37 BLOCK NO. 4 F.C.C. WORK ORDER NO. 30610	ROCKBURN VIEW LOTS 4 THRU 39 CONTRACT NO. 14-3794-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 3 OF 9
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NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN MONTGOMERY ROAD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



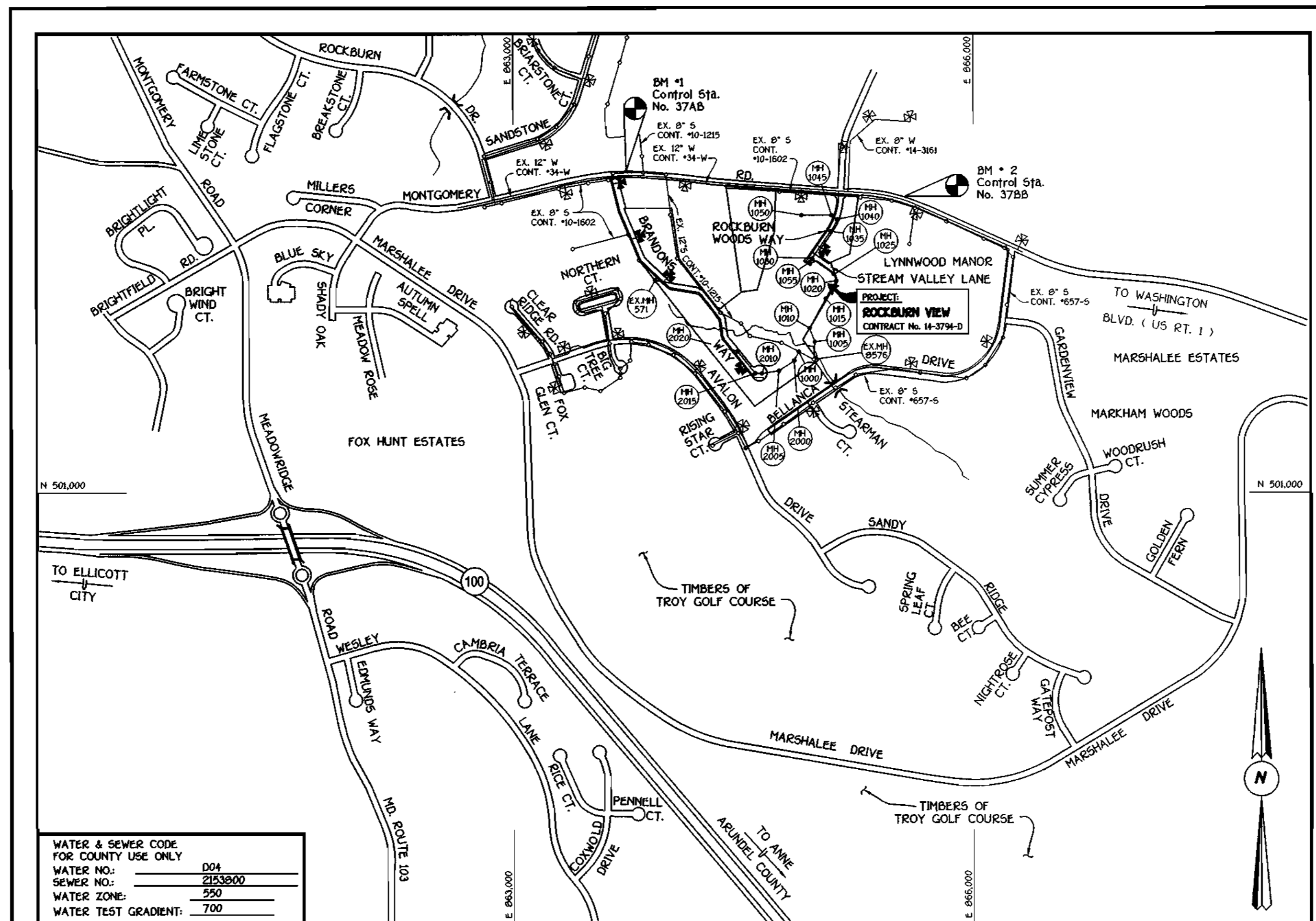
SHC INVERT • PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+00 LT.	MH 1015 TO MH 1020 17 (SHC @ 1.00%)	322.06
0+70 RT.	MH 1025 TO MH 1030 FUTURE LOT 'H' (SHC @ 1.00%)	328.08
0+35 LT.	MH 1030 TO MH 1035	329.70
0+70 LT.	21	330.77
1+64 LT.	22	332.92
0+37 LT.	23	336.62
0+10 RT.	MH 1035 TO MH 1040	340.71
0+19 RT.	MH 1040 TO MH 1045	343.31
1+32 RT.	FUTURE LOT 'K'	349.66
0+10 RT.	MH 1045 TO MH 1050	352.89
0+49 RT.	29	352.89
1+32 RT.	28	352.89
0+10 RT.	MH 1050 CT.	352.89
0+10 RT.	MH 1050 CT.	352.89
0+10 RT.	MH 1050 LT.	351.00
0+25 RT.	MH 1030 TO MH 1055	329.22
0+25 RT.	20	329.22
0+10 RT.	MH 1055 RT.	329.29
0+10 RT.	MH 1055 LT.	329.29
0+65 LT.	MH 2000 TO MH 2005	325.20
0+65 RT.	13 (TYPE 'B' DHC)	325.20
0+65 RT.	14 (TYPE 'B' DHC)	325.20
1+00 LT.	MH 2005 TO MH 2010	333.64
1+00 RT.	12 (TYPE 'C' DHC)	328.42
0+30 LT.	15 (TYPE 'D' DHC)	333.54
0+30 LT.	MH 2010 TO MH 2015	333.54
0+30 LT.	11 DHC	333.54
0+53 LT.	MH 2015 TO MH 2020	331.50
0+53 LT.	10 DHC	331.50
0+53 LT.	MH 2020 LT.	325.07
0+53 LT.	MH 2020 LT.	325.73
2+74 RT.	EX. MH 104 TO EX. MH 571 4 (TYPE 'A' DHC @ 1.00%)	345.53
1+27 RT.	EX. MH 571 TO EX. MH 572 34 (SHC @ 1.00%)	349.02
0+75 LT.	EX. MH 103 TO EX. MH 104	329.25
0+65 RT.	EX. MH 104 TO EX. MH 571	341.28
1+30 RT.	MH 1030 TO MH 1035	331.66
2+07 RT.	FUTURE 'I' (SHC @ 1.00%)	333.74
0+10 RT.	FUTURE 'G'	334.06
0+16 RT.	MH 1035 TO MH 1040	334.97
0+16 RT.	FUTURE 'J'	334.97
0+16 RT.	MH 1040 TO MH 1045	342.93
0+60 RT.	FUTURE 'L' (SHC @ 1.00%) EX. MH 571 TO EX. MH 572	346.14
1+10 RT.	38 (SHC @ 1.00%) EX. MH 572 TO EX. MH 573	355.55
1+10 RT.	36 (SHC @ 1.00%)	355.55

PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Robert M. Benney CHIEF, BUREAU OF UTILITIES 5-5-00 DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 5/17/00 DATE	OF MARYLAND TERRILL A. FISHER	DESIGNED BY: M.D.T. DRAWN BY: M.D.T. CHECKED BY: P.W.K. DATE: APRIL, 2000	REVISIONS: 5-3-01 REVISION LOCATION OF PROP. G.D. TIE-INS WITH ADJACENT LOTS 11-28-00 ADDITION OF CONNECTIONS FOR FUTURE LOTS 04-14-00 INCREASE PAVING OF TIE-INS AROUND ADJACENT LOTS 04-14-00 DELETE SHC SERVICE TO LOT PREVIOUSLY PROVIDED	PLAN VIEW WATER AND SEWER MAINS 600' SCALE MAP NO. 37 BLOCK NO. 4 F.C.C. WORK ORDER NO. 3090 FILE NAME: G:\3090\WAS\WATERSEWER\PLANS\PLN12	CONTRACT NO. 14-3794-D ROCKBURN VIEW LOTS 4 THRU 39 CONTRACT NO. 14-3794-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 9
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QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	1,303.32 L.F.			
8" SEWER (D.I.P.)	633.12 L.F.			
4" SEWER	1,397 L.F.			
4" SEWER (D.I.P.)	286 L.F.			
MANHOLES	15 EACH			
8" WATER	2,320.75 L.F.			
6" WATER	163.09 L.F.			
4" WATER	273 L.F.			
1-1/2" WATER	134 L.F.			
1" WATER	813 L.F.			
FIRE HYDRANTS	5 EACH			
8" x 8" TEE	1 EACH			
8" x 6" TEE	5 EACH			
8" x 4" TEE	1 EACH			
8" VALVE	2 EACH			
6" VALVE	5 EACH			
4" VALVE	1 EACH			
8"-1/8" H.B.	2 EACH			
8"-1/16" H.B.	4 EACH			
8"-1/32" H.B.	3 EACH			
4"-1/32" H.B.	1 EACH			
8" PLUG & BUTTRESS	2 EACH			
6" PLUG & BUTTRESS	1 EACH			
4" PLUG & BUTTRESS	1 EACH			
12" x 8" TAPPING SLEEVE & VALVE	2 EACH			
OUTSIDE METER SETTING	2 EACH			
8" x 6" REDUCER	1 EACH			

NAME OF UTILITY CONTRACTOR: _____
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: _____



WATER & SEWER CODE FOR COUNTY USE ONLY
 WATER NO.: 004
 SEWER NO.: 2133000
 WATER ZONE: 550
 WATER TEST GRADIENT: 700

TYPE OF BUILDING: RESIDENTIAL, SINGLE FAMILY DETACHED
 NUMBER OF LOTS & PARCELS: 39 (36 BUILDABLE) (7 FUTURE)
 NO. OF WATER HOUSE CONNECTIONS: 36 (7 FUTURE) (2)
 NO. OF SEWER HOUSE CONNECTIONS: 36 (7 FUTURE) (2)
 DRAINAGE AREA: PATAPSCO
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

PLAN REFERENCE NUMBERS:
 S 97-06, P 98-16, F 99-163

SCALE: 1"=500'

GENERAL NOTES

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 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4820
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - (410) 787-9068
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- 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.A. DENOTES TEST BORING.
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- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATER-TIGHT 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.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
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- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- 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 TREES SHALL BE STRAPPED TO TREES.
- 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 (W11 AND W12). 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 ANWA 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.

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 A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL 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.

Paul W. Wood FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER 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.

John J. Camm 5/13/00
 SIGNATURE OF ENGINEER DATE

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

Cheryl Siam / GS 5/15/00
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED
John J. Camm 5/15/00
 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 ON F99 - 153.

Paul W. Wood FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER DATE

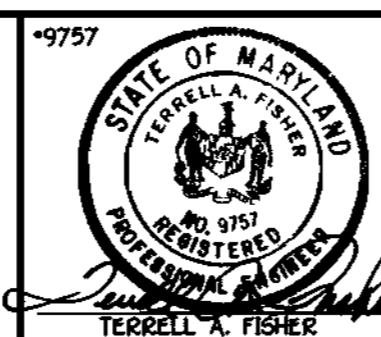
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert D. Berman 5-5-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

John J. Camm 5/17/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10000 SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL FIRE
 ELKLOTT CITY, MARYLAND 21206
 410-461-2000



DESIGNED BY: M.D.T.
 DRAWN BY: J.E.P./M.D.T.
 CHECKED BY: P.W.K.
 DATE: APRIL, 2000

BY NO. _____

REVISION

1. J.C.L. Addition of connections for future lots 11-28-00
 2. P.W.K. REVISE QUANTITIES DUE TO 0.41%/0.4% ADJUSTMENTS 08-14-00

TITLE SHEET

600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30610
 FILE NAME: G/30610/WAS/WATSEW/PLANS/TITLESHEET

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY MONUMENT NO. 37AB
 ELEV. = 394.74; DESCRIPTION: STAMPED CONC. MONUMENT • SURFACE
 APPROX. 9' SOUTH OF EDGE OF E.S.L. OF MONTGOMERY ROAD AND 6'
 WEST OF CENTERLINE OF DRIVEWAY FOR HOUSE #6020
 B.M.#2 - HOWARD COUNTY MONUMENT NO. 37BB
 ELEV. = 373.83; DESCRIPTION: STAMPED CONC. MONUMENT • SURFACE
 BETWEEN BACK OF GUARD RAIL AND SOUTH EDGE OF CONCRETE WALK
 FOR ROCKBURN ELEM. SCHOOL, 16.3' FROM AN X-CUT IN THE END POST OF
 THE GUARDRAIL AND 18.8' FROM THE END OF THE CHAIN LINK FENCE

CONTRACT No. 14-3794-D

ROCKBURN VIEW

LOTS 4 THRU 39

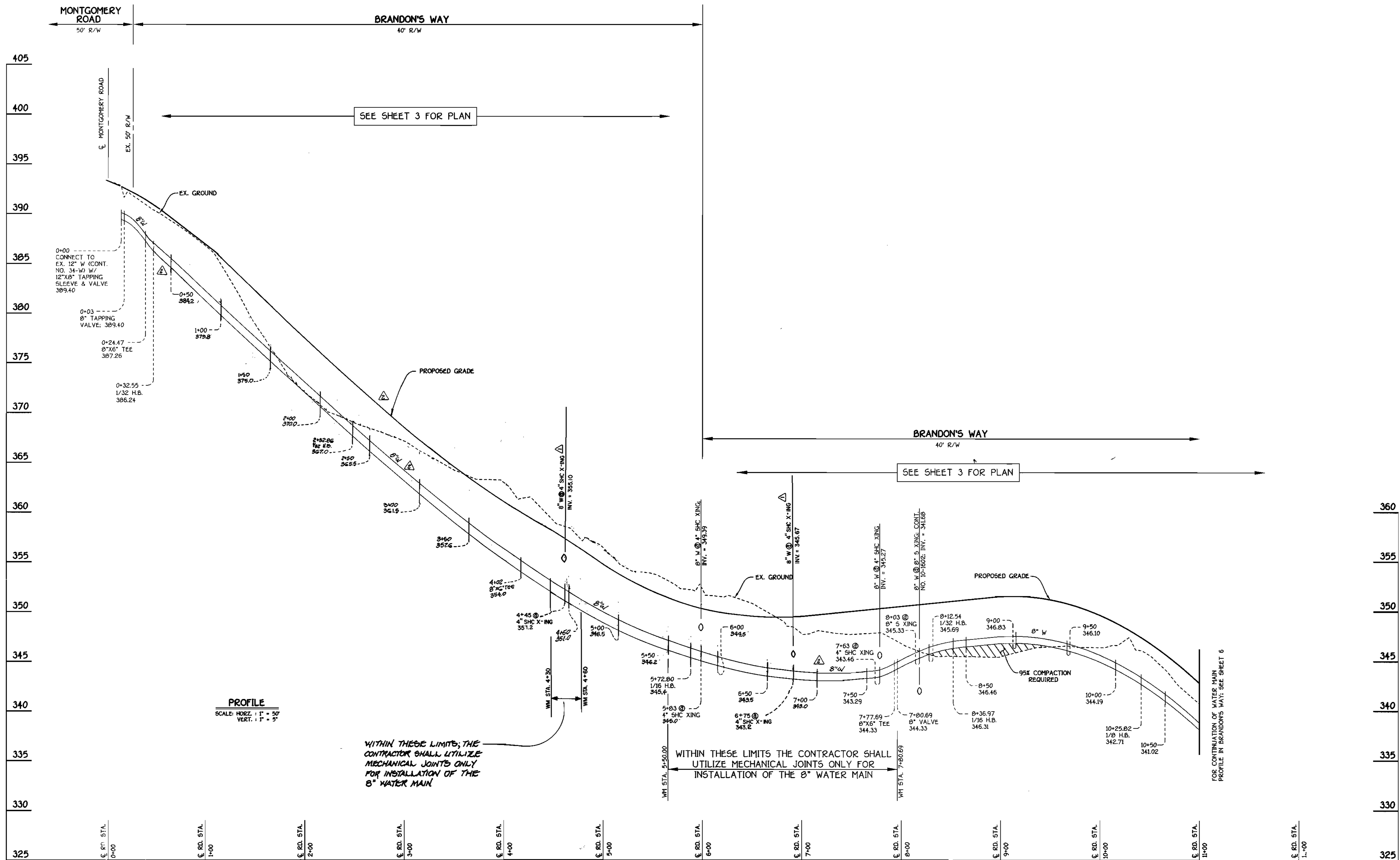
WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3794-D
 ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN
 SHEET
 1 OF 9



WITHIN THESE LIMITS, THE CONTRACTOR SHALL UTILIZE MECHANICAL JOINTS ONLY FOR INSTALLATION OF THE 8" WATER MAIN

WITHIN THESE LIMITS THE CONTRACTOR SHALL UTILIZE MECHANICAL JOINTS ONLY FOR INSTALLATION OF THE 8" WATER MAIN

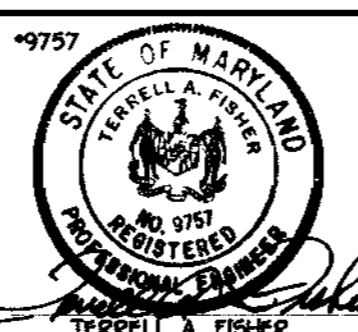
BRANDON'S WAY: 8" WATER MAIN

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PK.
 ELLETTT CITY, MARYLAND 21114
 (410) 481-2885



DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.X.	
DATE:	APRIL, 2000	
BY:		
NO.		
REVISION		

WATER AND SEWER MAINS PROFILES

600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30610
 FILE NAME: G:\30610\WATER\14-3794-D\WATER\BRANDON'S WAY\WATER PROFILES

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

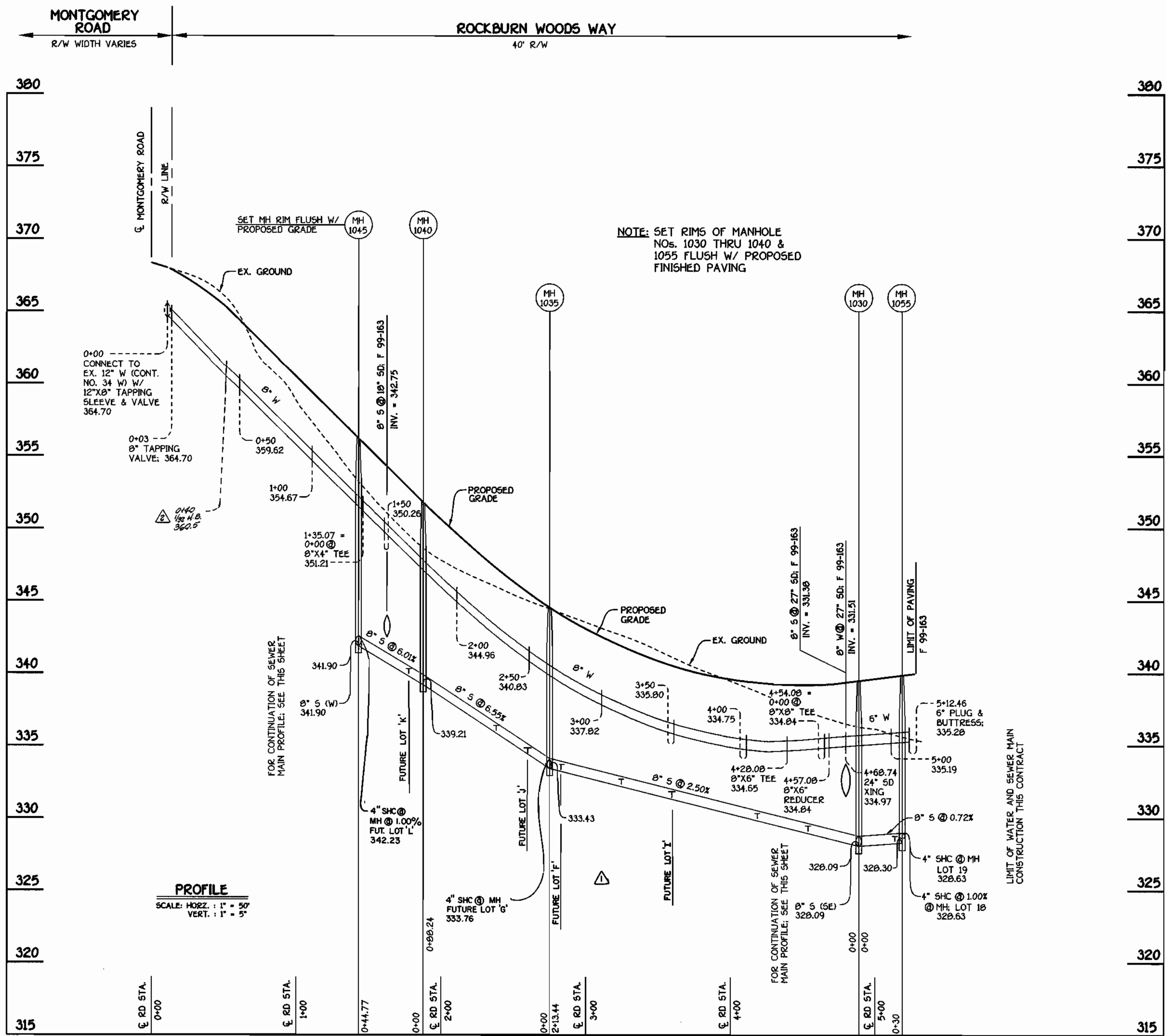
SCALE AS SHOWN
 SHEET 5 OF 9

Robert B. Benjamin
 CHIEF, BUREAU OF UTILITIES
 5-5-00
 DATE

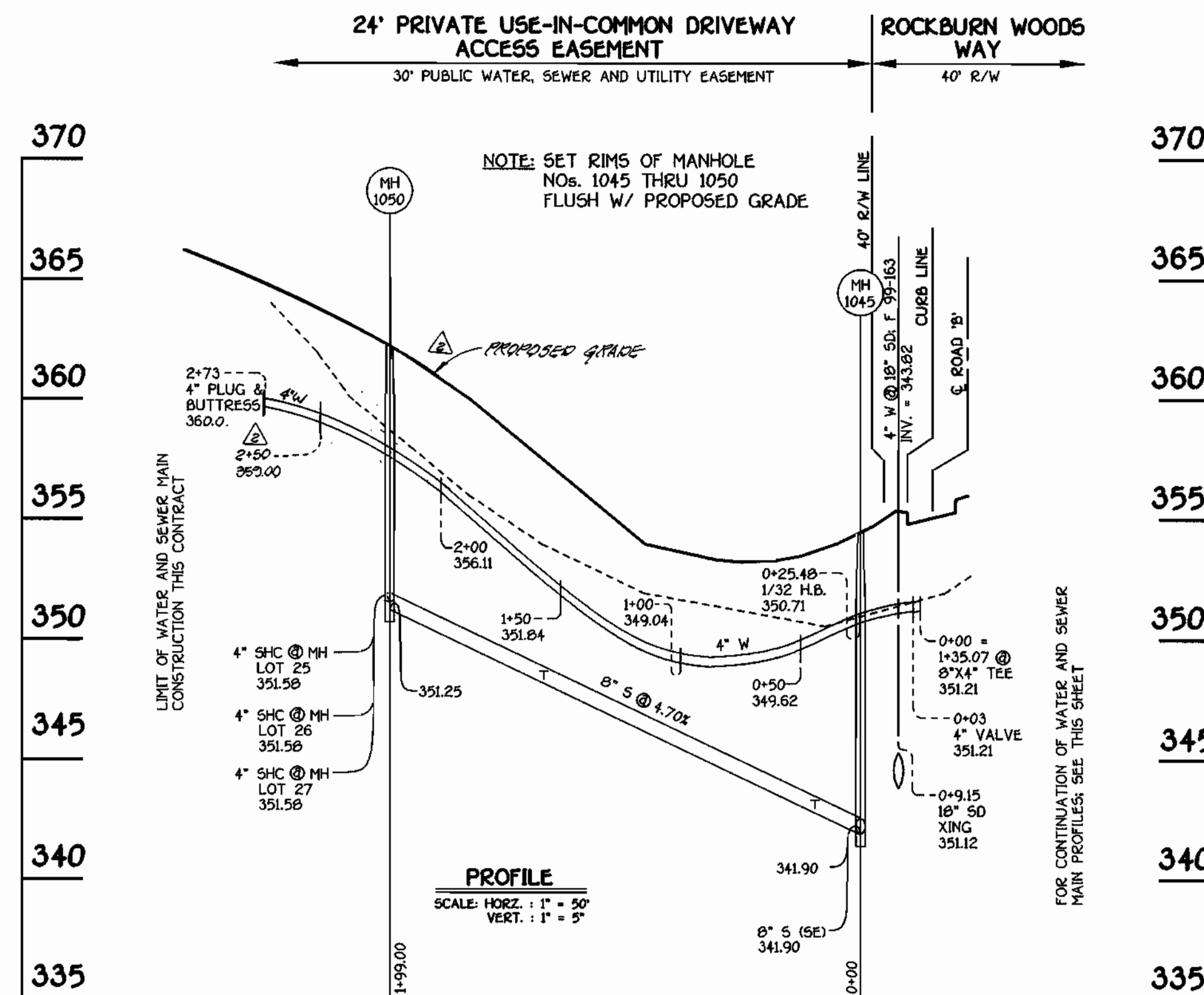
Handwritten signature
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 5/12/00
 DATE

TERRELL A. FISHER

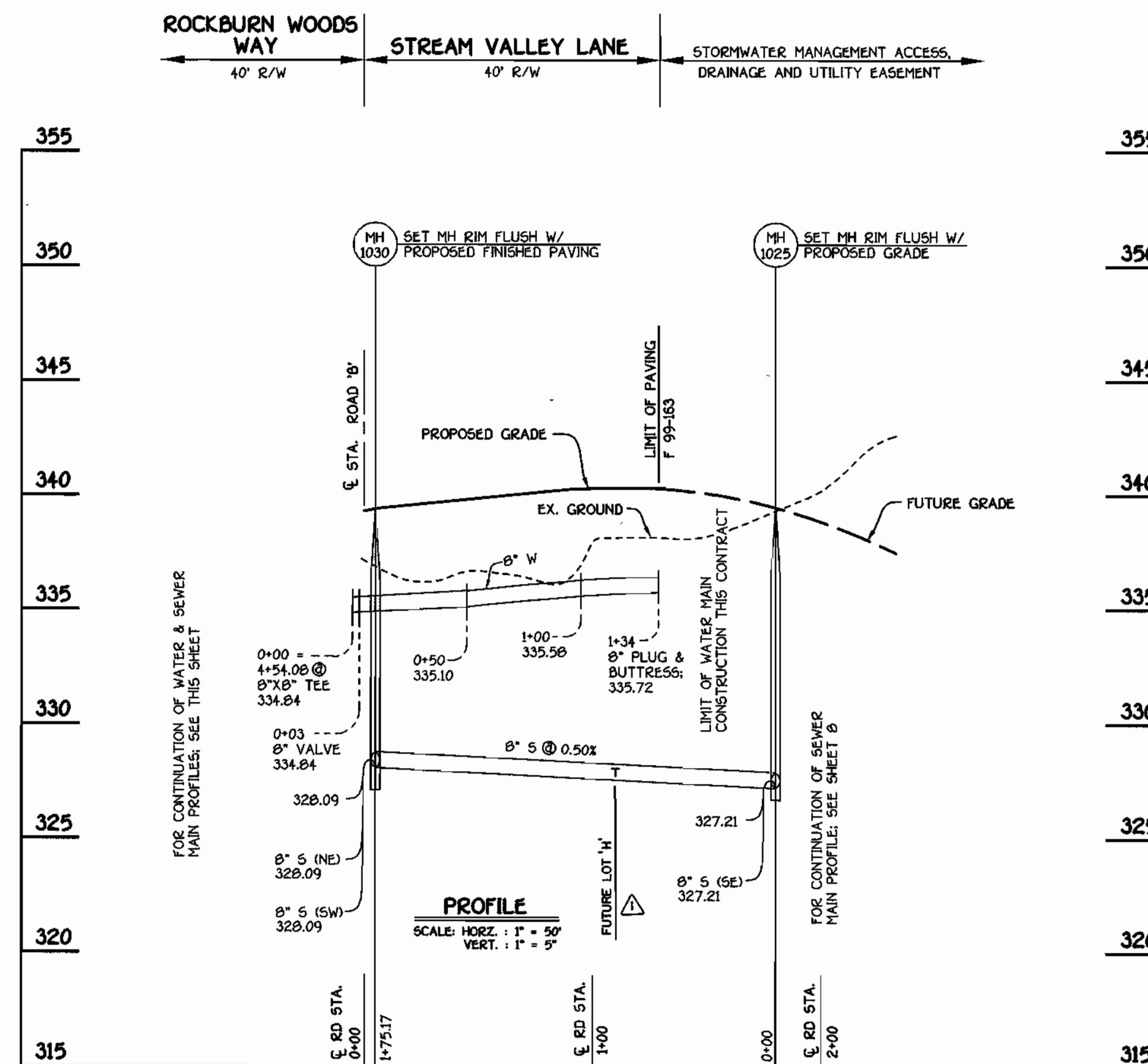
DATE: 5-24-00
 DATE: 11-28-00



ROCKBURN WOODS WAY: WATER & SEWER MAINS



WATER & SEWER MAINS FOR LOTS 25 THRU 29



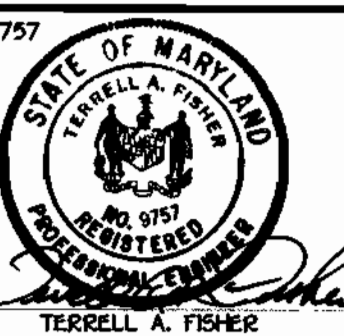
STREAM VALLEY LANE: WATER & SEWER MAINS

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Bennett
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKLOTT CITY, MARYLAND 21042
 (410) 461-2955



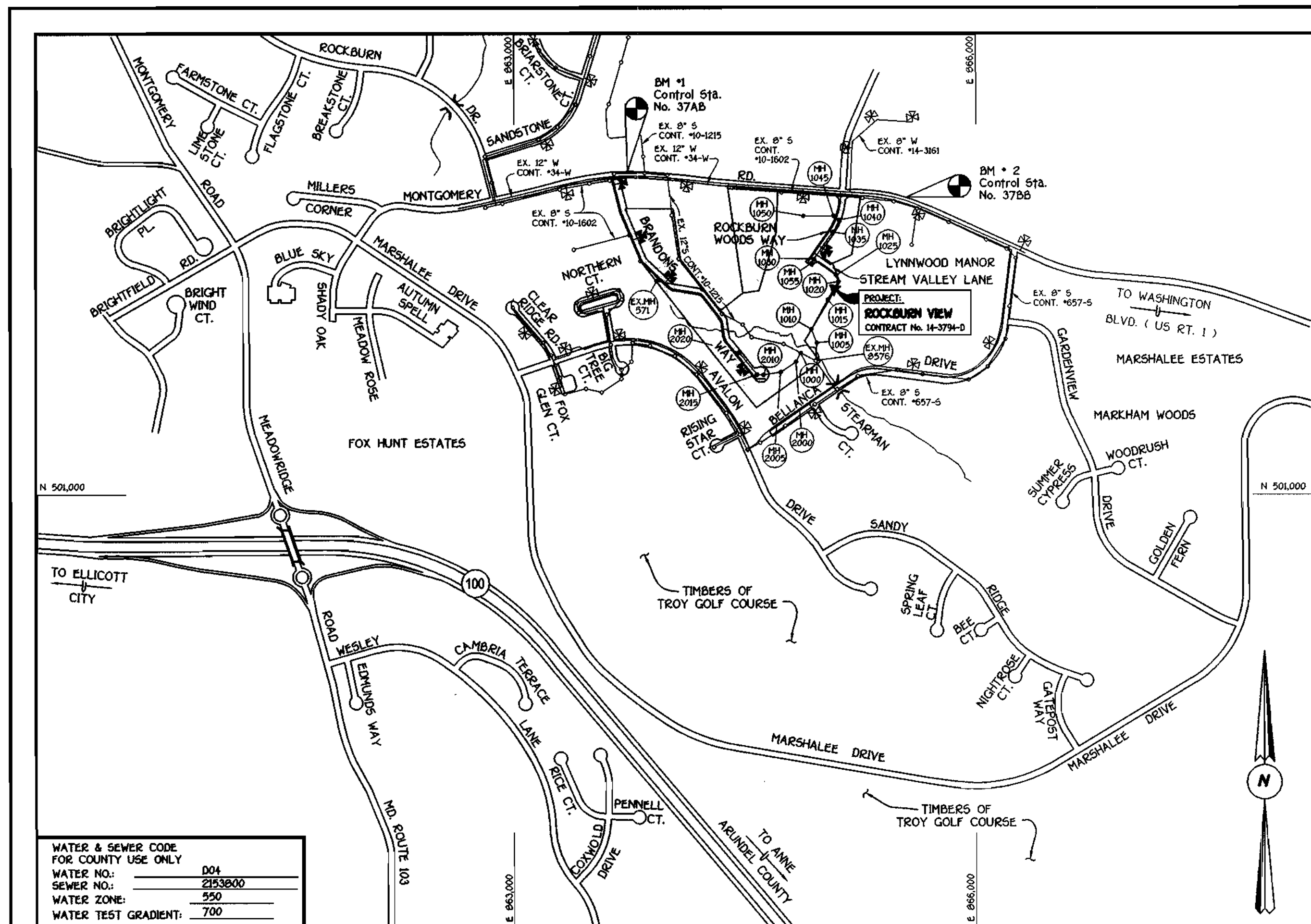
DESIGNED BY: H.D.T.
 DRAWN BY: M.D.T.
 CHECKED BY: P.W.L.
 DATE: APRIL, 2000
 BY: NO.

WATER AND SEWER MAINS PROFILES
 600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30510
 FILE NAME: G:\30510\WATER\SEWER\PROFILES\ORDER\ANDC

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 7 of 9

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	1,303.32 L.F.			
8" SEWER (D.I.P.)	633.12 L.F.			
4" SEWER	1,397 L.F.			
4" SEWER (D.I.P.)	286 L.F.			
MANHOLES	15 EACH			
8" WATER	2,320.75 L.F.			
6" WATER	163.09 L.F.			
4" WATER	273 L.F.			
1-1/2" WATER	134 L.F.			
1" WATER	813 L.F.			
FIRE HYDRANTS	5 EACH			
8" x 8" TEE	1 EACH			
8" x 6" TEE	5 EACH			
8" x 4" TEE	1 EACH			
8" VALVE	2 EACH			
6" VALVE	5 EACH			
4" VALVE	1 EACH			
8"-1/8" H.B.	2 EACH			
8"-1/16" H.B.	4 EACH			
8"-1/32" H.B.	4 EACH			
4"-1/32" H.B.	1 EACH			
8" PLUG & BUTTRESS	2 EACH			
6" PLUG & BUTTRESS	1 EACH			
4" PLUG & BUTTRESS	1 EACH			
12" x 8" TAPPING SLEEVE & VALVE	2 EACH			
OUTSIDE METER SETTING	2 EACH			
8" x 6" REDUCER	1 EACH			

NAME OF UTILITY CONTRACTOR: _____
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: _____



TYPE OF BUILDING: RESIDENTIAL: SINGLE FAMILY DETACHED
 NUMBER OF LOTS & PARCELS: 39 (36 BUILDABLE) (7 FUTURE)
 NO. OF WATER HOUSE CONNECTIONS: 36 (7 FUTURE)
 NO. OF SEWER HOUSE CONNECTIONS: 36 (7 FUTURE)
 DRAINAGE AREA: PATAPSCO
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

VICINITY MAP

SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
 S 97-06, P 98-16, F 99-163

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 (0991 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 [] 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 - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 650-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - (410) 787-9068
 - MESS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - (410) 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 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. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATER-TIGHT 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.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 (WH1 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 ANNA 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.

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 A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL 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."

Paul W. Hinds FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER 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."

M. McCann 5/3/00
 SIGNATURE OF ENGINEER DATE

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

Chaf Simon / cs. 5/15/00
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED: *[Signature]* 5/15/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

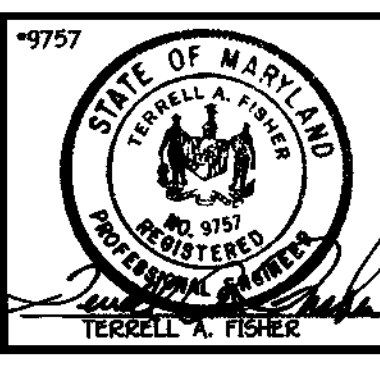
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND ON F99 - 163.

Paul W. Hinds FOR: CORNERSTONE HOLDINGS L.L.C. 05/03/00
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 5-5-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 5/17/00
 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 21114
 (410) 481-2995



DESIGNED BY:	M.D.T.	
DRAWN BY:	J.E.P./M.D.T.	
CHECKED BY:	P.W.C.	
DATE:	APRIL, 2000	
BY NO.		
REVISION		

DATE	5-3-01
DATE	4-28-00
DATE	4-14-00
FILE NAME	G:\30610\WSS\WATSEW\FINALS\TTITLESHEET

TITLE SHEET

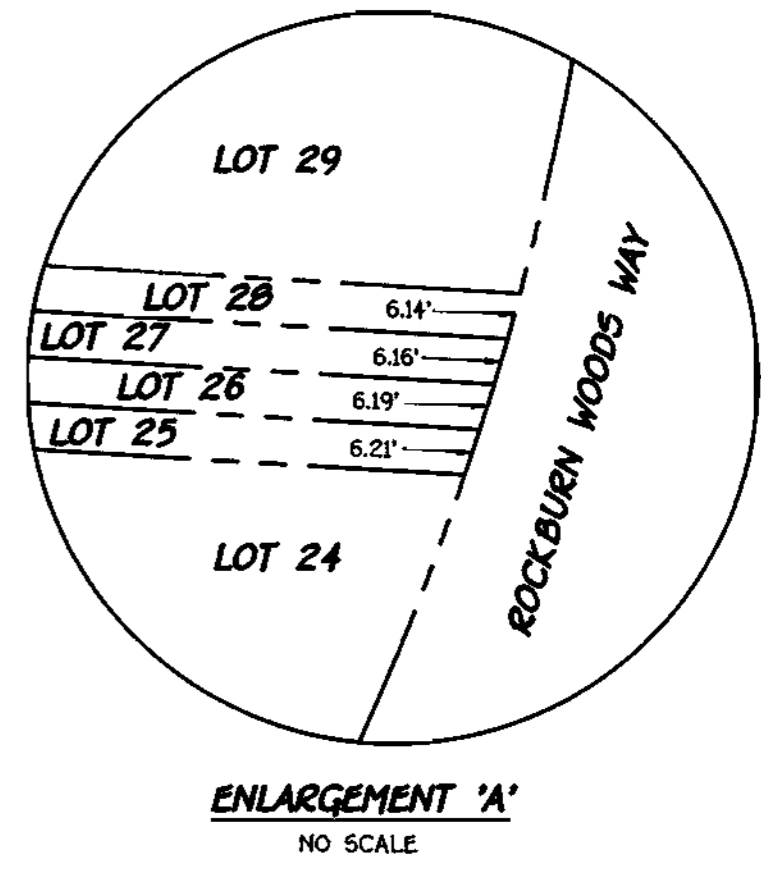
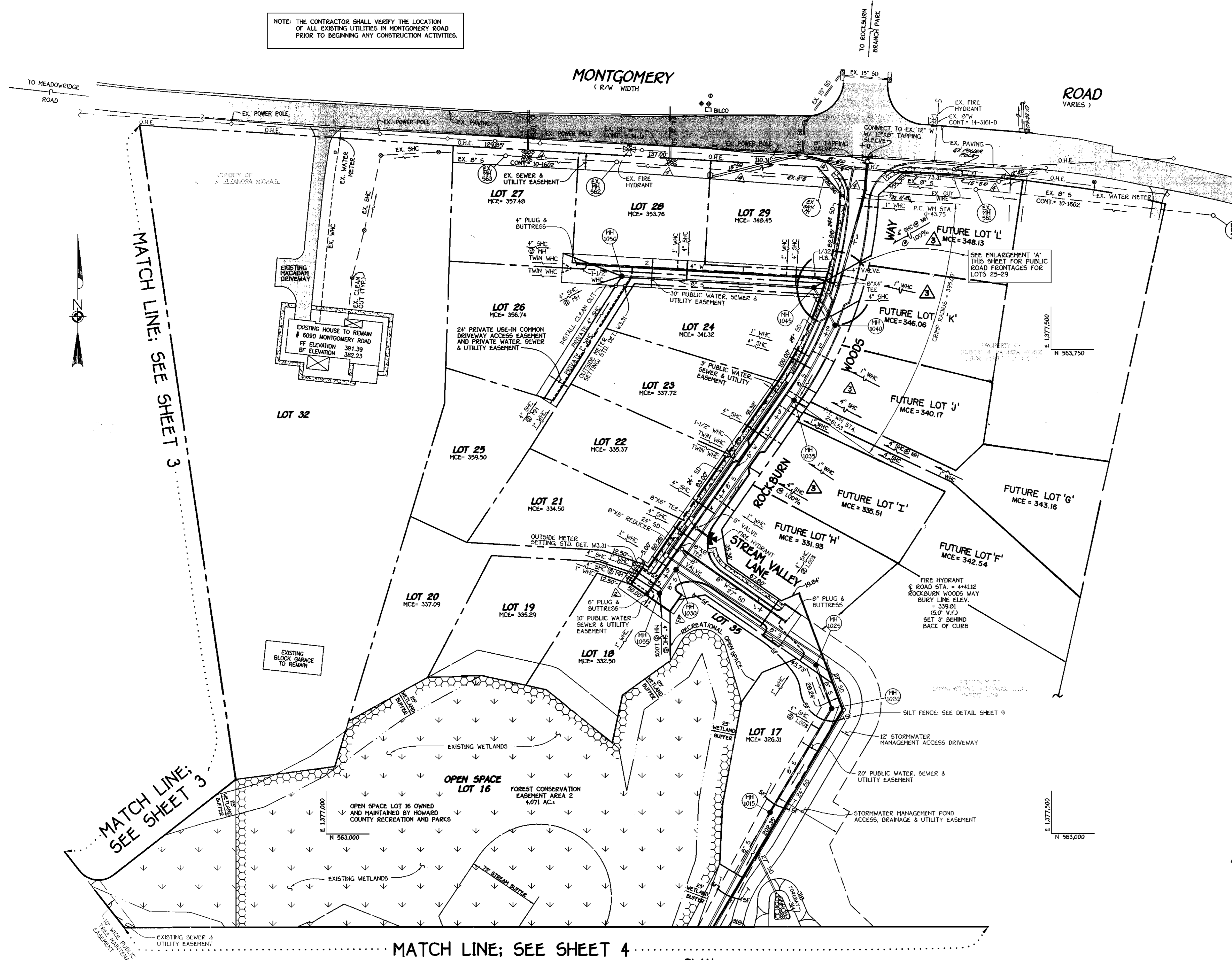
600' SCALE MAP NO. 37 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 30610

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
 LOTS 4 THRU 39
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

ROCKBURN VIEW
 LOTS 4 THRU 39
 CONTRACT NO. 14-3794-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 of 9

NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN MONTGOMERY ROAD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



SHC INVERT • PROPERTY LINE CHART		
STATION	LOT	ELEVATION
	MH 1015 TO MH 1020	
1+00 LT.	17 (SHC @ 1.00%)	322.86
	MH 1025 TO MH 1030	
0+70 RT.	FUTURE LOT 'I' (SHC @ 1.00%)	328.08
	MH 1030 TO MH 1035	
0+35 LT.	21	329.70
0+70 LT.	22	330.57
1+64 LT.	23	332.92
	MH 1035 TO MH 1040	
0+37 LT.	24	336.52
	MH 1040 TO MH 1045	
0+10 RT.	FUTURE LOT 'K'	340.66
	MH 1045 TO MH 1050	
0+19 RT.	29	343.35
1+32 RT.	28	348.66
⊙ MH 1050 RT.	27 (SHC @ MH)	352.80
⊙ MH 1050 CT.	26 (SHC @ MH)	352.14
⊙ MH 1050 LT.	25 (SHC @ MH)	351.80
	MH 1030 TO MH 1055	
0+25 RT.	20	329.22
⊙ MH 1055 RT.	19 (SHC @ MH)	329.29
⊙ MH 1055 LT.	18 (SHC @ MH @ 1.00%)	328.80
	MH 2000 TO MH 2005	
0+65 LT.	13 (TYPE 'B' DHC)	325.20
0+65 RT.	14 (TYPE 'B' DHC)	325.20
	MH 2005 TO MH 2010	
1+00 LT.	12 (TYPE 'C' DHC)	333.64
1+00 RT.	15 (TYPE 'C' DHC)	328.42
	MH 2010 TO MH 2015	
0+30 LT.	11 DHC	333.54
	MH 2015 TO MH 2020	
0+53 LT.	10 DHC	331.50
⊙ MH 2020 LT.	9 (SHC @ MH)	325.87
⊙ MH 2020 LT.	8 (SHC @ MH @ 1.00%)	325.73
	EX. MH 104 TO EX. MH 571	
2+74 RT.	4 (TYPE 'A' DHC @ 1.00%)	345.53
1+27 RT.	EX. MH 571 TO EX. MH 572	
	34 (SHC @ 1.00%)	349.82
	EX. MH 103 TO EX. MH 104	
0+75 LT.	6	329.25
	EX. MH 104 TO EX. MH 571	
0+85 RT.	5	341.28
	MH 1030 TO MH 1035	
1+30 RT.	FUTURE 'I' (SHC @ 1.00%)	331.66
2+07 RT.	FUTURE 'F'	333.74
⊙ MH 1035 RT.	FUTURE 'G'	334.06
	MH 1035 TO MH 1040	
0+16 RT.	FUTURE 'J'	334.97
	MH 1040 TO MH 1045	
⊙ MH 1045 RT.	FUTURE 'L' (SHC @ MH @ 1.00%)	342.93
	EX. MH 571 TO EX. MH 572	
0+60 RT.	38 (SHC @ 1.00%)	346.14
	EX. MH 572 TO EX. MH 573	
1+10 RT.	36 (SHC @ 1.00%)	355.55

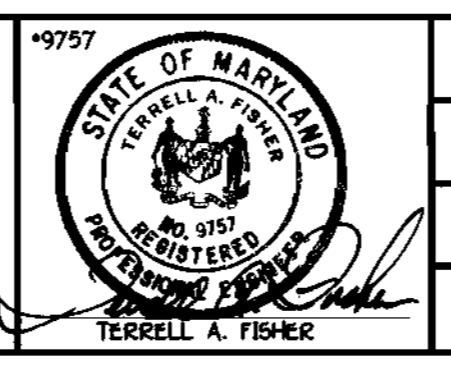
MATCH LINE; SEE SHEET 4

PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

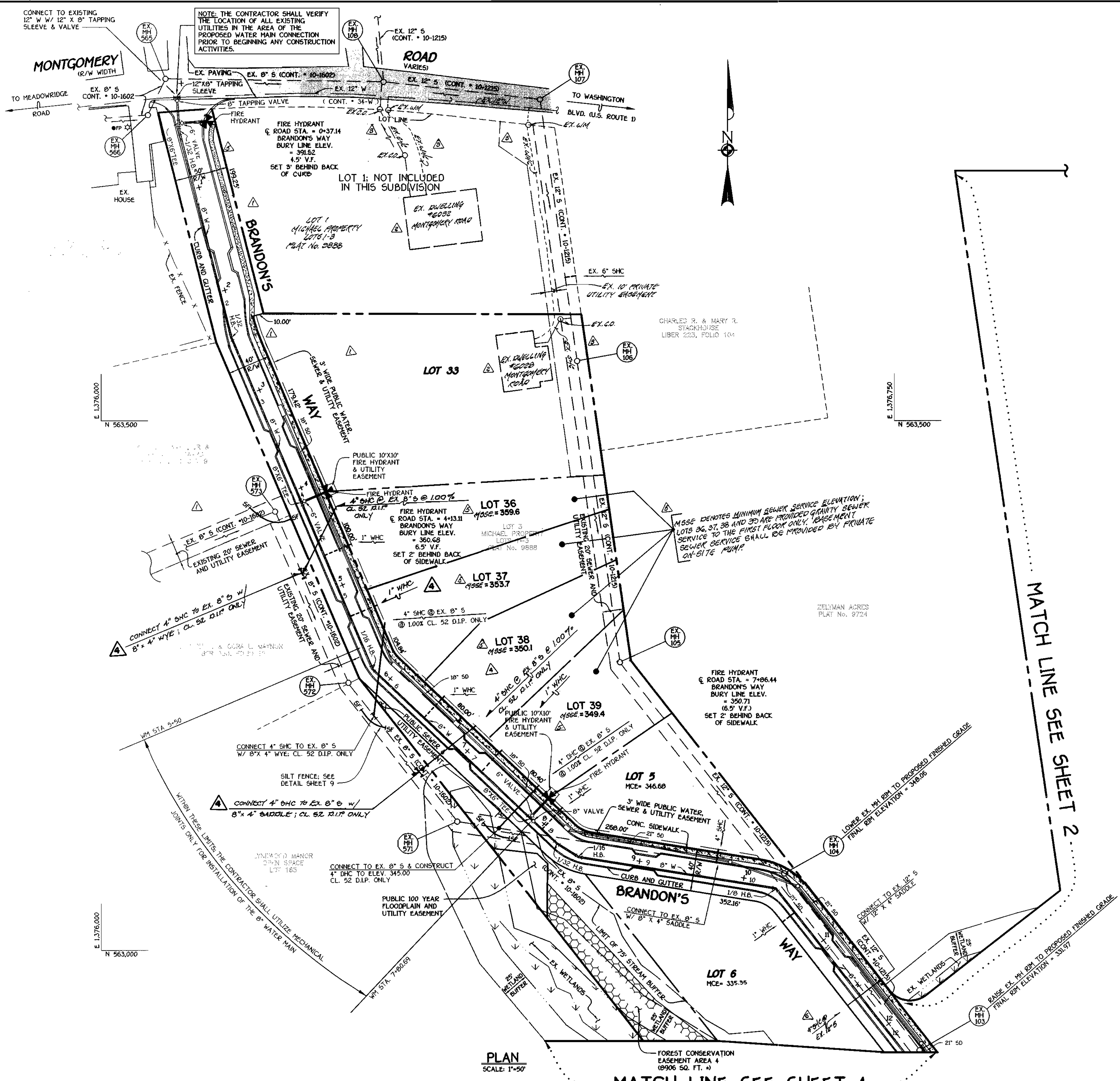


DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.L.
DATE: APRIL, 2000

PLAN VIEW
WATER AND SEWER MAINS

ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 9



WATER MAIN TABULATION CHART

WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
BRANDON'S WAY			
0+00	12" X 8" TAPPING SLEEVE	0+12.92	5.00' RT.
0+03	8" TAPPING VALVE	0+15.92	5.00' RT.
0+24.7	8" X 6" TEE	0+37.14	5.24' RT.
0+32.55	1/32 H.B.	0+44.90	5.79' RT.
2+32.06	1/32 H.B.	2+44.40	5.56' RT.
4+02.00	8" X 6" TEE	4+13.11	5.00' RT.
5+72.80	1/16 H.B.	5+82.72	6.10' RT.
7+77.69	8" X 6" TEE	7+86.44	5.00' RT.
7+80.69	8" VALVE	7+89.44	5.00' RT.
8+12.54	1/32 H.B.	8+21.29	5.00' RT.
8+36.97	1/16 H.B.	8+43.54	5.66' RT.
10+25.82	1/8 H.B.	10+32.58	1.67' RT.
12+44.74	1/16 H.B.	12+53.15	4.40' RT.
12+58.38	P.C. (CRIMP RADIUS=380')	12+68.35	6.00' RT.
13+09.41	P.T. (CRIMP RADIUS=380')	13+19.73	3.90' RT.
13+63.41	1/16 H.B.	13+73.33	5.33' RT.
13+66.41	P.C. (CRIMP RADIUS=380')	13+75.95	4.51' RT.
14+28.48	P.T. (CRIMP RADIUS=380')	14+36.52	5.00' RT.
15+92.92	8" X 6" TEE	16+00.97	5.00' RT.
16+87.77	1/8 H.B.	16+85.92	23.41' RT.
17+37.67	8" PLUG & BUTTRESS	L.P. STA.	5.79' RT.
ROCKBURN WOODS WAY			
0+00	12" X 8" TAPPING SLEEVE	0+10.80	5.00' RT.
0+03	8" TAPPING VALVE	0+13.80	5.00' RT.
1+35.07	P.C. (CRIMP RADIUS=380')	1+42.01	5.00' RT.
1+35.07	8" X 4" TEE	1+47.01	5.00' RT.
2+61.53	P.T. (CRIMP RADIUS=380')	2+75.17	5.00' RT.
4+28.06	8" X 6" TEE	4+41.72	5.00' RT.
4+54.08	8" X 6" TEE	4+67.72	5.00' RT.
4+57.08	8" X 6" REDUCER	4+70.72	5.00' RT.
5+12.46	6" PLUG & BUTTRESS	5+26.10	5.00' RT.
STREAM VALLEY LANE			
0+00	8" X 8" TEE	-0+05	5.00' LT.
0+03	8" VALVE	-0+02	5.00' LT.
1+34	8" PLUG & BUTTRESS	1+29	5.00' LT.
ACCESS DRIVE			
0+00	8" X 4" TEE	1+47.01	5.00' RT.
0+03	4" VALVE	1+47.01	8.00' RT.
0+25.48	1/32 H.B.	1+47.01	30.48' RT.
2+47.53	4" PLUG & BUTTRESS	---	---
0+42	ROCKBURN WOODS WAY	0+50.88	5.00' RT.

MANHOLE TABULATION CHART

NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1000	---	---	---	312.00 *
2000	---	---	---	314.59 **
2005	---	---	---	338.00 **
2010	IN CUL-DE-SAC; BRANDON'S WAY	---	---	345.60
2015	IN CUL-DE-SAC; BRANDON'S WAY	---	---	342.77
2020	14+89.54; BRANDON'S WAY	5' LT.	+5.12%	332.70
1005	---	---	---	309.00 *
1010	---	---	---	312.70 **
1015	---	---	---	325.40 **
1020	---	---	---	338.50 **
1025	---	---	---	337.70 **
1030	1+88.61; ROCKBURN WOODS WAY	5' LT.	+1.28%	339.63
1035	2+75.17; ROCKBURN WOODS WAY	5' LT.	-6.08%	344.65
1040	1+87.86; ROCKBURN WOODS WAY	5' LT.	-9.92%	351.93
1045	---	---	---	352.00 **
1050	---	---	---	362.55 **
1055	5+18.18; ROCKBURN WOODS WAY	5' LT.	+1.28%	340.01

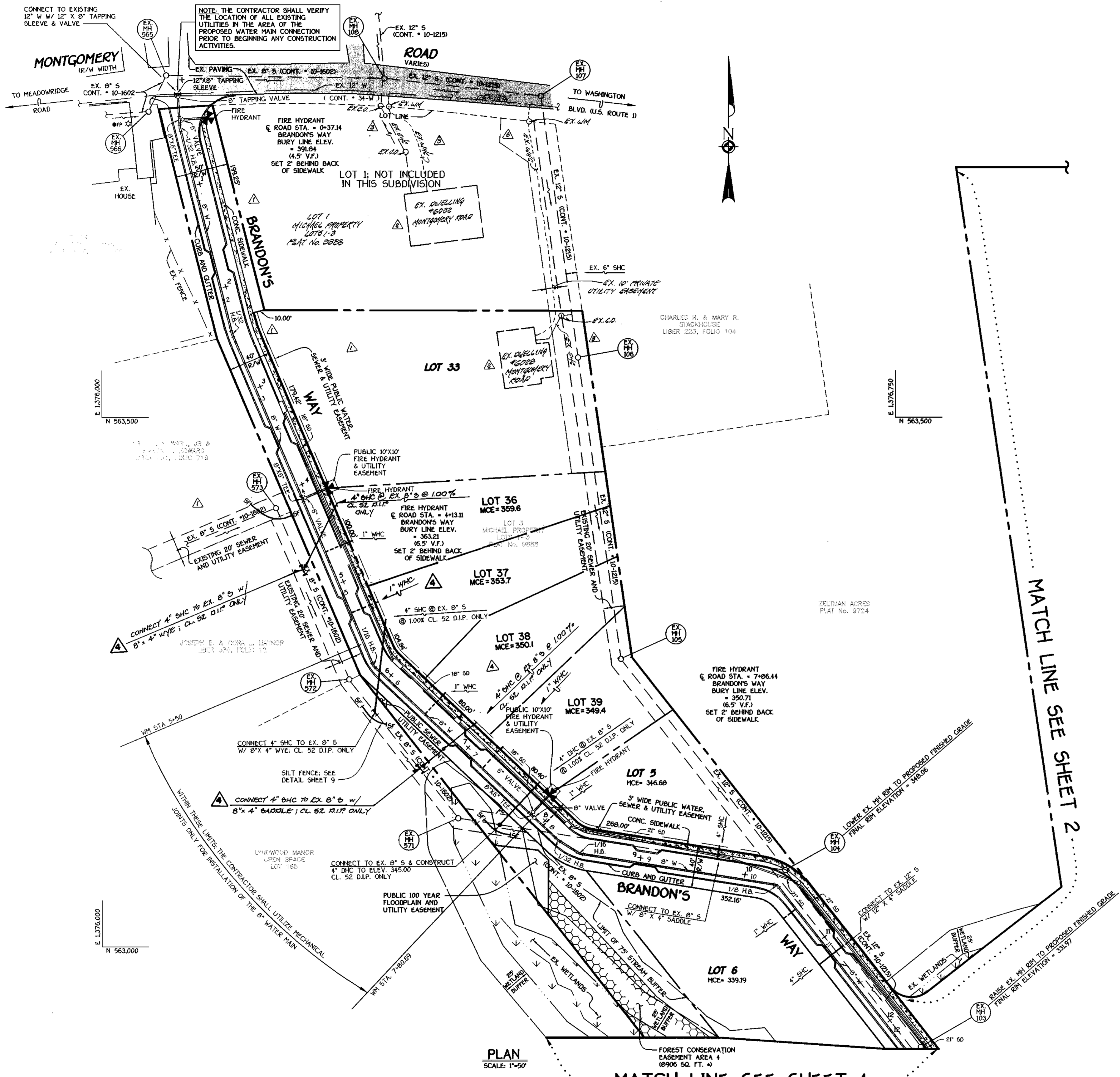
* SET RIM 1.5' ABOVE EXISTING GROUND
 ** SET RIM FLUSH W/ EXISTING OR PROPOSED FINISHED GRADE

PLAN SCALE: 1"=50'

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 2

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 5-5-00	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: 5/7/00		DESIGNED BY: D.A.R. DRAWN BY: J.C.L. CHECKED BY: P.M.J. DATE: APRIL, 2000	REVISION LOCATION OF SHC TO LOT 6 ADD MORE NOTES; REVISE CURB, GUTTER, & SIDEWALK; ADD 1/8\"/>	5-3-01 5-3-01 11-28-00 10-4-00 10-14-00 10-14-00	<h3>PLAN VIEW WATER AND SEWER MAINS</h3>	<h3>ROCKBURN VIEW</h3> LOTS 4 THRU 39 CONTRACT NO. 14-3794-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 3 OF 9
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WATER MAIN TABULATION CHART

WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
BRANDON'S WAY			
0+00	12" X 8" TAPPING SLEEVE	0+12.92	5.00' RT.
0+03	8" TAPPING VALVE	0+15.92	5.00' RT.
0+24.47	8" X 6" TEE	0+37.14	5.24' RT.
0+32.55	1/32 H.B.	0+44.98	5.79' RT.
2+32.86	1/32 H.B.	2+44.40	5.56' RT.
4+02.00	8" X 6" TEE	4+13.11	5.00' RT.
5+72.80	1/16 H.B.	5+82.72	6.18' RT.
7+77.89	8" X 6" TEE	7+86.44	5.00' RT.
7+80.69	8" VALVE	7+89.44	5.00' RT.
8+12.54	1/32 H.B.	8+21.29	5.00' RT.
8+36.97	1/16 H.B.	8+43.54	5.66' RT.
10+25.82	1/8 H.B.	10+32.58	1.67' RT.
12+44.74	1/16 H.B.	12+53.15	4.48' RT.
12+58.38	P.C. (CRIMP RADIUS=380')	12+68.35	6.00' RT.
13+09.41	P.T. (CRIMP RADIUS=380')	13+19.73	3.90' RT.
13+63.41	1/16 H.B.	13+73.33	5.33' RT.
13+66.41	P.C. (CRIMP RADIUS=380')	13+75.95	4.51' RT.
14+28.48	P.T. (CRIMP RADIUS=380')	14+36.52	5.00' RT.
15+92.92	8" X 6" TEE	16+00.97	5.00' RT.
16+87.77	1/8 H.B.	16+85.92	23.41' RT.
17+37.67	8" PLUG & BUTTRESS	L.P. STA.	5.79' RT.
ROCKBURN WOODS WAY			
0+00	12" X 8" TAPPING SLEEVE	0+10.88	5.00' RT.
0+03	8" TAPPING VALVE	0+13.88	5.00' RT.
0+43.75	P.C. (CRIMP RADIUS=380')	0+54.64	5.00' RT.
1+35.07	8" X 4" TEE	1+47.01	5.00' RT.
2+61.53	P.T. (CRIMP RADIUS=380')	2+75.17	5.00' RT.
4+28.08	8" X 6" TEE	4+41.72	5.00' RT.
4+54.08	8" X 8" TEE	4+67.72	5.00' RT.
4+57.08	8" X 6" REDUCER	4+70.72	5.00' RT.
5+12.46	6" PLUG & BUTTRESS	5+26.10	5.00' RT.
STREAM VALLEY LANE			
0+00	8" X 8" TEE	-0+05	5.00' LT.
0+03	8" VALVE	-0+02	5.00' LT.
1+34	8" PLUG & BUTTRESS	1+29	5.00' LT.
ACCESS DRIVE			
0+00	8" X 4" TEE	1+47.01	5.00' RT.
0+03	4" VALVE	1+47.01	8.00' RT.
0+25.48	1/32 H.B.	1+47.01	30.48' RT.
2+47.53	4" PLUG & BUTTRESS	---	---

MANHOLE TABULATION CHART

NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
1000	---	---	---	312.00 *
2000	---	---	---	314.59 **
2005	---	---	---	338.00 **
2010	IN CUL-DE-SAC; BRANDON'S WAY	---	---	345.60
2015	IN CUL-DE-SAC; BRANDON'S WAY	---	---	342.77
2020	14+89.54; BRANDON'S WAY	5' LT.	+5.12%	332.70
1005	---	---	---	309.00 *
1010	---	---	---	312.70 **
1015	---	---	---	325.40 **
1020	---	---	---	338.50 **
1025	---	---	---	337.70 **
1030	4+88.61; ROCKBURN WOODS WAY	5' LT.	+1.28%	339.63
1035	2+75.17; ROCKBURN WOODS WAY	5' LT.	-6.08%	344.65
1040	1+87.86; ROCKBURN WOODS WAY	5' LT.	-9.92%	351.93
1045	---	---	---	352.00 **
1050	---	---	---	362.95 **
1055	5+18.18; ROCKBURN WOODS WAY	5' LT.	+1.28%	340.01

* SET RIM 1.5' ABOVE EXISTING GROUND
 ** SET RIM FLUSH W/ EXISTING OR PROPOSED FINISHED GRADE

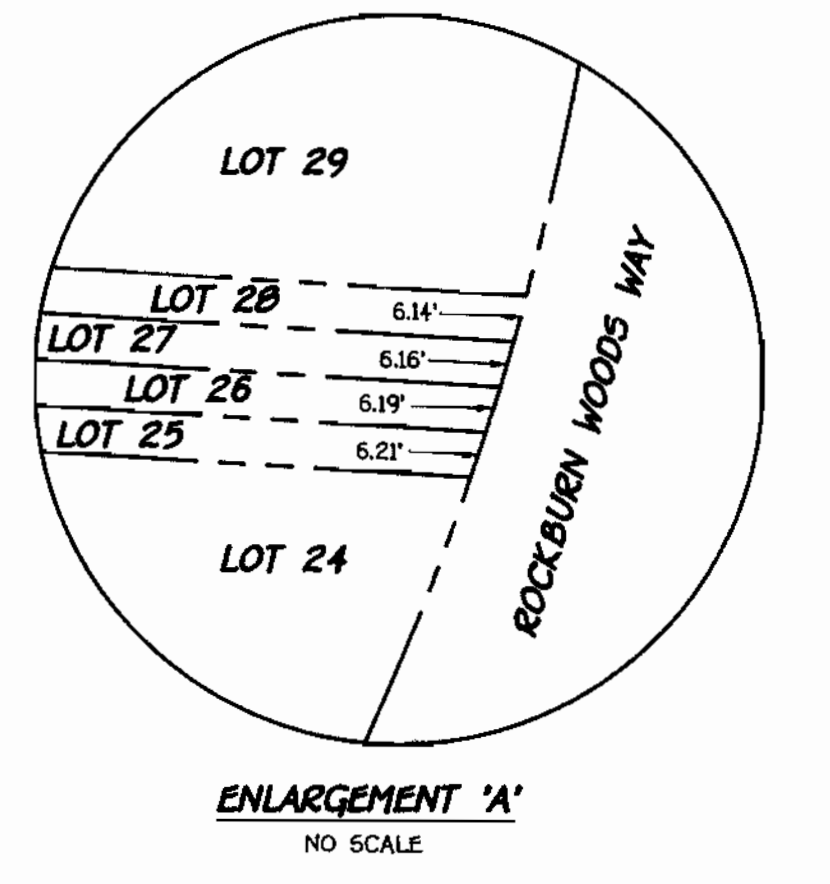
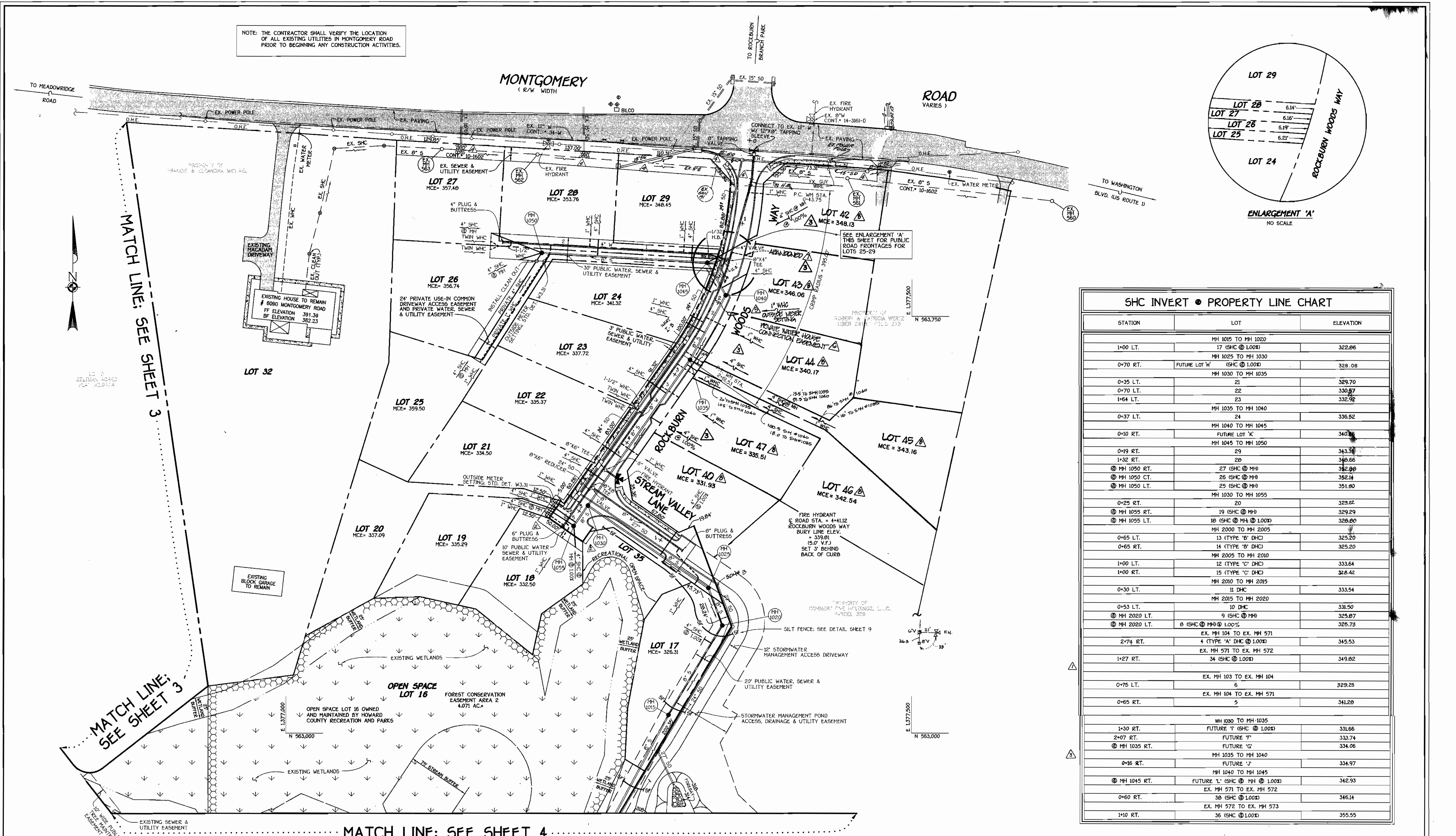
PLAN
SCALE: 1"=50'

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 2

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 5-5-00 DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND 5/17/00 DATE	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 1000 SOUTH GAITHERSBURG PARK - SUITE 100 GAITHERSBURG, MARYLAND 20878	DESIGNED BY: M.D.T. DRAWN BY: M.D.T. CHECKED BY: P.W.L. DATE: APRIL, 2000	J.C.L. Addition of connections for lots 36-39 P.W.L. SHOWN EXISTING SLEEVES TO LOTS 11-33 P.W.L. SHOWN EXISTING SLEEVES ON LOTS 11-33 P.W.L. DELETE SLEEVES WHICH SERVING TO LOTS PREVIOUSLY PROVIDED	11-28-00 08-14-00 08-14-00 REVISION	<h3 style="text-align: center;">PLAN VIEW WATER AND SEWER MAINS</h3> 600' SCALE MAP NO. 37 BLOCK NO. 4 F.C.C. WORK ORDER NO. 30810 FILE NAME: G:\30810\WBS\WATER\SEWER\PLANS\113	<h3 style="text-align: center;">ROCKBURN VIEW</h3> LOTS 4 THRU 39 CONTRACT NO. 14-3794-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 3 OF 9
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NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN MONTGOMERY ROAD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



SHC INVERT • PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+00 LT.	MH 1015 TO MH 1020 17 (SHC @ 1.00%)	322.06
0+70 RT.	MH 1025 TO MH 1030 FUTURE LOT 'H' (SHC @ 1.00%)	328.08
0+35 LT.	MH 1030 TO MH 1035 21	329.70
0+70 LT.	22	330.57
1+64 LT.	23	332.92
0+37 LT.	MH 1035 TO MH 1040 24	336.52
0+10 RT.	MH 1040 TO MH 1045 FUTURE LOT 'K'	340.16
0+19 RT.	MH 1045 TO MH 1050 29	343.34
1+32 RT.	20	348.66
⊙ MH 1050 ST.	27 (SHC @ MH)	352.00
⊙ MH 1050 CT.	26 (SHC @ MH)	352.14
⊙ MH 1050 LT.	25 (SHC @ MH)	351.80
0+25 RT.	MH 1030 TO MH 1055 20	329.22
⊙ MH 1055 RT.	19 (SHC @ MH)	329.29
⊙ MH 1055 LT.	18 (SHC @ MH @ 1.00%)	328.00
0+65 LT.	MH 2000 TO MH 2005 13 (TYPE 'B' DHC)	325.20
0+65 RT.	14 (TYPE 'B' DHC)	325.20
1+00 LT.	MH 2005 TO MH 2010 12 (TYPE 'C' DHC)	333.64
1+00 RT.	15 (TYPE 'C' DHC)	328.42
0+30 LT.	MH 2010 TO MH 2015 11 DHC	333.54
0+53 LT.	MH 2015 TO MH 2020 10 DHC	331.50
⊙ MH 2020 LT.	9 (SHC @ MH)	325.07
⊙ MH 2020 LT.	8 (SHC @ MH @ 1.00%)	325.73
2+74 RT.	EX. MH 104 TO EX. MH 571 4 (TYPE 'A' DHC @ 1.00%)	345.53
1+27 RT.	EX. MH 571 TO EX. MH 572 34 (SHC @ 1.00%)	349.82
0+75 LT.	EX. MH 103 TO EX. MH 104 6	329.25
0+65 RT.	EX. MH 104 TO EX. MH 571 5	341.28
1+30 RT.	MH 1030 TO MH 1035 FUTURE 'I' (SHC @ 1.00%)	331.66
2+07 RT.	FUTURE 'I'	333.74
⊙ MH 1035 RT.	FUTURE 'G'	334.06
0+16 RT.	MH 1035 TO MH 1040 FUTURE 'J'	334.97
⊙ MH 1045 RT.	MH 1040 TO MH 1045 FUTURE 'L' (SHC @ MH @ 1.00%)	342.93
0+60 RT.	EX. MH 571 TO EX. MH 572 30 (SHC @ 1.00%)	346.14
1+10 RT.	EX. MH 572 TO EX. MH 573 36 (SHC @ 1.00%)	355.55

MATCH LINE; SEE SHEET 4

PLAN SCALE: 1"=50'

REV	DATE	DESCRIPTION
1	3/20/05	REVISE LOT NO'S FOR CONSISTENCY W/ PLAT NO. 1017B
2	3/20/05	INDICATE ABANDONED WATER HOUSE CONNECTION
3	3/20/05	INDICATE PRIVATE WATER HOUSE CONNECTION EASEMENT
4	3/20/05	INDICATE DO-BUILT LOCATION OF WATER HOUSE CONNECTION
5	5-3-01	REVISE LOCATION OF PAVES 6.0' REALIGN W/M ACCORDINGLY
6	11-28-00	ADDITION OF CONNECTIONS FOR FUTURE LOTS
7	04-14-00	INCREASE PAVING OF TEE-TURN AROUND, ADJUST SLOPES
8	04-14-00	REVISE SHC'S SERVICE TO LOT PREVIOUSLY PROVIDED

PLAN VIEW WATER AND SEWER MAINS

60' SCALE MAP NO. 37 BLOCK NO. 4
F.C.C. WORK ORDER NO. 30910
FILE NAME: G:\30610\30610\WATERSEWER\PLANS\PLAN12

CONTRACT NO. 14-3794-D
ROCKBURN VIEW
LOTS 4 THRU 39
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

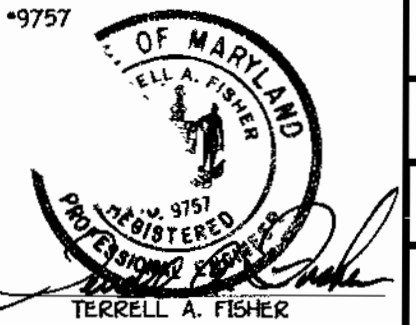
ROCKBURN VIEW
LOTS 4 THRU 39
CONTRACT NO. 14-3794-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 9

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-5-00
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
5/17/04
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10000 SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21114



DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.K.
DATE: APRIL, 2000