


GENERAL NOTES

PART I

- 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 DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
 - C. & P. TELEPHONE 597-8686
 - A.T. & T. 865-3803
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - B.G.E. CO. CONTRACTOR SERVICES 850-4620
 - B.G.E. CO. UNDER GROUND DAMAGE CONTROL 787-9269
 - MESS UTILITY 1-800-257-7777
 - COLONIAL PIPELINE CO. 795-1390
 - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 313-4900
 - BUREAU OF UTILITIES

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (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 MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO 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 ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 18" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

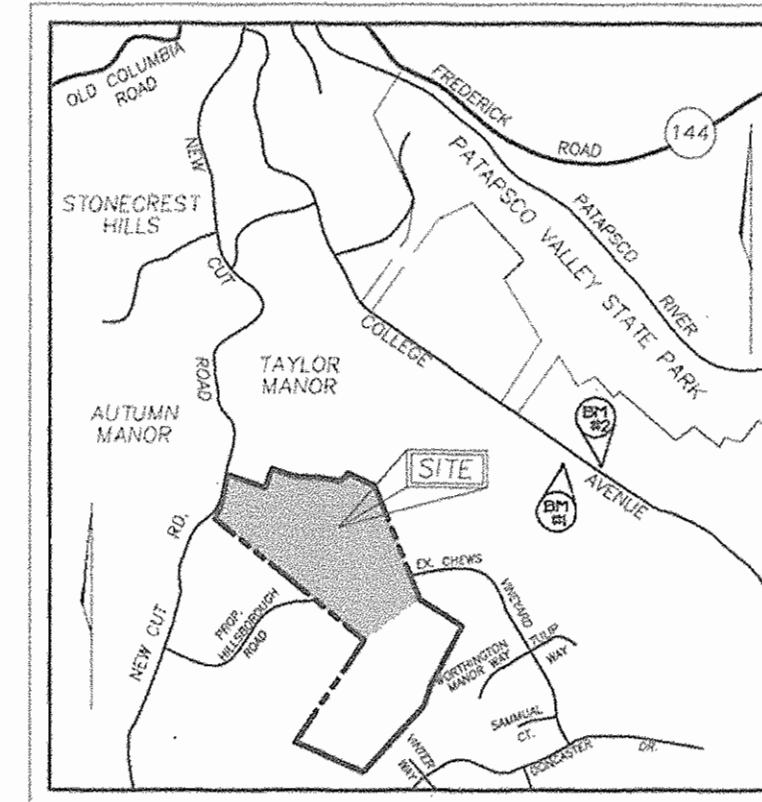
TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	45
NO. OF WATER HOUSE CONNECTIONS:	42, 11 FUTURE
NO. OF SEWER HOUSE CONNECTIONS:	42, 11 FUTURE
DRAINAGE AREA:	PATUXENT
TREATMENT PLANT:	NEW CUT ROAD WASTEWATER PUMPING STATION

WORTHINGTON FIELDS

PHASE 1 LOTS 1-42 AND 145-148

HOWARD COUNTY, MARYLAND

CONTRACT NO. #14-3855-D

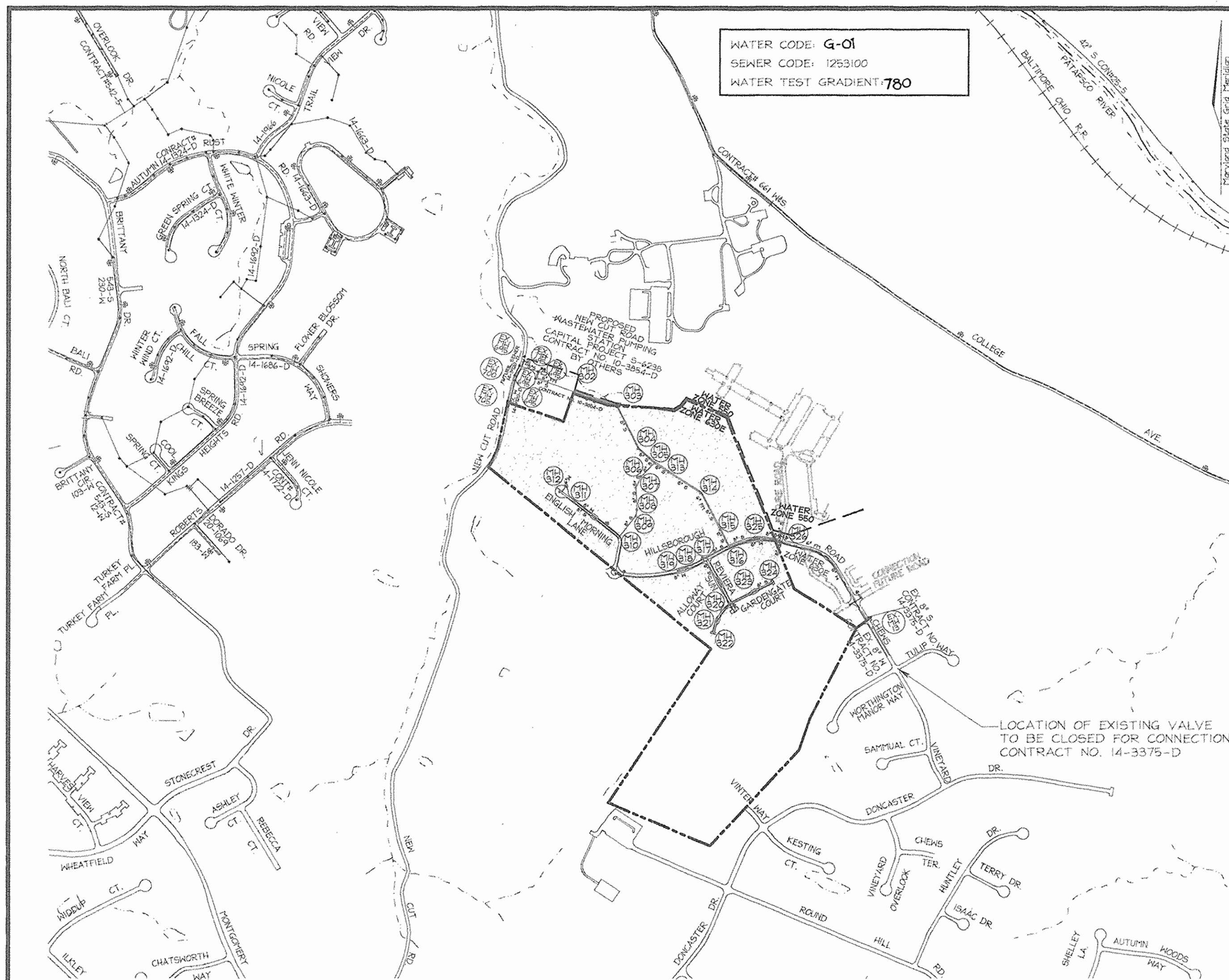


VICINITY MAP
SCALE: 1"=200'

BENCHMARKS

BENCHMARK NO. 1, COUNTY CONTROL #3044005R
3/4" REBAR 0.8' BELOW SURFACE
N. 578233.92, E. 137342.33
ELEV. = 374.389'

BENCHMARK NO. 2, COUNTY CONTROL #3044004R
3/4" REBAR 0.6' BELOW SURFACE
N. 578126.03, E. 137346.71
ELEV. = 362.575'



LOCATION PLAN
SCALE: 1"=600'

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
MANHOLE	25 EA.	25 EA.	PRECAST	ATLANTIC PRECAST
8" SEWER	4,843 LF	4083	DIP PVC	GRIFFIN / SM / BELAIR RD. SUPPLY
6" VALVE	7 EA.	7 EA.	R.S.	MUELLER / BELAIR RD. SUPPLY
8" VALVE	14 EA.	14 EA.	R.S.	" / " / " "
8"X8" CROSS	3 EA.	3 EA.		U.S. PIPE / " / " "
8"X6" TEE	7 EA.	7 EA.		" / " / " "
8"X8" TEE	3 EA.	3 EA.		" / " / " "
FIRE HYDRANT	7 EA.	7 EA.		MUELLER / " / " "
8"X6" REDUCER	7 EA.	7 EA.		U.S. PIPE / " / " "
8" CAP & BUTTRESS	9 EA.	9 EA.		" / " / " "
6" WATER	208 LF	218	DIP	GRIFFIN / " / " "
8" WATER	4,250 LF	3688	DIP	" / " / " "
AIR RELEASE MH	1 EA.	1 EA.		CRISPIN / " / " "
1" COPPER	1157	1157	K	READINGS / " / " "

NOTE:
THE ORIGINAL WATER AND SEWER CONSTRUCTION PLANS WILL NOT BE APPROVED AND SIGNED UNTIL THE DEVELOPER AGREEMENT FOR NEW CUT ROAD WASTE WATER PUMPING STATION IS APPROVED AND DEVELOPER AGREEMENT EXECUTED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-01-60.

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

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

John P. Polunco 2/15/01
SOIL CONSERVATION DISTRICT DATE

Jim Mays 2/15/01
U.S. SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Robert H. Vogels 02/02/01
CHIEF, BUREAU OF UTILITIES DATE

John P. Polunco 2/16/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



3891 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.3828 Fax 410.465.3966



ROBERT H. VOGELS, P.E. NO. 16193

DES: RJ				
DRN: RJ				
CHK: JCO	KC1	2	ASBUILT DATA	10/02/02
DATE: DEC. 2000	RJ	1	COUNTY COMMENTS	01/02/01
	BY NO.		REVISION	DATE

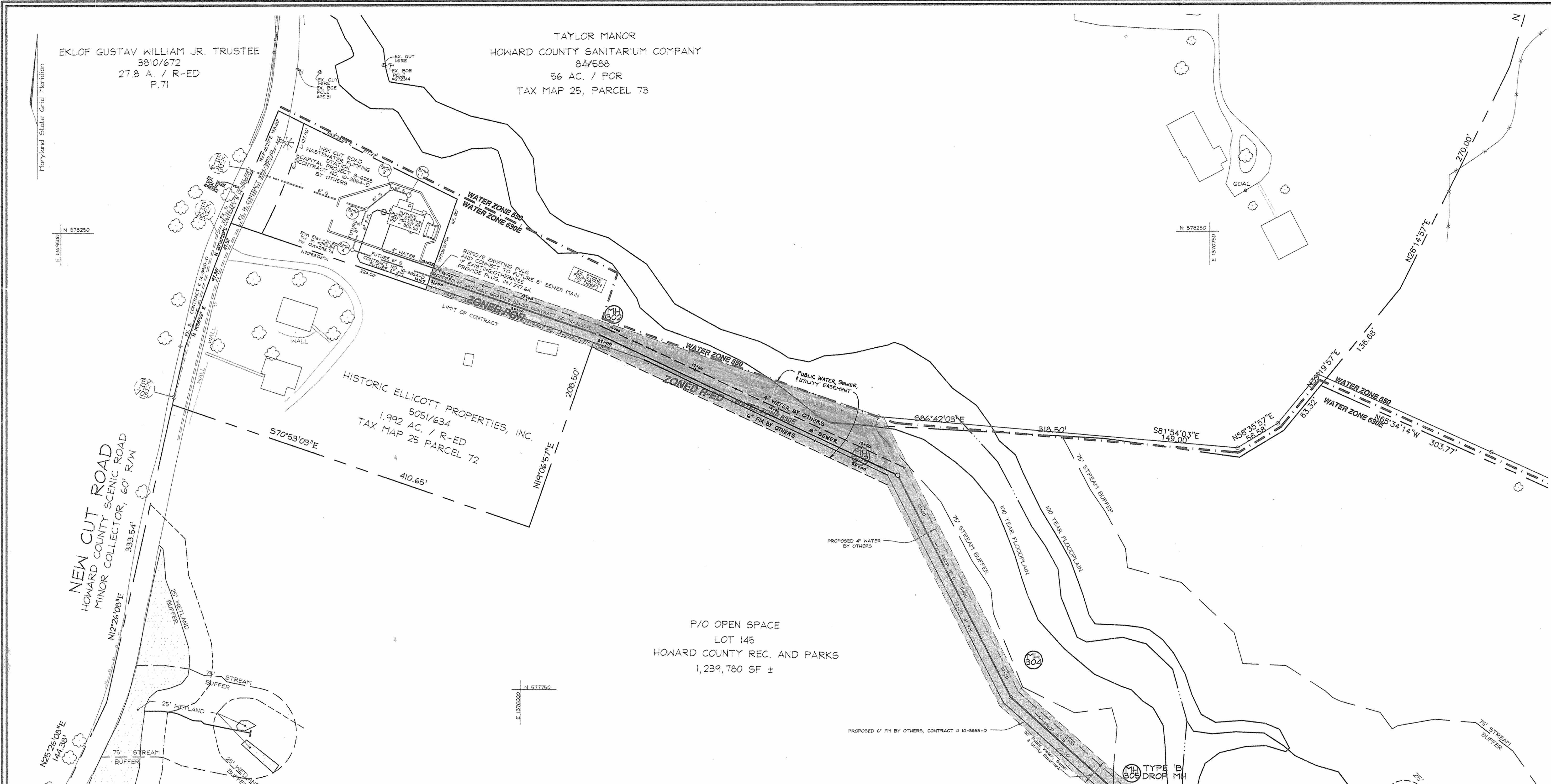
TITLE SHEET

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D



TAX MAP #25, GRID 20 & #31, 2ND ELECTION DISTRICT
GRID 2 P/O PARCEL '68', HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 9



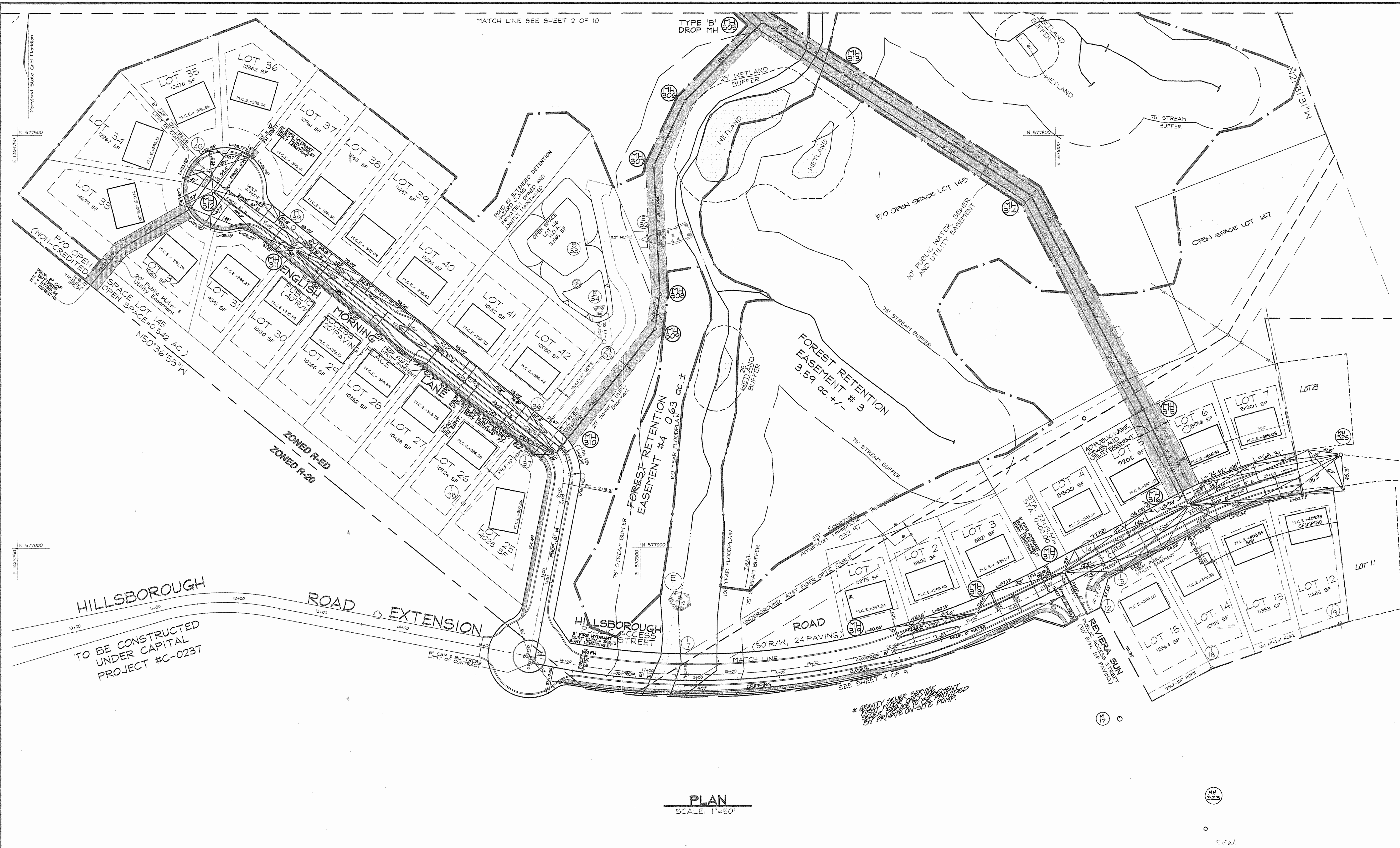
MATCH LINE SEE SHEETS OF 10

PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert H. ...</i> CHIEF, BUREAU OF UTILITIES 02-02-01 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	 VOGEL & ASSOCIATES ENGINEERS-SURVEYORS-PLANNERS 3591 Park Avenue, Suite 101 • Ellicott City, Maryland 21043 Tel 410.481.5828 Fax 410.485.3965	 ROBERT H. ... PROFESSIONAL ENGINEER NO. 16193	DES: RJ DRN: RJ CHK: JCO DATE: DEC. 2000	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>JT</td> <td>2</td> <td>REVISE UTILITIES AND EASEMENT</td> <td>12/17/01</td> </tr> <tr> <td>RJ</td> <td>1</td> <td>COUNTY COMMENTS</td> <td>01/02/01</td> </tr> <tr> <td>BY</td> <td>NO.</td> <td>REVISION</td> <td>DATE</td> </tr> </table>	JT	2	REVISE UTILITIES AND EASEMENT	12/17/01	RJ	1	COUNTY COMMENTS	01/02/01	BY	NO.	REVISION	DATE	WATER & SEWER PLAN 600' SCALE MAP NO. 25 BLOCK NO. 14	WORTHINGTON FIELDS PHASE I LOTS 1-42 AND 145-148 AND NON-BUILDABLE PARCELS 'A' AND 'B' CONTRACT NO. 14-3855-D TAX MAP #25, GRID 20 & #31, 2ND ELECTION DISTRICT GRID 2 P/O PARCEL '98' HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 9
JT	2	REVISE UTILITIES AND EASEMENT	12/17/01																	
RJ	1	COUNTY COMMENTS	01/02/01																	
BY	NO.	REVISION	DATE																	

MATCH LINE SEE SHEET 2 OF 10

TYPE 'B' DROP MH



PLAN
SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert H. Vogel
CHIEF, BUREAU OF UTILITIES

02-02-01
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

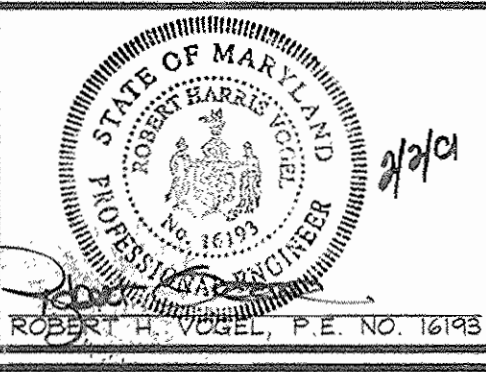
Robert H. Vogel
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/6/01
DATE

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.481.5826 Fax 410.485.3666

ROBERT H. VOGEL, P.E. NO. 16193



DES: RJ			
DRN: RJ			
CHK: RHV	C/S 3 ADD NOTE, LOT 1, AS-BUILT DATA	5-31-04	
	KCI 2 ASBUILT DATA	10/02/02	
	RJ 1 COUNTY COMMENTS	01/02/01	
DATE: DEC. 2000	BY NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

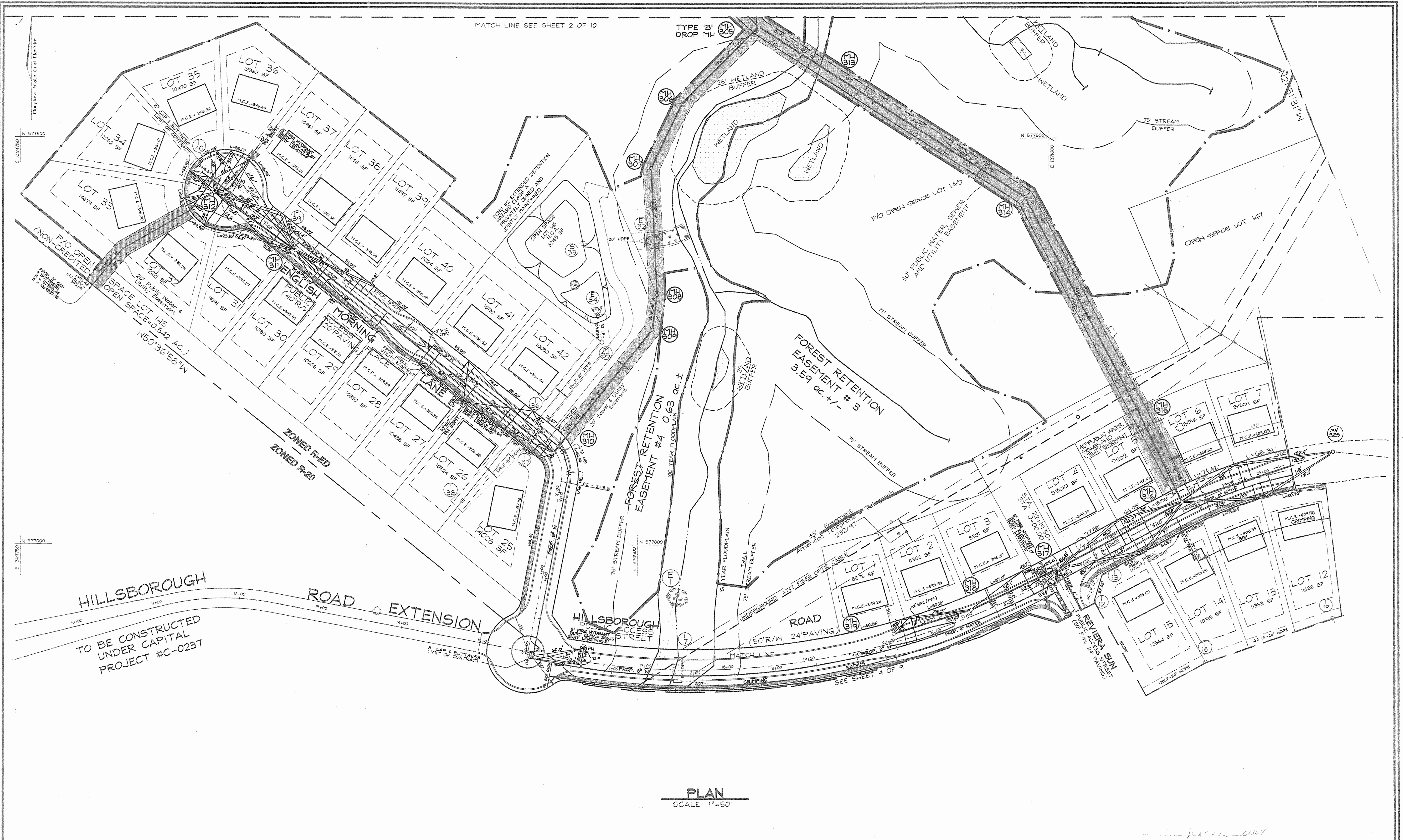
WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 3 OF 9



PLAN
SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert H. Vogel
CHIEF, BUREAU OF UTILITIES

02-02-01
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Robert H. Vogel
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/6/01
DATE

VAVOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3891 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel: 410.461.5828 Fax: 410.465.3965

STATE OF MARYLAND
APPROVED
ROBERT H. VOGEL, P.E. NO. 16103

DES:	RJ			
DRN:	RJ			
CHK:	RHV	JCO 3	REVISE TWIC TO SINGLE WHIC PER AS-BUILT	1/27/03
DATE:	DEC 2000	KCI 2	AS-BUILT DATA	10/02/02
		RJ 1	COUNTY COMMENTS	01/02/01
		BY NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

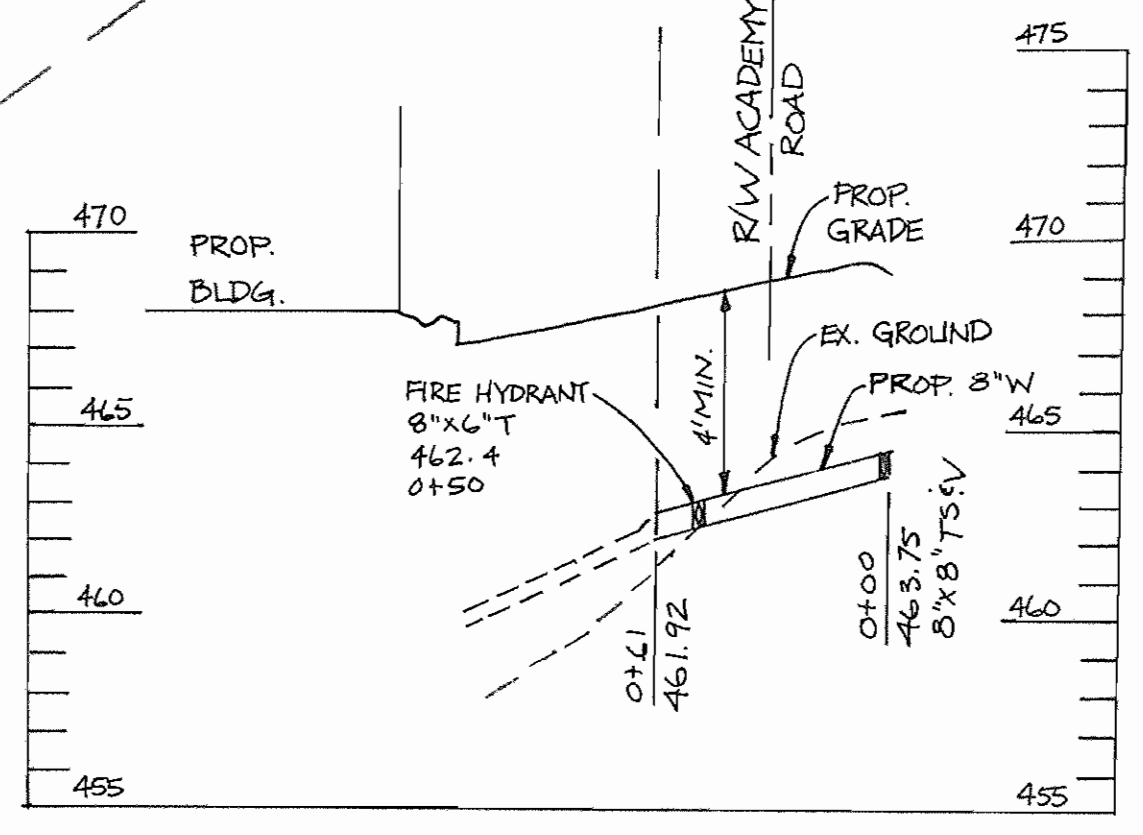
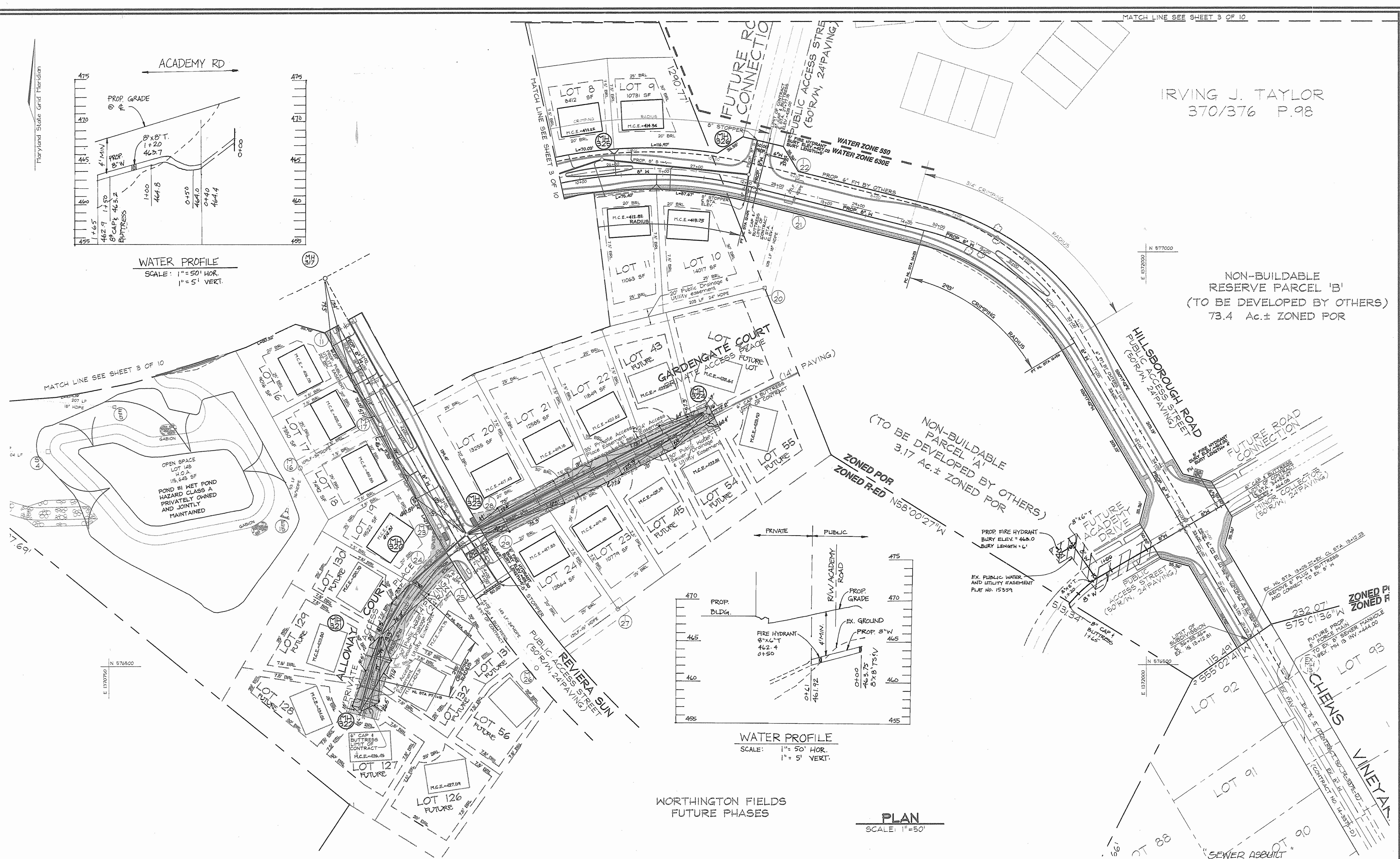
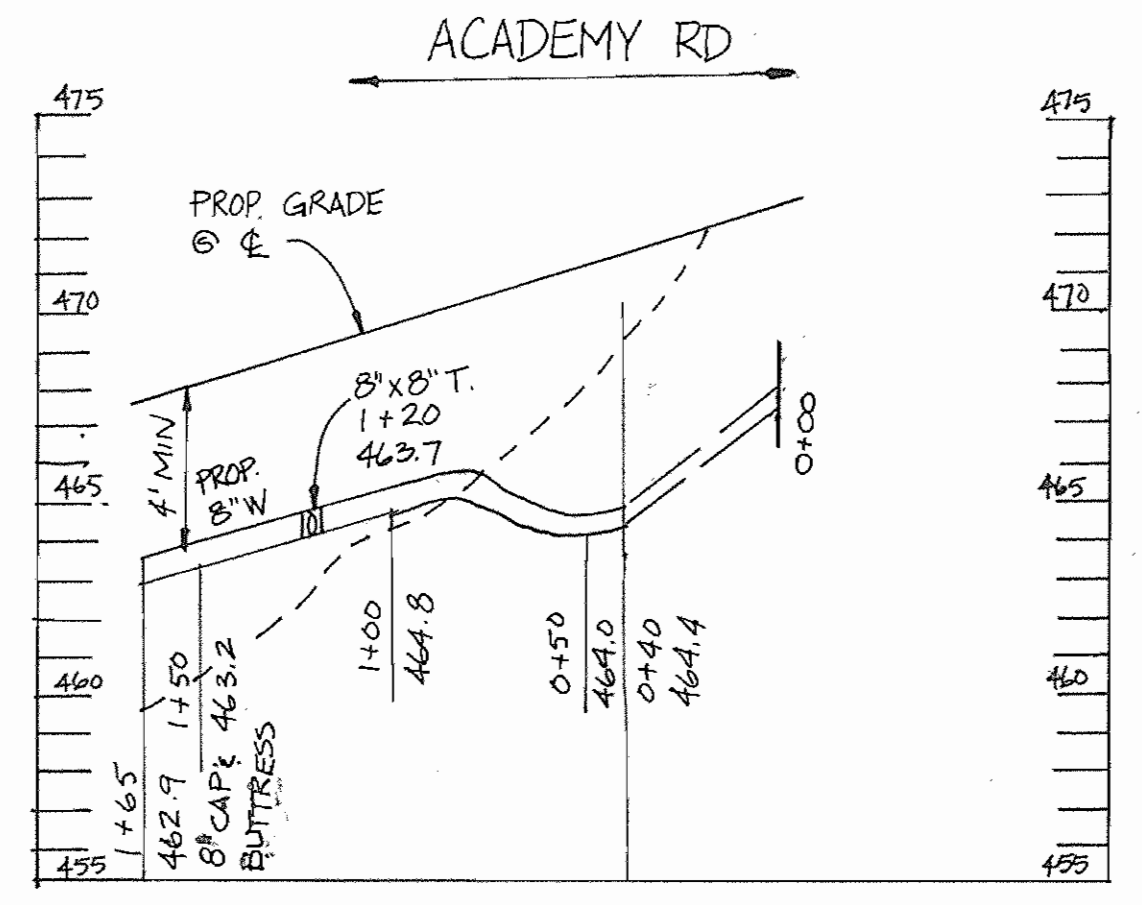
TAX MAP #2: GRID 20 & #31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '08'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 3A OF 9

IRVING J. TAYLOR
370/376 P.98



NON-BUILDABLE
RESERVE PARCEL 'B'
(TO BE DEVELOPED BY OTHERS)
73.4 Ac.± ZONED FOR

NON-BUILDABLE
PARCEL 'A'
(TO BE DEVELOPED BY OTHERS)
3.17 Ac.± ZONED FOR

ZONED P1
ZONED R

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

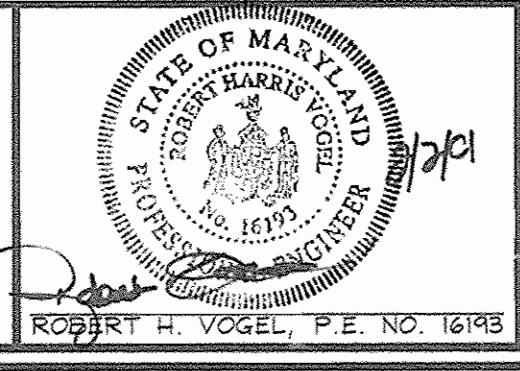
Robert H. Vogels
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Robert H. Vogels
CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
ENGINEERS SURVEYORS PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DES: RJ			
DRN: RJ	KCI 4	REV. LOT 17 TO SHOW AS-BUILT TIE ELEV.	5/31/04
CHK: RHV	JCO 2	AS-BUILT DATA	10/01/02
DATE: DEC. 2000	RJ 1	EXTEND WATER MAIN - ACADEMY DR.	07/05/02
	BY NO.	COUNTY COMMENTS	01/02/01
		REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31, 2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

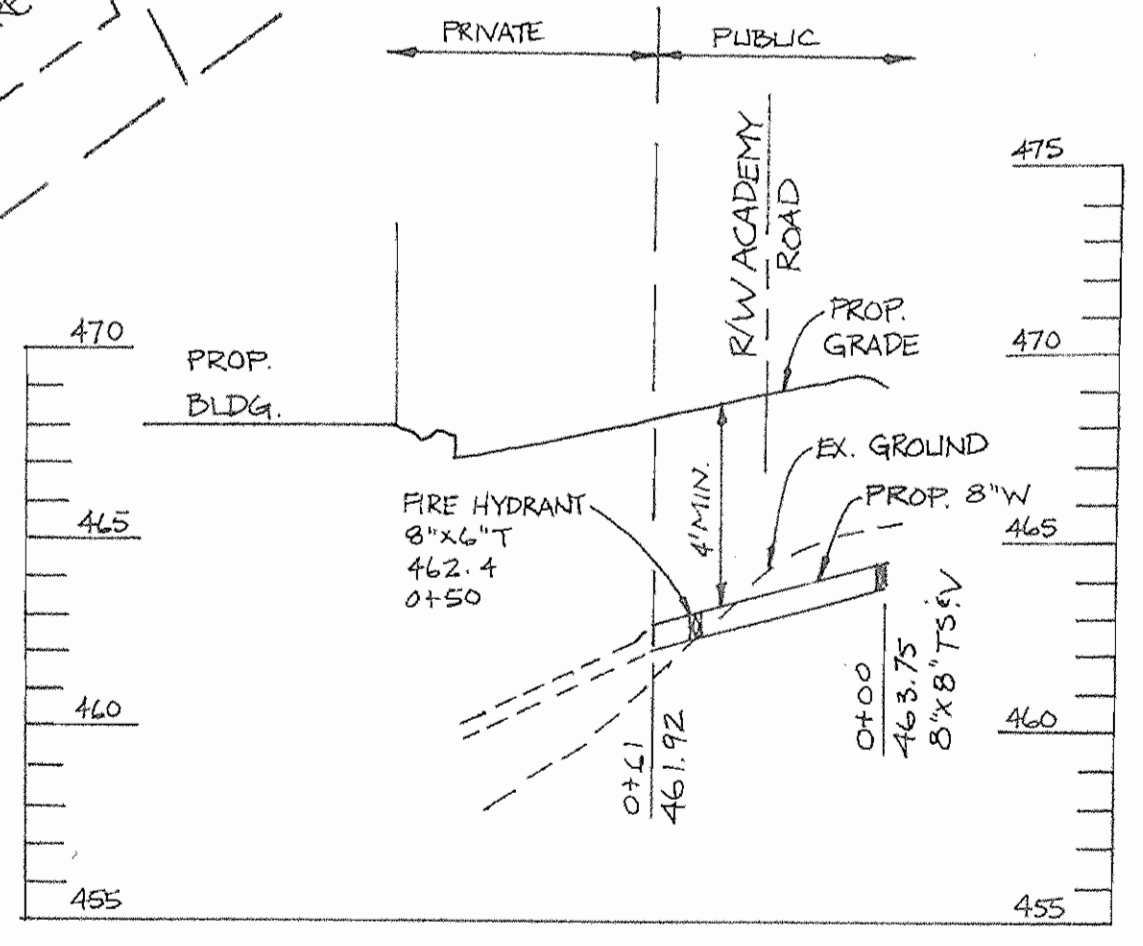
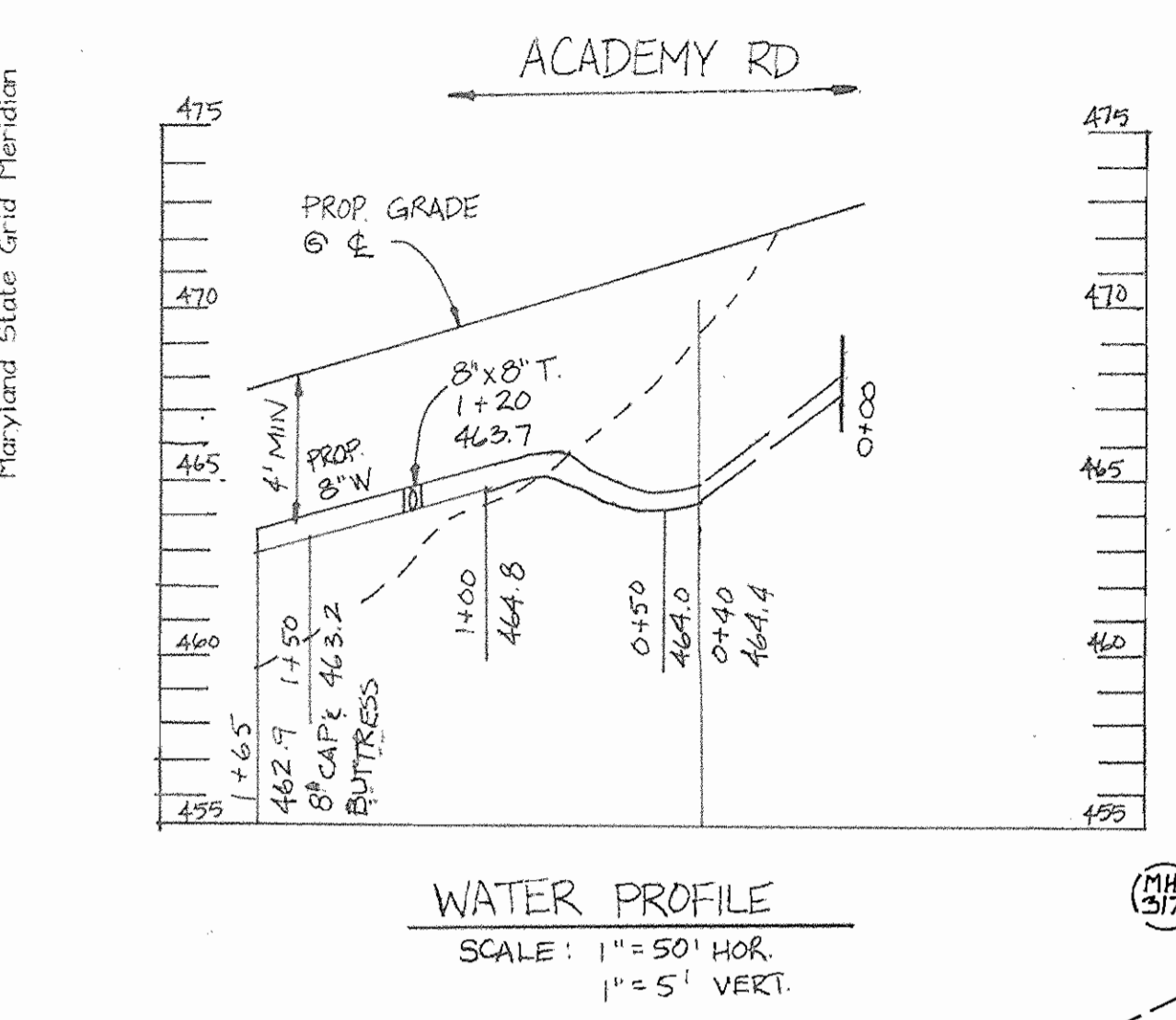
SCALE AS SHOWN
SHEET 4 OF 9

IRVING J. TAYLOR
370/376 P.98

NON-BUILDABLE
RESERVE PARCEL 'B'
(TO BE DEVELOPED BY OTHERS)
73.4 Ac.± ZONED FOR

NON-BUILDABLE
RESERVE PARCEL 'A'
(TO BE DEVELOPED BY OTHERS)
3.17 Ac.± ZONED FOR

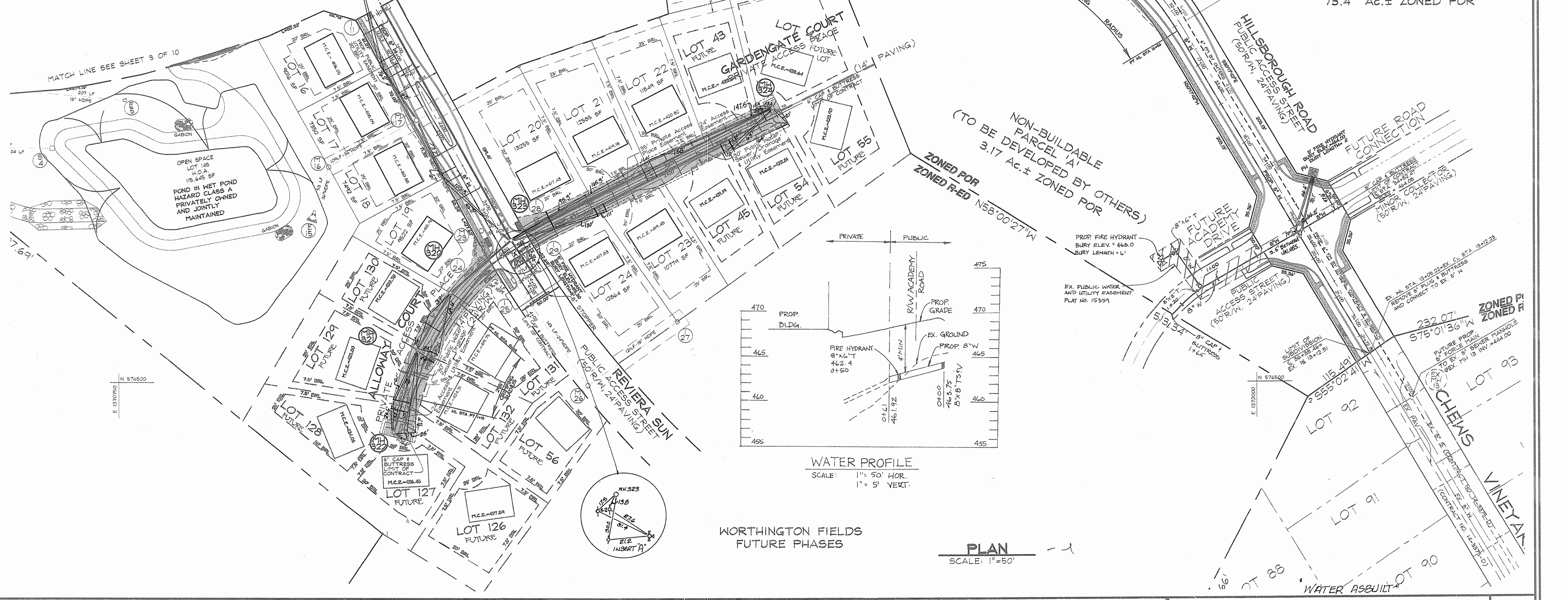
ZONED P1
ZONED F



WATER PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VERT.

PLAN
SCALE: 1" = 50'

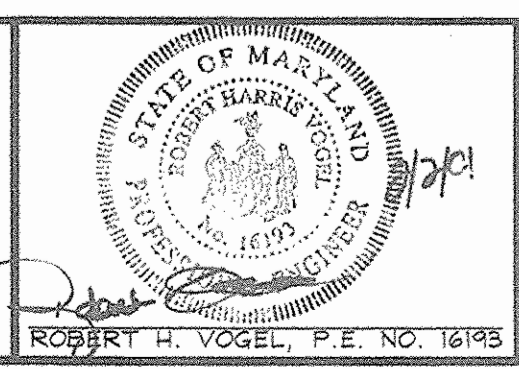
MATCH LINE SEE SHEET 3 OF 10



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert H. Vogels
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Robert H. Vogels
CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.451.5828 Fax 410.455.3966



NO.	REVISION	DATE
JCO 4	REVISE TWING TO SINGLE W/LC PER AS-BUILT	1/27/03
KCI 3	AS-BUILT DATA	10/01/02
JCO 2	EXTEND WATER MAIN - ACADEMY DR	07/05/02
RJ 1	COUNTY COMMENTS	01/02/01

DES: RJ
DRN: RJ
CHK: RHV
DATE: DEC 2000

WATER & SEWER PLAN
600' SCALE MAP NO. 25 BLOCK NO. 14

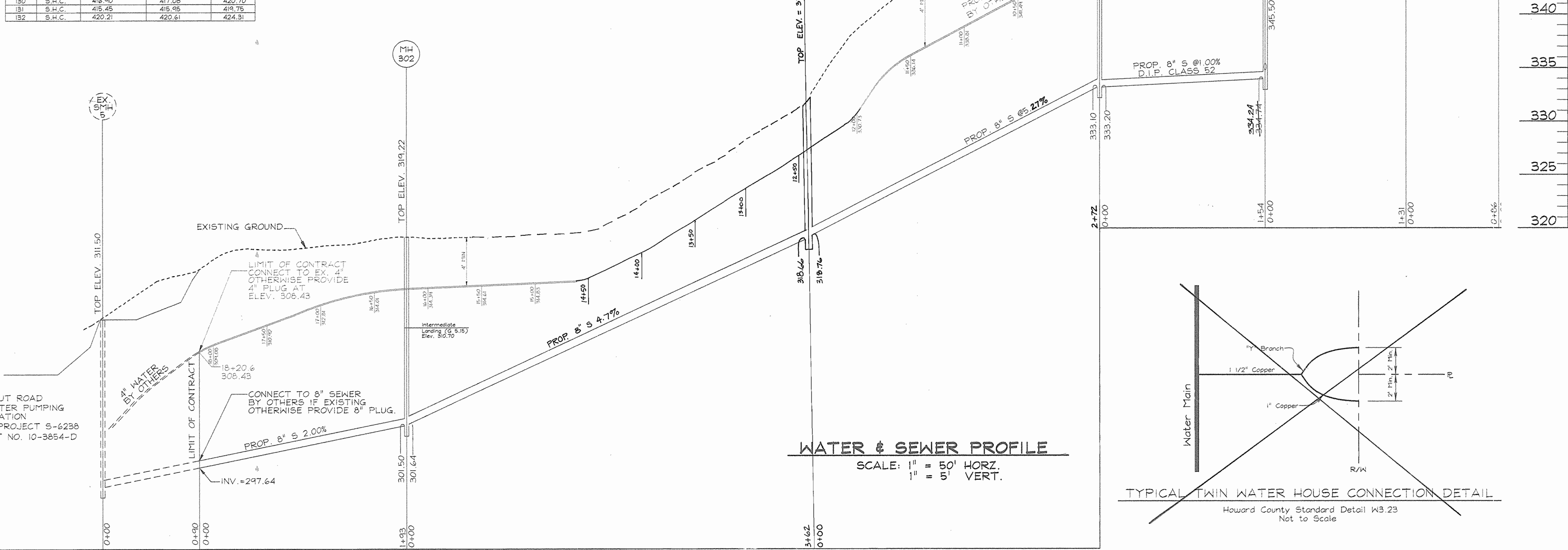
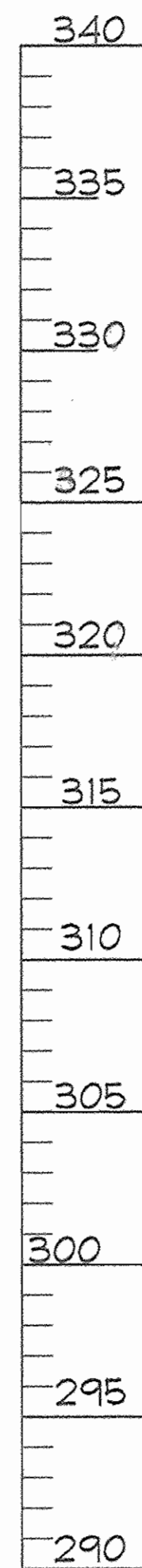
WORTHINGTON FIELDS
PHASE I LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D
TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT
GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4A OF 9

CL. STATION	APPERTURANCE	OFFSET
HILLSBOROUGH ROAD		
15+32.82	8" X 8" TEE	7' 0" RT.
15+32.82	8" V	3.28' RT.
15+47.22	8" V	7' 0" RT.
16+22.58	8" X 8" TEE	7.29' RT.
16+22.58	8" V	3.79' RT.
21+48.37	8" X 8" TEE	7' 00" RT.
21+48.37	8" V	3.05' RT.
22+12.50	8" X 8" TEE	7' 00" RT.
22+12.50	8" V	10.74' RT.
22+16.30	8" V	7' 02" RT.
27+77.18	8" X 8" CROSS	7' 00" RT.
27+77.18	8" V	2.92' RT.
27+77.18	8" V	10.85' RT.
27+72.41	8" V	6.92' RT.
27+81.31	8" V	7.05' RT.
REVIERA SUN		
3+91.07	8" TEE	7' RT.
3+91.07	8" TEE	7' RT.
3+26.84	8" TEE	7' RT.
3+91.07	8" V	3.37' LT.
3+26.84	8" V	3.37' LT.
34+82.59	8" X 8" CROSS	7' RT.
34+82.59	8" V	1.66' RT.
34+82.59	8" V	12.40' RT.
34+82.59	8" T	41.04' LT.
34+77.21	8" V	41.04' LT.
ENGLISH MORNING		
2+24.38	1/16" HB	8.36' RT.
2+47.67	1/16" HB	8.48' RT.
2+52.84	1/32" HB	7' 0" RT.
5+33.00	8" X 8" TEE	5' 0" RT.
7+76.64	8" TEE	11.5' RT.
7+76.64	8" V	4.72' RT.

LOT NO.	TYPE	ELEVATION @ MAIN	ELEVATION @ R/W	M.C.E.
HILLSBOROUGH ROAD				
1	S.H.C.	395.44	395.76	394.24
2	S.H.C.	395.22	395.48	394.98
3	S.H.C.	394.57	394.84	393.37
4	S.H.C.	393.84	394.25	393.14
5	S.H.C.	393.25	393.57	392.47
6	S.H.C.	408.10	406.50	406.50
7	S.H.C.	405.62	406.12	405.08
8	S.H.C.	408.52	408.90	412.22
9	S.H.C.	410.80	411.16	414.36
10	S.H.C.	412.94	412.95	415.75
11	S.H.C.	404.52	410.26	412.82
12	S.H.C.	405.46	407.00	409.98
13	S.H.C.	404.78	405.36	408.34
14	S.H.C.	393.25	393.85	398.35
15	S.H.C.	393.70	394.34	398.00
REVIERA SUN				
16	S.H.C.	401.74	402.38	406.08
17	S.H.C.	403.44	404.54	408.04
18	S.H.C.	406.74	407.38	410.88
19	S.H.C.	409.91	410.51	414.31
GARDENGATE COURT				
20	S.H.C.	413.81	414.03	417.43
21	S.H.C.	415.48	415.68	419.18
22	S.H.C.	417.04	417.22	420.82
23	S.H.C.	415.48	415.88	419.48
24	S.H.C.	413.81	414.23	417.83
ENGLISH MORNING				
25	S.H.C.	383.44	383.76	387.86
26	S.H.C.	382.46	382.78	386.28
27	S.H.C.	384.54	384.86	388.36
28	S.H.C.	385.95	386.34	389.84
29	S.H.C.	387.28	387.60	391.10
30	S.H.C.	388.70	389.02	392.52
31	S.H.C.	390.05	390.37	394.27
32	S.H.C.	391.04	391.84	395.74
33	S.H.C.	391.42	392.20	396.20
34	S.H.C.	391.42	392.22	396.12
35	S.H.C.	391.42	392.36	396.36
36	S.H.C.	391.38	392.54	396.64
37	S.H.C.	390.55	391.11	395.01
38	S.H.C.	389.40	389.88	394.38
39	S.H.C.	388.11	388.54	392.04
40	S.H.C.	386.45	386.98	390.43
41	S.H.C.	384.54	385.02	388.52
42	S.H.C.	382.46	382.94	386.44
GARDENGATE COURT				
43	S.H.C.	418.84	419.32	422.64
44	S.H.C.	419.90	420.08	423.64
45	S.H.C.	417.19	417.84	421.14
54	S.H.C.	418.71	419.11	422.81
55	S.H.C.	419.90	420.14	423.90
ALLOWAY COURT				
126	S.H.C.	421.84	422.24	427.54
127	S.H.C.	422.85	422.98	426.45
128	S.H.C.	422.66	422.86	424.06
129	S.H.C.	419.90	420.10	423.80
130	S.H.C.	416.90	417.08	420.70
131	S.H.C.	415.45	415.95	419.75
132	S.H.C.	420.21	420.61	424.31

MANHOLE NO.	TYPE	LOCATION	CL. ROAD STATION	OFFSET	TOP ELEVATION	
301	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 578237.4085 E 1369775.5395			304.71	
302	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 578158.4896 E 1370083.8477			313.22	
303	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577462.3200 E 1370410.9500			335.80	
304	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577740.5552 E 1370583.1456			351.06	
305	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577637.0830 E 1370647.1974			351.06	
306	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577541.5748 E 1370653.4287			366.54	
307	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577463.5149 E 1370616.4131			364.00	
308	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577307.7547 E 1370523.6385			364.00	
309	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577285.1479 E 1370517.8568			367.34	
310	STD. PRECAST MH HO. CO. STD. DET. G5.12	ENGLISH MORNING LANE	2+51.94	2.53' LT.	392.24	
311	STD. PRECAST MH HO. CO. STD. DET. G5.12	ENGLISH MORNING LANE	6+53.04	5' 0" LT.	403.44	
312	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577432.84 E 1369985.35		7+75.45	10.98' LT.	400.55
313	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577574.4879 E 1370743.7633			353.74	
314	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577427.1936 E 1370910.6736			409.33	
315	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577168.0261 E 1371106.0117			403.00	
316	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	23+97.04	7' 00' LT.	412.95	
317	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	22+26.50	7' 00' LT.	408.91	
318	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	21+8.62	7.61' RT.	406.11	
319	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	20+8.58	10.65' RT.	403.64	
320	STD. PRECAST MH HO. CO. STD. DET. G5.12	REVIERA SUN	0+78.84	10.41' LT.	424.36	
321	STD. PRECAST MH HO. CO. STD. DET. G5.12	ALLOWAY COURT	1+50	8' 00" RT.	427.27	
322	STD. PRECAST MH HO. CO. STD. DET. G5.12	ALLOWAY COURT	2+44.62	4.88' RT.	431.14	
323	STD. PRECAST MH HO. CO. STD. DET. G5.12	REVIERA SUN	3+48.26	7' 00' LT.	421.83	
324	STD. PRECAST MH HO. CO. STD. DET. G5.12	GARDENGATE COURT	3+30.04	7' 00' LT.	428.14	
325	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	25+76.30	13.85' LT.	421.83	
326	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	27+62.33	6.98' LT.	431.54	



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3681 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.661.5828 Fax 410.465.3866



DES: RJ

DRN: RJ

CHK: RHV

DATE: DEC. 2000

BY	NO.	REVISION	DATE
RFJ	1	REV. SEWER TABULATION CHART - LOT 19	5/31/03
JCO	3	DELETE TWIN WATER HOUSE CONNECTION	11/27/03
JT	2	REVISE PROFILE	12/17/01
RJ	1	COUNTY COMMENTS	01/02/01

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

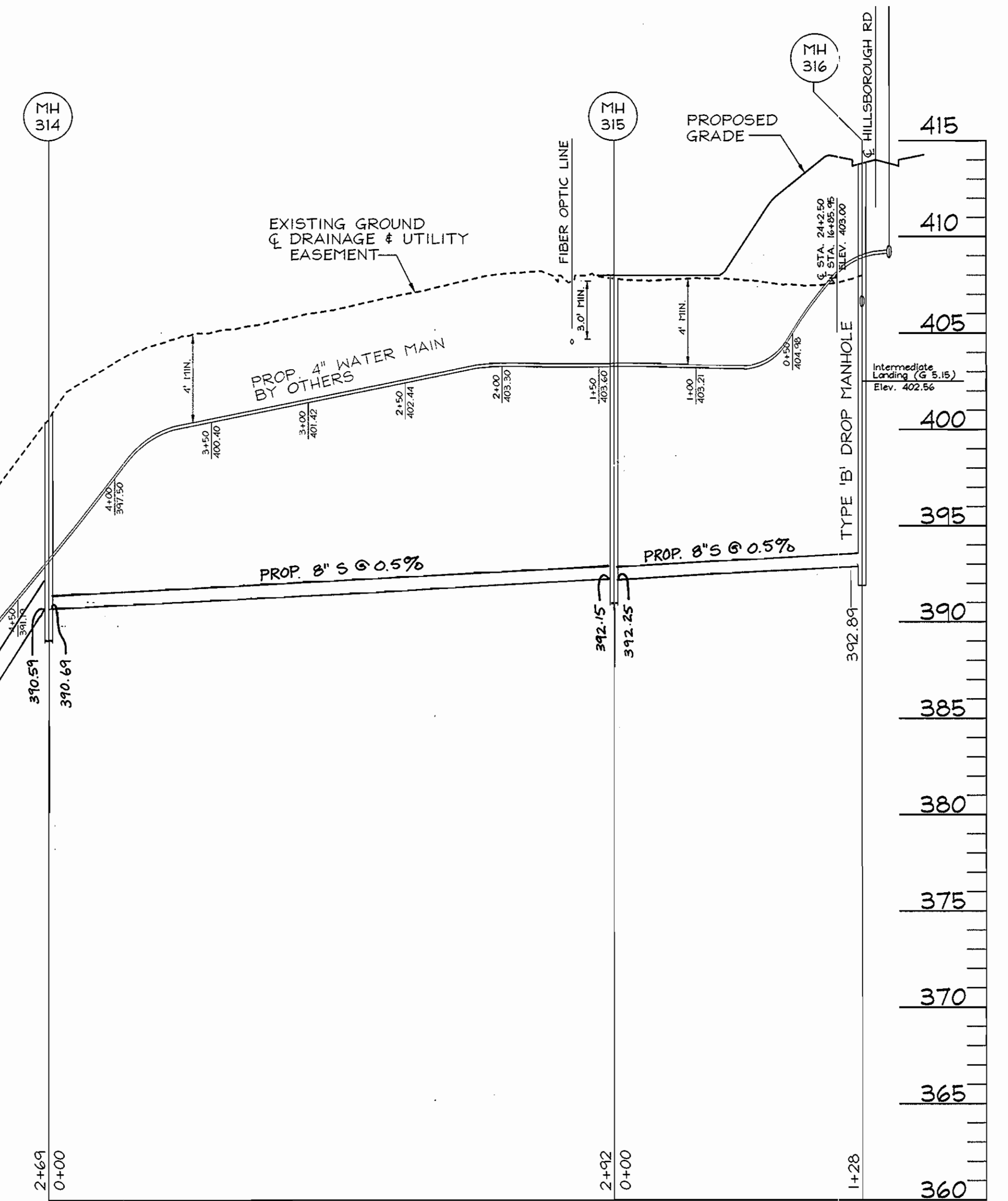
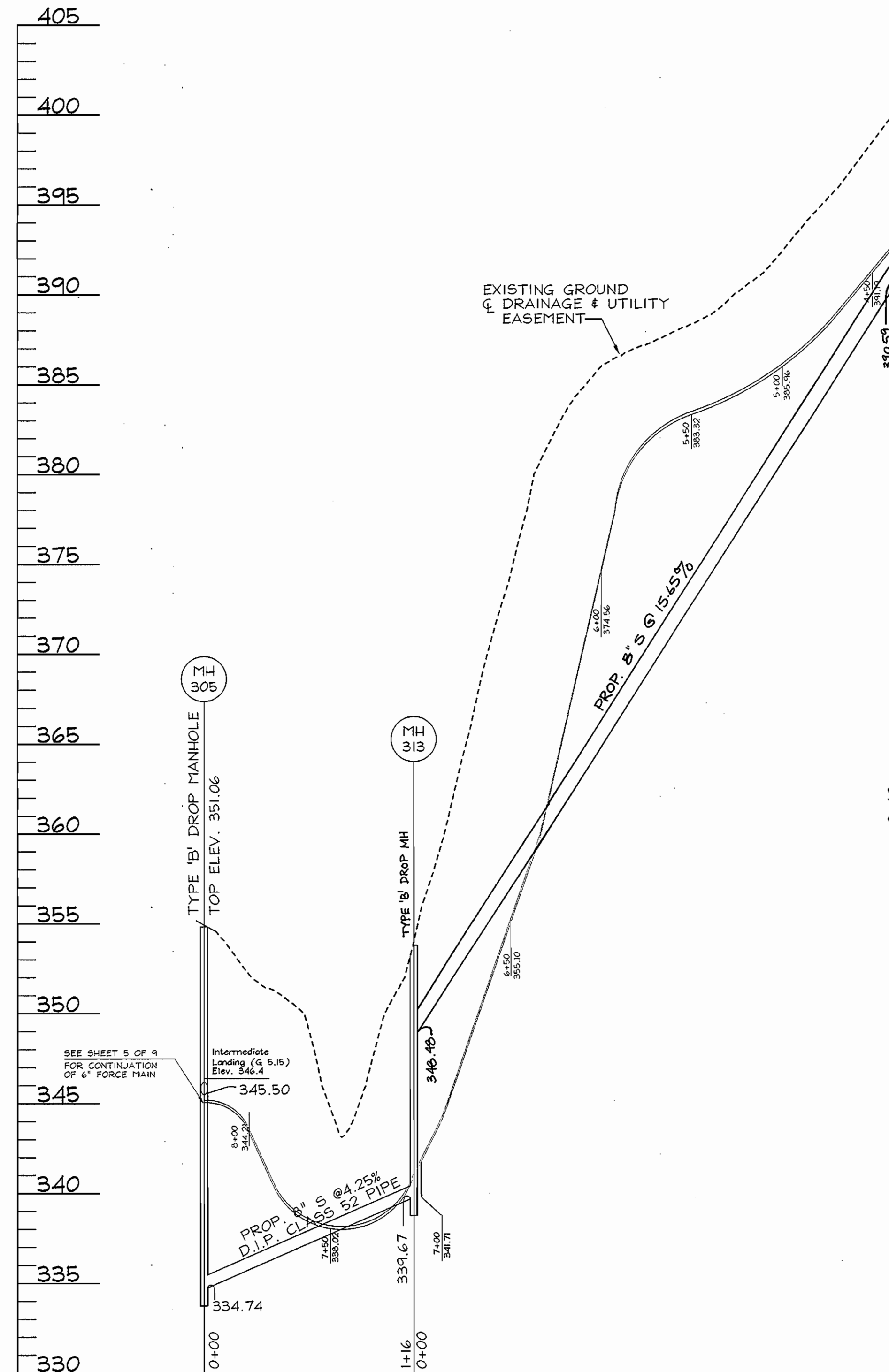
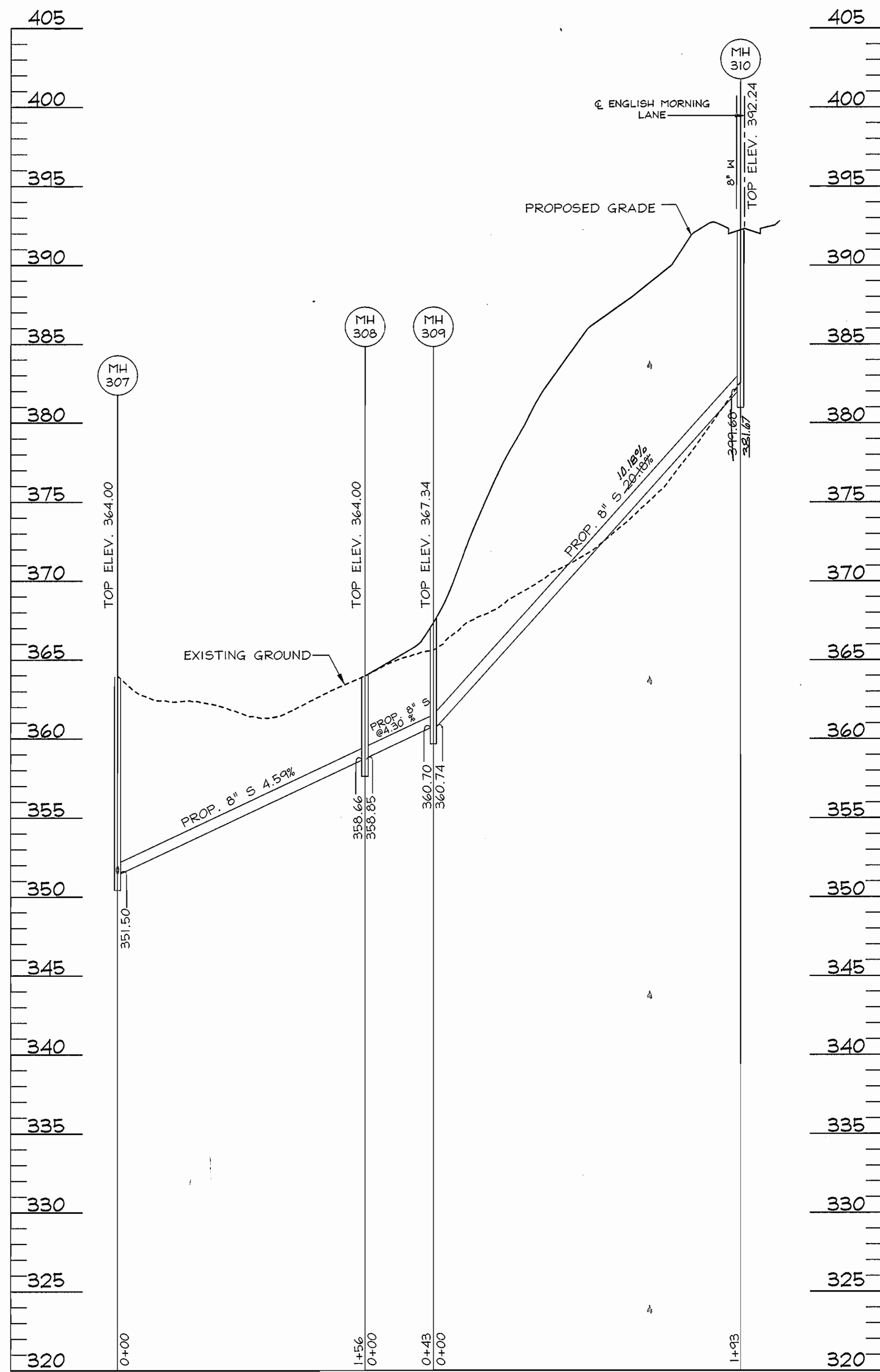
WORTHINGTON FIELDS

PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31, 2ND ELECTION DISTRICT
GRID 2 P/O PARCEL '08', HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 5 OF 9



WATER & SEWER PROFILE

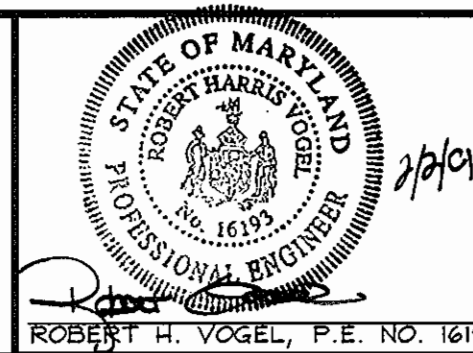
SCALE: 1" = 50' HORZ.
1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS
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HOWARD COUNTY, MARYLAND

VAVOGEL & ASSOCIATES
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3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DES: RJ			
DRN: RJ			
CHK: JCO	CH 2	REVISED SEWER PROFILE	1.29.02
	RJ 1	COUNTY COMMENTS	01/02/01
DATE: DEC. 2000	BY: NO.	REVISION	DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

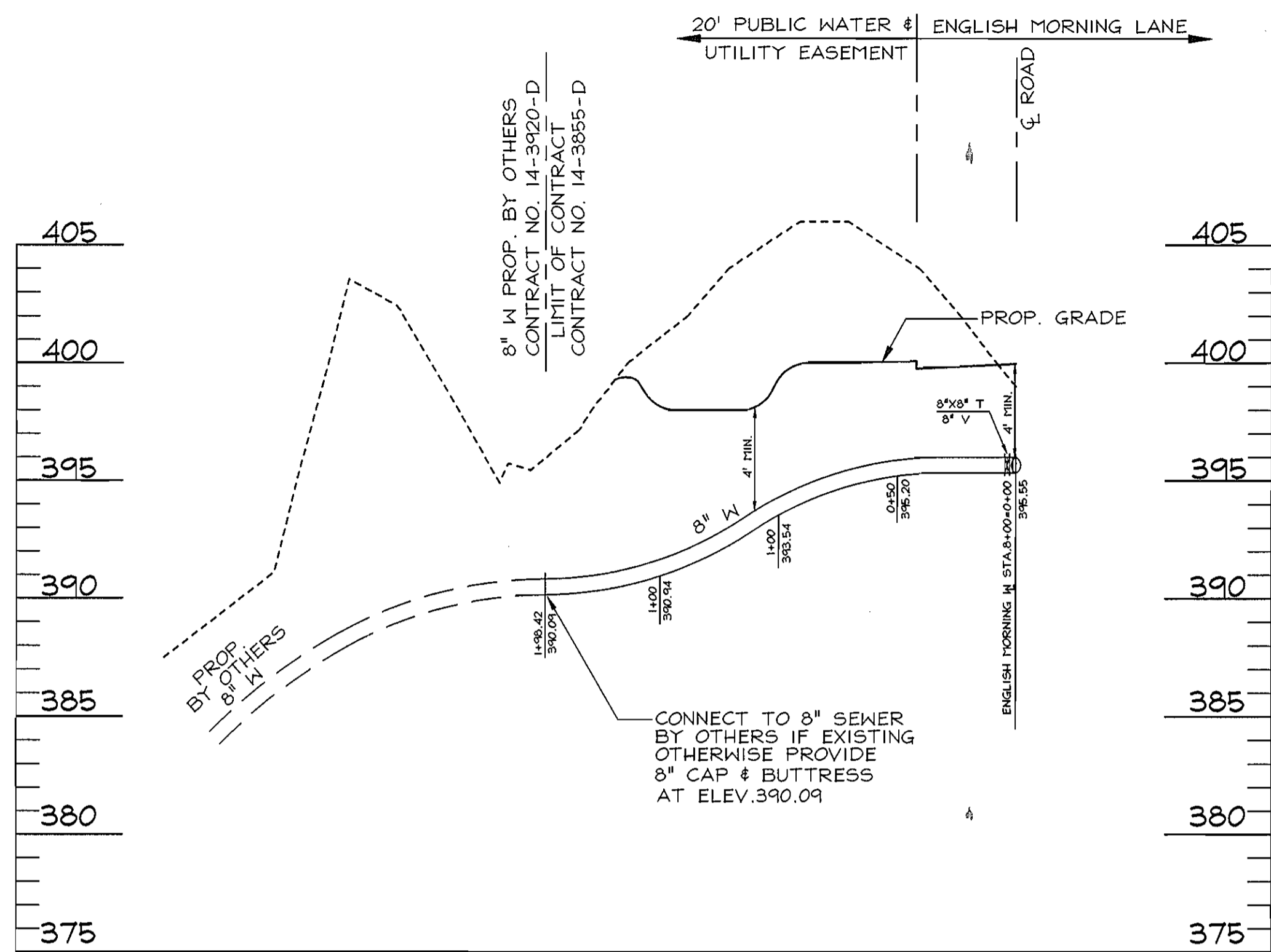
WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT

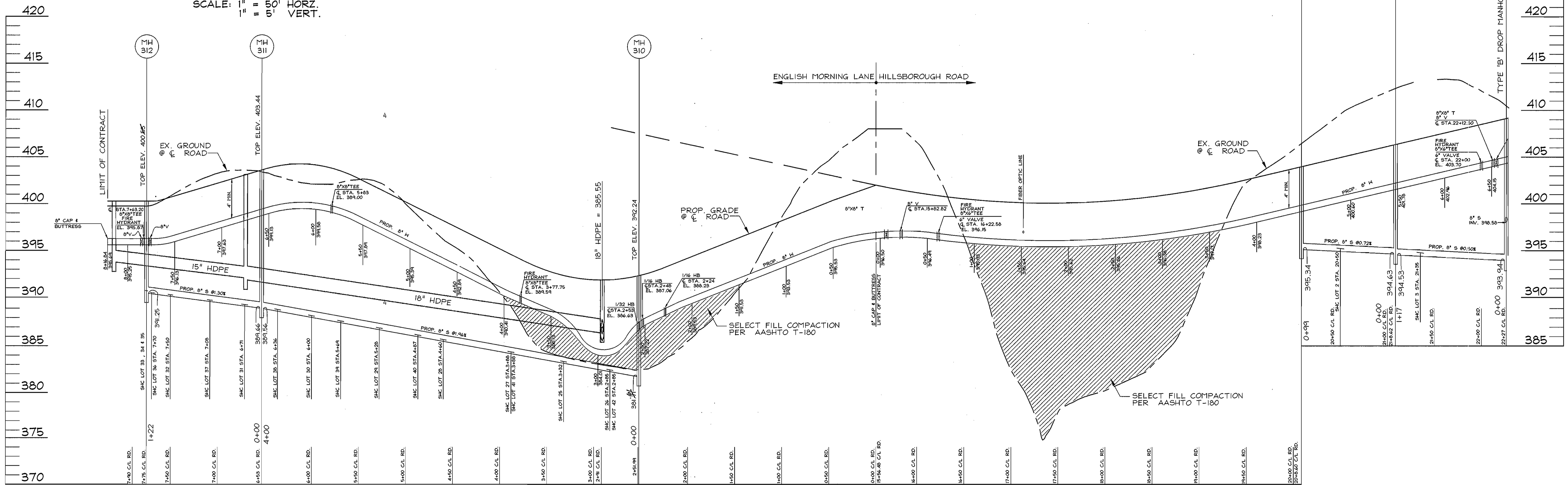
GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
6 OF 9



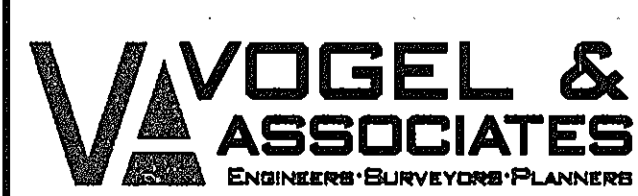
WATER PROFILE
 SCALE: 1" = 50' HORZ.
 1" = 5' VERT.



WATER & SEWER PROFILE
 SCALE: 1" = 50' HORZ.
 1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND



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 Tel 410.461.5828 Fax 410.465.3966



DES:	RJ		
DRN:	RJ		
CHK:	JCO		
DATE:	DEC 2000		
RJ	1	COUNTY COMMENTS	01/02/01
BY	NO.	REVISION	DATE

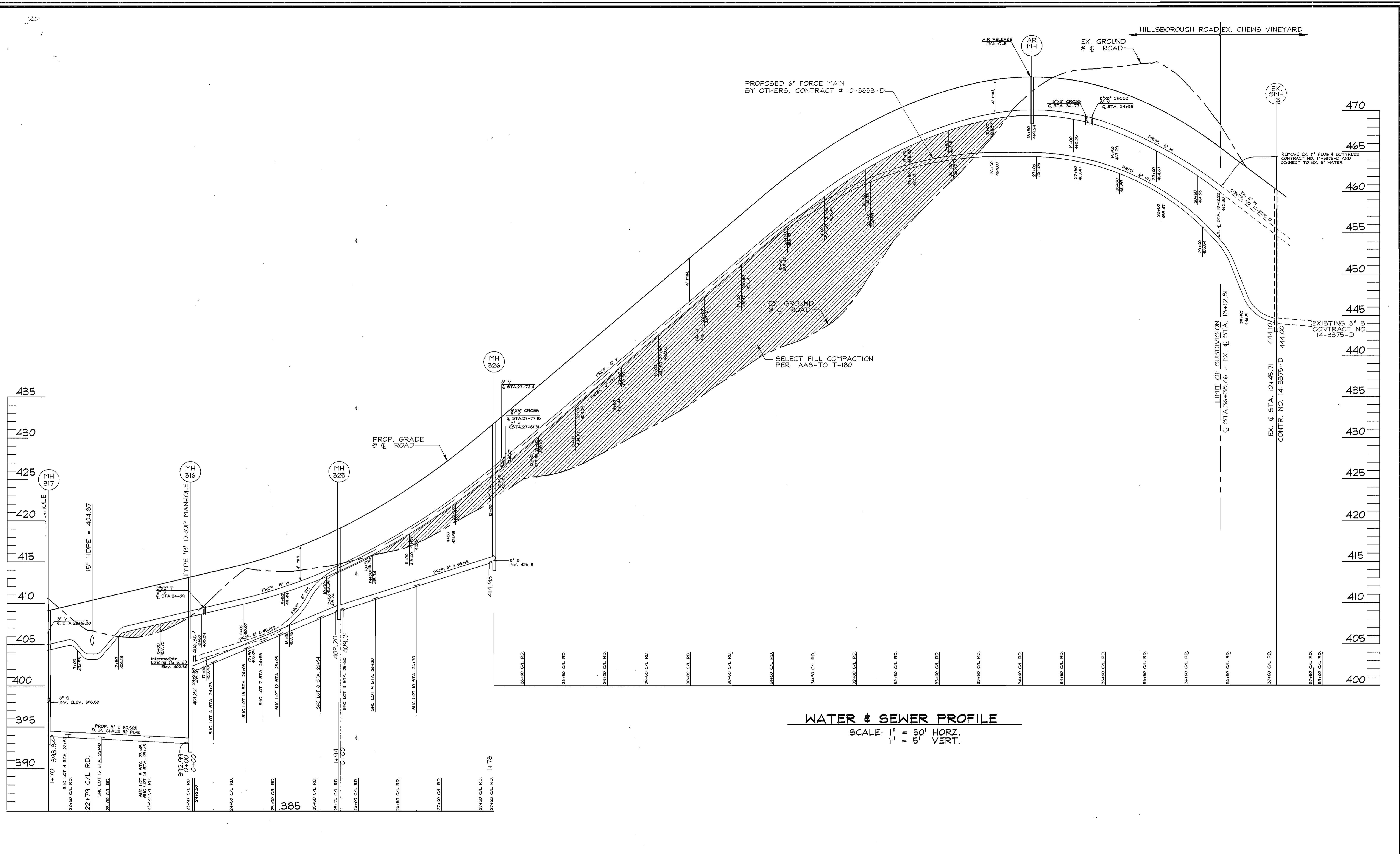
WATER & SEWER PROFILES

WORTHINGTON FIELDS
 PHASE 1 LOTS 1-42 AND 145-148
 AND NON-BUILDABLE PARCELS 'A' AND 'B'
 CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31,
 2ND ELECTION DISTRICT.

GRID 2 PVO PARCEL '98'
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 7 OF 9



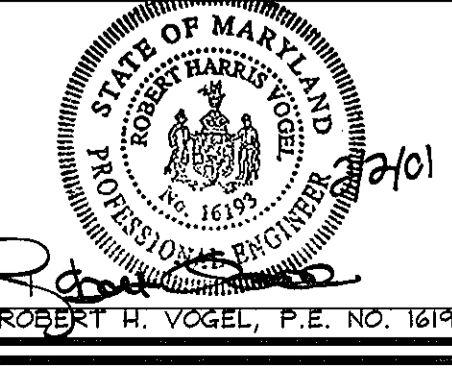
WATER & SEWER PROFILE

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert J. Beaman 02-02-01
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Robert H. Vogel 2/6/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5928 Fax 410.465.3966

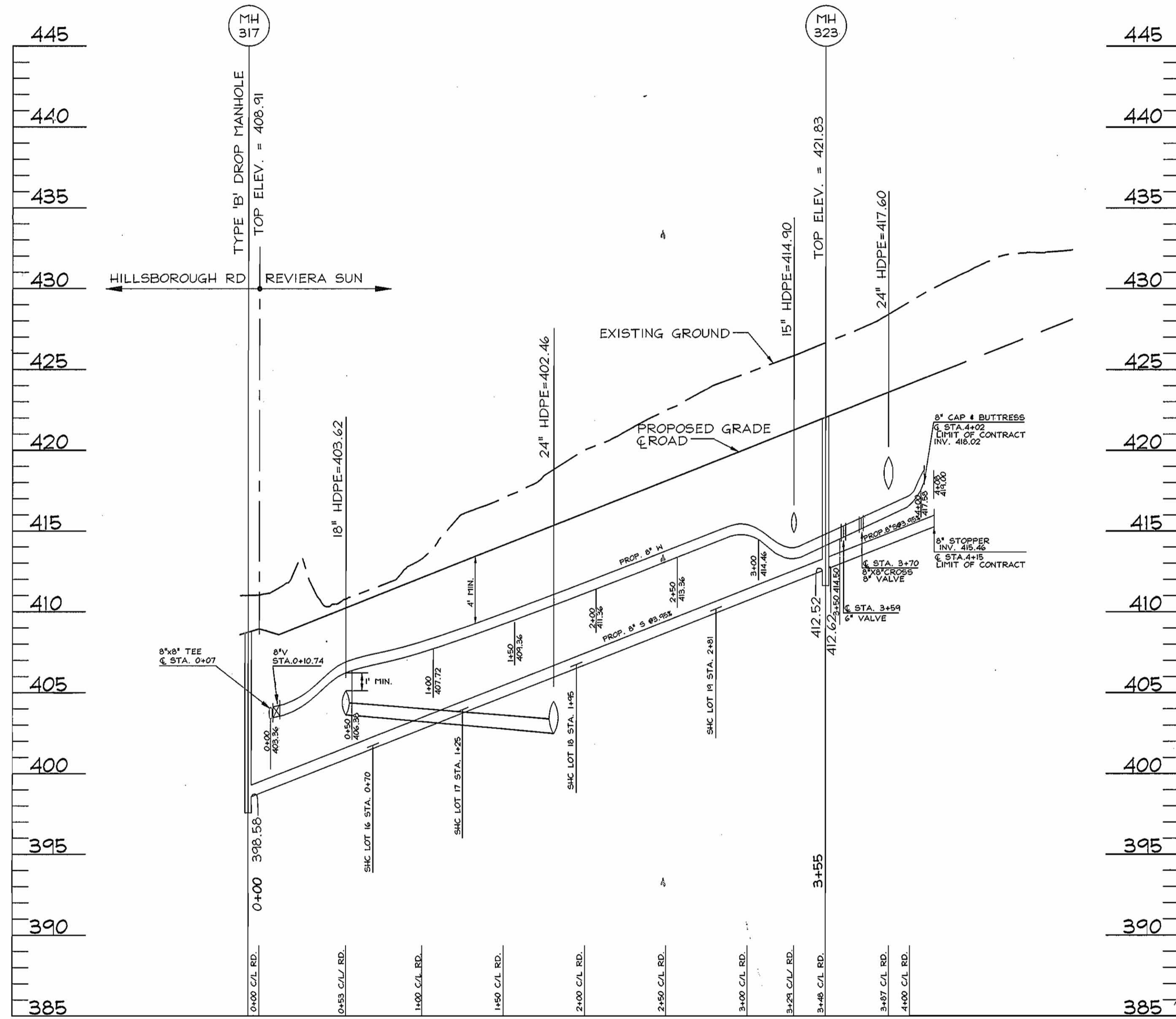


DES: RJ			
DRN: RJ			
CHK: JCO			
DATE: NOV 2000			
BY NO.	RJ	1	COUNTY COMMENTS
			01/02/01
			REVISION
			DATE

WATER & SEWER PROFILES
600' SCALE MAP NO. 25 BLOCK NO. 14

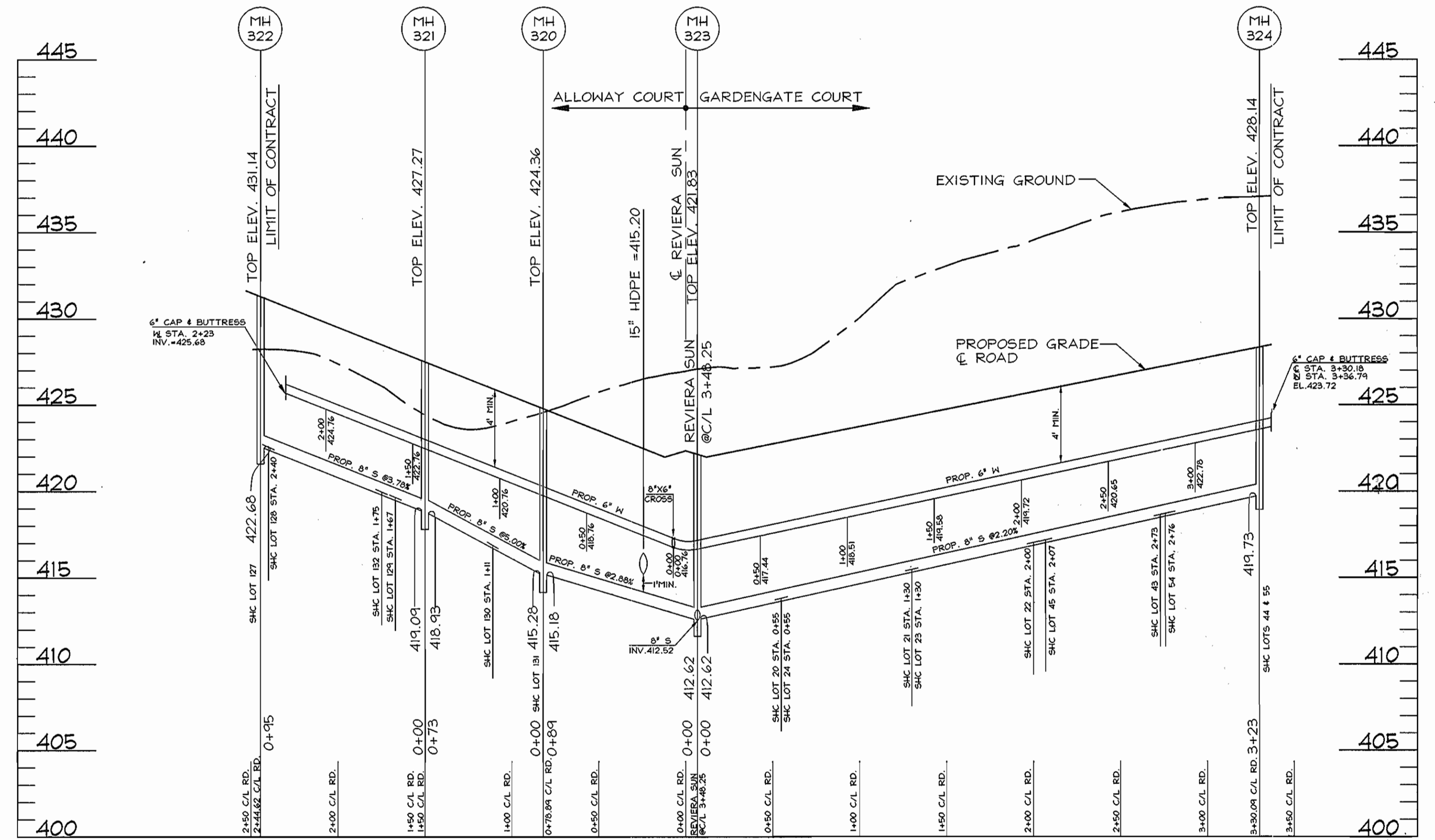
WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D
TAX MAP #25, GRID 20 & #31, GRID 2 P/O PARCEL '98'
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 8 OF 9



WATER & SEWER PROFILE

SCALE: 1" = 50' HORZ.
1" = 5' VERT.

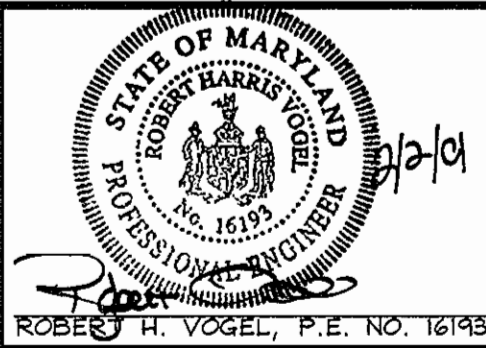


WATER & SEWER PROFILE

SCALE: 1" = 50' HORZ.
1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



DES: RJ			
DRN: RJ			
CHK: JCO			
DATE: NOV. 2000			
BY: NO.	RJ 1	COUNTY COMMENTS	01/02/01
		REVISION	DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT
GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
9 OF 9