

CONTRACT NO. 14-4295-D OWENS PROPERTY, PHASE II, LOTS 43-97, OPEN SPACE LOTS 98, 99 AND 100 NON-BUILDABLE BULK PARCELS 'C' AND 'D'

TAX MAP 31

PARCEL 243


1st ELECTION DISTRICT

SEWER & WATER CONSTRUCTION PLANS

Howard County, Maryland Department of Public Works

GENERAL NOTES

PART I

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's expense.
2. The existing topography is taken from low level flight and aerial survey with 2' contour intervals prepared by 3DI dated April 8, 2002. Supplemental field run top by DMW, dated September, 2002.
3. Horizontal and Vertical Controls:
The coordinates shown on the drawings are based on Maryland State Reference System NAD 83/91 as projected by Howard County Geodetic Control Stations No. #31EA and No. #37CA.
All vertical controls are based on NAVD 83. Vertical controls provided on the drawings are BM #31EA-Disc set in concrete, N569641.123, E1374915.935, Elev. 460.902, ft. south of sidewalk on Ilchester Road +/- 471 Ft. from gate in fence on the transmission line R.O.W. BM2-#37CA-Disc set in concrete, N564321.656, E1382742.880, Elev. = 256.965, 20.6' south of centerline of Landing Road, 0.25 miles northwest on landing Road from intersection of Landing Road and Montgomery Road.
4. All pipe elevations shown are invert elevations unless otherwise noted.
5. Clear all utilities by a minimum of 12". Clear all poles by 5' - 0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
6. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a copy of Volume IV on the job.
7. Where test pits have been made on existing utilities, they are noted by the symbol  at the locations of the test pits. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
8. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
AT&T 1-800-252-1133
BGE (Construction Services) 410-850-4620
BGE (Emergency) 410-625-1400
Bureau of Utilities 410-313-4300
Colonial Pipeline CO. 410-795-1390
Miss Utility 1-800-257-7777
State Highway Administration 410-531-5533
Verizon 1-800-742-0033/410-224-9210
9. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
10. Contractor shall remove trees, stumps, and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five working days before any open cut of any county road or boring/lacking of any County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 18.114(a) of the Howard County code.

PART II - WATER

1. All water main to be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains to have a minimum of 3'-6" of cover.
3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed and buttressed with concrete in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the Standard Specifications.
6. The contractor shall not operate any water main valves on the existing water system.

PART III - SEWER

1. All sewer mains shall be P.V.C. or DIP unless otherwise noted.
2. All manholes shall be 4'-0" inside diameter unless otherwise noted.
3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick manholes only.
5. Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail 05.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

ITEMS	QUANTITIES		AS-BUILT	
	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
4" WATER Main	923	923	DIP CL92	GRIFFIN PIPE / SAME
6" WATER Main	109	110	"	"
8" WATER Main	2451	2450	"	"
6" Fire Hydrant	5	5	"	MUELLER CO./BRS.
8"x6" Tee & Valve	3	3	M.J.	SIGMA/BRS.
8"x6" Tee & Valve	5	5	M.J./HYD	"
8" x 4" Tee & Valve	1	1	M.J.	"
1" WVC	1040	1040	K	READING TUBE/BRS.
8" x 1/2" HORIZ. BEND	7	7	MJ	SIGMA/BRS.
8" x 1/2" HORIZ. BEND	4	4	"	"
FIRE HYDRANT	4	4	"	"
8" CAP	2	2	"	"
4" CAP	1	1	MJ	"
1" WVC	1040	1040	"	KOPPE READING TUBE
4" SHC	1044	1044	"	J.M. MFG.
8" PVC SEWER	3331	3330	"	"
STD. SEWER MH	22	22	"	ATLANTIC CONC. PRODUCTS
SEWER MH VERT. FT. 180'	190'	190'	"	"
8" TYPE 'B' DROP	2	2	"	J.M. MFG.

NAME OF UTILITY CONTRACTOR: CONSOLIDATED CONSTRUCTION SERVICES (CCS)
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

SHEET INDEX

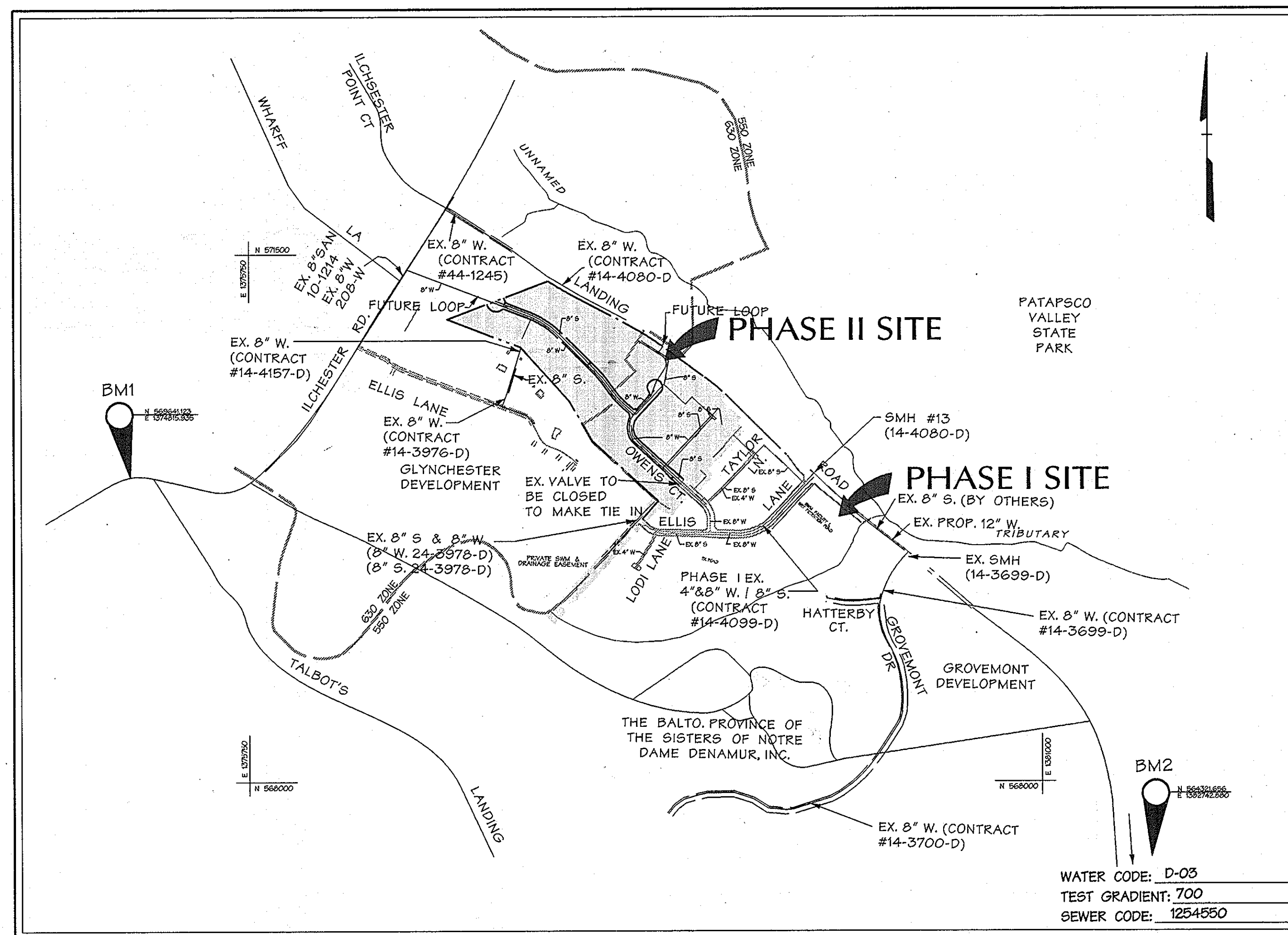
SHEET	DESCRIPTION
1	COVER SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PLAN
4	WATER PROFILES
5	SEWER PROFILES
6	SEWER & WATER PROFILES

BENCHMARK

DESCRIPTION

BM1
#31EA-DISC SET IN CONCRETE
N 569641.123
E 1374915.935
ELEVATION = 460.90
2 FT. SOUTH OF SIDEWALK ON ILCHESTER ROAD
1471 FT. FROM GATE IN FENCE ON TRANSMISSION LINE R.O.W.

BM2
#37CA-DISC SET IN CONCRETE
N 564321.656
E 1382742.880
ELEVATION = 256.965
20.6' SOUTH OF CENTERLINE OF LANDING ROAD
.25 MILES NORTHWEST ON LANDING ROAD FROM INTERSECTION OF LANDING ROAD AND MONTGOMERY RD.



VICINITY MAP

SCALE: 1"=600'

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

John L. Robertson 1/24/06
SIGNATURE DATE

OWNER/DEVELOPER:

Parcel No. 243
PATAPSCO LANDING LLC
c/o James Keely and Co. Inc.
61 East Padonia Road
Timonium, MD 21093
(410) 252-8600
ATTN: Mark Buda

TYPE OF BUILDINGS:	SINGLE FAMILY DETACHED
NO. OF LOTS / PARCELS	55 LOTS / 3 O.S. PARCELS
NO. OF WATER CONNECTIONS:	55 WVC
NO. OF SEWER CONNECTIONS:	55 SHC
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WATERSHED TREATMENT PLANT

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 218 OF THE SPECIFICATIONS AND WITH FINAL PLANS F-05 -121.

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

Jim Meyer 1/24/06
APPROVED DATE

HOWARD S.C.D.
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. ... 1/30/06
CHIEF - BUREAU OF UTILITIES / DATE

... 1/30/06
CHIEF - DEVELOPMENT ENGINEERING DIVISION / DATE



A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705



DESIGN BY:	KAD
DRAWN BY:	WDE
CHECKED BY:	
DATE:	12/07/05
BY NO.	KCI 1
REVISION	ASBUILT DATA
DATE	2/27/07
600 SCALE MAP NO. 31	BLOCK NO. 10.11.16.17

TITLE SHEET

OWENS PROPERTY - PHASE II, LOTS 43 - 97
OPEN SPACE LOTS 98, 99 AND 100

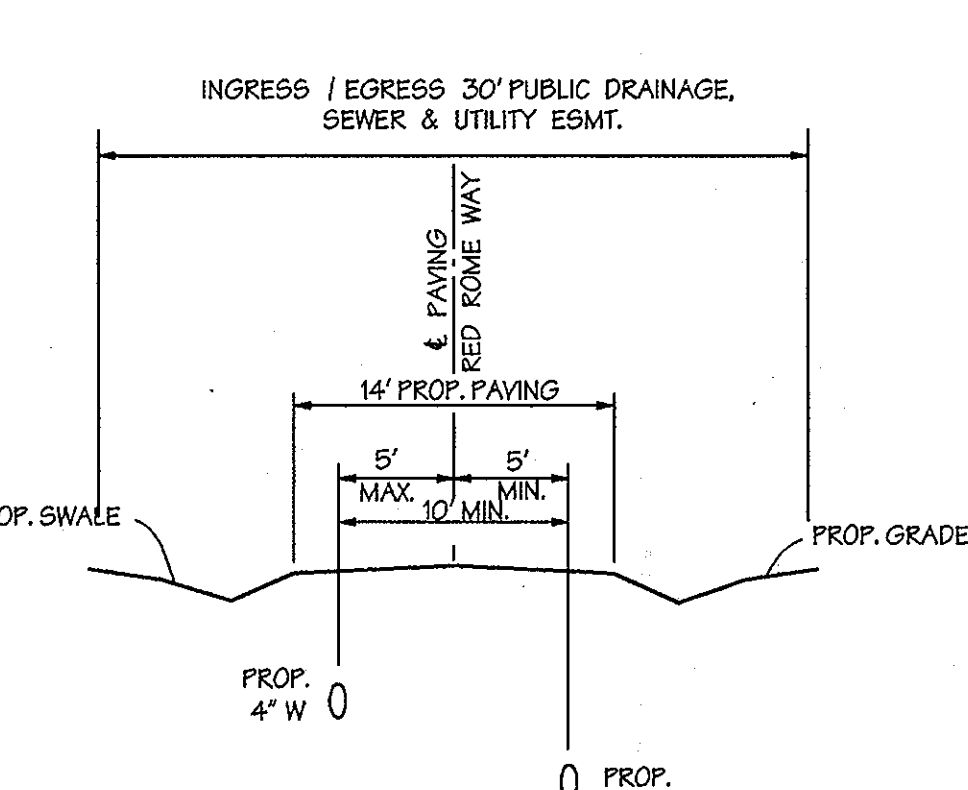
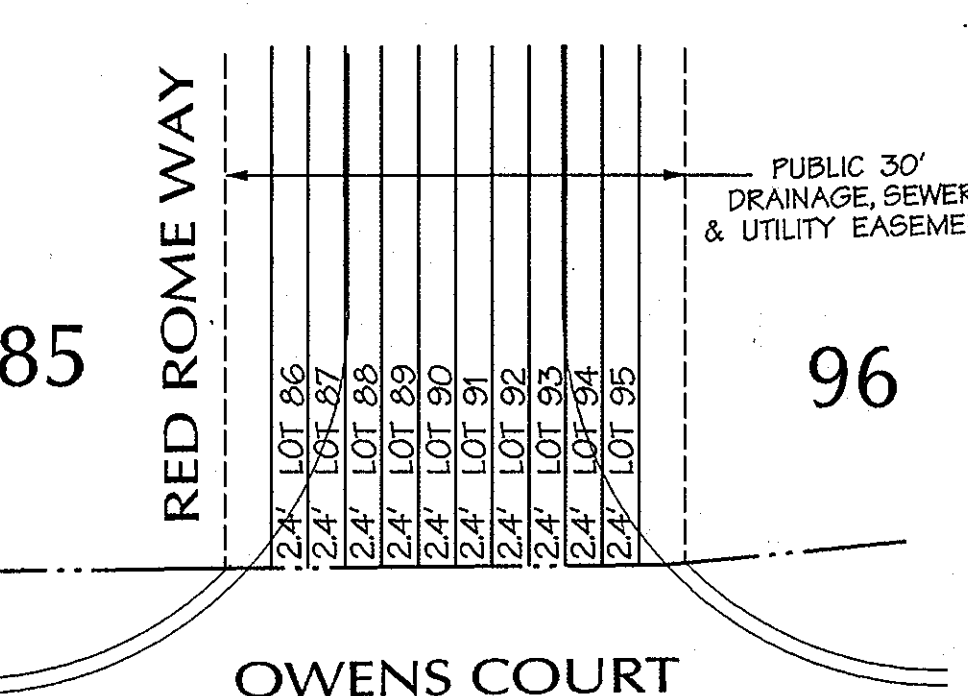
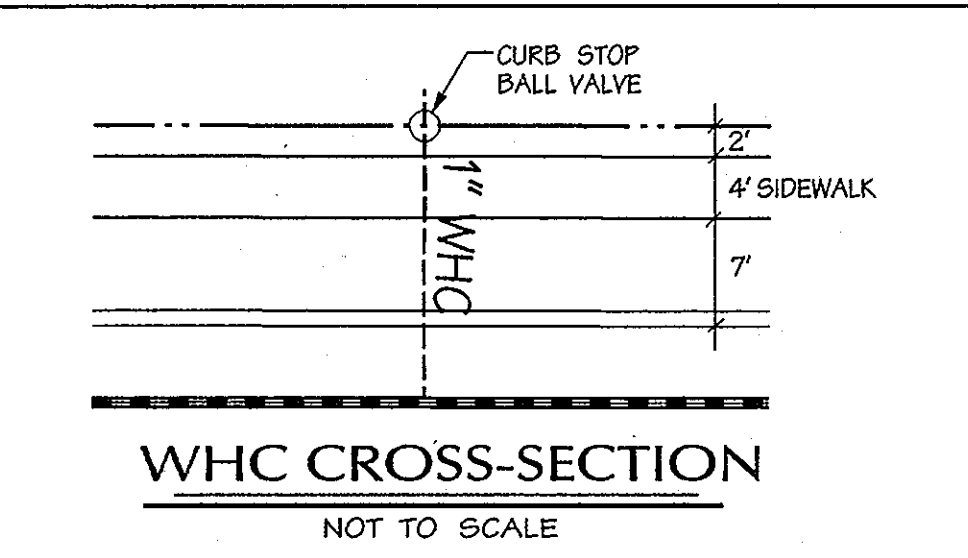
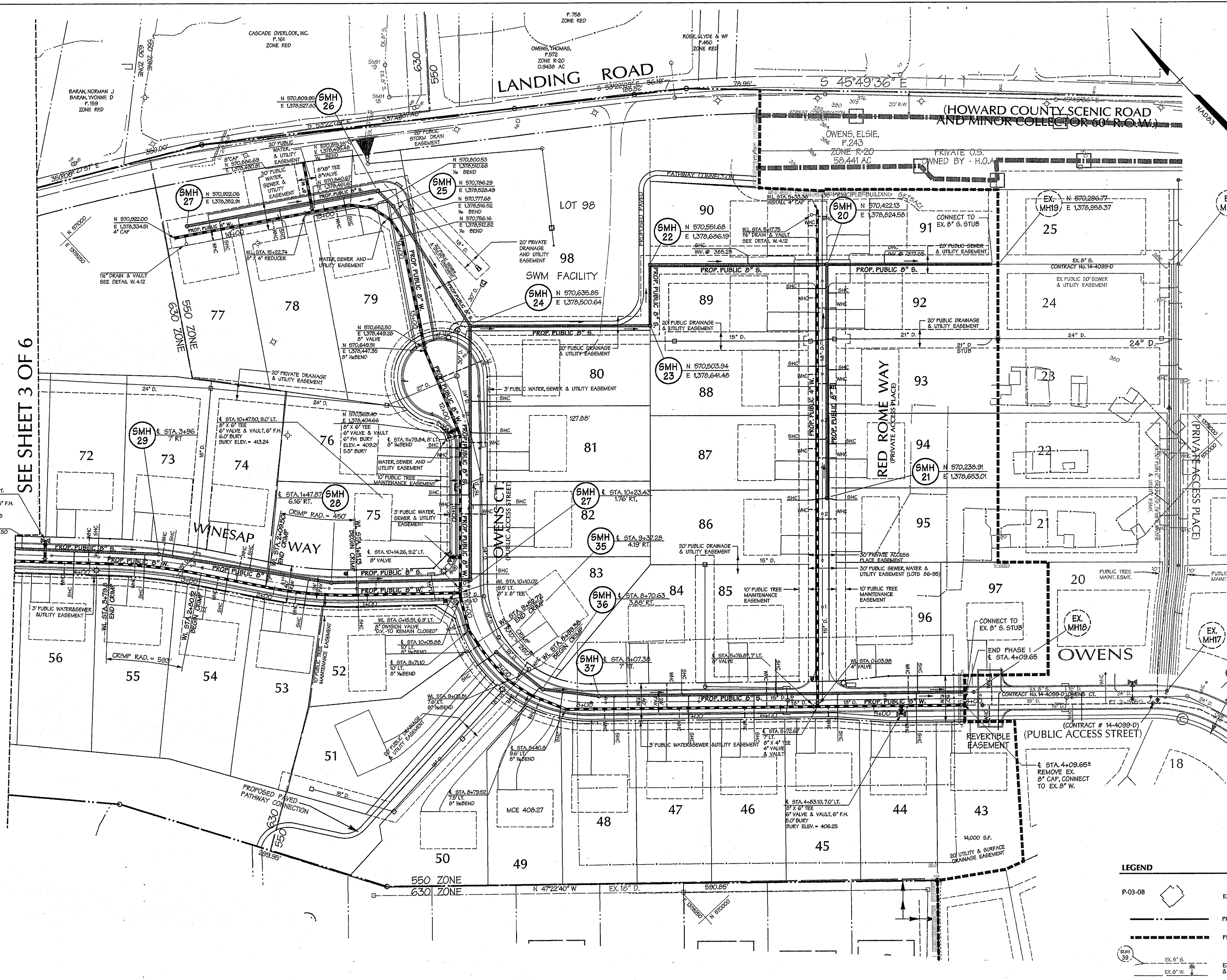
Election District No. 1 Howard County, Maryland

CONTRACT NO. 14-4295-D

LOT/PARCEL # 243, 572

SCALE:
As Shown

SHEET
1 of 6



Notes

- All sewer house connections shall be 4" PVC.
- Twin sewer house connections are not permitted.
- All water house connections shall be 1" copper pipe and located on the high side of the property.
- All water mains shall be D.I.P. class B2.
- All sewer mains shall be 8" PVC. Sewer Mains greater than 16' deep shall be 8" D.I.P.
- All sewer manholes shall be Standard Sewer Manholes in accordance with Howard County Standard Details.
- All fire hydrants laterals to be 6" D.I.P. All fire hydrant laterals to be connected to the 8" main with a 6" x 6" tee with a 6" valve unless otherwise noted.
- All fire hydrants to have a maximum spacing of 500'.
- All tees to be 8" x 8" unless otherwise noted.
- All valves to be 8" unless otherwise noted.
- Construction of 12" Water Main in Landing Road to be completed by others under another contract.

DATA SOURCES
 WETLANDS AND SOME STREAMS LOCATED IN FIELD BY GPS ON 12/10/01.
 LOCATIONS OF TREELINES, STREAMS, TOPOGRAPHY, EX. STRUCTURES, ETC., DERIVED FROM LOW-LEVEL FLIGHT & AERIAL PHOTO ACQUIRED APRIL 8, 2002.
 BOUNDARY SHOWN PER BOUNDARY SURVEY DATED SEPTEMBER, 2002, PREPARED BY DAFT-MCCUNE - WALKER, INC.
 SOILS (IF SHOWN) TAKEN FROM HOWARD COUNTY SOIL SURVEY, 1966.
 PORTIONS OF 100 YR. FLOODPLAIN TAKEN FROM RECORDED PLAT #5596 OF GUNNESTER FARMS FLOOD PLAN STUDY FOR TRINITY PREPARATORY SCHOOL DATED 9-15-88 (DMW) AND 100 YR. FLOOD PLAN STUDY FOR GREYBANK SUBDIVISION DATED 4-1997 (TSA GROUP, INC.) AND STUDY PREPARED FOR THIS PRELIMINARY PLAN.

LEGEND

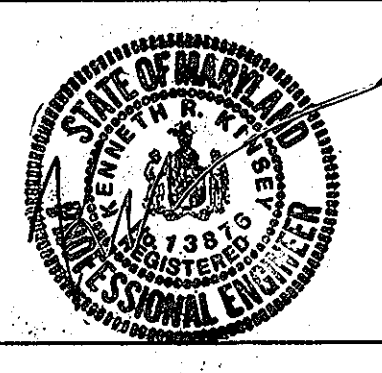
P-03-08	EX. STRUCTURE	RIGHT OF WAY LINE
---	PROPERTY BOUNDARY	PROF. LOT NUMBER
---	PHASE I LIMITS	ADJACENT LOT LINE
---	EX. UTILITIES & CONTR. #	PROF. LOT LINE
---		PROF. W&S UTILITIES

SEE SHEET 3 OF 6

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

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 Chief - Development Engineering Division - DATE

DMW
 Daft-McCune-Walker, Inc.
 A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals



DESIGN BY: KAD
 DRAWN BY: WDE
 CHECKED BY:
 DATE: 1/3/06

BY	NO.	REVISION	DATE

600 SCALE MAP NO. 31 BLOCK NO. 10, 11, 16, 17

FINAL WATER & SEWER PLAN

OWENS PROPERTY - PHASE II
 CONTRACT NO. 14-4295-D LOT/PARCEL # 248, 572
 SCALE: 1"=50'
 SHEET 2 of 6

The Jan 3 15:34 2006:PHASE I\000862\02

The Jan 3 15:34 2006:PHASE I\000862\02

Corresponding Centerline Stationing

Structure	Waterline Station	Centerline Station
8" x 8" Tee	0+00	0+08.08
8" Valve	0+08.29	0+15.51
8" x 8" Tee	4+48.33	4+57.19
8" Valve	5+57.13	5+65.99
8" x 8" Tee	9+43.0	9+54.47
8" Valve	11+50.0	11+61.81
8" Cap	11+78.41	11+90.22
8" x 8" Tee	9+40	9+50
8" Valve	9+25	9+36

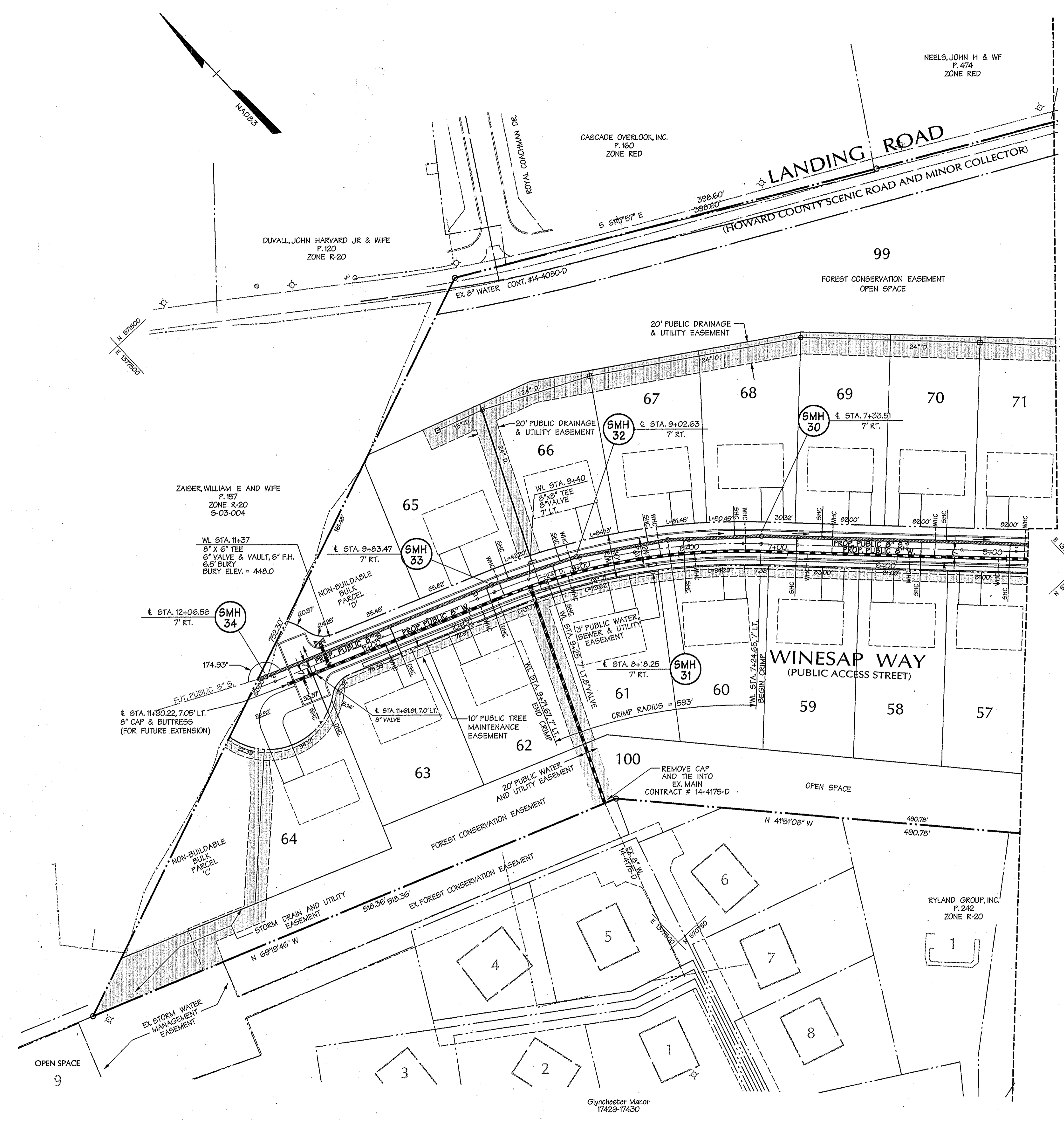
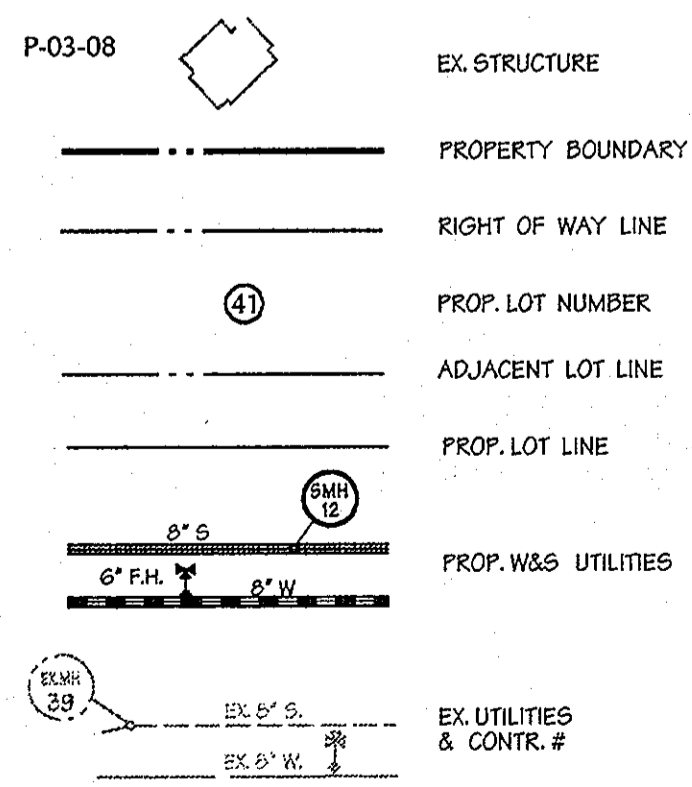
OWENS COURT

Structure	Waterline Station	Centerline Station
8" Cap	3+97.17	4+09.66
8" x 8" Tee	4+70.60	4+83.10
8" x 8" Tee	5+60.24	5+72.67
8" Valve	5+64.39	5+76.87
8" 1 1/2 Bend	8+30.0	8+40.80
8" 1 1/2 Bend	8+71.16	8+79.52
8" 1 1/2 Bend	8+98.92	9+05.81
8" 1 1/2 Bend	9+68.11	9+71.10
8" 1 1/2 Bend	10+05.45	10+05.80
8" x 8" Tee	10+09.93	10+10.22
8" Valve	10+14.48	10+14.26
8" x 8" Tee	10+48.19	10+47.50
8" 1 1/2 Bend	11+79.00	11+79.84
8" x 8" Tee	11+85	N 870,528.40 E 1,378,804.66
8" x 8" Tee	15+10	N 870,840.67 E 1,378,461.67
8" 1 1/2 Bend	12+77.08	N 870,649.38 E 1,378,447.35
8" Valve	12+80.75	N 870,662.50 E 1,378,448.28
8" 1 1/2 Bend	14+50.98	N 870,797.64 E 1,378,538.25
8" 1 1/2 Bend	14+64.03	N 870,810.33 E 1,378,536.20
1/2" Drain & Vault	16+75.96	N 870,920.45 E 1,378,384.45
8" Cap	16+77.05	N 870,921.64 E 1,378,383.60
8" CAP		N 870,886.69 E 1,378,480.81

Notes

- All sewer house connections shall be 4" PVC.
- Twin sewer house connections are not permitted.
- All water house connections shall be 1" copper pipe and located on the high side of the property.
- All water mains shall be D.I.P. class 52.
- All sewer mains shall be 8" PVC Sewer Mains greater than 16' deep shall be 8" D.I.P.
- All sewer manholes shall be Standard Sewer Manholes in accordance with Howard County Standard Details.
- All fire hydrants laterals to be 6" D.I.P. All fire hydrant laterals to be connected to the 8" main with a 8" x 6" tee with a 6" valve unless otherwise noted.
- All fire hydrants to have a maximum spacing of 500'.
- All tees to be 8" x 8" unless otherwise noted.
- All valves to be 8" unless otherwise noted.
- Construction of 12" Water Main in Landing Road to be completed by others under a separate contract.

LEGEND



SHC INVERT @ PROPERTY LINE CHART

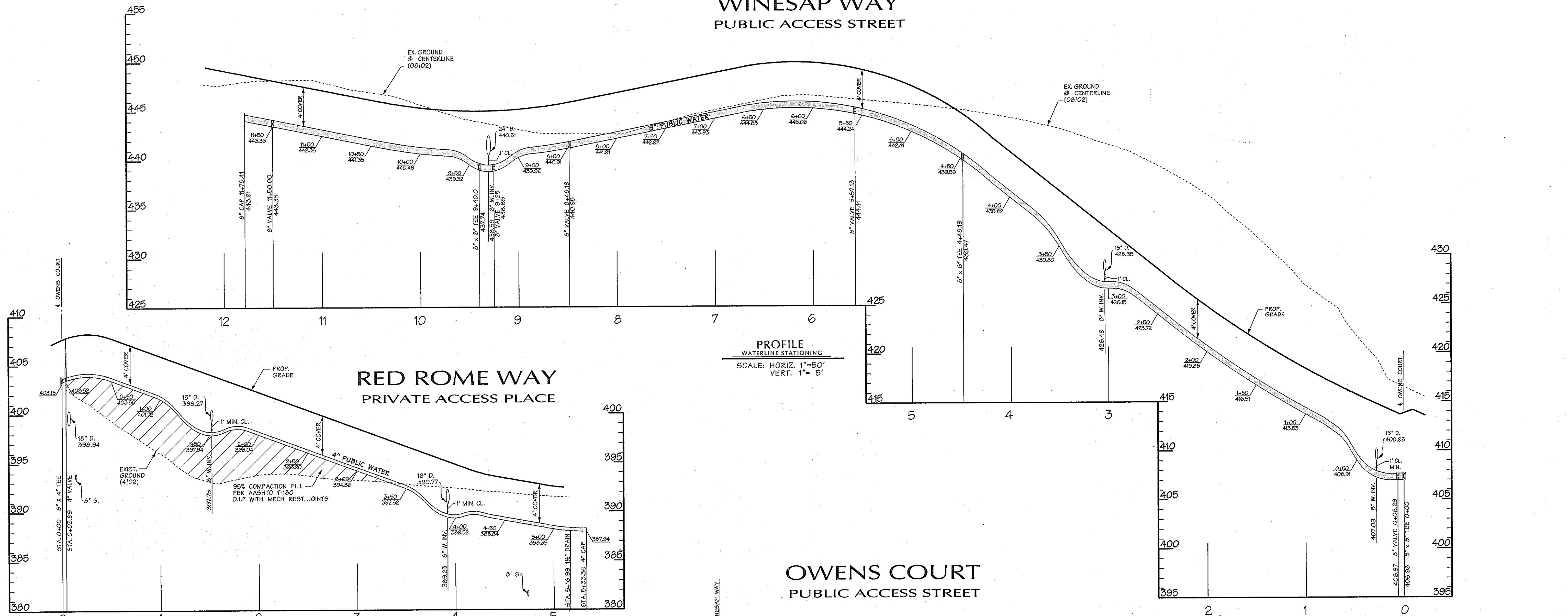
STATION	LOT	ELEVATION @ E	MIN. CELLAR ELEV.
EX. 18 TO MH 37			
0+60	96	394.10	397.80
0+62	44	393.84	398.76
1+45	45	395.40	399.64
2+13	25	397.06	401.44
2+35	46	397.22	402.72
3+06	47	398.62	402.86
3+12	84	400.21	404.00
3+85	48	400.20	403.70
MH 37 TO MH 36			
0+39	49	403.31	407.31
MH 36 TO MH 35			
0+04	50	404.99	409.19
@ MH	51	407.09	411.09
MH 24 TO MH 27			
0+81	80	393.89	397.89
1+15	81	397.63	401.63
1+30	78	398.32	402.32
1+81	75	401.03	405.03
1+92	82	401.91	405.91
2+66	83	405.80	409.80
MH 27 TO MH 28			
1+20	52	410.72	415.01
MH 28 TO MH 29			
0+25	53	413.37	417.62
0+80	74	417.31	420.93
1+11	54	418.17	422.43
1+73	73	421.94	425.61
MH 29 TO MH 30			
0+15	55	DHC 429.00	433.00
0+65	72	DHC 435.00	439.00
0+90	56	DHC 437.00	441.00
1+47	71	DHC 438.00	442.00
1+71	57	DHC 440.00	444.00
2+29	70	DHC 440.00	444.00
2+52	58	DHC 441.50	443.41
3+43	69	DHC 440.00	444.00
3+66	59	DHC 441.50	444.50
MH 30 TO MH 31			
0+25	68	DHC 439.00	443.00
0+71	60	DHC 440.00	444.00
MH 31 TO MH 32			
0+18	67	DHC 437.50	441.50
MH 32 TO MH 33			
0+16	66	DHC 436.00	440.00
0+24	61	DHC 437.50	441.50
0+66	65	DHC 435.98	440.50
MH 33 TO MH 34			
0+05	62	DHC 437.00	441.00
1+00	63	DHC 439.00	443.00
1+78	64	DHC 441.50	445.00
MH 20 TO MH 22			
0+65	90	DHC 381.00	385.00
MH 22 TO MH 23			
MH 23 TO MH 24			
MH 24 TO MH 25			
MH 25 TO MH 26			
MH 26 TO MH 27			
0+37	79	393.70	397.70
1+06	78	394.30	398.30
1+72	77	395.05	399.05
MH 19 TO MH 20			
1+21	91	DHC 382.00	385.00
MH 20 TO MH 21			
0+25	89	382.08	386.08
0+31	92	382.04	386.04
1+09	88	385.06	389.06
1+13	93	384.99	388.99
1+87	87	387.87	391.87
1+92	94	387.65	391.65
@ MH	85	390.18	394.18
@ MH	95	389.96	393.96

SEE SHEET 2 OF 6

7th Jan 3 15:33:40 828866/PHASE II/00862403

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND R. L. B... 1-9-06 CHIEF - BUREAU OF UTILITIES - DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND [Signature] 1/20/06 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE	DMW Daft-McCune-Walker, Inc. A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals	DESIGN BY: KAD DRAWN BY: WDE CHECKED BY: DATE: 1/3/06	FINAL WATER & SEWER PLAN	OWENS PROPERTY - PHASE II CONTRACT NO. 14-4295-D LOT/PARCEL # 243, 572	SCALE: 1"=50' SHEET 3 of 6
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WINESAP WAY
PUBLIC ACCESS STREET



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

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

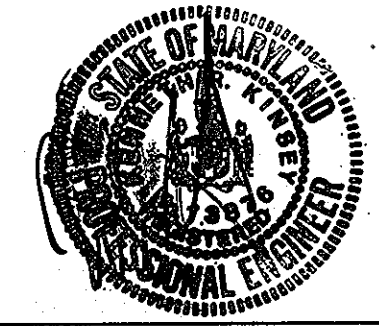
PROFILE
WATERLINE STATIONING
SCALE: HORIZ. 1"=50'
VERT. 1"= 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



DMW
Daft-McCune-Walker, Inc.
A Team of Land Planners,
Landscape Architects,
Township, Maryland 21286
(410) 296-3333
Fax 296-4705



DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:
12/07/05

BY	NO.	REVISION	DATE

FINAL WATER MAIN
PROFILES

600 SCALE MAP NO. 31 BLOCK NO. 10, 11, 16, 17

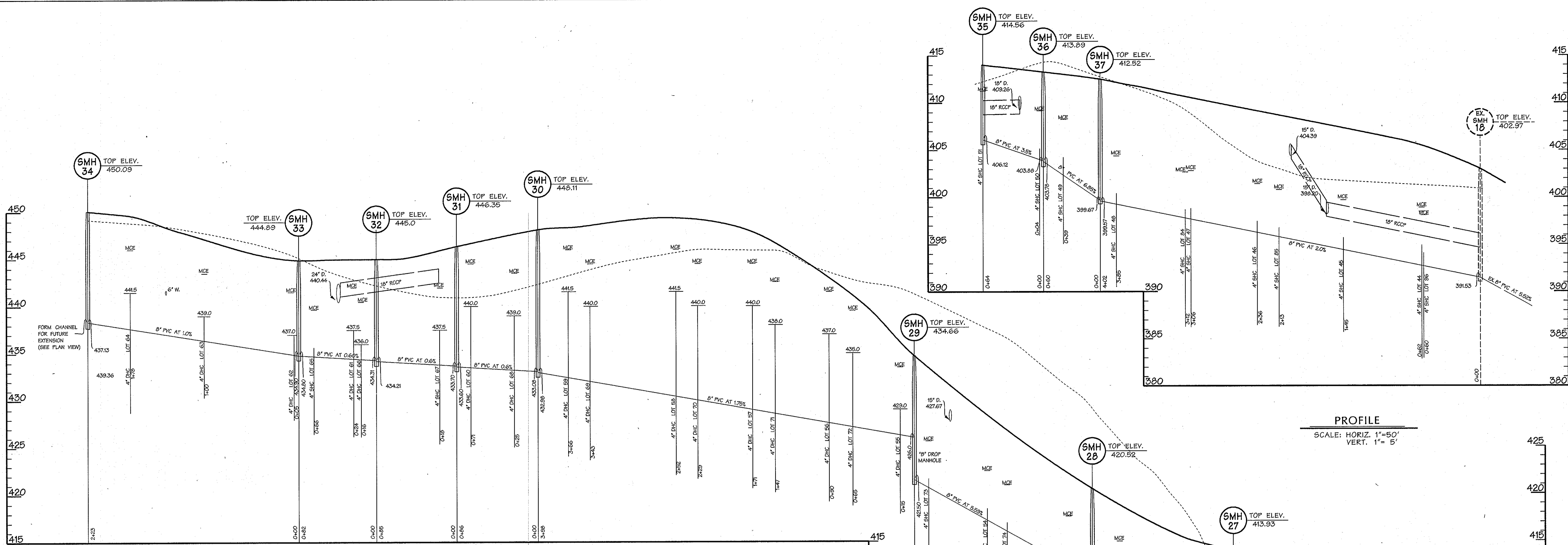
OWENS PROPERTY PHASE II, LOTS 43-97

CONTRACT NO. 14-4295-D LOT/PARCEL # 243,572

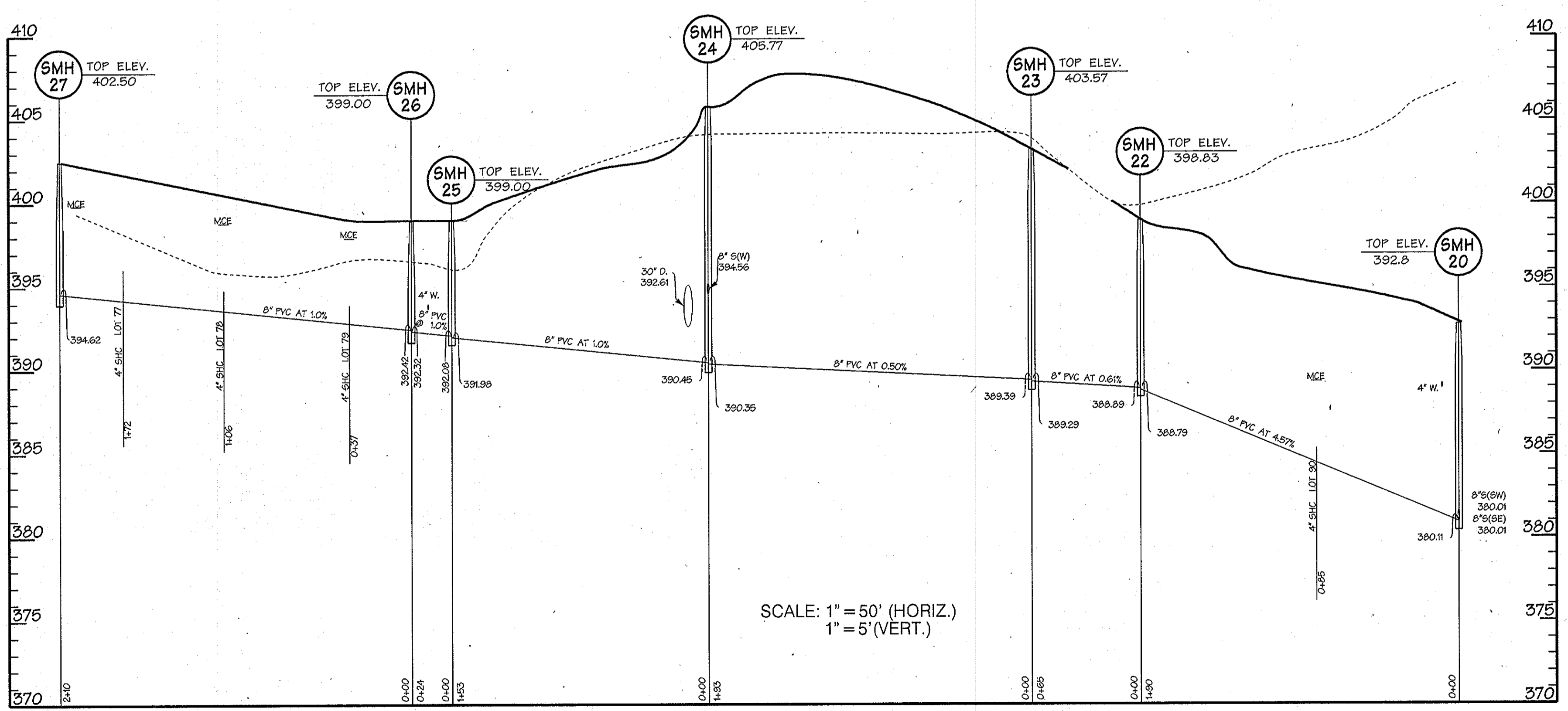
SCALE:
AS SHOWN
SHEET
4 of 6

REV. DATE: 7/10/53 57 600865/PHASE II/008642/04

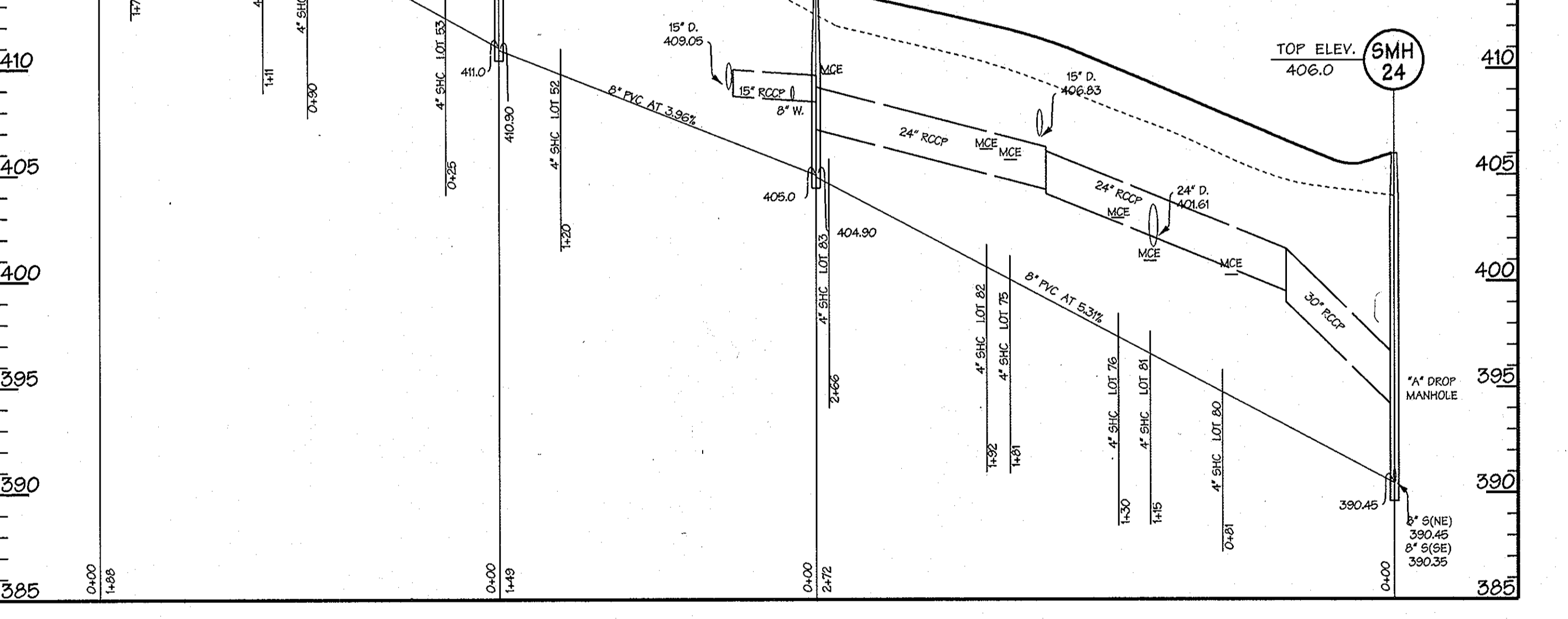
REV. DATE: 7/10/53 57 600865/PHASE II/008642/04



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



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



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

Wed Doc 7 10:54:32 620886PHASE I\000862\405

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. L. Berman 1-9-06
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 1/28/06
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft-McCune-Walker, Inc.
A Team of Land Planners,
Landscape Architects,
Township, Maryland 21286
(410) 296-3333
Fax 296-4705
Engineers, Surveyors &
Environmental Professionals



DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
DATE:	12/07/05
BY NO.	
REVISION	
DATE	600 SCALE MAP NO. 31
	BLOCK NO. 10.11.16.17

**FINAL SANITARY SEWER
PROFILES**

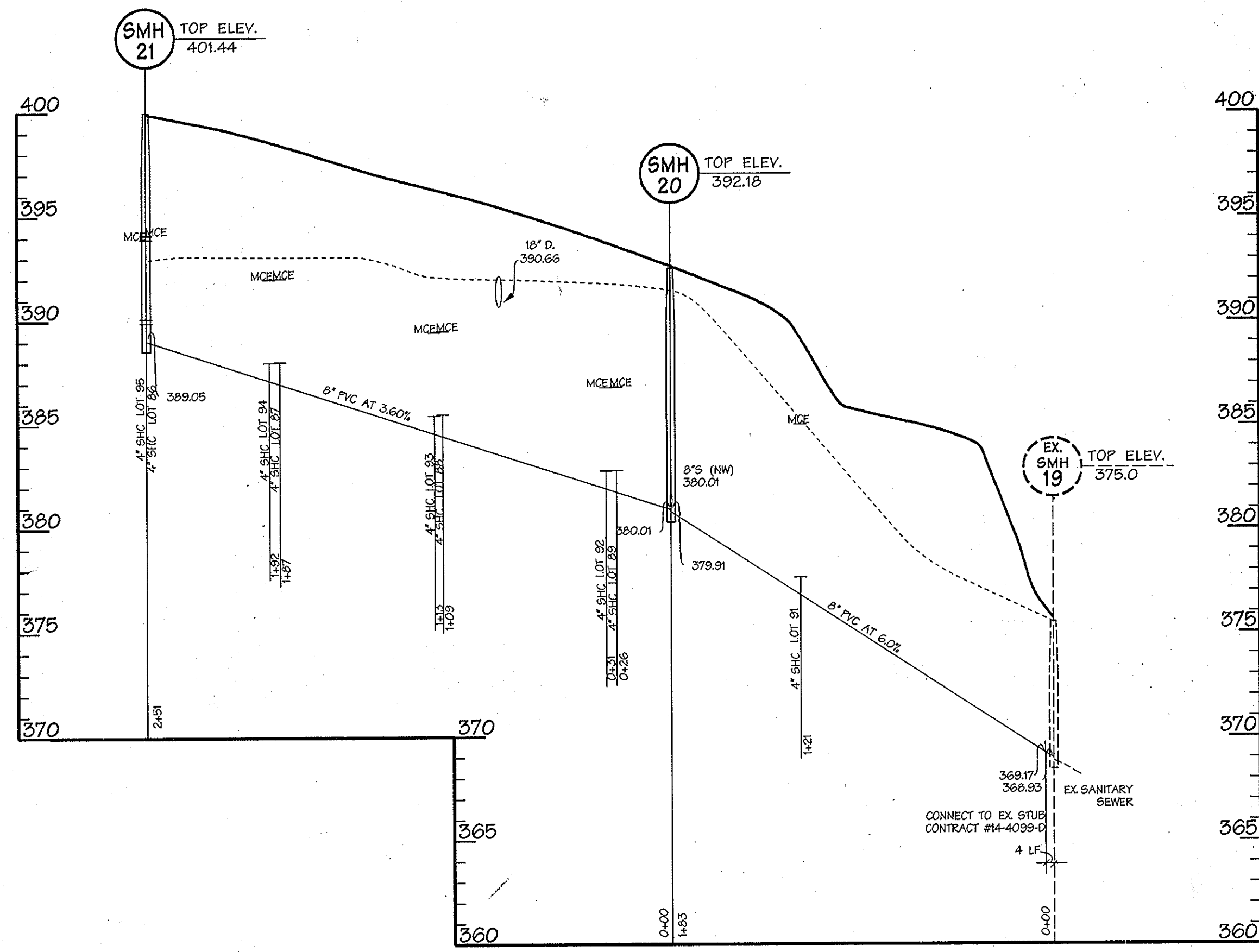
OWENS PROPERTY PHASE II, LOTS 43-97

CONTRACT NO. 14-4295-D LOT/PARCEL # 243,572

SCALE:
AS SHOWN

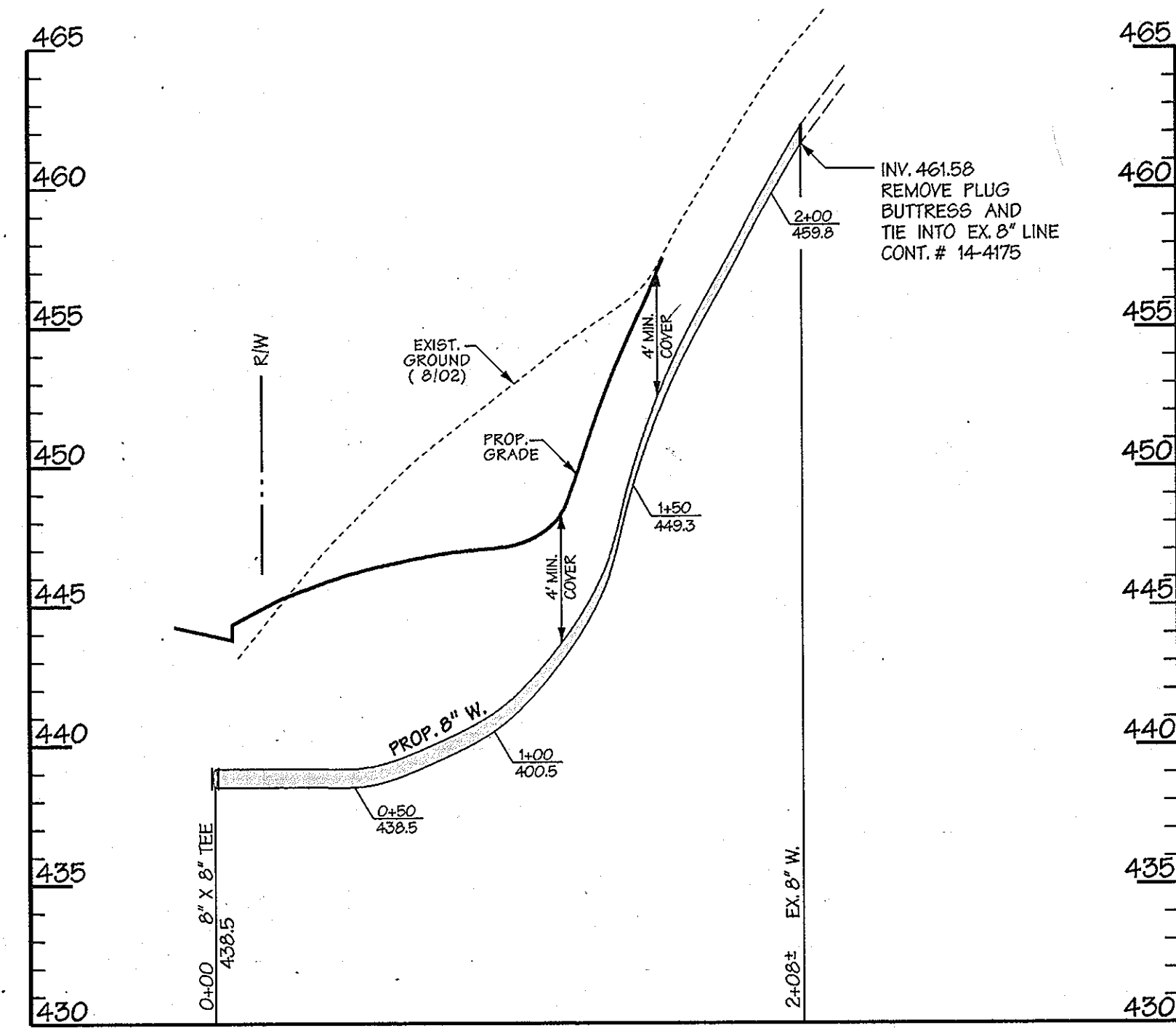
SHEET
5 of 6

Wed Doc 7 10:54:32 620886PHASE I\000862\405



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

LOT	FROM	TO	FEET	TO	FEET
44	WHC SHC	S118	77	F.H.	11
45	WHC SHC	S118	48	F.H.	78
46	WHC SHC	S118	44	INLET	55
47	WHC SHC	S118	45	5+00 RT	50
48	WHC SHC	S-36	75	S-37	28
49	WHC SHC	S-36	25	S-37	74
50	WHC SHC	S-36	33	S-37	82
51	WHC SHC	S-36	20	S-35	31
52	WHC SHC	S-27	54	S-35	51
53	WHC SHC	S-28	45	S-28	40
54	WHC SHC	S-28	123	INLET	116
55	WHC SHC	S-29	36	2+00 RT	123
56	WHC SHC	S-29	30	INLET	41
57	WHC SHC	S-29	102	2+00 RT	49
58	WHC SHC	S-29	217	INLET	70
59	WHC SHC	S-29	227	2+00 RT	62
60	WHC SHC	S-29	138	F.H.	30
61	WHC SHC	S-30	147	4+57 RT	45
62	WHC SHC	S-30	50	F.H.	69
63	WHC SHC	S-30	42	4+57 RT	60
64	WHC SHC	S-30	66	F.H.	143
65	WHC SHC	S-30	97	F.H.	132
66	WHC SHC	S-31	78	S-31	130
67	WHC SHC	S-31	108	S-31	119
68	WHC SHC	S-31	28	S-32	35
69	WHC SHC	S-32	28	S-32	30
70	WHC SHC	S-33	113	F.H.	66
71	WHC SHC	S-33	103	11+37 RT	75
72	WHC SHC	S-34	67	F.H.	72
73	WHC SHC	S-34	65	F.H.	62
74	WHC SHC	S-32	73	S-33	15
75	WHC SHC	S-32	69	S-33	20
76	WHC SHC	S-32	14	S-33	74
77	WHC SHC	S-32	21	S-33	69
78	WHC SHC	S-30	27	S-31	15
79	WHC SHC	S-30	106	S-31	23
80	WHC SHC	S-30	21	S-31	73
81	WHC SHC	S-30	27	S-31	63
82	WHC SHC	S-30	67	S-31	151
83	WHC SHC	S-30	57	S-31	141
84	WHC SHC	S-30	158	F.H.	115
85	WHC SHC	S-30	168	4+57 RT	106
86	WHC SHC	S-30	238	F.H.	35
87	WHC SHC	S-29	76	4+57 RT	46
88	WHC SHC	S-29	66	F.H.	57
89	WHC SHC	S-29	13	INLET	36
90	WHC SHC	S-29	20	2+00	26
91	WHC SHC	S-28	98	INLET	48
92	WHC SHC	S-28	88	2+00 RT	57
93	WHC SHC	F.H.	76	INLET	21
94	WHC SHC	11+79 LT	67	11+20 LT	14
95	WHC SHC	F.H.	26	INLET	30
96	WHC SHC	11+79 LT	18	11+20 LT	30
97	WHC SHC	S-27	33	INLET	30
98	WHC SHC	S-27	40	1/2" DR.	37
99	WHC SHC	S-27	28	6" VAL.	44
100	WHC SHC	S-27	103	40	40
101	WHC SHC	S-25	61	S-26	52
102	WHC SHC	S-25	53	S-26	44
103	WHC SHC	S-24	39	F.H.	89
104	WHC SHC	S-24	86	11+79 LT	90
105	WHC SHC	F.H.	45	INLET	90
106	WHC SHC	11+79 LT	47	11+20 LT	68



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

LOT	FROM	TO	FEET	TO	FEET
47	WHC SHC	F4	28	INLET	47
48	WHC SHC	11+79 LT	82	11+20 LT	44
49	WHC SHC	S-35	85	S-37	38
50	WHC SHC	S-37	88	F.H. 10+45	42
51	WHC SHC	S-37	96	S.D.M.H.	27
52	WHC SHC	INLET	23	6+00 RT	30
53	WHC SHC	S-30 RT	13	S.D.M.H.	23
54	WHC SHC	S-21	25	INLET	192
55	WHC SHC	S-21	22	5+00 RT	201
56	WHC SHC	S-21	56	INLET	116
57	WHC SHC	S-21	65	3+85 LT	108
58	WHC SHC	S-20	120	S-21	133
59	WHC SHC	S-20	112	S-21	144
60	WHC SHC	S-20	41	INLET	46
61	WHC SHC	S-20	43	3+85 LT	87
62	WHC SHC	S-20	46	S-22	175
63	WHC SHC	S-20	65	S-22	106
64	WHC SHC	S-20	51	INLET	135
65	WHC SHC	S-20	66	3+85 LT	122
66	WHC SHC	S-20	48	INLET	49
67	WHC SHC	S-20	33	3+85 LT	60
68	WHC SHC	S-20	130	S-21	122
69	WHC SHC	S-20	115	S-21	138
70	WHC SHC	S-21	44	INLET	129
71	WHC SHC	S-21	60	3+85 LT	123
72	WHC SHC	S-21	24	INLET	188
73	WHC SHC	S-21	10	5+00 RT	207
74	WHC SHC	S-118	74	F.H.	48
75	WHC SHC	S-118	64	4+182 LT	44

OWEN'S PROPERTY PHASE II F-05-12 VALVE ASBUILTS		
STATION	TO	TO
OWEN'S COURT		
4" 5+72.67	I 54: 37' 1"	I 53: 35' 8"
8" 5+76.87	I 54: 32' 7"	I 53: 31' 7"
8" 10+24.26	FH 10+47.50: 33' 7"	SMH 27: 13' 4"
6" FH 10+47.50	FH 10' 1"	SMH 27: 31' 10"
6" PH N570.568.40 E1.378.401.66	FH 10' 6"	SMH 27: 16' 18"
8" N570.652.50/ E1.378.449.28	FH N570.568.40 E1.378.101.66: 94' 7"	SMH 27: 42' 3"
8" N570.840.67/ E1.378.461.67	SMH 26: 73' 8"	SMH 25: 87' 7"
1 1/2" DRAIN 16+75	SMH 27: 18' 10"	FOC: 26' 11"
6" FH 4+83.10	FH: 8' 4"	EXISTING MH 18' 8" 0"
RED ROME WAY		
4" 0+3.98	I 54: 37' 1"	I 53: 35' 8"
1 1/2" DRAIN 5+17.75	SMH 20: 53' 8"	SMH 22: 185'
WINESAP WAY		
8" 0+25+51	FH 10+47.50 (OWEN'S WAY): 36' 10"	SMH 27: 18' 5"
6" FH 4+57.19	FH 21' 4"	SMH 29: 122' 10"
8" 9+25	I 33: 10' 2"	SMH 32: 35' 10"
8" 9+10	I 33: 7' 11"	SMH 33: 38' 6"
6" FH 21+37	FH: 27' 5"	SMH 34: 57' 4"
8" 11+61.87	FH: 11+37: 46' 0"	SMH 34: 23' 3"

DWG. NO. 7.10.55.07 880865/PHASE II/010865/2/06

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF - BUREAU OF UTILITIES - DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE	DMW Daft-McCune-Walker, Inc. A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals		DESIGN BY: _____ DRAWN BY: _____ CHECKED BY: _____ DATE: 12/07/05	K.C.I. 2 ASBUILT DATA 10/17/05 K.C.I. 1 ASBUILT DATA 2/28/07 BY NO. REVISION DATE	FINAL SANITARY SEWER AND WATER PROFILES 600 SCALE MAP NO. 31 BLOCK NO. 10,11,16,17	OWENS PROPERTY PHASE II, LOTS 43-97 CONTRACT NO. 14-4295-D LOT/PARCEL # 243,572	SCALE: AS SHOWN SHEET 6 of 6
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Wed Dec 7 10:55:07 880865/PHASE II/010865/2/06