

FINAL PLAN

WATER AND SEWER EXTENSION

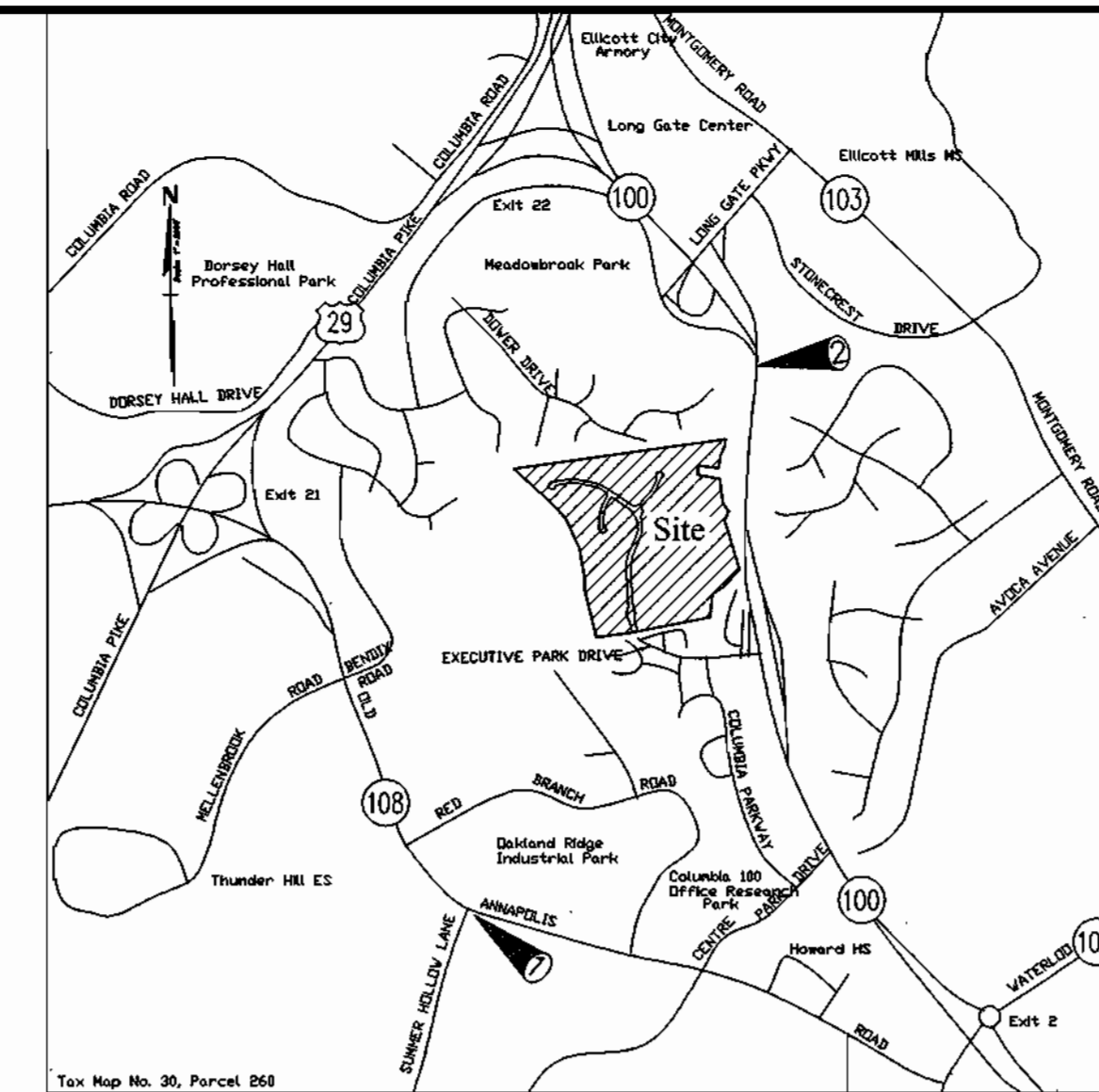
MONTJOY, PHASE I, II, AND III

TOWNHOMES, APARTMENTS AND FUTURE SINGLE FAMILY HOMES

2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT No. 24-4064-D



Vicinity Map
Scale 1" = 800'

GENERAL NOTES

PART 1 - GENERAL

- 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 NOV88 VERTICAL DATUM AS ESTABLISHED BY HOWARD COUNTY, MARYLAND.
- 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 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 MONEY OWED TO 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, STD. SPECIFICATIONS AND DETAIL 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 ARE NOTED BY THE SYMBOL WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION.....410-531-5533
BALTIMORE GAS & ELECTRIC CO.410-257-7777
CONTRACTOR SERVICES.....410-850-4620
BALTIMORE GAS & ELECTRIC CO.410-850-4620
MISS UTILITY.....410-291-4607
UNDERGROUND DAMAGE CONTROL.....410-257-7777
COLONIAL PIPELINE CO.....410-549-4120
HOWARD CO. DEPT. OF PUBLIC WORKS
BUREAU OF UTILITIES.....410-313-4900
VERIZON.....1-800-446-5266
A&T - GARY WIGFIELD.....301-865-3877
- 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 LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE SPECIFICATIONS OF ALL TOWNHOME.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT ON ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH OPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART 2 - 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 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 WATER HOUSE CONNECTIONS (WHC'S) SHALL BE INVERT METER SETTINGS UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS. ALL TOWNHOME WHC'S TO BE 1-1/2" x 1" TWIN OR 1" SINGLE COPPER WHC'S UNLESS OTHERWISE NOTED ON THE PLAN. APARTMENT BUILDING WATER CONNECTIONS TO BE 6" DUCTILE IRON WHC'S.

PART 3 - SEWER

- ALL SEWER MAINS SHALL BE DIP 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.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVERS, STANDARD DETAIL GS-52. WHERE WATER TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ALL MANHOLES SHOWN IN THE PLANS ARE PRECAST MANHOLE UNLESS OTHERWISE NOTED. ALL PRECAST MANHOLES MUST MET THE HOWARD COUNTY SPECIFICATIONS AND STANDARD.

BENCH MARKS (NAD83)			
BENCHMARK NO. 1	---HO. CO. NO. 30FA		
HOWARD CO. STD. STAMPED DISC LOCATED SW CORNER OF RT. 108 AND SUMMER HOLLOW LANE.			
N 568621.336,	E 1361563.983	ELEV. 441.619	
BENCHMARK NO. 2	---HO. CO. NO. 30CA		
HOWARD CO. STD. STAMPED DISC LOCATED ON THE EAST SIDE OF THE N.B.L. OF RT. 100			
N 575083.465,	E 1364681.801	ELEV. 380.087	

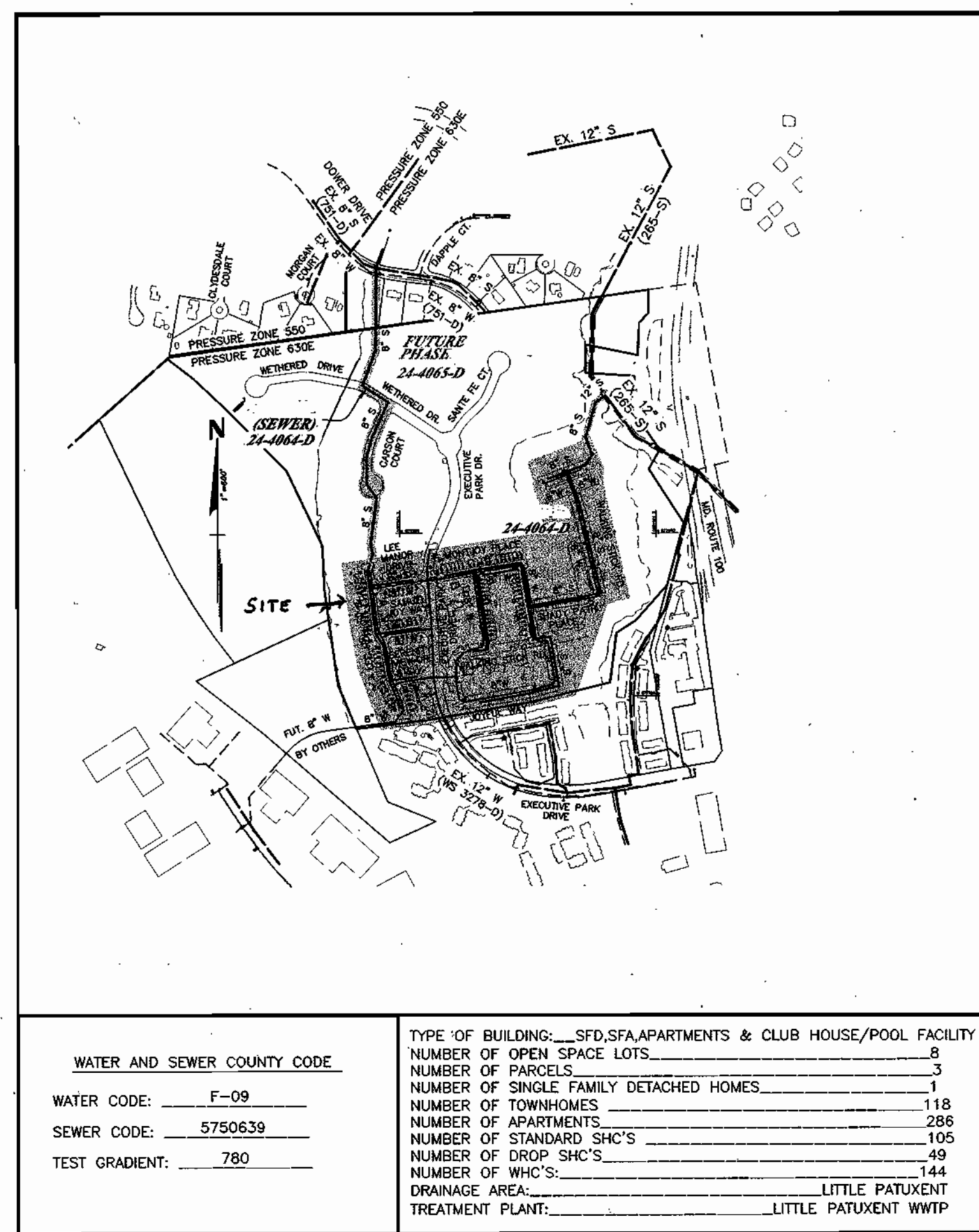
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2 TO 4	WATER & SEWER PLAN VIEWS
5 TO 9	WATER & SEWER PROFILES
10	WATER & SEWER STAKEOUT DATA
11	WATER & SEWER SERVICE CONNECTION DATA

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND UNDER F 03-87.

Reviewed for HOWARD COUNTY
and reports Technical Requirements
Lisa M. ...
USDA, NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
Approved: John ... 9/13/03
HOWARD COUNTY

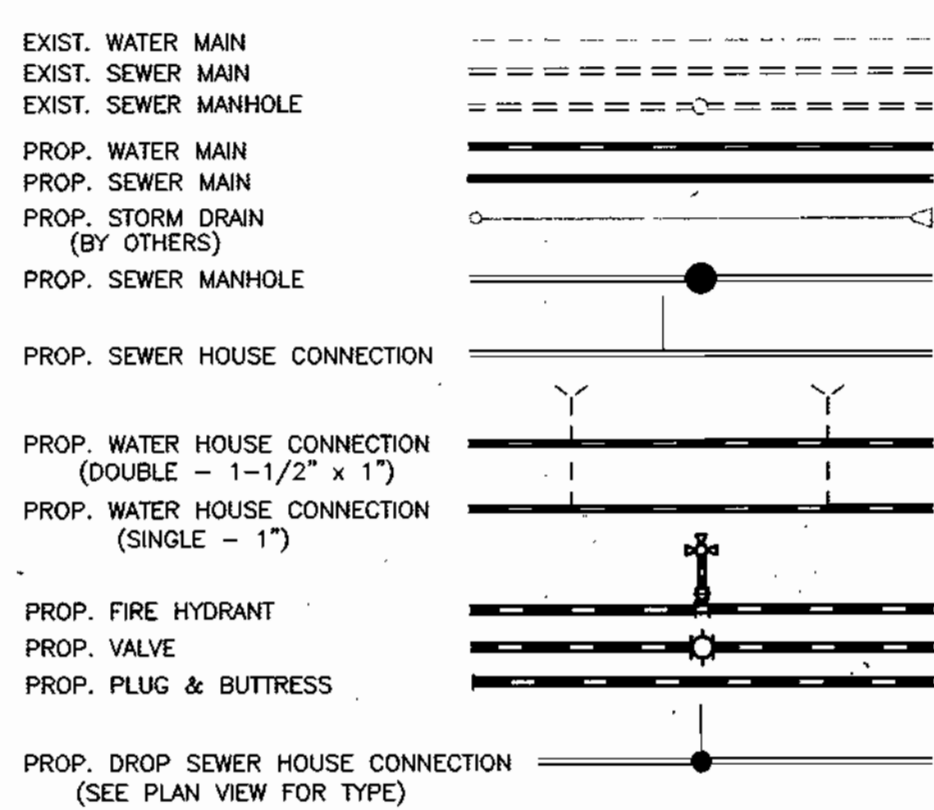
DEVELOPER/BUILDER:
WINCHESTER HOMES,
6905 ROCKLEDGE DRIVE
SUITE 800
BETHESDA, MD. 20817
(301) 803-4800



LOCATION MAP
SCALE: 1" = 600'



LEGEND



ITEMS	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
12" WATER	873 L.F.			
8" WATER	4982 L.F.			
6" WATER	369 L.F.			
12" VALVES	5 EA.			
8" VALVES	23 EA.			
6" VALVES	36 EA.			
FIRE HYDRANTS	13 EA.			
12"x6" TEE	2 EA.			
12"x8" TEE	1 EA.			
8"x8" TEE	6 EA.			
6"x6" TEE	2 EA.			
12"x8" RED	4 EA.			
8"x6" RED	1 EA.			
12"x12" CROSS	2 EA.			
8"x6" TEE	31			
8"-1/8" HB	17 EA.			
8"-1/16" HB	2 EA.			
6"-1/8" HB	5 EA.			
6"-1/16" HB	2 EA.			
12" CAP	2 EA.			
6" WHC	902 L.F.			
1-1/2" WHC	1220 L.F.			
1" WHC	820 L.F.			
1-1/2" DRAIN	1 EA.			
12" SEWER (DIP)	62 L.F.			
8" SEWER (DIP)	323 L.F.			
8" SEWER	5975 L.F.			
STD. MH'S	41			
DROP MH TYPE 'A'	1			
DROP MH TYPE 'B'	2			
6" SHC	850 L.F.			
4" SHC	2510 L.F.			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:
* INCLUDES 6" FIRE HYDRANT LEADS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

RODGERS CONSULTING
Rodgers Consulting, Inc.
9260 Gather Road
Gaithersburg, MD 20877
301.948.4700
301.948.6256 (fax)
301.253.6609
www.rodgers.com

Enhancing the value of land assets

DATE: 8-11-03
DATE: 9/16/03

DES	REV	DATE	BY	NO.	REVISIONS	DATE
DRW	SWD	9-4-03	PPB	5	REVISE TITLE BLOCK	9-4-03
CHK	SWD	6-12-03	SWD	Δ	ADDRESSED HOWARD CO. COMMENTS OF 6-12-03	6-12-03
	SWD	5-9-03	SWD	Δ	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
	SWD	3-28-03	SWD	Δ	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03

WATER & SEWER EXTENSION

TITLE SHEET

600 SCALE MAP NO. 30 BLOCK 23 & 24

MONTJOY - PHASE I, II and III

BUILDABLE LOTS 1-119 AND BUILDABLE PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"

HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 1 OF 11

Scale: 1" = 50'

Route 100

MJF Associates LP
Parcel V-3

M.L. Dawson Lee Jr.
Parcel 260

W/L 370.7

REFER TO STD. DETAIL S/3.11
FOR STREAM CROSSING REQUIREMENTS.
PROVIDE UNGROUTED RIP-RAP
STREAM BANK PROTECTION PER
MDE DETAIL WPD 3.1.

BUILD MANHOLE OVER &
CONNECT TO EX. 12" S
BUILT UNDER CONT. 265-S

20" PUBLIC SEWER, WATER
AND UTILITY EASEMENT

LOT 126
OPEN SPACE
(DEDICATED TO
DEPT. OF
RECREATION
AND PARKS)

WALKING STICK
ROAD (PRIVATE)

WALKING STICK
ROAD (PRIVATE)

BURY LINE EL=412.20
BURY LENGTH = 7.0'

MATCH LINE -- SEE SHEET 2

EX. 12" S
E 1384000

[Signature]
7/30/03

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND



Rodgers Consulting, Inc.
9260 Galther Road
Gaithersburg, MD 20877
301.948.4700
301.948.0256 (fax)
301.253.6609
www.rodgers.com

DES:	SWD			
DRN:	SWD			
CHK:	SWD	PFB 4	REVISE TITLE BLOCK	9-9-03
	SWD	3	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
	SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
DATE:	1/03	BY	NO.	REVISIONS

**WATER & SEWER EXTENSION
PLAN**

MONTJOY - PHASE I, II and III
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A";
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"
HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE
AS
SHOWN

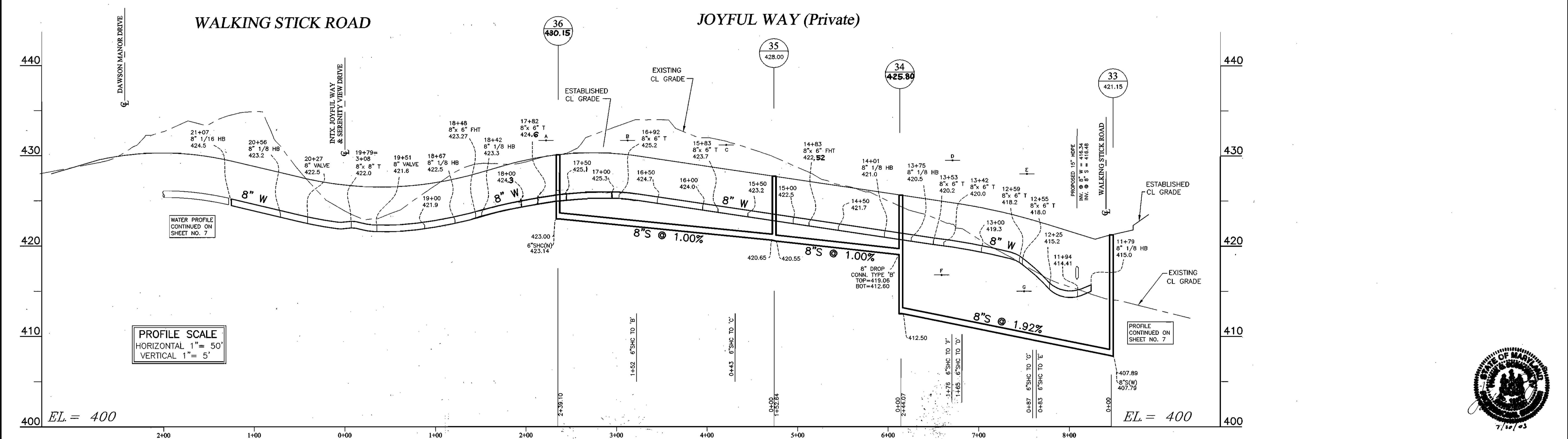
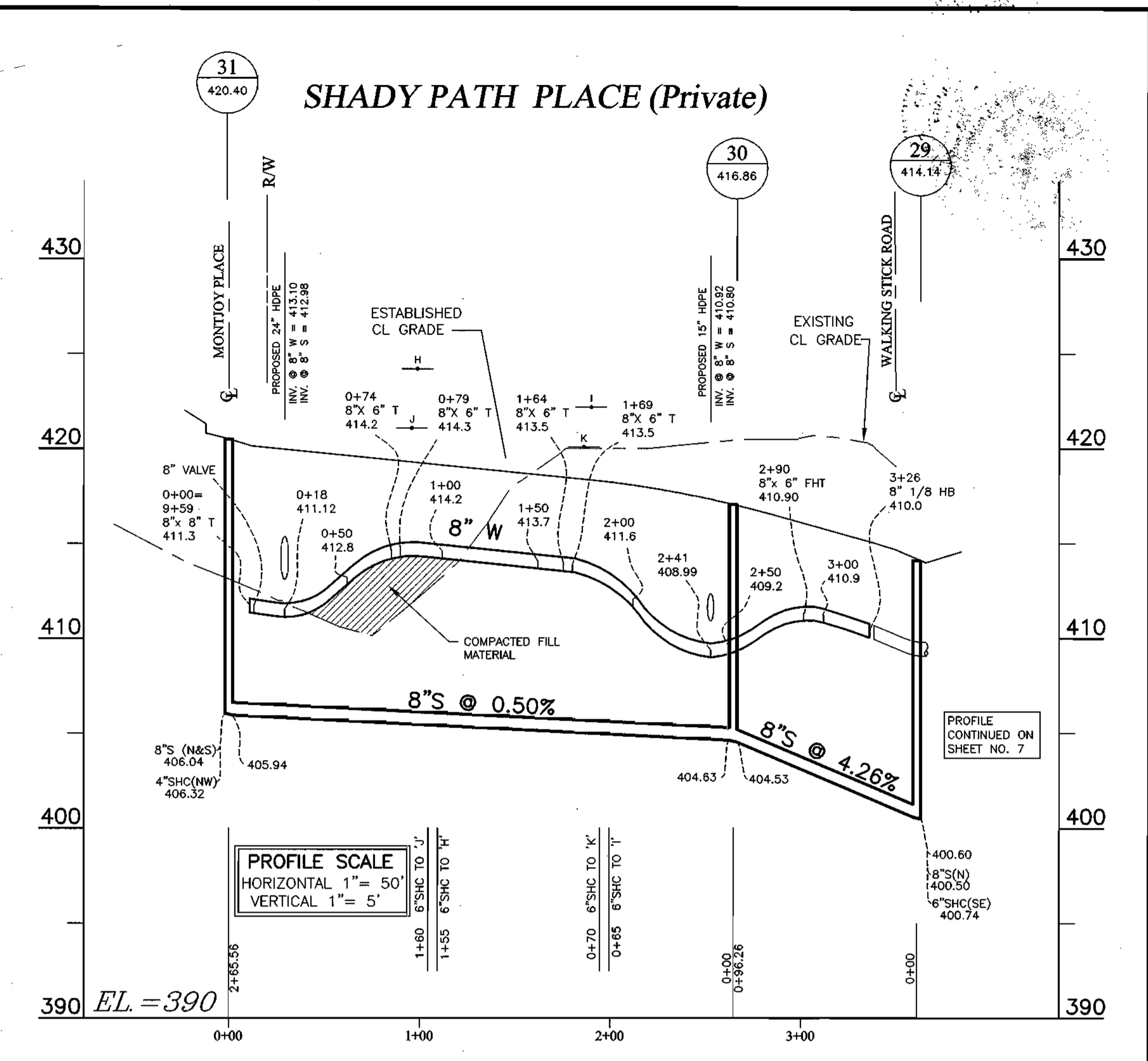
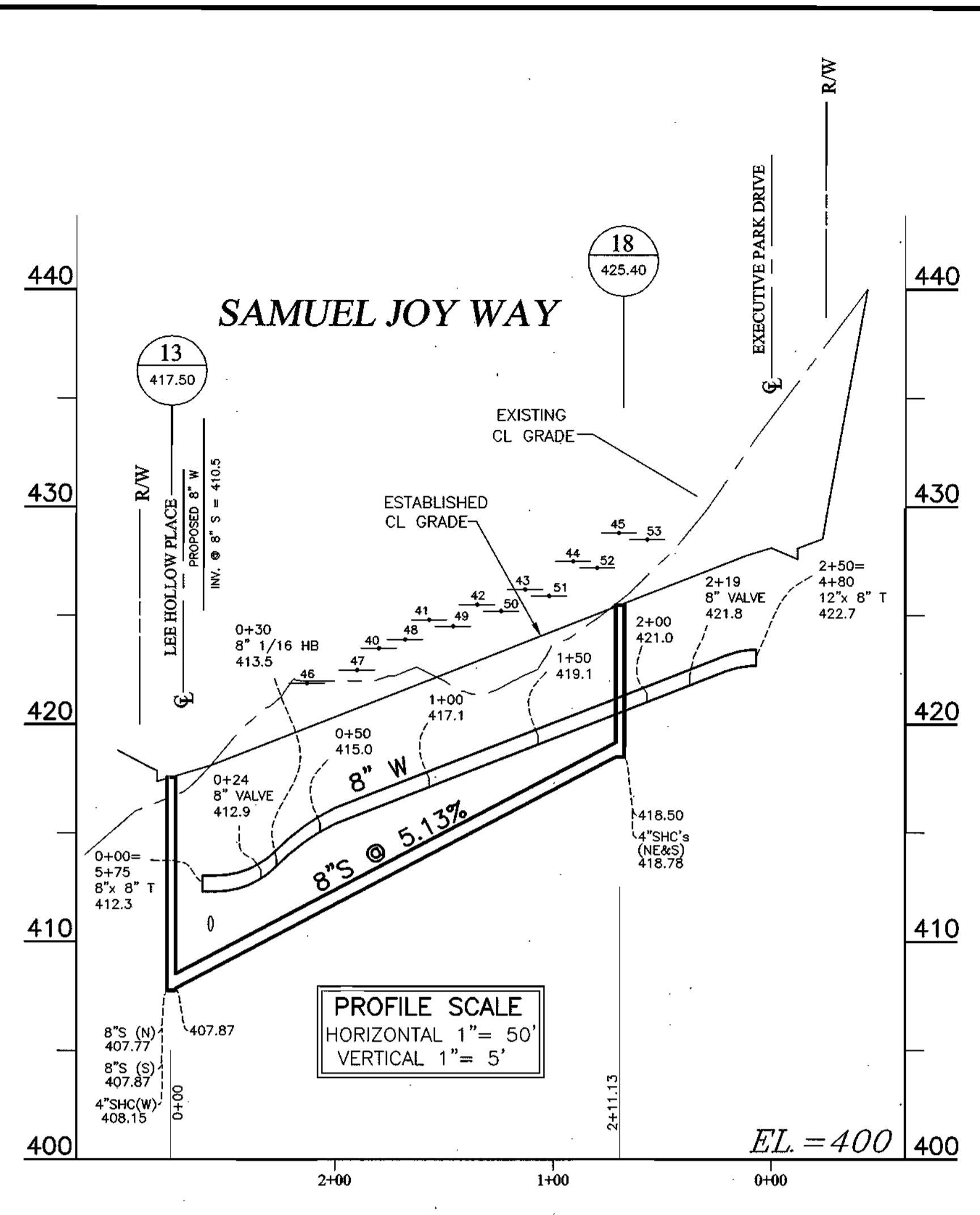
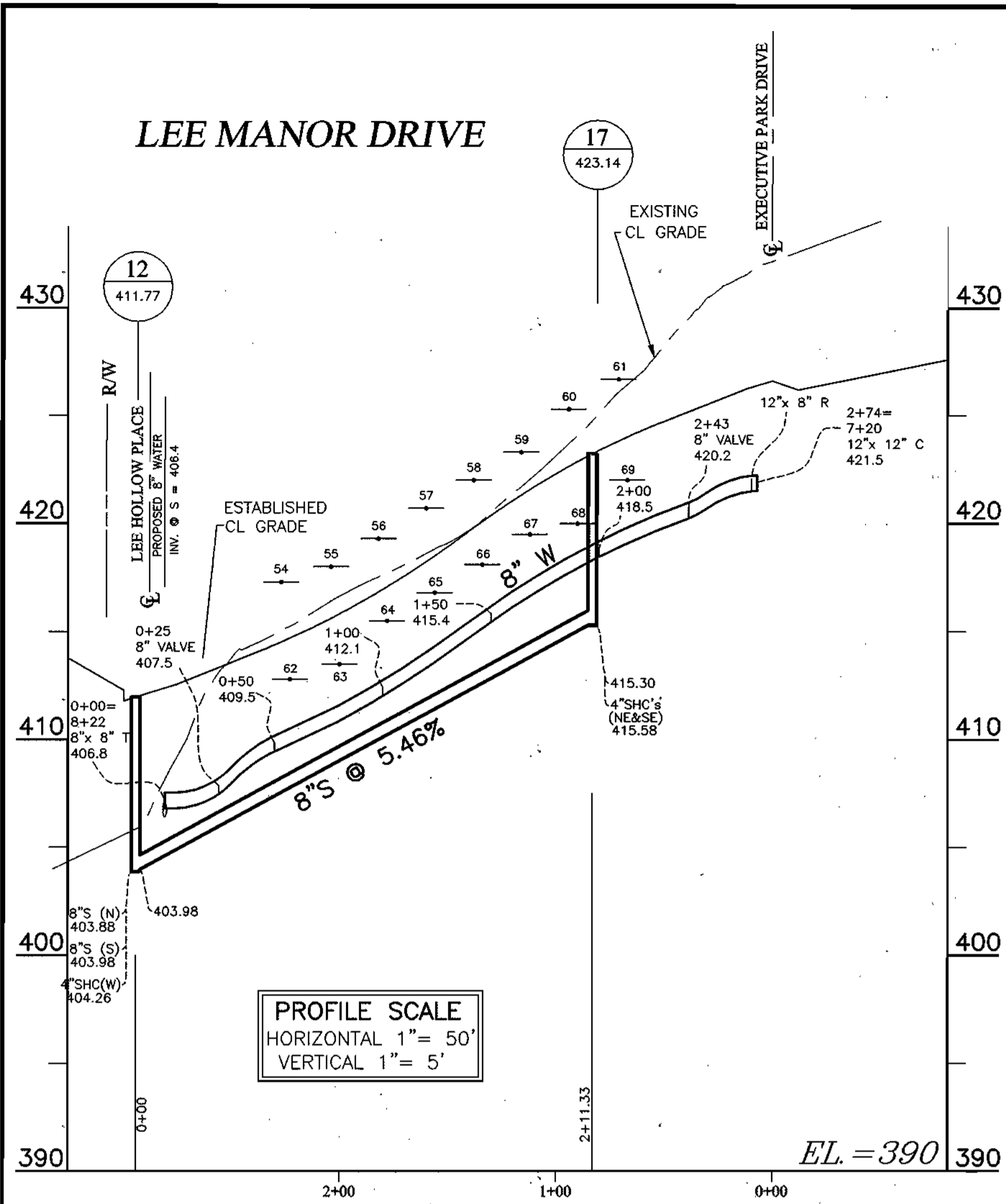
SHEET
3 OF 11

[Signature] 8-11-03
DATE

[Signature] 9/10
DATE

Enhancing the value of land assets

600 SCALE MAP NO. 30 BLOCK



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. L. ... 8-11-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

... 9/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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301.283.6600
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DES:	SWD			
DRN:	SWD			
CHK:	SWD	4	REVISE TITLE BLOCK	9-4-03
DATE:	1/03		ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
			ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
BY:	NO.		REVISIONS	DATE

WATER & SEWER EXTENSION PROFILES

600 SCALE MAP NO. 30 BLOCK

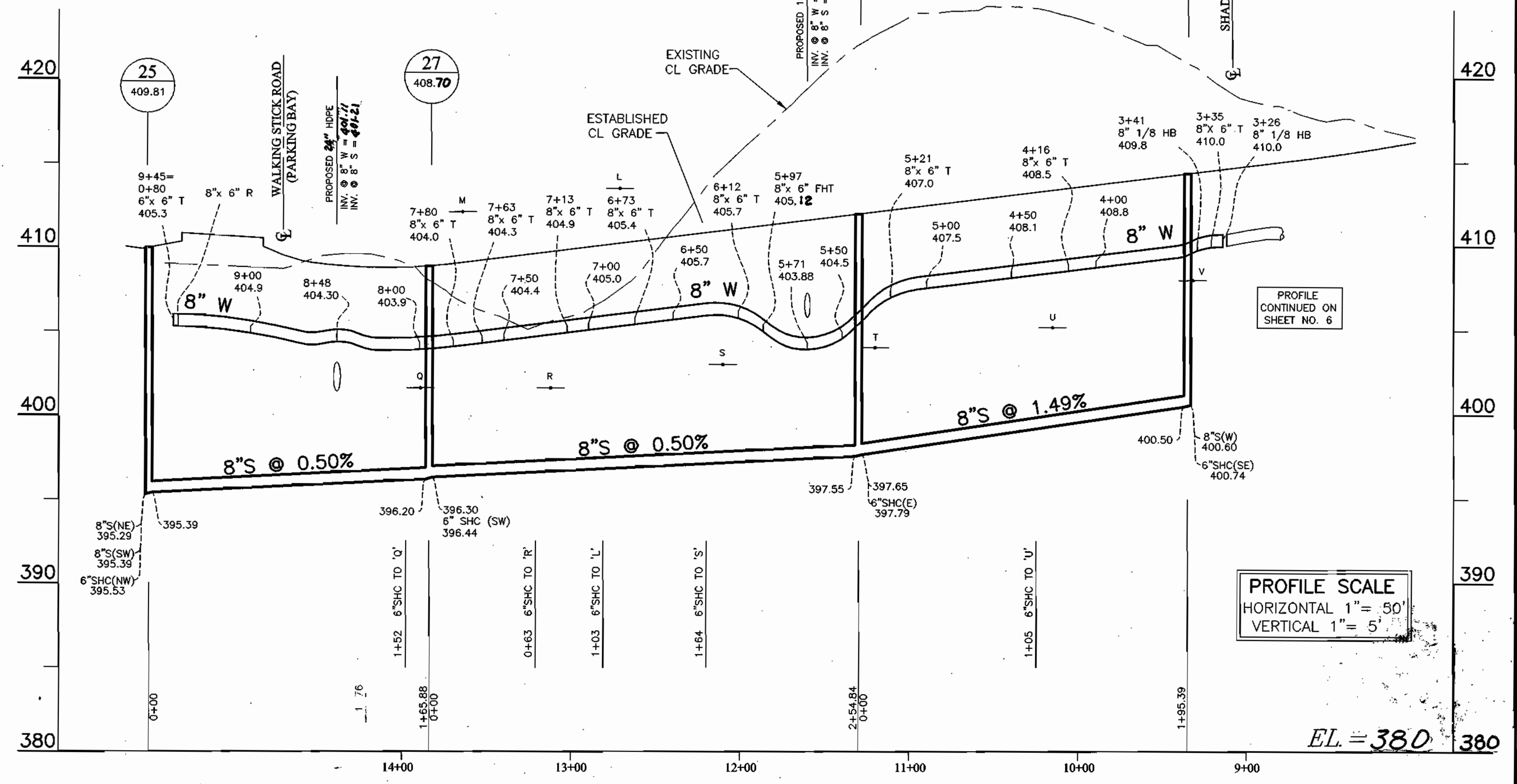
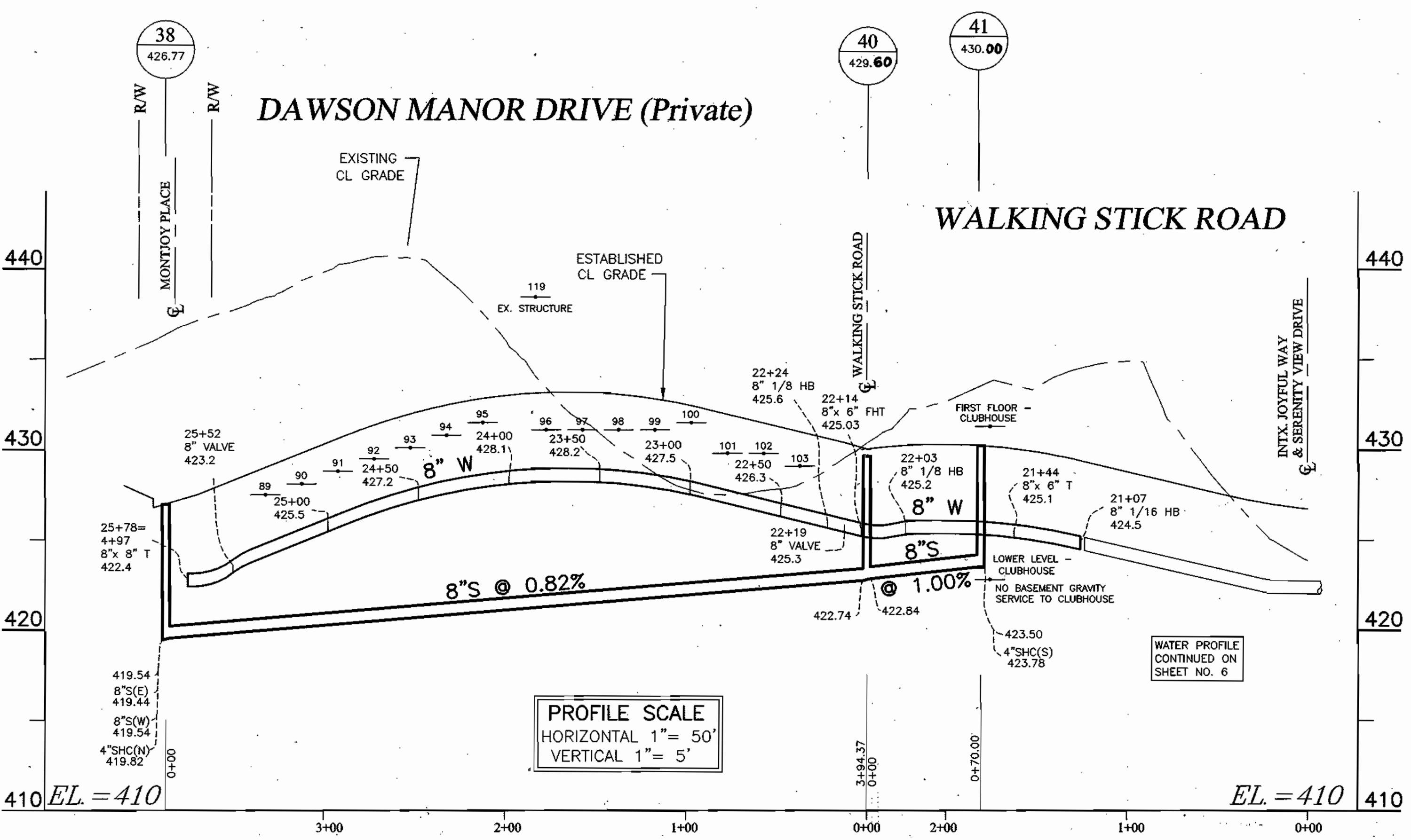
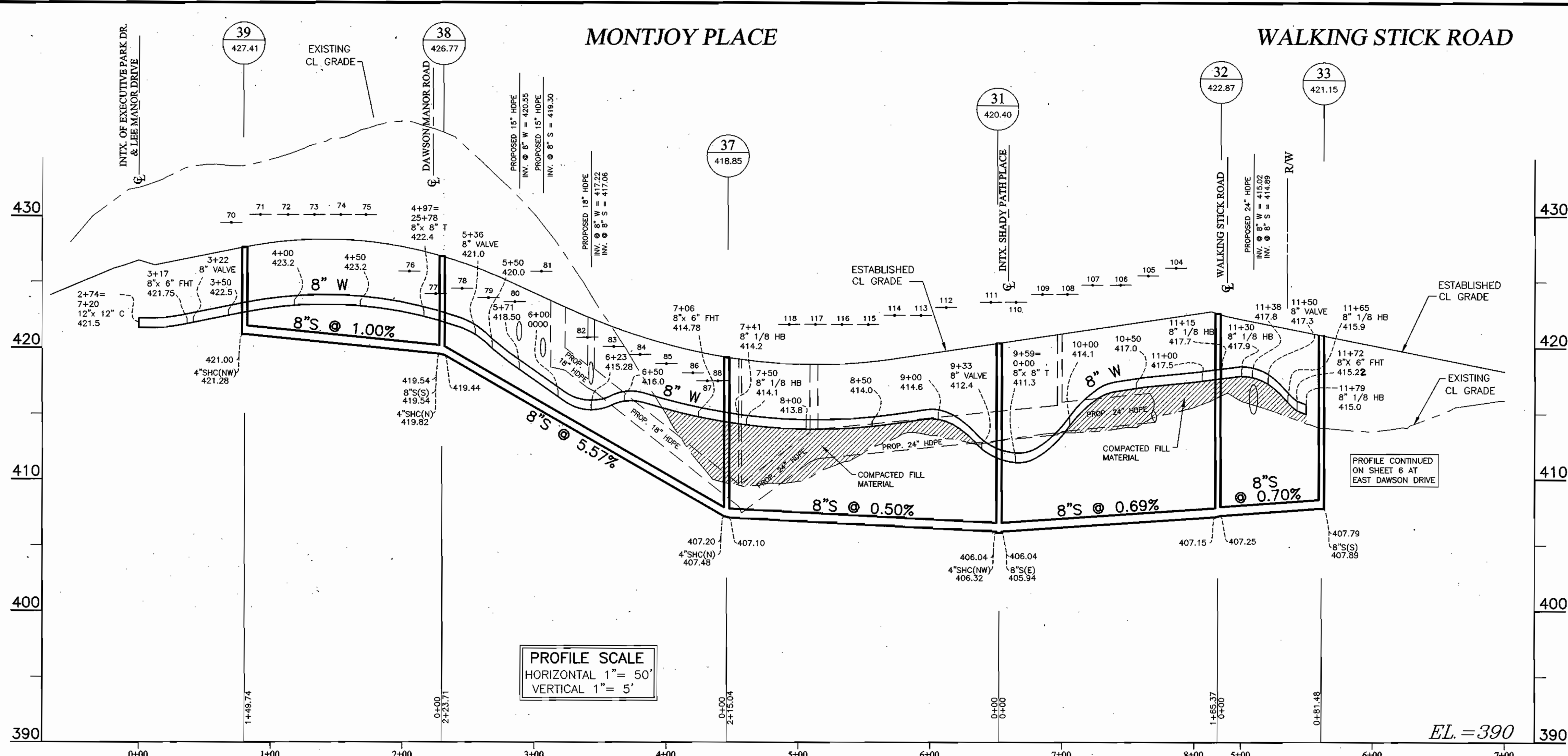
MONTJOY - PHASE I, II and III

BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"

HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 6 OF 11





DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. ...
8-11-03
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John J. ...
DATE

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Cathetersburg, MD 20877
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301.948.6256 (fax)
301.253.6609
www.rodgers.com

DES:	SWD		
DRN:	SWD		
CHK:	SWD	4	REVISE TIME BLOCK 9-4-03
	SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03 5-9-03
	SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03 3-28-03
DATE:	1/03		
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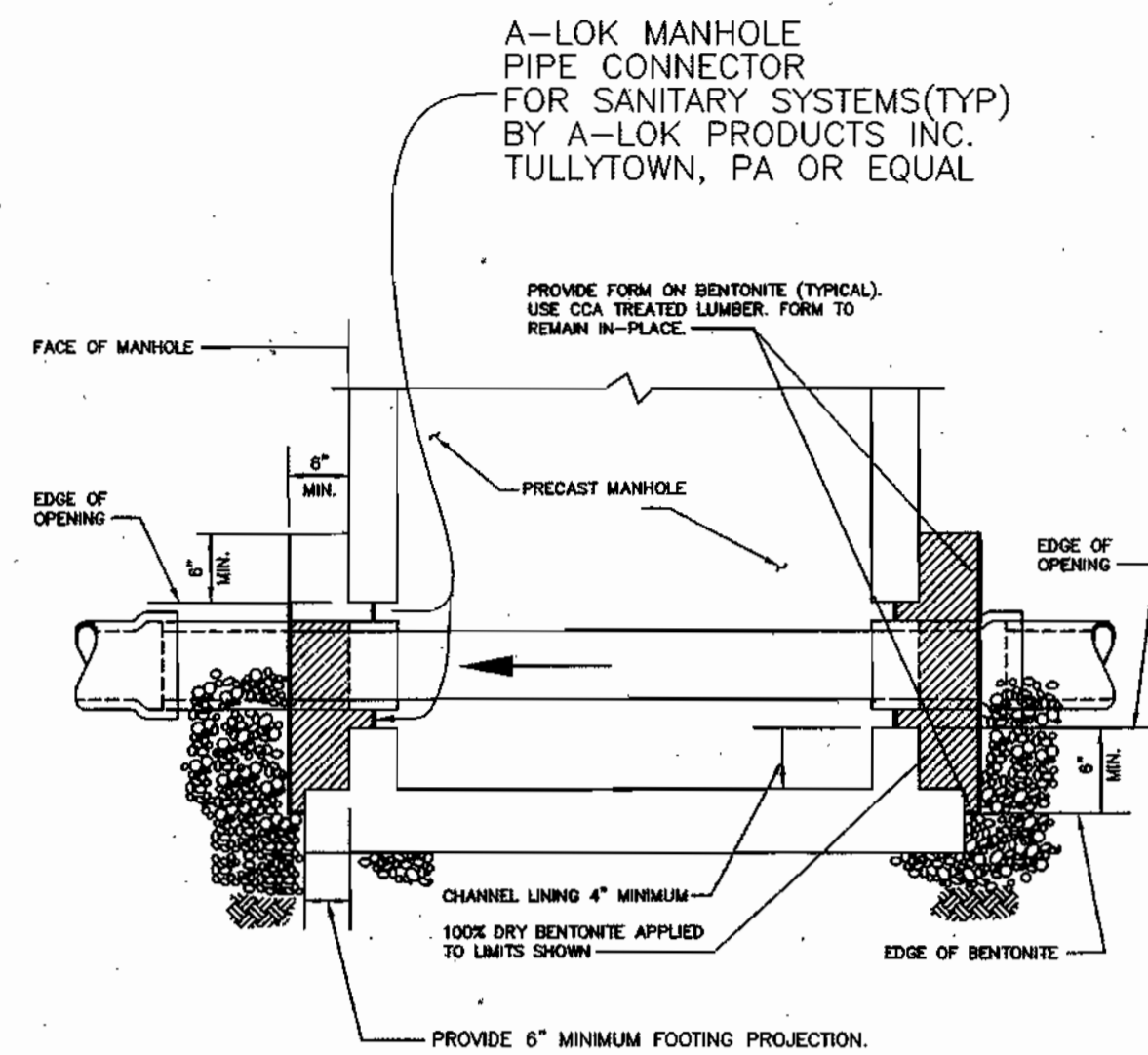
WATER & SEWER EXTENSION PROFILES

600 SCALE MAP NO. 30

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BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
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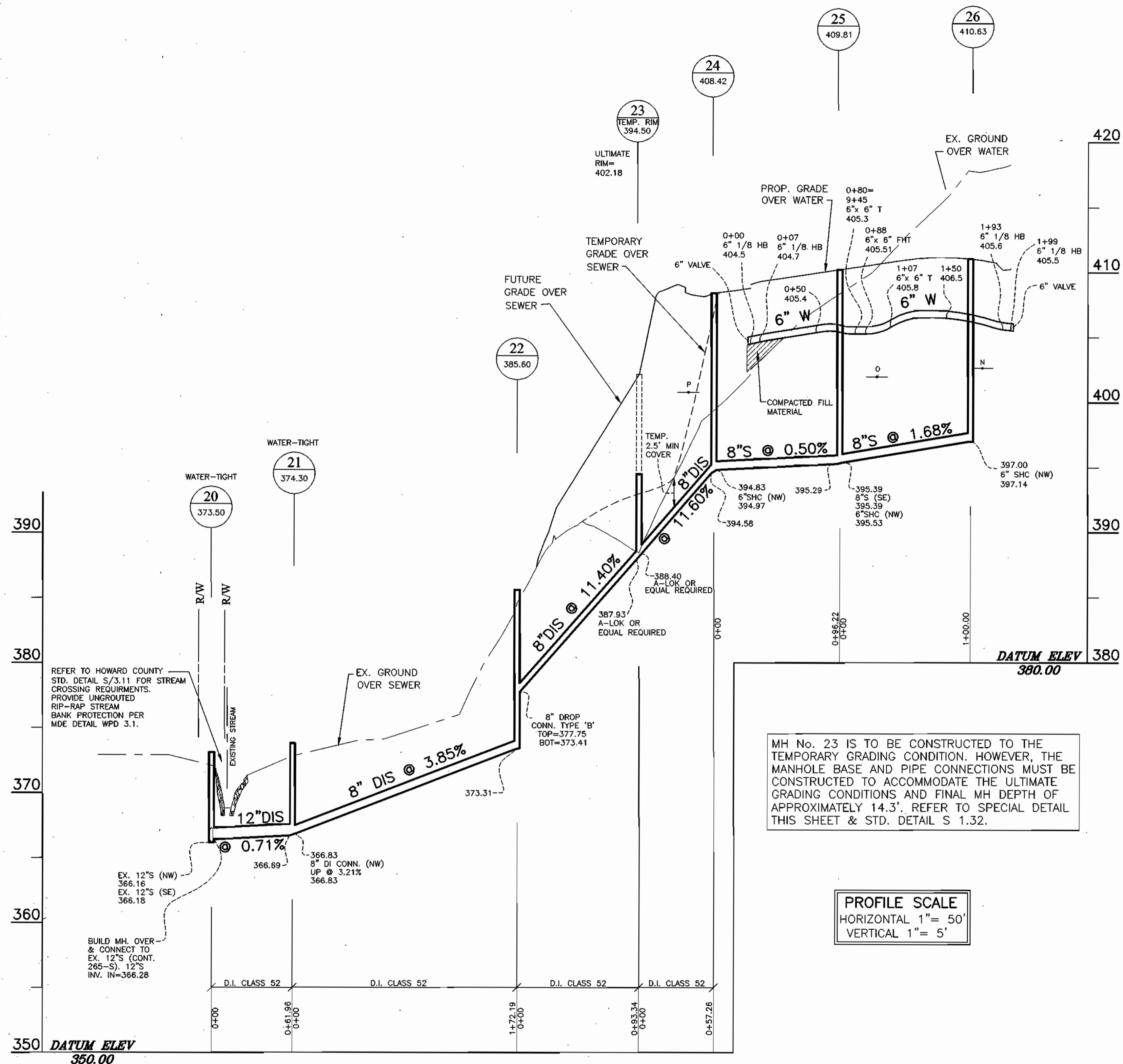
SHEET 7 OF 11



MH 23

PIPE TO MANHOLE CONNECTION FOR DEEP MANHOLE

SEWER OUTFALL & WATER LINE AT END OF WALKING STICK ROAD



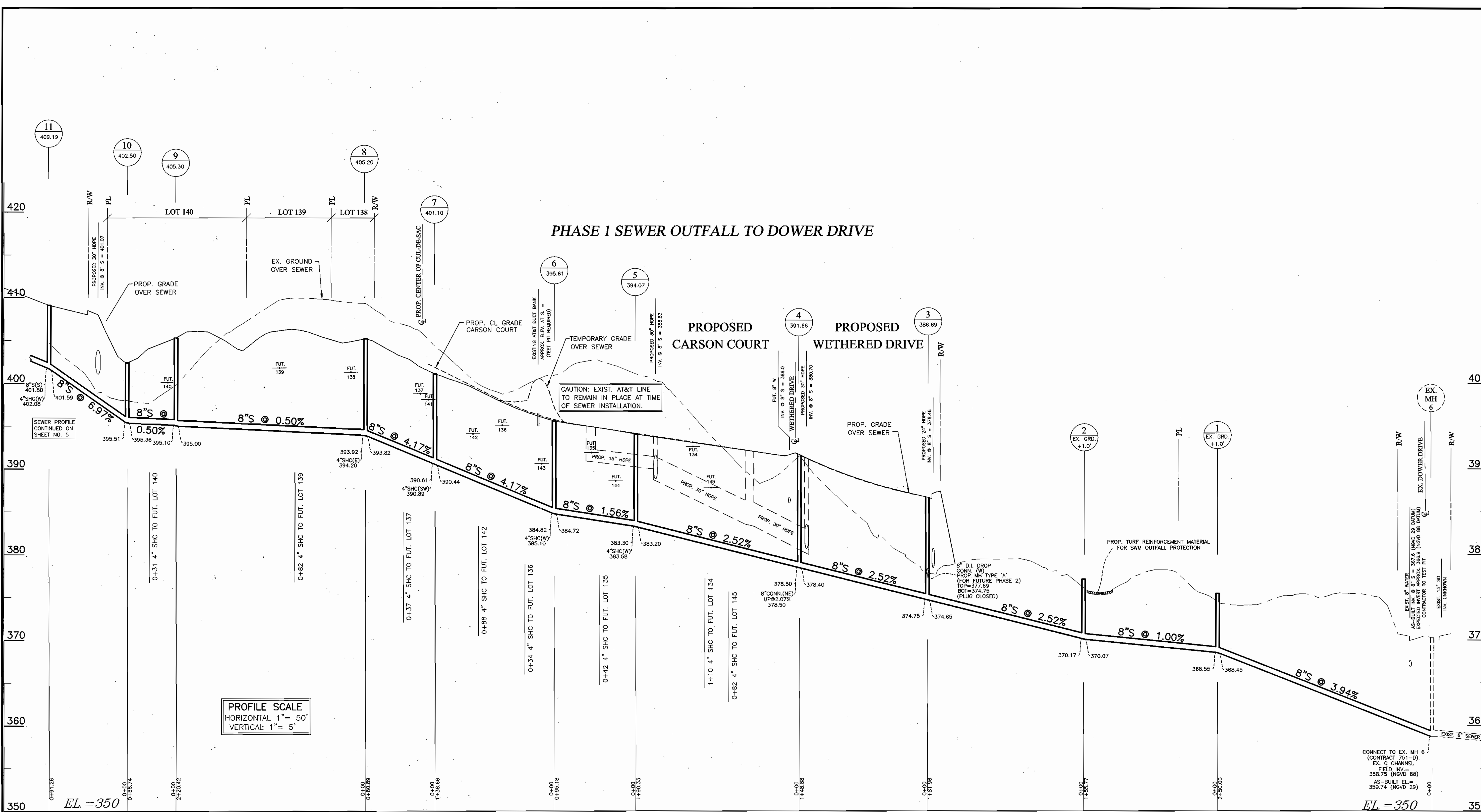
MH No. 23 IS TO BE CONSTRUCTED TO THE TEMPORARY GRADING CONDITION. HOWEVER, THE MANHOLE BASE AND PIPE CONNECTIONS MUST BE CONSTRUCTED TO ACCOMMODATE THE ULTIMATE GRADING CONDITIONS AND FINAL MH DEPTH OF APPROXIMATELY 14.3'. REFER TO SPECIAL DETAIL THIS SHEET & STD. DETAIL S 1.32.

PROFILE SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

STATE OF MARYLAND
J. J. [Signature]
2/30/03

0:\pwworkspace\1206\pwworkspace\1206.dwg 25/02/2003 09:25:04 PM EST

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>R. J. [Signature]</i> CHIEF, BUREAU OF UTILITIES DATE: 0-11-03	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE:	RODGERS CONSULTING Rodgers Consulting, Inc. 9260 Galther Road Gaithersburg, MD 20877 301.948.4700 301.948.6256 (fax) 301.253.6609 www.rodgers.com	DES: SWD DRN: SWD CHK: PFB DATE: 1/03	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>REVISE TITLE BLOCK</td> <td>9-4-03</td> </tr> <tr> <td>2</td> <td>ADDRESSED HOWARD CO. COMMENTS OF 4-30-03</td> <td>5-9-03</td> </tr> <tr> <td>3</td> <td>ADDRESSED HOWARD CO. COMMENTS OF 3-17-03</td> <td>3-28-03</td> </tr> </table>	NO.	REVISIONS	DATE	1	REVISE TITLE BLOCK	9-4-03	2	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03	3	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03	WATER & SEWER EXTENSION PROFILES 600 SCALE MAP NO. 30	MONTJOY - PHASE I, II and III BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A", OPEN SPACE LOTS 120 - 126, 194 AND NON-BUILDABLE BULK PARCELS "B" AND "C" HOWARD COUNTY ELECTION DISTRICT NO. 2 CONTRACT NO. 24-4064-D	SCALE AS SHOWN SHEET 8 OF 11
NO.	REVISIONS	DATE																	
1	REVISE TITLE BLOCK	9-4-03																	
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PROFILE SCALE
 HORIZONTAL 1" = 50'
 VERTICAL 1" = 5'

PHASE 1 SEWER OUTFALL TO DOWER DRIVE

CAUTION: EXIST. AT&T LINE TO REMAIN IN PLACE AT TIME OF SEWER INSTALLATION.

CONNECT TO EX. MH 6 (CONTRACT 751-D). EX. CHANNEL FIELD INV. = 358.75 (NGVD 88) AS-BUILT EL. = 359.74 (NGVD 29)

D:\P\2003\10\15\1015\1015.dwg Plot: VMS Plot: P:\M\1015\1015.dwg 10/15/03 10:44:40 AM EDT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. L. ... 8-11-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 ... 7/16/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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WATER & SEWER EXTENSION PROFILES

600 SCALE MAP NO. 30 BLOCK

MONTJOY - PHASE I, II and III
 BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
 OPEN SPACE LOTS 120 - 126, 194 AND
 NON-BUILDABLE BULK PARCELS "B" AND "C"
 HOWARD COUNTY ELECTION DISTRICT NO. 2
 CONTRACT NO. 24-4064-D

SCALE AS SHOWN
 SHEET 9 OF 11

WATER MAIN STAKEOUT DATA				
STREET NAME / MAIN LOCATION	WATERLINE STATION	DESCRIPTION	COORDINATE	
			NORTH	EAST
EXECUTIVE PARK DRIVE	0+00	CONN. TO EX. 12" W	571609	1363526
EXECUTIVE PARK DRIVE	0+87	1" IRRIG. CONN.	571690	1363493
EXECUTIVE PARK DRIVE	1+27	12" X 8" FH TEE	571782	1363451
EXECUTIVE PARK DRIVE	1+61 (24.6' L)	FIRE HYDRANT	571757	1363450
EXECUTIVE PARK DRIVE	1+66	12" VALVE	571766	1363473
EXECUTIVE PARK DRIVE	2+42	12" X 12" CROSS	571841	1363463
EXECUTIVE PARK DRIVE	2+47	PT	571846	1363463
EXECUTIVE PARK DRIVE	4+50	12" X 6" FH TEE	572049	1363455
EXECUTIVE PARK DRIVE	4+50 (8.5' L)	FIRE HYDRANT	572049	1363447
EXECUTIVE PARK DRIVE	4+55	12" VALVE	572054	1363455
EXECUTIVE PARK DRIVE	4+56	PC	572055	1363455
EXECUTIVE PARK DRIVE	4+80	12" X 8" TEE	572079	1363454
EXECUTIVE PARK DRIVE	5+13	PT	572117	1363452
EXECUTIVE PARK DRIVE	5+25	12" VALVE	572124	1363451
EXECUTIVE PARK DRIVE	6+90	12" VALVE	572288	1363438
EXECUTIVE PARK DRIVE	7+20	12" X 12" CROSS	572319	1363435
EXECUTIVE PARK DRIVE	7+52	PC	572350	1363433
EXECUTIVE PARK DRIVE	7+63	12" VALVE	572381	1363432
EXECUTIVE PARK DRIVE	8+73	12" CAP & BUTTRESS	572470	1363448
LEE HOLLOW PLACE	0+00	8" CAP & BUTTRESS	572358	1363155
LEE HOLLOW PLACE	1+27	8" 1/8" HB	571623	1363273
LEE HOLLOW PLACE	1+86	8" VALVE	571689	1363309
LEE HOLLOW PLACE	1+96	8" 1/8" HB	571677	1363316
LEE HOLLOW PLACE	1+98	PC	571679	1363316
LEE HOLLOW PLACE	2+82	PRC	571758	1363291
LEE HOLLOW PLACE	3+00	PT	571775	1363283
LEE HOLLOW PLACE	3+06	8" VALVE	571781	1363281
LEE HOLLOW PLACE	3+34	8" X 8" TEE	571806	1363270
LEE HOLLOW PLACE	3+43	PC	571814	1363267
LEE HOLLOW PLACE	3+76	8" VALVE	571846	1363256
LEE HOLLOW PLACE	3+99	PT	571888	1363252
LEE HOLLOW PLACE	4+38	8" X 6" FH TEE	571907	1363245
LEE HOLLOW PLACE	4+38 (14.0' R)	FIRE HYDRANT	571909	1363245
LEE HOLLOW PLACE	4+91	PC	571959	1363237
LEE HOLLOW PLACE	5+47	8" VALVE	572013	1363222
LEE HOLLOW PLACE	5+70	PRC	572034	1363212
LEE HOLLOW PLACE	5+75	8" X 8" TEE	572037	1363210
LEE HOLLOW PLACE	6+23	8" VALVE	572082	1363192
LEE HOLLOW PLACE	6+56	PT	572115	1363185
LEE HOLLOW PLACE	7+92	8" X 6" FHT	572250	1363168
LEE HOLLOW PLACE	7+92 (8.7' R)	FIRE HYDRANT	572251	1363177
LEE HOLLOW PLACE	7+97	8" VALVE	572255	1363168
LEE HOLLOW PLACE	8+27	8" X 8" TEE	572280	1363165
LEE HOLLOW PLACE	8+62	8" VALVE	572319	1363180
LEE HOLLOW PLACE	9+01	8" CAP & BUTTRESS	571608	1363147
SERENITY VIEW DRIVE	0+00	8" X 8" TEE	571806	1363270
SERENITY VIEW DRIVE	0+01	PC	571807	1363271
SERENITY VIEW DRIVE	0+25	8" VALVE	571815	1363294
SERENITY VIEW DRIVE	0+58	PT	571823	1363326
SERENITY VIEW DRIVE	1+65	PC	571839	1363431
SERENITY VIEW DRIVE	1+82	8" VALVE	571841	1363448
SERENITY VIEW DRIVE	1+81	PT	571841	1363457
SERENITY VIEW DRIVE	1+87	12" X 12" CROSS	571841	1363464
SERENITY VIEW DRIVE	2+12	8" VALVE	571842	1363478
SERENITY VIEW DRIVE	3+08	8" X 8" TEE	571846	1363574
LEE MANOR DRIVE	0+00	8" X 8" TEE	572280	1363165
LEE MANOR DRIVE	0+25	8" VALVE	572283	1363190
LEE MANOR DRIVE	0+27	PC	572283	1363191
LEE MANOR DRIVE	0+30	PT	572283	1363195
LEE MANOR DRIVE	2+43	8" VALVE	572316	1363405
LEE MANOR DRIVE	2+47	PC	572316	1363409
LEE MANOR DRIVE	2+57	PT	572317	1363419
LEE MANOR DRIVE	2+74	12" X 12" CROSS	572319	1363435
SAMUEL JOY WAY	0+00	8" X 8" TEE	572037	1363210
SAMUEL JOY WAY	0+24	8" VALVE	572049	1363230
SAMUEL JOY WAY	0+30	8" 1/8" HB	572052	1363236
SAMUEL JOY WAY	0+74	PC	572057	1363280
SAMUEL JOY WAY	0+84	PT	572058	1363289
SAMUEL JOY WAY	1+89	PC	572074	1363393
SAMUEL JOY WAY	2+17	PT	572077	1363421
SAMUEL JOY WAY	2+19	8" VALVE	572077	1363423
SAMUEL JOY WAY	2+50	12" X 8" TEE	572079	1363454
SHADY PATH PLACE	0+00	8" X 8" TEE	572181	1363938
SHADY PATH PLACE	0+05	8" VALVE	572182	1363943
SHADY PATH PLACE	0+74	8" X 6" TEE	572194	1364012
SHADY PATH PLACE	0+79	8" X 6" TEE	572195	1364016
SHADY PATH PLACE	1+64	8" X 6" TEE	572209	1364100
SHADY PATH PLACE	1+69	8" X 6" TEE	572210	1364105
SHADY PATH PLACE	2+79	PC	572228	1364213
SHADY PATH PLACE	2+80	8" X 6" FH TEE	572230	1364224
SHADY PATH PLACE	2+80 (12.6' R)	FIRE HYDRANT	572218	1364227
SHADY PATH PLACE	2+93	PT	572231	1364227
SHADY PATH PLACE	3+26	8" 1/8" HB	572238	1364259

WATER MAIN STAKEOUT DATA				
STREET NAME / MAIN LOCATION	WATERLINE STATION	DESCRIPTION	COORDINATE	
			NORTH	EAST
JOYFUL WAY	11+79	8" 1/8" HB	572016	1364022
JOYFUL WAY	12+55	8" X 6" TEE	571942	1364035
JOYFUL WAY	12+58	8" X 6" TEE	571938	1364036
JOYFUL WAY	13+42	8" X 6" TEE	571854	1364060
JOYFUL WAY	13+53	8" X 6" TEE	571845	1364052
JOYFUL WAY	13+75	8" 1/8" HB	571823	1364056
JOYFUL WAY	14+01	8" 1/8" HB	571802	1364041
JOYFUL WAY	14+06	PC	571802	1364036
JOYFUL WAY	14+26	PT	571798	1364016
JOYFUL WAY	14+83	8" X 6" FH TEE	571783	1363961
JOYFUL WAY	14+83 (15.9' R)	FIRE HYDRANT	571798	1363957
JOYFUL WAY	14+88	PC	571781	1363956
JOYFUL WAY	15+08	PT	571777	1363937
JOYFUL WAY	15+83	8" X 6" TEE	571764	1363863
JOYFUL WAY	16+92	8" X 6" TEE	571746	1363755
JOYFUL WAY	17+82	8" X 6" TEE	571730	1363666
JOYFUL WAY	18+42	8" 1/8" HB	571720	1363607
JOYFUL WAY	18+48	8" X 6" FH TEE	571723	1363603
JOYFUL WAY	18+48 (9.1' R)	FIRE HYDRANT	571731	1363608
JOYFUL WAY	18+67	8" 1/8" HB	571734	1363588
JOYFUL WAY	19+20	PC	571787	1363579
JOYFUL WAY	19+51	8" VALVE	571817	1363575
JOYFUL WAY	19+52	PT	571818	1363575
JOYFUL WAY	19+79	8" VALVE	571846	1363574
WALKING STICK ROAD	20+27	8" VALVE	571894	1363572
WALKING STICK ROAD	20+56	8" 1/8" HB	571922	1363571
WALKING STICK ROAD	21+07	8" 1/16" HB	571980	1363606
MONTJOY PLACE	3+13	PC	572322	1363475
MONTJOY PLACE	3+17	8" X 6" FH TEE	572322	1363479
MONTJOY PLACE	3+17 (14.5' L)	FIRE HYDRANT	572308	1363480
MONTJOY PLACE	3+22	8" VALVE	572323	1363484
MONTJOY PLACE	3+89	PT	572333	1363550
MONTJOY PLACE	4+43	PC	572345	1363602
MONTJOY PLACE	4+80	PT	572352	1363639
MONTJOY PLACE	4+97	8" X 8" TEE	572355	1363656
MONTJOY PLACE	5+36	8" VALVE	572361	1363694
MONTJOY PLACE	7+06	8" X 6" FH TEE	572387	1363861
MONTJOY PLACE	7+06 (14.0' R)	FIRE HYDRANT	572373	1363864
MONTJOY PLACE	7+12	PC	572388	1363868
MONTJOY PLACE	7+15	PT	572388	1363871
MONTJOY PLACE	7+41	8" 1/8" HB	572392	1363897
MONTJOY PLACE	7+50	8" 1/8" HB	572388	1363904
MONTJOY PLACE	8+33	8" VALVE	572406	1363934
MONTJOY PLACE	9+59	8" X 8" TEE	572481	1363938
MONTJOY PLACE	11+15	8" 1/8" HB	572027	1363964
WALKING STICK ROAD	11+30	8" 1/8" HB	572018	1363976
WALKING STICK ROAD	11+50	8" VALVE	572022	1363996
WALKING STICK ROAD	11+65	8" 1/8" HB	572024	1364011
WALKING STICK ROAD	11+72	8" X 6" FH TEE	572020	1364017
WALKING STICK ROAD	11+72 (12.0' R)	FIRE HYDRANT	572010	1364010
WALKING STICK ROAD	21+28	PC	571969	1363825
WALKING STICK ROAD	21+44	8" X 6" TEE	571975	1363840
WALKING STICK ROAD	22+03	8" 1/8" HB	571989	1363697
WALKING STICK ROAD	22+14	8" X 6" FH TEE	571998	1363703
WALKING STICK ROAD	22+14 (8.6' L)	FIRE HYDRANT	572003	1363696
DAWSON MANOR DRIVE	22+19	8" VALVE	572002	1363706
DAWSON MANOR DRIVE	22+24	8" 1/8" HB	572006	1363709
DAWSON MANOR DRIVE	25+52	8" VALVE	572330	1363659
WALKING STICK ROAD	3+35	8" X 6" TEE	572246	1364284
WALKING STICK ROAD	3+41	8" 1/8" HB	572251	1364287
WALKING STICK ROAD	4+16	8" X 6" TEE	572324	1364250
WALKING STICK ROAD	5+21	8" X 6" TEE	572427	1364226
WALKING STICK ROAD	5+97	8" X 6" FH TEE	572500	1364209
WALKING STICK ROAD	5+97 (7.6' L)	FIRE HYDRANT	572498	1364202
WALKING STICK ROAD	6+12	8" X 6" TEE	572514	1364206
WALKING STICK ROAD	6+73	8" X 6" TEE	572574	1364192
WALKING STICK ROAD	7+13	8" X 6" TEE	572613	1364183
WALKING STICK ROAD	7+63	8" X 6" TEE	572662	1364171
WALKING STICK ROAD	7+80	8" X 6" TEE	572678	1364167
WALKING STICK ROAD	8+03	PC	572701	1364162
WALKING STICK ROAD	8+32	PT	572729	1364154
WALKING STICK ROAD	9+45	6" X 6" TEE	572835	1364114
WALKING STICK ROAD	0+00	6" 1/8" HB	572867	1364186
WALKING STICK ROAD	0+07	6" 1/8" HB	572860	1364183
WALKING STICK ROAD	0+80	6" X 6" TEE	572835	1364114
WALKING STICK ROAD	0+88	6" X 6" FH TEE	572832	1364107
WALKING STICK ROAD	0+88 (22.7' R)	FIRE HYDRANT	572853	1364099
WALKING STICK ROAD	1+07	6" X 6" TEE	572825	1364089
WALKING STICK ROAD	1+93	6" 1/8" HB	572795	1364008
WALKING STICK ROAD	1+99	6" 1/8" HB	572798	1364003

WATER LINE CURVE TABLE, PHASE 1					
CURVE	RADIUS	LENGTH	TANGENT	CHORD, B&D	DELTA
1	619.00	246.77	125.04	S14°56'48"E 245.14	22°49'45"
2	1493.00	57.73	28.87	N03°21'56"W 57.73	2°12'56"
3	302.00	121.23	61.44	S07°01'34"W 120.41	22°59'56"
4	230.00	83.32	42.12	N17°3'16"W 82.87	20°45'23"
5	230.00	18.56	9.29	S25°17'15"E 18.56	4°37'26"
6	230.00	55.95	28.12	S16°00'22"E 55.82	13°56'20"
7	230.00	78.71	39.74	N18°50'26"W 78.33	19°38'28"
8	230.00	86.39	43.71	S17°53'05"E 85.88	21°31'11"
9	230.00	4.37	2.18	N82°04'41"E 4.37	1°35'38"
10	230.00	10.60	5.30	S83°24'14"W 10.59	4°14'44"
11	230.00	9.61	4.81	N82°28'41"E 9.61	2°23'38"
12	300.00	28.96	14.49	S84°02'46"W 28.94	5°31'48"
13	230.00	57.23	28.76	S74°09'10"W 57.08	14°15'24"
14	230.00	25.94	12.98	S84°30'42"W 25.92	6°27'40"
15	507.00	75.87	38.00	N81°14'24"E 75.80	8°34'25"
16	493.00	37.24	18.63	S79°07'02"W 37.23	4°19'41"
17	230.00	3.36	1.68	N80°51'44"E 3.36	0°50'16"
18	230.00	19.74	9.87	S77°41'40"W 19.73	4°54'59"
19	230.00	19.74	9.87	N77°41'40"E 19.73	4°54'59"
20	230.00	30.47	15.26	S06°03'09"E 30.44	7°35'22"
21	230.00	64.38	32.40	S73°15'42"W 64.17	16°02'20"
22	230.00	14.39	7.20	N78°39'02"E 14.39	3°35'07"
23	230.00	29.47	14.76	N16°48'46"W 29.45	7°20'29"

SEWER MANHOLE STAKEOUT DATA			
MH No.	STREET NAME / LOCATION	COORDINATE	
		NORTH	EAST
1	OFFSITE PARCEL A	573599	1363183
2	OS LOT 191	573443	1363181
3	WETHERED DRIVE	573272	1363119
4	WETHERED DRIVE	573192	1363244
5	CARSON COURT	573019	1363164
6	CARSON COURT	572927	1363138
7	CARSON COURT	572789	1363138
8	FUTURE LOT 138	572723	1363185
9	FUTURE LOT 140	572504	1363157
10	FUTURE LOT 140	572448	1363165
11	LEE HOLLOW PLACE	572361	1363140
12	LEE HOLLOW PLACE	572291	1363150
13	LEE HOLLOW PLACE	572055	1363182
14	LEE HOLLOW PLACE	571999	1363216
15	LEE HOLLOW PLACE	57	

WATER SERVICE CONNECTION DATA					
LOT/BLDG.	STREET NAME	SINGLE/DOUBLE	W/C SIZE	W. STATION SERVICE CONN. LOCATION	REMARKS
1	LEE HOLLOW PLACE	SINGLE	1"	1+91	
2/3	LEE HOLLOW PLACE	DOUBLE	1-1/2"	2+25	SEE STD. DETAIL FOR TWIN W/C
4/5	LEE HOLLOW PLACE	DOUBLE	1-1/2"	2+67	SEE STD. DETAIL FOR TWIN W/C
6	LEE HOLLOW PLACE	SINGLE	1"	2+22	
7/8	LEE HOLLOW PLACE	DOUBLE	1-1/2"	2+68	SEE STD. DETAIL FOR TWIN W/C
9/10	LEE HOLLOW PLACE	DOUBLE	1-1/2"	3+11	SEE STD. DETAIL FOR TWIN W/C
11/12	LEE HOLLOW PLACE	DOUBLE	1-1/2"	3+45	SEE STD. DETAIL FOR TWIN W/C
13	LEE HOLLOW PLACE	SINGLE	1"	3+81	
14/15	LEE HOLLOW PLACE	DOUBLE	1-1/2"	4+21	SEE STD. DETAIL FOR TWIN W/C
16/17	LEE HOLLOW PLACE	DOUBLE	1-1/2"	4+65	SEE STD. DETAIL FOR TWIN W/C
18/19	LEE HOLLOW PLACE	DOUBLE	1-1/2"	5+10	SEE STD. DETAIL FOR TWIN W/C
20	LEE HOLLOW PLACE	SINGLE	1"	5+68	
21	LEE HOLLOW PLACE	SINGLE	1"	5+88	
22	LEE HOLLOW PLACE	SINGLE	1"	6+28	
23/24	LEE HOLLOW PLACE	DOUBLE	1-1/2"	6+49	SEE STD. DETAIL FOR TWIN W/C
25/26	LEE HOLLOW PLACE	DOUBLE	1-1/2"	6+93	SEE STD. DETAIL FOR TWIN W/C
27	LEE HOLLOW PLACE	SINGLE	1"	7+37	
28/29	LEE HOLLOW PLACE	DOUBLE	1-1/2"	7+80	SEE STD. DETAIL FOR TWIN W/C
30/31	LEE HOLLOW PLACE	DOUBLE	1-1/2"	8+27	SEE STD. DETAIL FOR TWIN W/C
32/33	LEE HOLLOW PLACE	DOUBLE	1-1/2"	8+67	SEE STD. DETAIL FOR TWIN W/C
34	LEE HOLLOW PLACE	SINGLE	1"	8+96	
35/36	SERENITY VIEW DRIVE	DOUBLE	1-1/2"	0+50	SEE STD. DETAIL FOR TWIN W/C
37/38	SERENITY VIEW DRIVE	DOUBLE	1-1/2"	0+93	SEE STD. DETAIL FOR TWIN W/C
39	SERENITY VIEW DRIVE	SINGLE	1"	1+32	
40/41	SAMUEL JOY WAY	DOUBLE	1-1/2"	0+90	SEE STD. DETAIL FOR TWIN W/C
42/43	SAMUEL JOY WAY	DOUBLE	1-1/2"	1+34	SEE STD. DETAIL FOR TWIN W/C
44/45	SAMUEL JOY WAY	DOUBLE	1-1/2"	1+78	SEE STD. DETAIL FOR TWIN W/C
46/47	SAMUEL JOY WAY	DOUBLE	1-1/2"	0+55	SEE STD. DETAIL FOR TWIN W/C
48/49	SAMUEL JOY WAY	DOUBLE	1-1/2"	0+95	SEE STD. DETAIL FOR TWIN W/C
50/51	SAMUEL JOY WAY	DOUBLE	1-1/2"	1+39	SEE STD. DETAIL FOR TWIN W/C
52/53	SAMUEL JOY WAY	DOUBLE	1-1/2"	1+83	SEE STD. DETAIL FOR TWIN W/C
54/55	LEE MANOR DRIVE	DOUBLE	1-1/2"	0+66	SEE STD. DETAIL FOR TWIN W/C
56/57	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+10	SEE STD. DETAIL FOR TWIN W/C
58/59	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+54	SEE STD. DETAIL FOR TWIN W/C
60/61	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+99	SEE STD. DETAIL FOR TWIN W/C
62/63	LEE MANOR DRIVE	DOUBLE	1-1/2"	0+71	SEE STD. DETAIL FOR TWIN W/C
64/65	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+15	SEE STD. DETAIL FOR TWIN W/C
66	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+52	SEE STD. DETAIL FOR TWIN W/C
67/68	LEE MANOR DRIVE	DOUBLE	1-1/2"	1+81	SEE STD. DETAIL FOR TWIN W/C
69	LEE MANOR DRIVE	SINGLE	1"	2+25	
70	MONTJOY PLACE	SINGLE	1"	3+39	
71	MONTJOY PLACE	SINGLE	1"	3+74	
72/73	MONTJOY PLACE	DOUBLE	1-1/2"	4+03	SEE STD. DETAIL FOR TWIN W/C
74/75	MONTJOY PLACE	DOUBLE	1-1/2"	4+43	SEE STD. DETAIL FOR TWIN W/C
76/77	MONTJOY PLACE	DOUBLE	1-1/2"	4+84	SEE STD. DETAIL FOR TWIN W/C
78/79	MONTJOY PLACE	DOUBLE	1-1/2"	5+42	SEE STD. DETAIL FOR TWIN W/C
80/81	MONTJOY PLACE	DOUBLE	1-1/2"	5+64	SEE STD. DETAIL FOR TWIN W/C
82/83	MONTJOY PLACE	DOUBLE	1-1/2"	6+31	SEE STD. DETAIL FOR TWIN W/C
84/85	MONTJOY PLACE	DOUBLE	1-1/2"	6+71	SEE STD. DETAIL FOR TWIN W/C
86/87	MONTJOY PLACE	DOUBLE	1-1/2"	7+12	SEE STD. DETAIL FOR TWIN W/C
88	MONTJOY PLACE	SINGLE	1"	7+44	
89	DAWSON MANOR DRIVE	SINGLE	1"	25+26	
90/91	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	25+05	SEE STD. DETAIL FOR TWIN W/C
92/93	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	24+65	SEE STD. DETAIL FOR TWIN W/C
94/95	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	24+25	SEE STD. DETAIL FOR TWIN W/C
96/97	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	23+70	SEE STD. DETAIL FOR TWIN W/C
98/99	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	23+30	SEE STD. DETAIL FOR TWIN W/C
100/101	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	22+90	SEE STD. DETAIL FOR TWIN W/C
102/103	DAWSON MANOR DRIVE	DOUBLE	1-1/2"	22+50	SEE STD. DETAIL FOR TWIN W/C
104	MONTJOY PLACE	SINGLE	1"	10+92	
105/106	MONTJOY PLACE	DOUBLE	1-1/2"	10+52	SEE STD. DETAIL FOR TWIN W/C
107/108	MONTJOY PLACE	DOUBLE	1-1/2"	10+12	SEE STD. DETAIL FOR TWIN W/C
109/110	MONTJOY PLACE	DOUBLE	1-1/2"	9+72	SEE STD. DETAIL FOR TWIN W/C
112/113	MONTJOY PLACE	DOUBLE	1-1/2"	9+27	SEE STD. DETAIL FOR TWIN W/C
114/115	MONTJOY PLACE	DOUBLE	1-1/2"	8+97	SEE STD. DETAIL FOR TWIN W/C
116/117	MONTJOY PLACE	DOUBLE	1-1/2"	8+17	SEE STD. DETAIL FOR TWIN W/C
118	MONTJOY PLACE	SINGLE	1"	7+75	
119	DAWSON MANOR DRIVE	SINGLE	1"	23+98	WATER SERVICE CONN. TO EX. HOUSE
IRRIGATION	EXECUTIVE PARK DRIVE	SINGLE	1"	0+88	
BLDG "A"	JOYFUL WAY	SINGLE	6"	17+82	WITH 8"x6" TEE & 6" VALVE
BLDG "B"	JOYFUL WAY	SINGLE	6"	16+92	WITH 8"x6" TEE & 6" VALVE
BLDG "C"	JOYFUL WAY	SINGLE	6"	15+83	WITH 8"x6" TEE & 6" VALVE
BLDG "D"	JOYFUL WAY	SINGLE	6"	13+42	WITH 8"x6" TEE & 6" VALVE
BLDG "E"	JOYFUL WAY	SINGLE	6"	12+59	WITH 8"x6" TEE & 6" VALVE
BLDG "F"	JOYFUL WAY	SINGLE	6"	12+55	WITH 8"x6" TEE & 6" VALVE
BLDG "G"	JOYFUL WAY	SINGLE	6"	13+53	WITH 8"x6" TEE & 6" VALVE
BLDG "H"	SHADY PATH PLACE	SINGLE	6"	0+79	WITH 8"x6" TEE & 6" VALVE
BLDG "I"	SHADY PATH PLACE	SINGLE	6"	1+69	WITH 8"x6" TEE & 6" VALVE
BLDG "J"	SHADY PATH PLACE	SINGLE	6"	0+74	WITH 8"x6" TEE & 6" VALVE
BLDG "K"	SHADY PATH PLACE	SINGLE	6"	1+64	WITH 8"x6" TEE & 6" VALVE
BLDG "L"	WALKING STICK ROAD	SINGLE	6"	6+73	WITH 8"x6" TEE & 6" VALVE
BLDG "M"	WALKING STICK ROAD	SINGLE	6"	7+63	WITH 8"x6" TEE & 6" VALVE
BLDG "N"	WALKING STICK ROAD	SINGLE	6"	1+99	WITH 8"x6" TEE & 6" VALVE
BLDG "O"	WALKING STICK ROAD	SINGLE	6"	1+07	WITH 8"x6" TEE & 6" VALVE
BLDG "P"	WALKING STICK ROAD	SINGLE	6"	0+00	WITH 8"x6" TEE & 6" VALVE
BLDG "Q"	WALKING STICK ROAD	SINGLE	6"	7+80	WITH 8"x6" TEE & 6" VALVE
BLDG "R"	WALKING STICK ROAD	SINGLE	6"	7+13	WITH 8"x6" TEE & 6" VALVE
BLDG "S"	WALKING STICK ROAD	SINGLE	6"	6+12	WITH 8"x6" TEE & 6" VALVE
BLDG "T"	WALKING STICK ROAD	SINGLE	6"	5+21	WITH 8"x6" TEE & 6" VALVE
BLDG "U"	WALKING STICK ROAD	SINGLE	6"	4+16	WITH 8"x6" TEE & 6" VALVE
BLDG "V"	WALKING STICK ROAD	SINGLE	6"	3+36	WITH 8"x6" TEE & 6" VALVE
MAINT. SHED	JOYFUL WAY	SINGLE	1"	18+53	
CLUBHOUSE	WALKING STICK ROAD	SINGLE	6"	21+44	WITH 8"x6" TEE & 6" VALVE

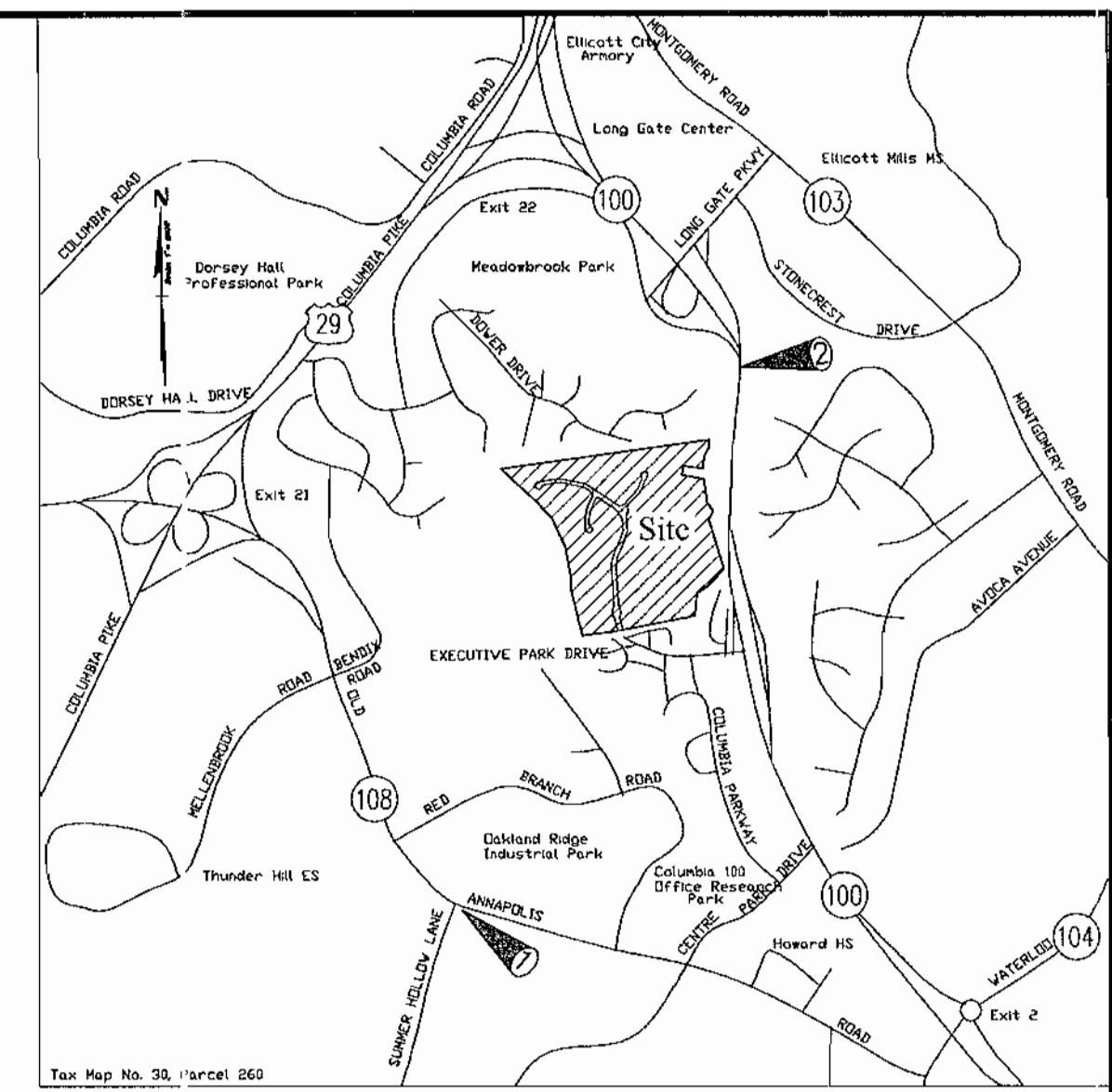
SEWER SERVICE CONNECTION DATA								
LOT/BLDG.	STREET NAME	LOCATION		SHC INVERT @ MAIN	SHC INVERT @ R/CO.	DHC INVERT @ R/CO.	MINIMUM CELLAR ELEVATION	REMARKS
		MH TO MH	SEWER STA.					
1	LEE HOLLOW PLACE	#16 TO #15	MH #16	415.10	415.70		419.74	
2	LEE HOLLOW PLACE	#16 TO #15	MH #16	415.10	415.74		419.58	
3	LEE HOLLOW PLACE	#16 TO #15	1+23	414.27	414.89		419.73	
4	LEE HOLLOW PLACE	#16 TO #15	1+01	413.41	414.01		417.99	
5	LEE HOLLOW PLACE	#16 TO #15	0+79	412.54	413.12		417.16	
6	LEE HOLLOW PLACE	#16 TO #15	1+32	414.63	414.89		418.85	
7	LEE HOLLOW PLACE	#16 TO #15	1+08	413.68	413.96		417.80	
8	LEE HOLLOW PLACE	#16 TO #15	0+85	412.78	413.08		416.88	
9	LEE HOLLOW PLACE	#16 TO #15	0+63	411.92	412.24		416.08	
10	LEE HOLLOW PLACE	#16 TO #15	0+41	411.05	411.39		415.27	
11	LEE HOLLOW PLACE	#16 TO #15	0+20	410.23	410.57		414.51	
12	LEE HOLLOW PLACE	#16 TO #15	MH #15	409.56	409.88		413.82	
13	LEE HOLLOW PLACE	#15 TO #14	1+46	409.20	409.54		413.34	
14	LEE HOLLOW PLACE	#15 TO #14	1+23	409.09	409.43		413.27	
15	LEE HOLLOW PLACE	#15 TO #14	1+01	408.28	409.32		413.12	
16	LEE HOLLOW PLACE	#15 TO #14	0+78	408.86	409.18		413.08	
17	LEE HOLLOW PLACE	#15 TO #14	0+51	408.72	409.02		412.86	
18	LEE HOLLOW PLACE	#15 TO #14	0+35	408.64	408.94		412.74	
19	LEE HOLLOW PLACE	#15 TO #14	0+13	408.53	408.83		412.67	
20	LEE HOLLOW PLACE	#14 TO #13	0+22	408.15	408.51		412.55	
21	LEE HOLLOW PLACE	#13 TO #12	MH #13	408.15	408.47		412.30	
22	LEE HOLLOW PLACE	#13 TO #12	2+18	407.67	408.01		411.85	
23	LEE HOLLOW PLACE	#13 TO #12	1+38	407.35	407.69		411.45	
24	LEE HOLLOW PLACE	#13 TO #12	1+78	406.99	407.33		411.17	
25	LEE HOLLOW PLACE	#13 TO #12	1+54	406.83	406.97		410.87	
26	LEE HOLLOW PLACE	#13 TO #12	1+32	406.28	406.60		410.42	
27	LEE HOLLOW PLACE	#13 TO #12	0+89	405.58	405.90		409.68	
28	LEE HOLLOW PLACE	#13 TO #12	0+65	405.19	405.51		409.35	
29	LEE HOLLOW PLACE	#13 TO #12	0+42	404.82	405.14		408.94	
30	LEE HOLLOW PLACE	#13 TO #12	0+21	404.48	404.80		408.62	
31	LEE HOLLOW PLACE	#13 TO #12	MH #12	404.26	404.58		408.38	
32	LEE HOLLOW PLACE	#12 TO #11	0+48	403.47	403.79		407.59	
33	LEE HOLLOW PLACE	#12 TO #11	0+26	402.78	403.08		406.94	
34	LEE HOLLOW PLACE	#12 TO #11	MH #11	402.08	402.48		406.42	
35	SERENITY VIEW DRIVE	#19 TO #18	0+56	411.90	412.18		416.18	
36	SERENITY VIEW DRIVE	#19 TO #18	0+79	412.91	413.21		417.05	
37	SERENITY VIEW DRIVE	#19 TO #18	1+00	413.83	414.13		417.93	
38	SERENITY VIEW DRIVE	#19 TO #18	1+21	414.75	415.05		418.89	
39	SERENITY VIEW DRIVE	#19 TO #18	MH #19	415.28	415.66		419.50	
40	SAMUEL JOY WAY	#18 TO #17	1+01	413.21	413.77		417.57	
41	SAMUEL JOY WAY	#18 TO #17	1+25	414.44	414.78		418.62	
42	SAMUEL JOY WAY	#18 TO #17	1+48	415.52	415.86		419.68	
43	SAMUEL JOY WAY	#18 TO #17	1+67	416.60	417.12		420.84	
44	SAMUEL JOY WAY	#18 TO #17	1+88	417.67	418.17		421.77	
45	SAMUEL JOY WAY	#18 TO #17	MH #18	418.78	419.28		423.22	
46	SAMUEL JOY WAY	#18 TO #17	0+67	411.47	411.87	416.56	420.40	
47	SAMUEL JOY WAY	#18 TO #17	0+91	412.70	413.20	417.20	421.00	
48	SAMUEL JOY WAY	#18 TO #17	1+12	413.78	414.28	418.60	422.40	
49	SAMUEL JOY WAY	#18 TO #17	1+33	414.85	415.35	419.16	423.00	
50	SAMUEL JOY WAY	#18 TO #17	1+54	415.93	416.43	419.90	423.70	
51	SAMUEL JOY WAY	#18 TO #17	1+75	417.01	417.51	420.56	424.40	
52	SAMUEL JOY WAY	#18 TO #17	1+96	418.08	418.58	421.90	425.70	
53	SAMUEL JOY WAY	#18 TO #17	MH #18	418.78	419.28	422.52	426.50	
54	LEE MANOR DRIVE	#17 TO #16	0+67	407.80	408.36		412.22	
55	LEE MANOR DRIVE	#17 TO #16	0+92	408.00	409.70		413.56	
56	LEE MANOR DRIVE	#17 TO #16	1+14	410.20	410.90		414.70	
57	LEE MANOR DRIVE	#17 TO #16	1+36	411.57	412.11		415.93	
58	LEE MANOR DRIVE	#17 TO #16	1+58	412.77	413.29		416.13	
59	LEE MANOR DRIVE	#17 TO #16	1+80	413.97	414.49		418.29	
60	LEE MANOR DRIVE	#17 TO #16	2+02	415.17	415.67		419.51	
61	LEE MANOR DRIVE	#17 TO #16	MH #17	415.58	416.16		419.96	
62	LEE MANOR DRIVE	#17 TO #16	0+71	408.02	408.34		412.14	
63	LEE MANOR DRIVE	#17 TO #16	0+96	408.38	409.70		413.50	
64	LEE MANOR DRIVE	#17 TO #16	1+18	410.58	410.92		414.72	
65	LEE MANOR DRIVE	#17 TO #16	1+40	411.78	412.12		415.96	
66	LEE MANOR DRIVE	#17 TO #16	1+62	412.44	412.80		416.60	
67	LEE MANOR DRIVE	#17 TO #16	1+84	414.19	414.55		418.39	
68	LEE MANOR DRIVE	#17 TO #16	2+06	415.39	415.77		419.55	
69	LEE MANOR DRIVE	#17 TO #16	MH #17	415.58	416.08		419.92	
70	MONTJOY PLACE	#39 TO #38	MH #39	421.28	421.78	424.10	428.00	
71	MONTJOY PLACE	#39 TO #38	1+31	421.01	421.51	424.80	428.60	
72	MONTJOY PLACE	#39 TO #38	1+19	420.89	421.39	424.80	428.60	
73	MONTJOY PLACE	#39 TO #38	0+99	420.69	421.19	424.76	428.60	
74	MONTJOY PLACE	#39 TO #38	0+79	420.49	420.99	424.76	428.60	
75	MONTJOY PLACE	#39 TO #38	0+59	420.29	420.79	424.80	428.60	
76	MONTJOY PLACE	#39 TO #38	0+24	41				

FINAL PLAN

WATER AND SEWER EXTENSION

MONTJOY, PHASE I, II, AND III

TOWNHOMES, APARTMENTS AND FUTURE SINGLE FAMILY HOMES
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 24-4064-D



Vicinity Map
Scale 1" = 600'

GENERAL NOTES

PART 1 - GENERAL

- 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 NGVD88 VERTICAL DATUM AS ESTABLISHED BY HOWARD COUNTY, MARYLAND.
- 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 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 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, STD. SPECIFICATIONS AND DETAIL 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 OPERATIONS AT HIS OWN EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION.....410-531-5533
BALTIMORE GAS & ELECTRIC CO.....410-850-4620
BALTIMORE GAS & ELECTRIC CO.....410-291-4607
UNDERGROUND DAMAGE CONTROL.....1-800-257-7777
MISS UTILITY.....410-549-4120
HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4800
BUREAU OF UTILITIES.....1-800-446-5266
A.T.&T. - GARY WIGFIELD.....301-866-3877
- 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 LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- 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 MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

PART 2 - 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 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 WATER HOUSE CONNECTIONS (WHC'S) SHALL BE INSIDE METER SETTINGS UNLESS OTHERWISE NOTED ON PLANS. SPECIFICATIONS: ALL TOWNHOME WHC'S TO BE 1" SINGLE COPPER WHC'S UNLESS OTHERWISE NOTED ON THE PLAN. APARTMENT BUILDING WATER CONNECTIONS TO BE 6" DUCTILE IRON WHC'S.

PART 3 - SEWER

- ALL SEWER MAINS SHALL BE DIP 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.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL 05-52. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ALL MANHOLES SHOWN IN THE PLANS ARE PRECAST MANHOLE UNLESS OTHERWISE NOTED. ALL PRECAST MANHOLES MUST MEET THE HOWARD COUNTY SPECIFICATIONS AND STANDARD.

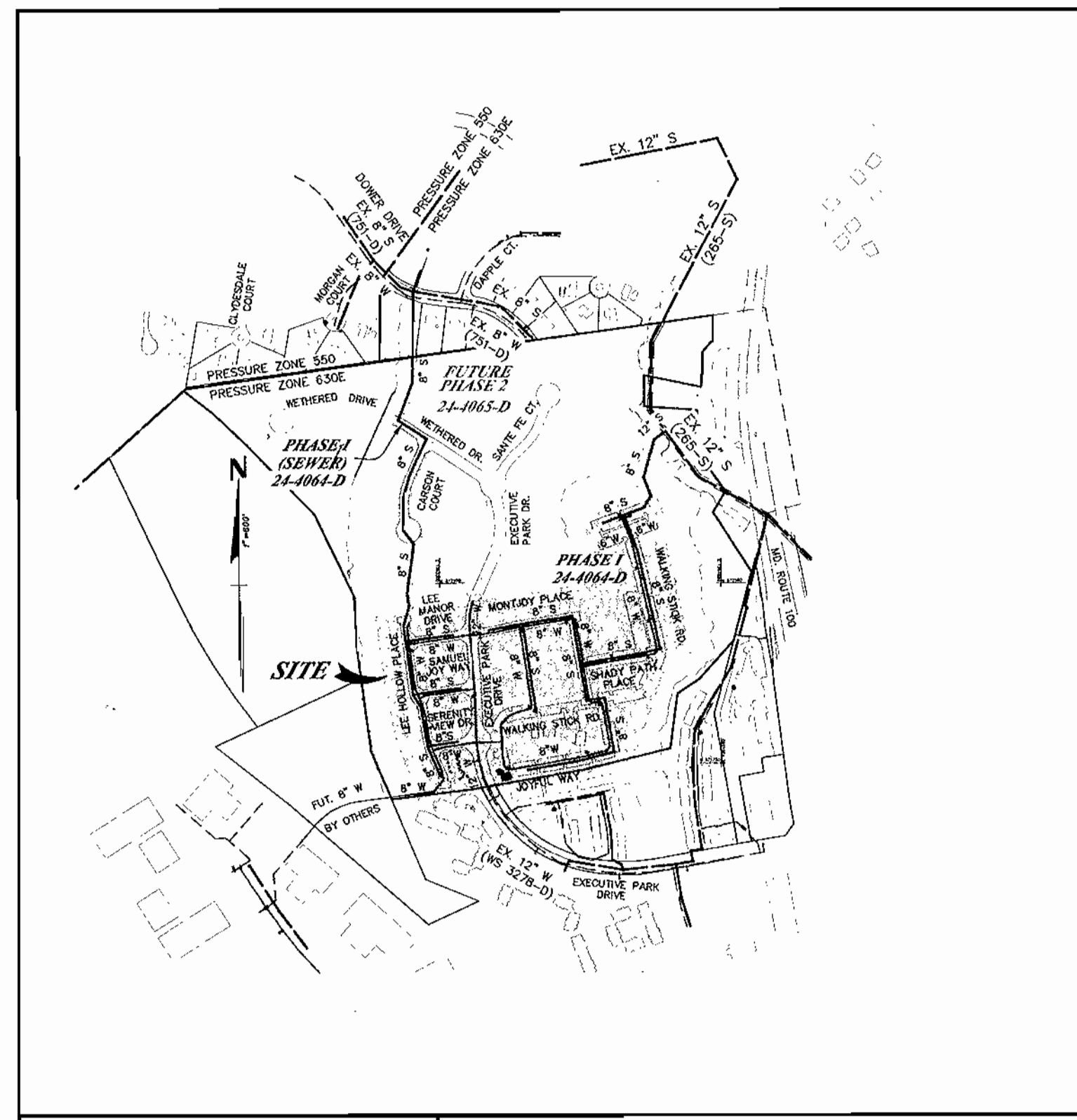
BENCH MARKS (NAD83)	
BENCHMARK NO. 1---HO. CO. NO. 30FA	
HOWARD CO. STD. STAMPED DISC LOCATED SW CORNER OF RT. 108 AND SUMMER HOLLOW LANE.	
N 568621.336, E 1361563.983	ELEV. 441.619
BENCHMARK NO. 2---HO. CO. NO. 30CA	
HOWARD CO. STD. STAMPED DISC LOCATED ON THE EAST SIDE OF THE N.B.L. OF RT. 100	
N 575083.465, E 1364681.801	ELEV. 350.087

Reviewed for HOWARD CO. D.C.D.
and made Technical Amendments
J. R. P. [Signature]
USDA, NATURAL RESOURCES SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved [Signature]
Date 4/30/04

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2 TO 4	WATER & SEWER PLAN VIEWS
5 TO 9	WATER & SEWER PROFILES
10	WATER & SEWER STAKEOUT DATA
11	WATER & SEWER SERVICE CONNECTION DATA

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND UNDER F 03-87.



WATER AND SEWER COUNTY CODE	
WATER CODE: F-09	TYPE OF BUILDING: SFD, SFA, APARTMENTS & CLUB HOUSE/POOL FACILITY
SEWER CODE: 5750639	NUMBER OF OPEN SPACE LOTS: 8
TEST GRADIENT: 780	NUMBER OF PARCELS: 3
	NUMBER OF SINGLE FAMILY DETACHED HOMES: 1
	NUMBER OF TOWNHOMES: 118
	NUMBER OF APARTMENTS: 286
	NUMBER OF STANDARD SHC'S: 105
	NUMBER OF DROP SHC'S: 49
	NUMBER OF WHC'S: 11
	NUMBER OF WHC'S: 137
	LITTLE PATUXENT TREATMENT PLANT
	LITTLE PATUXENT WTP

LOCATION MAP
SCALE: 1" = 600'

THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

LEGEND

- EXIST. WATER MAIN
- EXIST. SEWER MAIN
- EXIST. SEWER MANHOLE
- PROP. WATER MAIN
- PROP. SEWER MAIN
- PROP. STORM DRAIN (BY OTHERS)
- PROP. SEWER MANHOLE
- PROP. SEWER HOUSE CONNECTION
- PROP. WATER HOUSE CONNECTION (SINGLE - 1")
- PROP. FIRE HYDRANT
- PROP. VALVE
- PROP. PLUG & BUTTRISS
- PROP. DROP SEWER HOUSE CONNECTION (SEE PLAN VIEW FOR TYPE)

QUANTITIES			
ITEMS	ESTIMATED QUANTITIES	AS-BUILT	
		QUANTITIES	MANUF./SUPPLIER
12" WATER	873 L.F.		
8" WATER	4982 L.F.		
6" WATER	240 L.F.		
12" VALVES	5 EA.		
8" VALVES	23 EA.		
6" VALVES	26 EA.		
4" VALVE	1 EA.		
FIRE HYDRANTS	15 EA.		
12"x6" TEE	2 EA.		
12"x8" TEE	1 EA.		
8"x8" TEE	6 EA.		
6"x6" TEE	3 EA.		
8"x6" TEE	23 EA.		
8"x4" TEE	1 EA.		
12"x8" RED	4 EA.		
8"x6" RED	1 EA.		
12"x12" CROSS	2 EA.		
8"-1/8" HB	17 EA.		
8"-1/16" HB	2 EA.		
6"-1/8" HB	2 EA.		
6"-1/16" HB	2 EA.		
4"-1/8" HB	1 EA.		
12" CAP	1 EA.		
8" CAP	2 EA.		
6" CAP	1 EA.		
6" WHC	479 L.F.		
4" WHC	52 L.F.		
1" WHC	3119 L.F.		
1-1/2" DRAIN	1 EA.		
12" SEWER (DIP)	823 L.F.		
8" SEWER (DIP)	5907 L.F.		
6" SEWER	37 EA.		
STD. MH'S	37 EA.		
DROP MH TYPE 'A'	1 EA.		
DROP MH TYPE 'B'	2 EA.		
6" SHC	850L.F.		
4" SHC	2510 L.F.		

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:
* INCLUDES 6" FIRE HYDRANT LEADS
8"x6" TSBV

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Rodgers Consulting, Inc.
9260 Galther Road
Gaithersburg, MD 20877
301.948.4700
301.948.6256 (fax)
301.253.6609
www.rodgers.com

DES: SWD

DRN: SWD

CHK:

DATE: 01/03

PPB

PFB

SWD

SWD

SWD

REVISE QUANTITY TABLE FOR ADJ. COIN.

REVISE TITLE BLOCK

ADDRESSED HOWARD CO. COMMENTS OF 6-12-03

ADDRESSED HOWARD CO. COMMENTS OF 4-30-03

ADDRESSED HOWARD CO. COMMENTS OF 3-17-03

BY	NO.	REVISIONS	DATE
PPB	1	REVISE QUANTITY TABLE FOR ADJ. COIN.	10/11/04
YSL	2	RED-LINE REVISION-REVISE QUANTITY DATA	4/16/04
PFB	3	REVISE TITLE BLOCK	9-4-03
SWD	4	ADDRESSED HOWARD CO. COMMENTS OF 6-12-03	6-12-03
SWD	5	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
SWD	6	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03

WATER & SEWER EXTENSION
TITLE SHEET

600 SCALE MAP NO. 30 BLOCK 23 & 24

MONTJOY - PHASE I, II and III

BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"

HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 1 OF 11

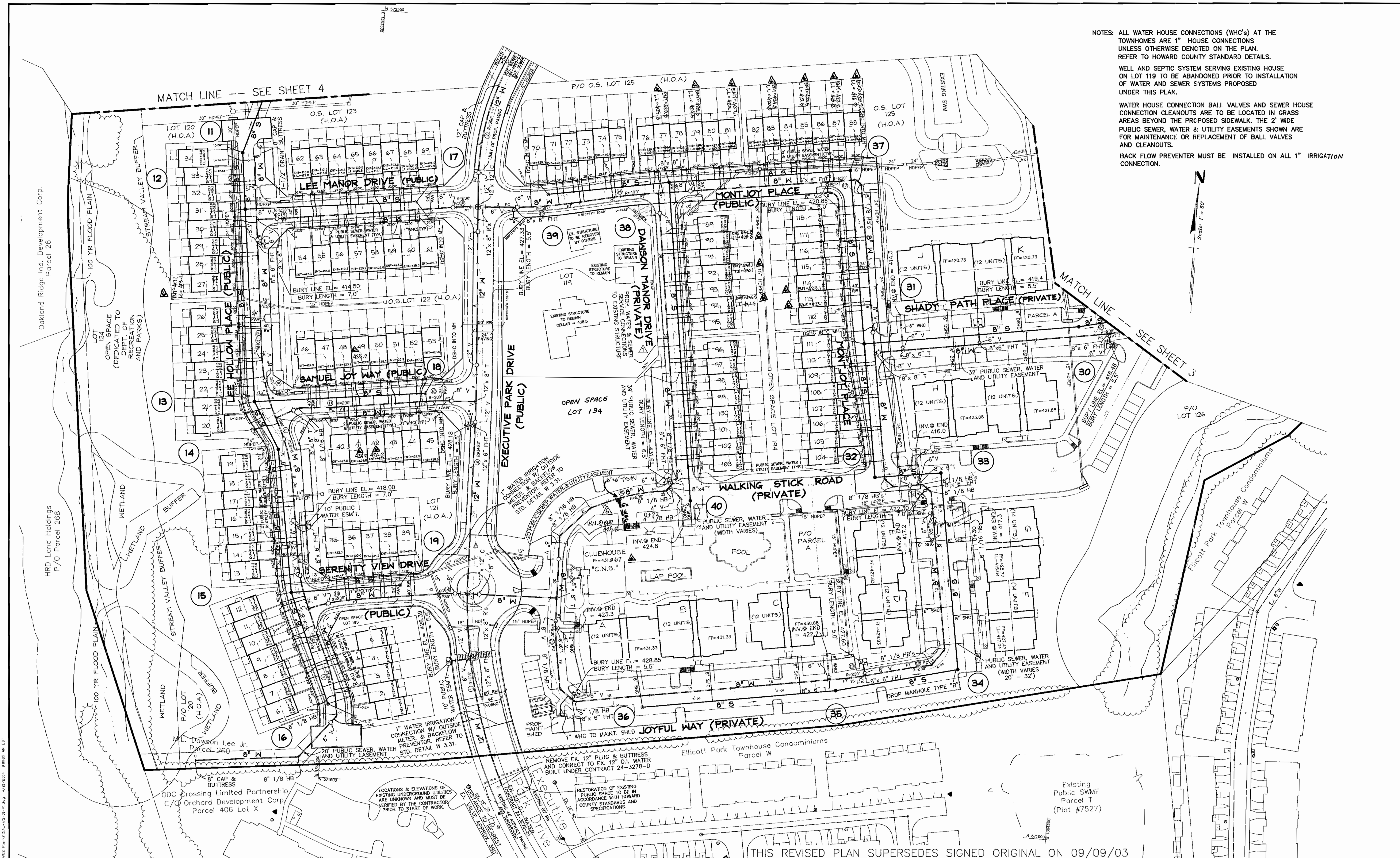
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NOTES: ALL WATER HOUSE CONNECTIONS (WHC's) AT THE TOWNHOMES ARE 1" HOUSE CONNECTIONS UNLESS OTHERWISE DENOTED ON THE PLAN. REFER TO HOWARD COUNTY STANDARD DETAILS.

WELL AND SEPTIC SYSTEM SERVING EXISTING HOUSE ON LOT 119 TO BE ABANDONED PRIOR TO INSTALLATION OF WATER AND SEWER SYSTEMS PROPOSED UNDER THIS PLAN.

WATER HOUSE CONNECTION BALL VALVES AND SEWER HOUSE CONNECTION CLEANOUTS ARE TO BE LOCATED IN GRASS AREAS BEYOND THE PROPOSED SIDEWALK. THE 2' WIDE PUBLIC SEWER, WATER & UTILITY EASEMENTS SHOWN ARE FOR MAINTENANCE OR REPLACEMENT OF BALL VALVES AND CLEANOUTS.

BACK FLOW PREVENTER MUST BE INSTALLED ON ALL 1" IRRIGATION CONNECTION.



MATCH LINE -- SEE SHEET 4

MATCH LINE -- SEE SHEET 3

Scale: 1" = 60'

Oakland Ridge Ind. Development Corp.
Parcel 26

HRD Land Holdings
P/O Parcel 268

Filcott Park Townhouse Condominiums
Parcel W

ODC Crossing Limited Partnership
C/O Orchard Development Corp.
Parcel 406 Lot X

LOCATIONS & ELEVATIONS OF EXISTING UNDERGROUND UTILITIES ARE UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF WORK.

REMOVE EX. 12" PLUG & BUTTRISS AND CONNECT TO EX. 12" D.I. WATER BUILT UNDER CONTRACT 24-3278-D

Existing Public SWMF Parcel T (Plat #7527)

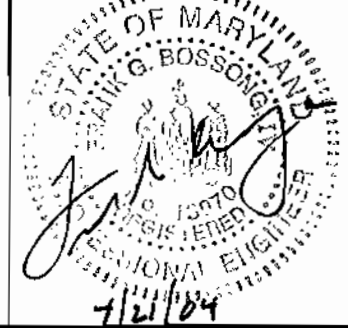
THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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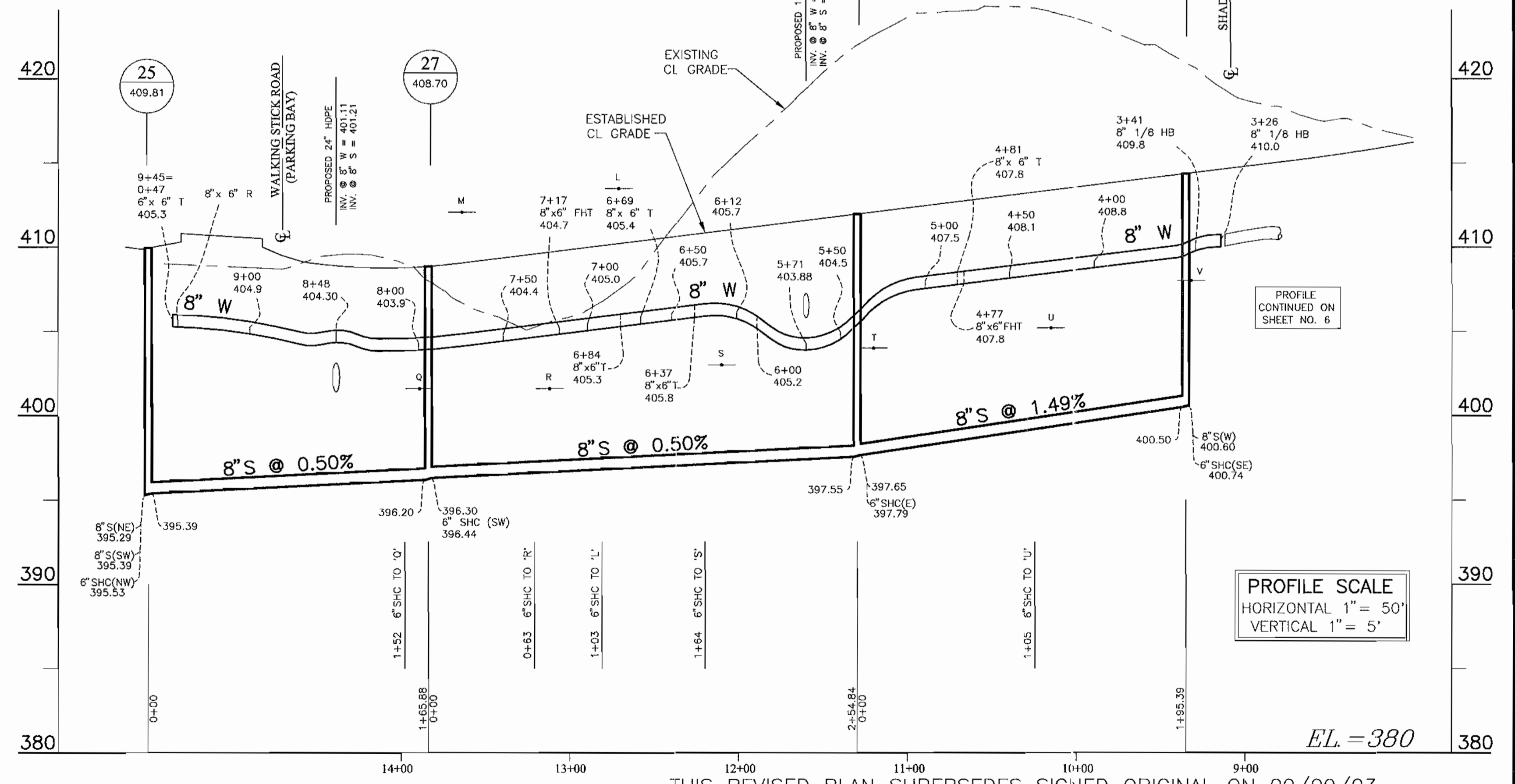
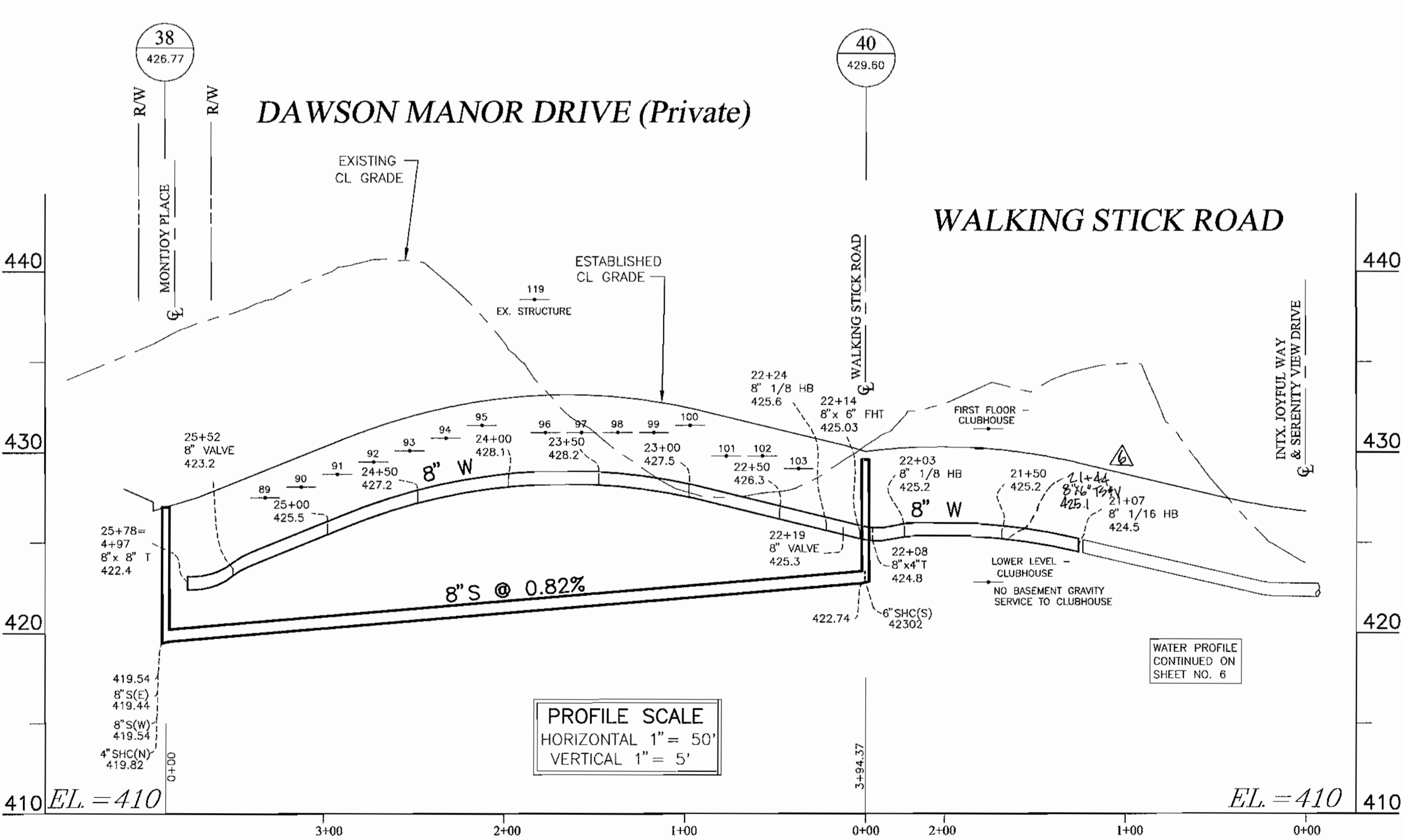
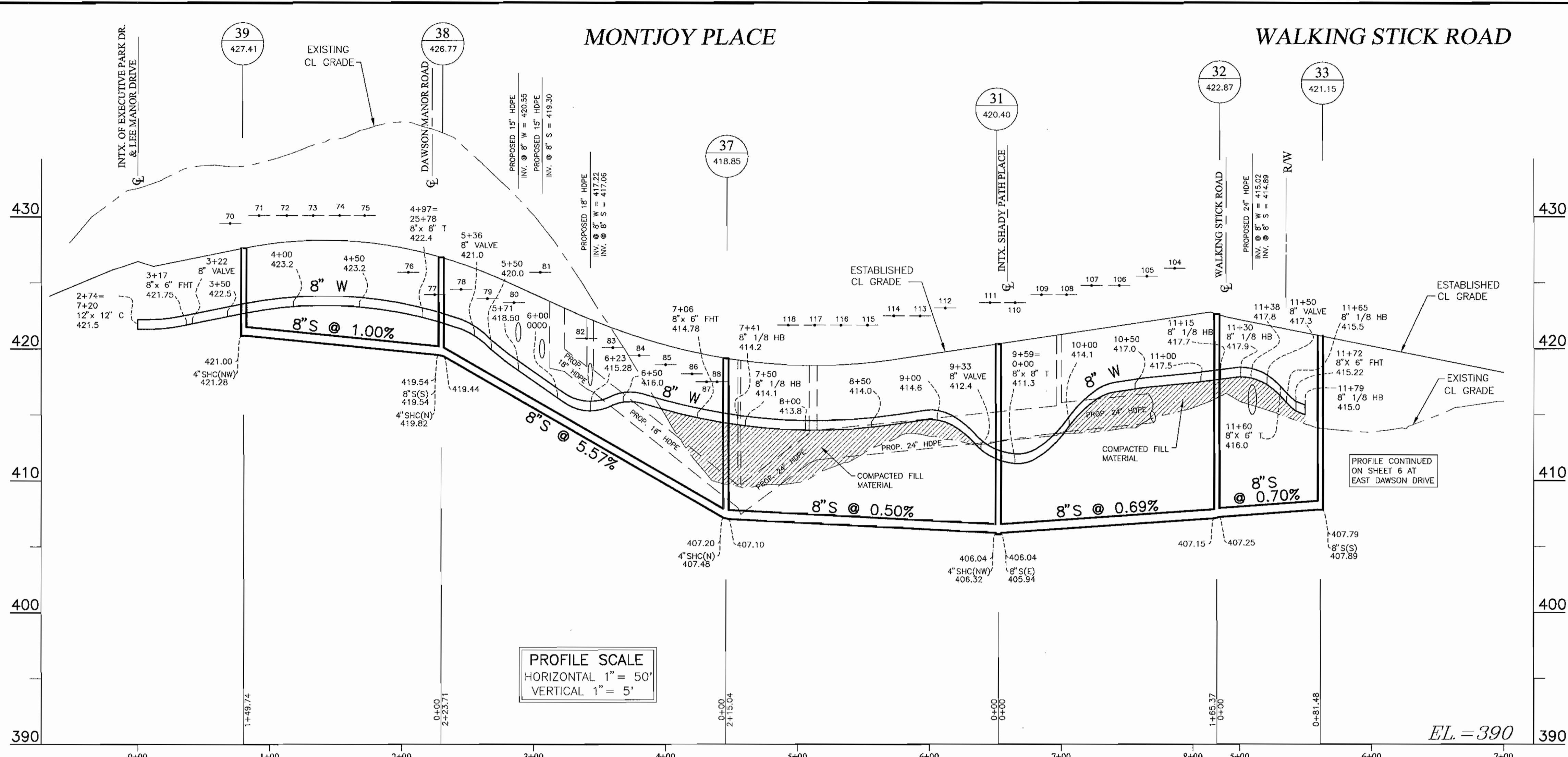


DES:	SWD	10/11/04
DRN:	SWD	4/16/04
CHK:	SWD	9-4-03
DATE:	1/03	5-9-03
BY:	NO.	3-28-03
		2/7/03

REVISIONS	DATE
RED-LINE: REV TO ADD 1" WATER CONNECTION FOR CLUBHOUSE	10/11/04
RED-LINE REVISION: REV. WHC LOCATIONS AND SIZES	4/16/04
REVISE TITLE BLOCK	9-4-03
ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
REVISED W&S CONNECTION LOCATIONS TO EX. HOUSE-LOT 119	2/7/03

MONTJOY - PHASE I, II and III
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"
HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 2 OF 11



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

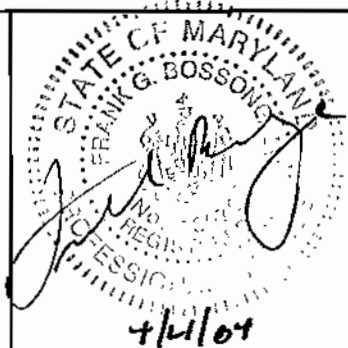
Ruth Berman 4-23-04
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 5/5/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

RODGERS CONSULTING
Enhancing the value of land assets

Rodgers Consulting, Inc.
9260 Galther Road
Gaithersburg, MD 20877
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DES:	SWD	PPB	6	RED-LINE: REV. PROFILE FOR MANOR CLUBHOUSE CONN.	10/11/04
DRN:	SWD	YSL	4	RED-LINE REVISION: REV. WHC LOCATIONS AND SIZES	4/16/04
CHK:		PPB	4	REVISE TITLE BLOCK	9-4-03
		SWD	3	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
		SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
DATE:	1/03	BY:	NO.	REVISIONS	DATE

WATER & SEWER EXTENSION PROFILES

600 SCALE MAP NO. 30

MONTJOY - PHASE I, II and III
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"
HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN

SHEET 7 OF 11

THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

WATER MAIN STAKEOUT DATA				
STREET NAME / MAIN LOCATION	WATERLINE STATION	DESCRIPTION	COORDINATE	
			NORTH	EAST
EXECUTIVE PARK DRIVE	0+00	CONN. TO EX. 12" W	571609	1363526
EXECUTIVE PARK DRIVE	0+87	1" IRRIG. CONN.	571690	1363493
EXECUTIVE PARK DRIVE	1+61	12" X 6" FH TEE	571782	1363474
EXECUTIVE PARK DRIVE	1+61 (24.6' L)	FIRE HYDRANT	571757	1363450
EXECUTIVE PARK DRIVE	1+66	12" VALVE	571766	1363473
EXECUTIVE PARK DRIVE	2+42	12" X 12" CROSS	571841	1363463
EXECUTIVE PARK DRIVE	2+47	PT	571846	1363463
EXECUTIVE PARK DRIVE	4+50	12" X 6" FH TEE	572049	1363455
EXECUTIVE PARK DRIVE	4+50 (8.5' L)	FIRE HYDRANT	572049	1363447
EXECUTIVE PARK DRIVE	4+55	12" VALVE	572054	1363455
EXECUTIVE PARK DRIVE	4+56	PC	572055	1363455
EXECUTIVE PARK DRIVE	4+80	12" X 8" TEE	572079	1363454
EXECUTIVE PARK DRIVE	5+13	PT	572112	1363452
EXECUTIVE PARK DRIVE	5+25	12" VALVE	572124	1363451
EXECUTIVE PARK DRIVE	6+90	12" VALVE	572288	1363438
EXECUTIVE PARK DRIVE	7+20	12" X 12" CROSS	572319	1363435
EXECUTIVE PARK DRIVE	7+52	PC	572350	1363433
EXECUTIVE PARK DRIVE	7+63	12" VALVE	572361	1363432
EXECUTIVE PARK DRIVE	8+73	12" CAP & BUTTRESS	572470	1363448
LEE HOLLOW PLACE	0+00	8" CAP & BUTTRESS	572358	1363155
LEE HOLLOW PLACE	1+27	8" 1/8" HB	571623	1363273
LEE HOLLOW PLACE	1+86	8" VALVE	571669	1363309
LEE HOLLOW PLACE	1+96	8" 1/8" HB	571677	1363316
LEE HOLLOW PLACE	1+98	PC	571679	1363316
LEE HOLLOW PLACE	2+82	PRC	571758	1363291
LEE HOLLOW PLACE	3+00	PT	571775	1363283
LEE HOLLOW PLACE	3+08	8" VALVE	571781	1363281
LEE HOLLOW PLACE	3+34	8" X 8" TEE	571806	1363270
LEE HOLLOW PLACE	3+43	PC	571814	1363267
LEE HOLLOW PLACE	3+76	8" VALVE	571846	1363256
LEE HOLLOW PLACE	3+99	PT	571868	1363252
LEE HOLLOW PLACE	4+38	8" X 6" FH TEE	571907	1363245
LEE HOLLOW PLACE	4+38 (14.0' R)	FIRE HYDRANT	571909	1363259
LEE HOLLOW PLACE	4+91	PC	571959	1363237
LEE HOLLOW PLACE	5+47	8" VALVE	572013	1363222
LEE HOLLOW PLACE	5+70	PRC	572034	1363212
LEE HOLLOW PLACE	5+75	8" X 8" TEE	572037	1363210
LEE HOLLOW PLACE	6+23	8" VALVE	572082	1363192
LEE HOLLOW PLACE	6+56	PT	572115	1363185
LEE HOLLOW PLACE	7+92	8" X 6" FHT	572250	1363168
LEE HOLLOW PLACE	7+92 (8.7' R)	FIRE HYDRANT	572251	1363177
LEE HOLLOW PLACE	7+97	8" VALVE	572255	1363168
LEE HOLLOW PLACE	8+22	8" X 8" TEE	572280	1363165
LEE HOLLOW PLACE	8+62	8" VALVE	572319	1363160
LEE HOLLOW PLACE	9+01	8" CAP & BUTTRESS	571608	1363147
SERENITY VIEW DRIVE	0+00	8" X 8" TEE	571806	1363270
SERENITY VIEW DRIVE	0+01	PC	571807	1363271
SERENITY VIEW DRIVE	0+25	8" VALVE	571815	1363294
SERENITY VIEW DRIVE	0+58	PT	571823	1363326
SERENITY VIEW DRIVE	1+65	PC	571839	1363431
SERENITY VIEW DRIVE	1+82	8" VALVE	571841	1363448
SERENITY VIEW DRIVE	1+90	PT	571841	1363457
SERENITY VIEW DRIVE	1+97	12" X 12" CROSS	571841	1363464
SERENITY VIEW DRIVE	2+12	8" VALVE	571842	1363478
SERENITY VIEW DRIVE	3+08	8" X 8" TEE	571846	1363574
LEE MANOR DRIVE	0+00	8" X 8" TEE	572280	1363165
LEE MANOR DRIVE	0+25	8" VALVE	572283	1363190
LEE MANOR DRIVE	0+27	PC	572283	1363191
LEE MANOR DRIVE	0+30	PT	572283	1363195
LEE MANOR DRIVE	2+43	8" VALVE	572316	1363405
LEE MANOR DRIVE	2+47	PC	572316	1363409
LEE MANOR DRIVE	2+57	PT	572317	1363419
LEE MANOR DRIVE	2+74	12" X 12" CROSS	572319	1363435
SAMUEL JOY WAY	0+00	8" X 8" TEE	572037	1363210
SAMUEL JOY WAY	0+24	8" VALVE	572049	1363230
SAMUEL JOY WAY	0+30	8" 1/8" HB	572052	1363236
SAMUEL JOY WAY	0+74	PC	572057	1363280
SAMUEL JOY WAY	0+84	PT	572058	1363289
SAMUEL JOY WAY	1+89	PC	572074	1363393
SAMUEL JOY WAY	2+17	PT	572077	1363421
SAMUEL JOY WAY	2+19	8" VALVE	572077	1363423
SAMUEL JOY WAY	2+50	12" X 8" TEE	572079	1363484
SHADY PATH PLACE	0+00	8" X 8" TEE	572181	1363938
SHADY PATH PLACE	0+05	8" VALVE	572182	1363943
SHADY PATH PLACE	0+35	8" X 6" TEE	572187	1363973
SHADY PATH PLACE	1+30	8" X 6" FH TEE	572203	1364066
SHADY PATH PLACE	1+30 (24.0' L)	FIRE HYDRANT	572227	1364062
SHADY PATH PLACE	2+79	PC	572228	1364213
SHADY PATH PLACE	2+90	8" X 6" FH TEE	572230	1364224
SHADY PATH PLACE	2+90 (12.6' R)	FIRE HYDRANT	572227	1364062
SHADY PATH PLACE	2+93	PT	572231	1364227
SHADY PATH PLACE	3+26	8" 1/8" HB	572238	1364259

WATER MAIN STAKEOUT DATA				
STREET NAME / MAIN LOCATION	WATERLINE STATION	DESCRIPTION	COORDINATE	
			NORTH	EAST
JOYFUL WAY	11+79	8" 1/8" HB	572016	1364022
JOYFUL WAY	12+05	8" X 6" TEE	571990	1364027
JOYFUL WAY	12+19	8" X 6" TEE	571977	1364029
JOYFUL WAY	13+75	8" 1/8" HB	571823	1364056
JOYFUL WAY	14+01	8" 1/8" HB	571802	1364041
JOYFUL WAY	14+06	PC	571802	1364036
JOYFUL WAY	14+28	PT	571798	1364016
JOYFUL WAY	14+83	8" X 6" FH TEE	571783	1363961
JOYFUL WAY	14+83 (15.9' R)	FIRE HYDRANT	571798	1363957
JOYFUL WAY	14+88	PC	571781	1363956
JOYFUL WAY	15+08	PT	571777	1363937
JOYFUL WAY	15+28	8" X 6" TEE	571774	1363917
JOYFUL WAY	18+42	8" 1/8" HB	571720	1363607
JOYFUL WAY	18+48	8" X 6" FH TEE	571723	1363603
JOYFUL WAY	18+48 (9.1' R)	FIRE HYDRANT	571731	1363608
JOYFUL WAY	18+67	8" 1/8" HB	571734	1363588
JOYFUL WAY	19+20	PC	571787	1363579
JOYFUL WAY	19+41	8" X 6" TEE	571809	1363576
JOYFUL WAY	19+51	8" VALVE	571817	1363575
JOYFUL WAY	19+52	PT	571818	1363575
JOYFUL WAY	19+79	8" X 8" TEE	571846	1363574
WALKING STICK ROAD	20+27	8" VALVE	571894	1363572
WALKING STICK ROAD	20+56	8" 1/8" HB	571822	1363571
WALKING STICK ROAD	21+07	8" 1/16" HB	571960	1363606
MONTJOY PLACE	3+13	PC	572322	1363475
MONTJOY PLACE	3+17	8" X 6" FH TEE	572322	1363479
MONTJOY PLACE	3+17 (14.5' L)	FIRE HYDRANT	572308	1363480
MONTJOY PLACE	3+22	8" VALVE	572323	1363544
MONTJOY PLACE	3+89	PT	572333	1363550
MONTJOY PLACE	4+43	PC	572345	1363602
MONTJOY PLACE	4+80	PT	572352	1363639
MONTJOY PLACE	4+87	8" X 8" TEE	572365	1363656
MONTJOY PLACE	5+36	8" VALVE	572361	1363694
MONTJOY PLACE	7+06	8" X 6" FH TEE	572387	1363861
MONTJOY PLACE	7+06 (14.0' R)	FIRE HYDRANT	572373	1363864
MONTJOY PLACE	7+12	PC	572388	1363868
MONTJOY PLACE	7+15	PT	572388	1363871
MONTJOY PLACE	7+41	8" 1/8" HB	572392	1363897
MONTJOY PLACE	7+50	8" 1/8" HB	572388	1363904
MONTJOY PLACE	9+33	8" VALVE	572206	1363934
MONTJOY PLACE	9+59	8" X 8" TEE	572181	1363938
MONTJOY PLACE	11+15	8" 1/8" HB	572027	1363864
WALKING STICK ROAD	11+30	8" 1/8" HB	572018	1363978
WALKING STICK ROAD	11+50	8" VALVE	572022	1363996
WALKING STICK ROAD	11+65	8" 1/8" HB	572024	1364011
WALKING STICK ROAD	11+72	8" X 6" FH TEE	572020	1364017
WALKING STICK ROAD	11+72 (12.0' R)	FIRE HYDRANT	572010	1364010
WALKING STICK ROAD	11+60	8" X 6" TEE	572024	1364006
WALKING STICK ROAD	21+28	PC	571969	1363625
WALKING STICK ROAD	22+08	8" X 4" TEE	571994	1363700
WALKING STICK ROAD	22+03	8" 1/8" HB	571989	1363697
WALKING STICK ROAD	22+14	8" X 6" FH TEE	571988	1363703
WALKING STICK ROAD	22+14 (8.6' L)	FIRE HYDRANT	572003	1363696
DAWSON MANOR DRIVE	22+19	8" VALVE	572002	1363706
DAWSON MANOR DRIVE	22+24	8" 1/8" HB	572006	1363709
DAWSON MANOR DRIVE	25+52	8" VALVE	572330	1363659
WALKING STICK ROAD	3+41	8" 1/8" HB	572251	1364267
WALKING STICK ROAD	4+81	8" X 6" TEE	572388	1364235
WALKING STICK ROAD	4+77	8" X 6" FH TEE	572383	1364236
WALKING STICK ROAD	4+77 (7.6' L)	FIRE HYDRANT	572382	1364229
WALKING STICK ROAD	6+37	8" X 6" TEE	572540	1364200
WALKING STICK ROAD	6+69	8" X 6" TEE	572570	1364193
WALKING STICK ROAD	6+84	8" X 6" TEE	572582	1364190
WALKING STICK ROAD	7+17	8" X 6" FH TEE	572617	1364182
WALKING STICK ROAD	7+17 (7.6' L)	FIRE HYDRANT	572615	1364174
WALKING STICK ROAD	8+03	PC	572701	1364162
WALKING STICK ROAD	8+32	PT	572729	1364154
WALKING STICK ROAD	9+45 = 0+47	6" X 6" TEE	572835	1364114
WALKING STICK ROAD	0+00	6" VALVE	572857	1364150
WALKING STICK ROAD	0+04	6" 1/8" HB	572854	1364151
WALKING STICK ROAD	0+47	6" X 6" TEE	572835	1364114
WALKING STICK ROAD	0+54	6" X 6" FH TEE	572832	1364107
WALKING STICK ROAD	0+54 (22.7' R)	FIRE HYDRANT	572853	1364099
WALKING STICK ROAD	0+11	6" 1/8" HB	572848	1364148
WALKING STICK ROAD	0+18	8" X 6" TEE	572845	1364141
WALKING STICK ROAD	0+64	6" CAP W/BUTTRESS	572829	1364098

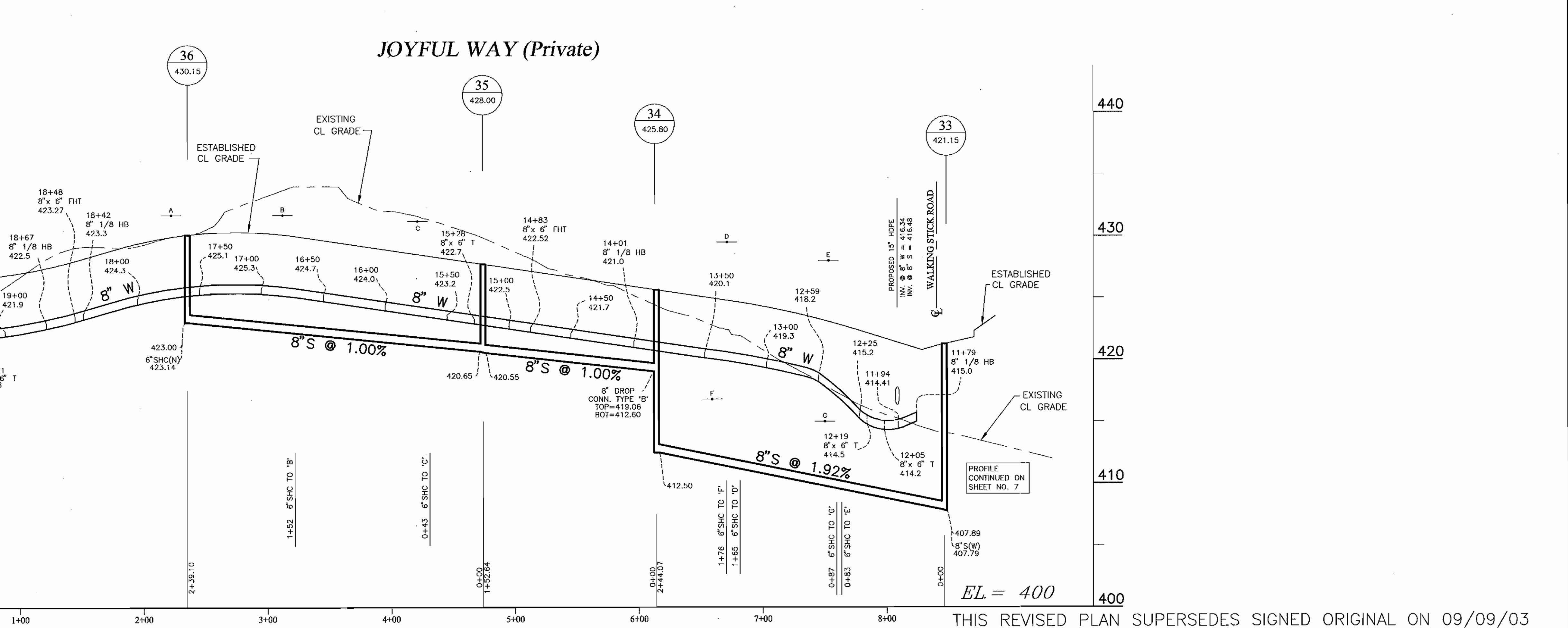
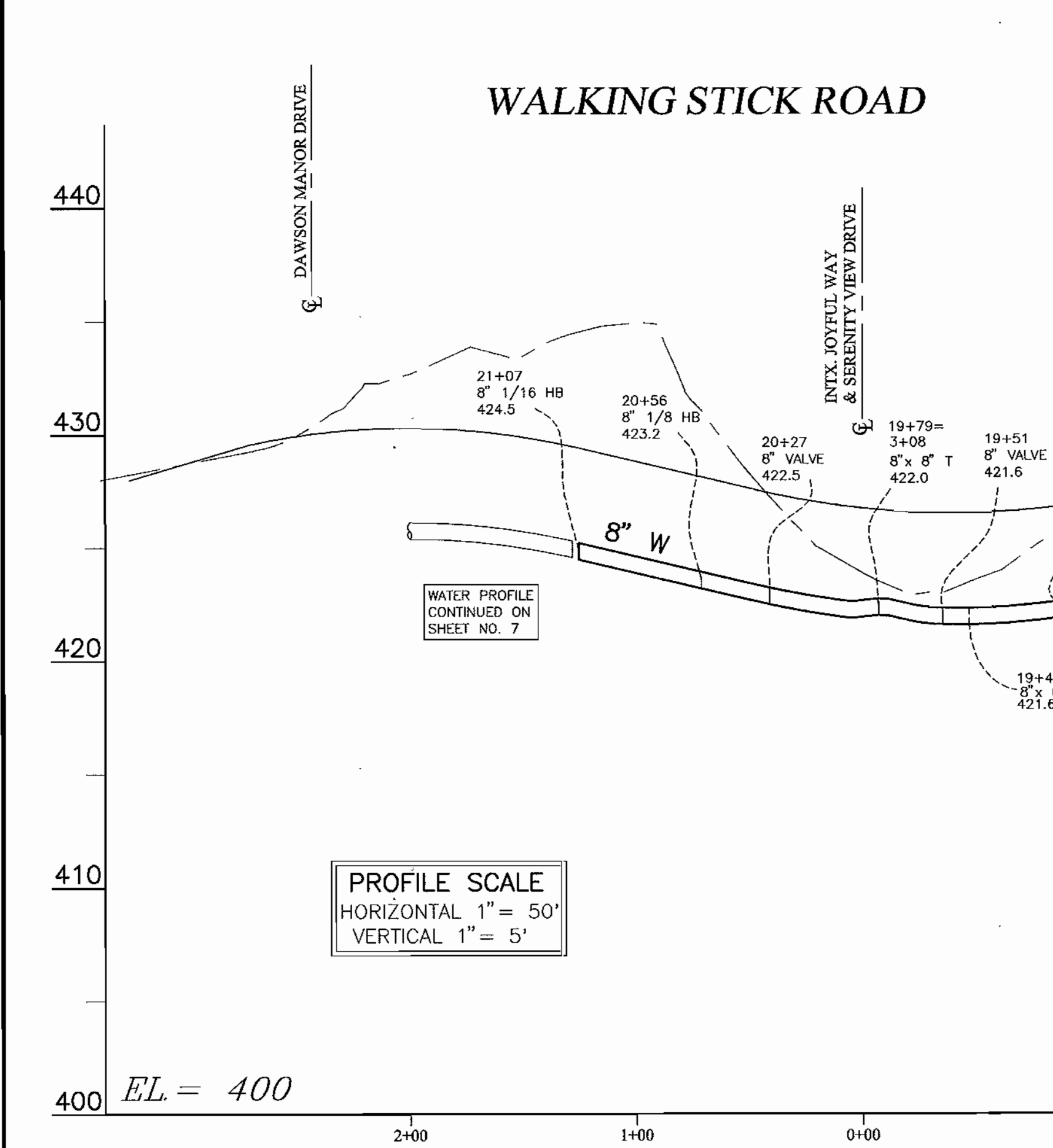
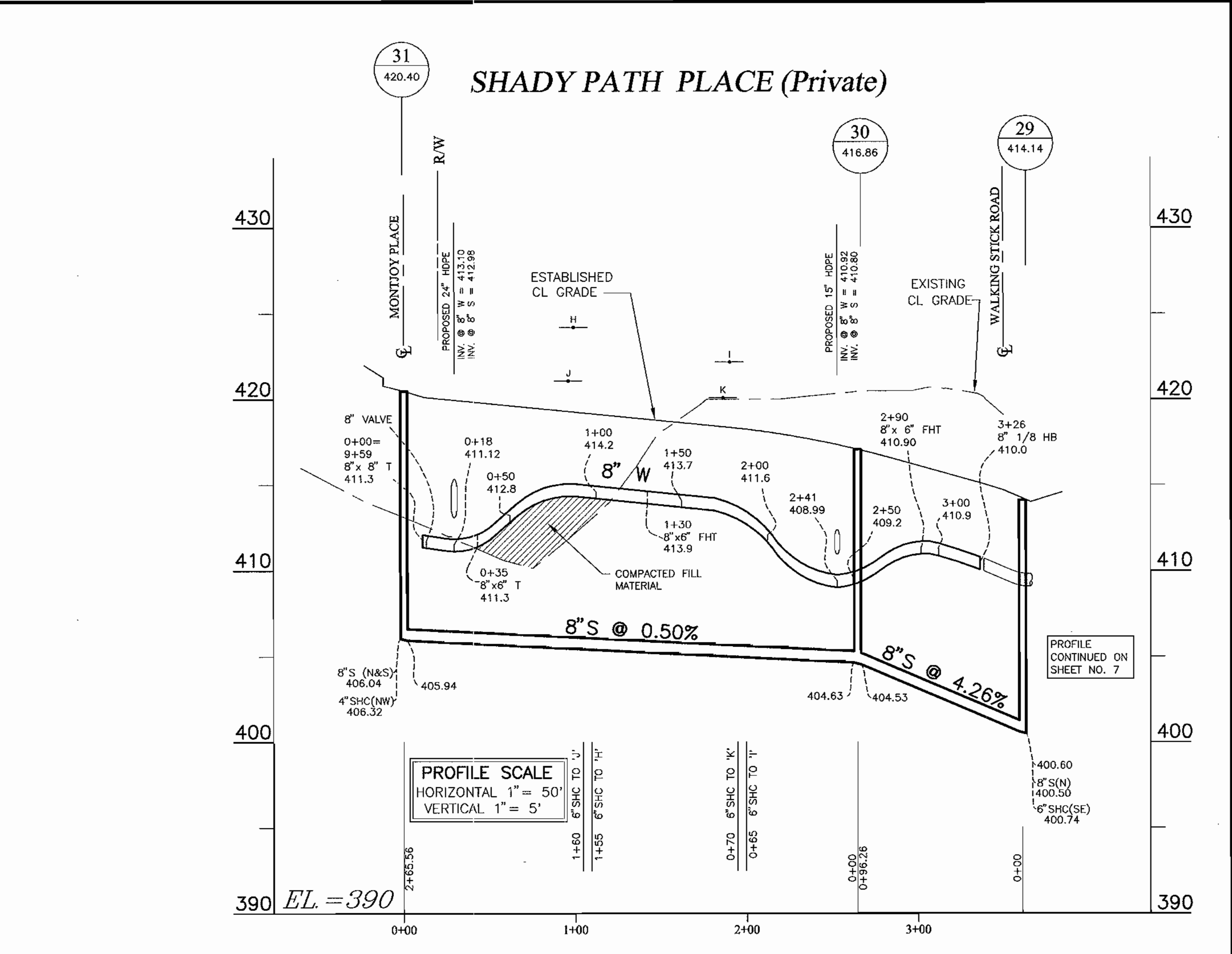
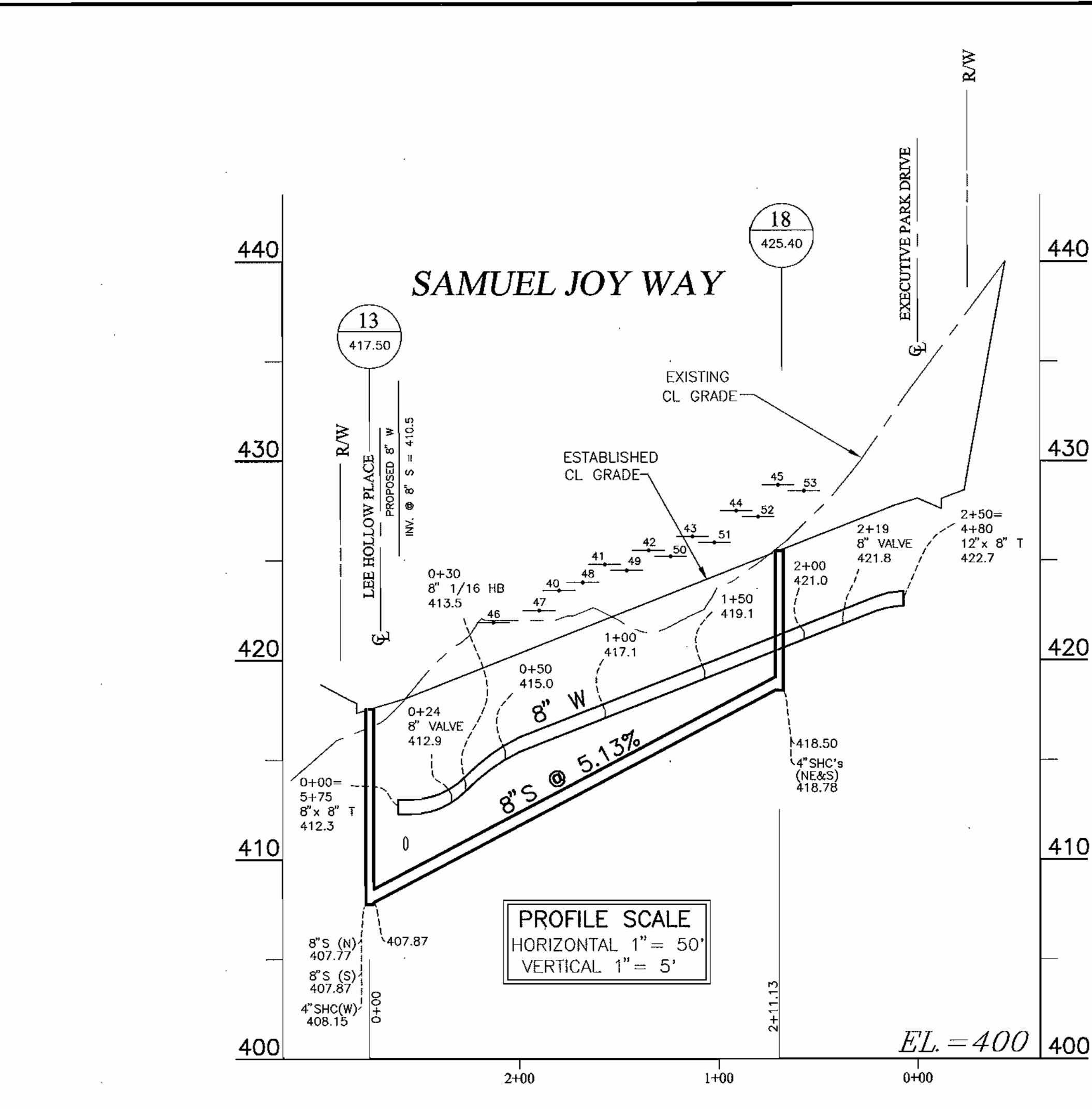
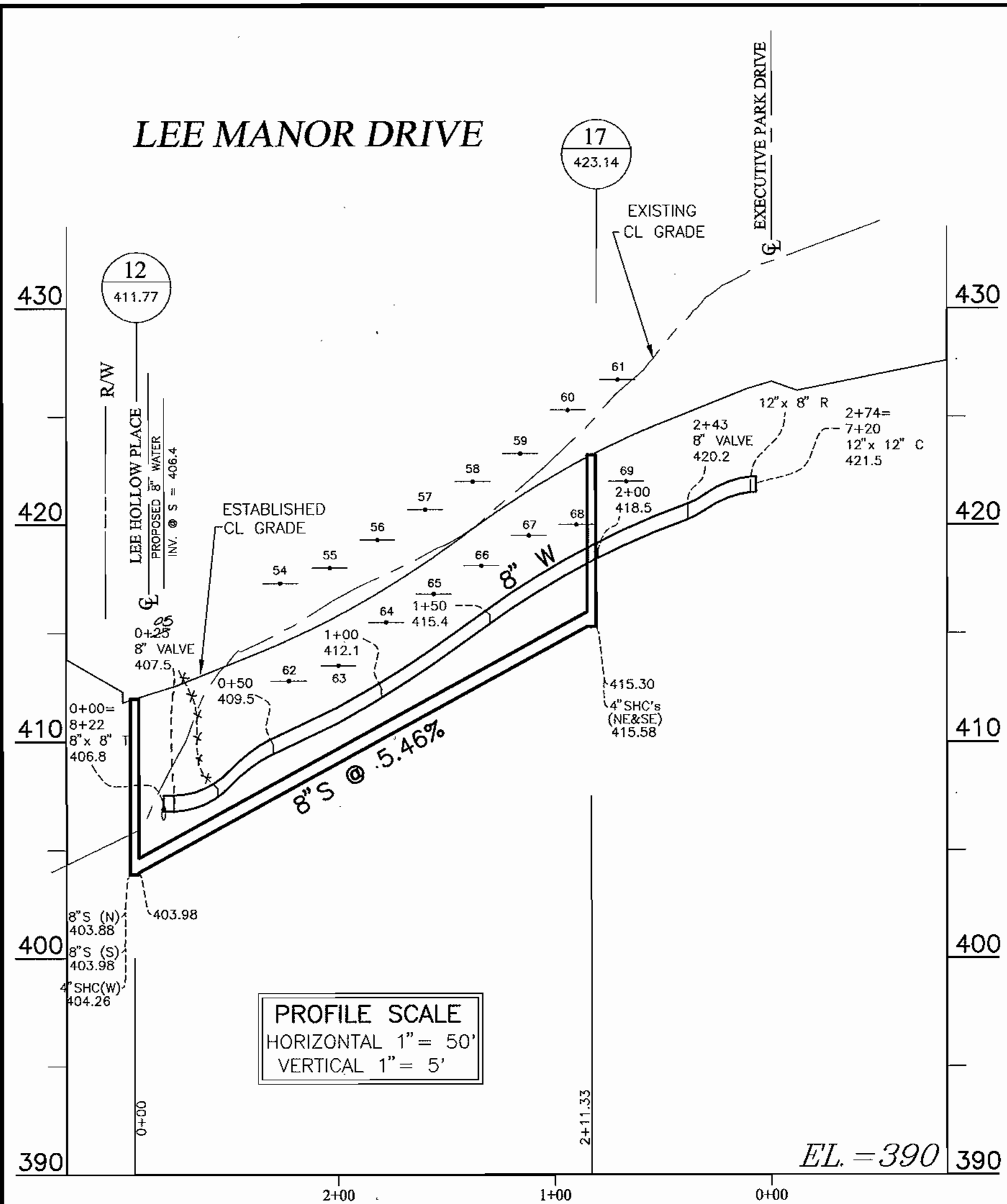
WATER LINE CURVE TABLE, PHASE 1						
CURVE	RADIUS	LENGTH	TANGENT	CHORD, B&D	DELTA	
1	619.00	246.77	125.04	S14°56'48"E 245.14	22°49'45"	
2	1493.00	57.73	28.87	N03°21'56"W 57.73	2°12'56"	
3	302.00	121.23	61.44	S07°01'34"W 120.41	22°59'56"	
4	230.00	83.32	42.12	N17°13'16"W 82.87	20°45'23"	
5	230.00	18.56	9.29	S25°17'15"E 18.56	4°37'26"	
6	230.00	55.95	28.12	S16°00'22"E 55.82	13°56'20"	
7	230.00	78.71	39.74	N18°50'26"W 78.33	19°36'28"	
8	230.00	86.39	43.71	S17°53'05"E 85.88	21°31'11"	
9	230.00	4.37	2.18	N82°04'41"E 4.37	1°35'38"	
10	230.00	10.60	5.30	S83°24'14"W 10.59	4°14'44"	
11	230.00	9.61	4.81	N82°28'41"E 9.61	2°23'38"	
12	300.00	28.96	14.49	S84°02'46"W 28.94	5°31'48"	
13	230.00	57.23	28.76	S74°09'10"W 57.08	14°15'24"	
14	230.00	25.94	12.98	S84°30'42"W 25.92	6°27'40"	
15	507.00	75.87	38.00	N81°14'24"E 75.80	8°34'25"	
16	493.00	37.24	18.63	S79°07'02"W 37.23	4°19'41"	
17	230.00	3.36	1.68	N80°51'44"E 3.36	0°50'16"	
18	230.00	19.74	9.87	S77°41'40"W 19.73	4°54'59"	
19	230.00	19.74	9.87	N77°41'40"E 19.73	4°54'59"	
20	230.00	30.47	15.26	S06°03'09"E 30.44	7°35'22"	
21	230.00	64.38	32.40	S73°15'42"W 64.17	16°02'20"	
22	230.00	14.39	7.20	N78°39'02"E 14.39	3°35'07"	
23	230.00	29.47	14.76	N16°48'46"W 29.45	7°20'29"	

SEWER MANHOLE STAKEOUT DATA			
MH No.	STREET NAME / LOCATION	COORDINATE	
		NORTH	EAST
1	OFFSITE PARCEL A	573599	1363183
2	OS LOT 191	573443	1363181
3	WETHERED DRIVE	573272	1363119
4	WETHERED DRIVE	573192	1363244
5	CARSON COURT	573019	1363164
6	CARSON COURT	572927	1363138
7	CARSON COURT	572789	1363138
8	FUTURE LOT 138	572723	1363185
9	FUTURE LOT 140	572504	1363157
10	FUTURE LOT 140	572448	1363165
11	LEE HOLLOW PLACE	572361	1363140
12	LEE HOLLOW PLACE	572291	1363150
13	LEE HOLLOW PLACE	572055	1363182
14	LEE HOLLOW PLACE	571999	1363216
15	LEE HOLLOW PLACE	571825	1363247
16	LEE HOLLOW PLACE	571691	1363304
17	LEE HOLLOW PLACE	572319	1363359
18	SAMUEL JOY WAY	572084	1363391
19	SERENITY VIEW DR	571845	1363380
20	@ EX. 1		

LOT/BLDG.	STREET NAME	SINGLE/DOUBLE	WHC SIZE	W. STATION @ SERVICE CONN. LOCATION	REMARKS
1	LEE HOLLOW PLACE	SINGLE	1"	1+91	
2	LEE HOLLOW PLACE	SINGLE	1"	2+25	
4	LEE HOLLOW PLACE	SINGLE	1"	2+65	
6	LEE HOLLOW PLACE	SINGLE	1"	2+22	
7	LEE HOLLOW PLACE	SINGLE	1"	2+68	
9	LEE HOLLOW PLACE	SINGLE	1"	3+00	
11	LEE HOLLOW PLACE	SINGLE	1"	3+47	
13	LEE HOLLOW PLACE	SINGLE	1"	3+81	
14	LEE HOLLOW PLACE	SINGLE	1"	4+19	
16	LEE HOLLOW PLACE	SINGLE	1"	4+63	
18	LEE HOLLOW PLACE	SINGLE	1"	5+09	
20	LEE HOLLOW PLACE	SINGLE	1"	5+68	
21	LEE HOLLOW PLACE	SINGLE	1"	5+88	
22	LEE HOLLOW PLACE	SINGLE	1"	6+28	
23	LEE HOLLOW PLACE	SINGLE	1"	6+48	
25	LEE HOLLOW PLACE	SINGLE	1"	6+90	
27	LEE HOLLOW PLACE	SINGLE	1"	7+37	
28	LEE HOLLOW PLACE	SINGLE	1"	7+77	
30	LEE HOLLOW PLACE	SINGLE	1"	8+19	
32	LEE HOLLOW PLACE	SINGLE	1"	8+65	
34	LEE HOLLOW PLACE	SINGLE	1"	8+96	
35	SERENITY VIEW DRIVE	SINGLE	1"	0+48	
37	SERENITY VIEW DRIVE	SINGLE	1"	0+91	
39	SERENITY VIEW DRIVE	SINGLE	1"	1+32	
40	SAMUEL JOY WAY	SINGLE	1"	0+87	
42	SAMUEL JOY WAY	SINGLE	1"	1+31	
44	SAMUEL JOY WAY	SINGLE	1"	1+75	
46	SAMUEL JOY WAY	SINGLE	1"	0+53	
48	SAMUEL JOY WAY	SINGLE	1"	0+97	
50	SAMUEL JOY WAY	SINGLE	1"	1+42	
52	SAMUEL JOY WAY	SINGLE	1"	1+81	
54	LEE MANOR DRIVE	SINGLE	1"	0+63	
56	LEE MANOR DRIVE	SINGLE	1"	1+08	
58	LEE MANOR DRIVE	SINGLE	1"	1+52	
60	LEE MANOR DRIVE	SINGLE	1"	1+96	
62	LEE MANOR DRIVE	SINGLE	1"	0+70	
64	LEE MANOR DRIVE	SINGLE	1"	1+13	
66	LEE MANOR DRIVE	SINGLE	1"	1+54	
67	LEE MANOR DRIVE	SINGLE	1"	1+78	
69	LEE MANOR DRIVE	SINGLE	1"	2+25	
70	MONTJOY PLACE	SINGLE	1"	3+39	
71	MONTJOY PLACE	SINGLE	1"	3+74	
72	MONTJOY PLACE	SINGLE	1"	4+00	
74	MONTJOY PLACE	SINGLE	1"	4+41	
76	MONTJOY PLACE	SINGLE	1"	4+92	
78	MONTJOY PLACE	SINGLE	1"	5+31	
80	MONTJOY PLACE	SINGLE	1"	5+74	
82	MONTJOY PLACE	SINGLE	1"	6+29	
84	MONTJOY PLACE	SINGLE	1"	6+69	
86	MONTJOY PLACE	SINGLE	1"	7+09	
88	MONTJOY PLACE	SINGLE	1"	7+44	
89	DAWSON MANOR DRIVE	SINGLE	1"	25+26	
90	DAWSON MANOR DRIVE	SINGLE	1"	25+07	
92	DAWSON MANOR DRIVE	SINGLE	1"	24+87	
94	DAWSON MANOR DRIVE	SINGLE	1"	24+27	
96	DAWSON MANOR DRIVE	SINGLE	1"	23+72	
98	DAWSON MANOR DRIVE	SINGLE	1"	23+32	
100	DAWSON MANOR DRIVE	SINGLE	1"	22+92	
102	DAWSON MANOR DRIVE	SINGLE	1"	22+52	
104	MONTJOY PLACE	SINGLE	1"	10+92	
105	MONTJOY PLACE	SINGLE	1"	10+54	
107	MONTJOY PLACE	SINGLE	1"	10+14	
109	MONTJOY PLACE	SINGLE	1"	9+74	
110	MONTJOY PLACE	SINGLE	1"	8+99	
114	MONTJOY PLACE	SINGLE	1"	8+59	
116	MONTJOY PLACE	SINGLE	1"	8+19	
118	MONTJOY PLACE	SINGLE	1"	7+75	
119	DAWSON MANOR DRIVE	SINGLE	1"	23+98	
IRRIGATION	EXECUTIVE PARK DRIVE	SINGLE	1"	0+88	MUST INSTALL BACK FLOW PREVENTER
BLDG "A"	JOYFUL WAY	SINGLE	6"	19+41	WITH 8"x6" TEE & 6" VALVE
BLDG "B"	JOYFUL WAY	SINGLE	6"	15+28	WITH 8"x6" TEE & 6" VALVE
BLDG "C"	JOYFUL WAY	SINGLE	6"	12+05	WITH 8"x6" TEE & 6" VALVE
BLDG "D"	WALKING STICK ROAD	SINGLE	6"	11+80	WITH 8"x6" TEE & 6" VALVE
BLDG "E"	SHADY PATH PLACE	SINGLE	6"	0+35	WITH 8"x6" TEE & 6" VALVE
BLDG "F"	WALKING STICK ROAD	SINGLE	6"	6+37	WITH 8"x6" TEE & 6" VALVE
BLDG "G"	WALKING STICK ROAD	SINGLE	6"	0+18	WITH 8"x6" TEE & 6" VALVE
BLDG "H"	WALKING STICK ROAD	SINGLE	6"	0+00	WITH 6" VALVE
BLDG "I"	WALKING STICK ROAD	SINGLE	6"	6+84	WITH 8"x6" TEE & 6" VALVE
BLDG "J"	WALKING STICK ROAD	SINGLE	6"	6+69	WITH 8"x6" TEE & 6" VALVE
BLDG "K"	WALKING STICK ROAD	SINGLE	6"	4+81	WITH 8"x6" TEE & 6" VALVE
MAINT. SHED	JOYFUL WAY	SINGLE	1"	18+53	
CLUBHOUSE	WALKING STICK ROAD	SINGLE	4"	22+08	WITH 8"x4" TEE & 4" VALVE
3	LEE HOLLOW PLACE	SINGLE	1"	2+28	
5	LEE HOLLOW PLACE	SINGLE	1"	2+70	
8	LEE HOLLOW PLACE	SINGLE	1"	2+67	
10	LEE HOLLOW PLACE	SINGLE	1"	3+12	
12	LEE HOLLOW PLACE	SINGLE	1"	3+51	
15	LEE HOLLOW PLACE	SINGLE	1"	4+24	
17	LEE HOLLOW PLACE	SINGLE	1"	4+68	
19	LEE HOLLOW PLACE	SINGLE	1"	5+14	
24	LEE HOLLOW PLACE	SINGLE	1"	6+51	
26	LEE HOLLOW PLACE	SINGLE	1"	6+95	
29	LEE HOLLOW PLACE	SINGLE	1"	7+82	
31	LEE HOLLOW PLACE	SINGLE	1"	8+26	
33	LEE HOLLOW PLACE	SINGLE	1"	8+70	
36	SERENITY VIEW DRIVE	SINGLE	1"	0+52	
38	SERENITY VIEW DRIVE	SINGLE	1"	0+95	
41	SAMUEL JOY WAY	SINGLE	1"	0+92	
43	SAMUEL JOY WAY	SINGLE	1"	1+36	
45	SAMUEL JOY WAY	SINGLE	1"	1+79	
47	SAMUEL JOY WAY	SINGLE	1"	0+57	
49	SAMUEL JOY WAY	SINGLE	1"	1+08	
51	SAMUEL JOY WAY	SINGLE	1"	1+50	
53	SAMUEL JOY WAY	SINGLE	1"	1+83	
55	LEE MANOR DRIVE	SINGLE	1"	0+68	
57	LEE MANOR DRIVE	SINGLE	1"	1+11	
59	LEE MANOR DRIVE	SINGLE	1"	1+56	
61	LEE MANOR DRIVE	SINGLE	1"	2+00	
63	LEE MANOR DRIVE	SINGLE	1"	0+74	
65	LEE MANOR DRIVE	SINGLE	1"	1+17	
68	LEE MANOR DRIVE	SINGLE	1"	1+63	
73	MONTJOY PLACE	SINGLE	1"	4+05	
75	MONTJOY PLACE	SINGLE	1"	4+45	
77	MONTJOY PLACE	SINGLE	1"	5+02	
79	MONTJOY PLACE	SINGLE	1"	5+41	
81	MONTJOY PLACE	SINGLE	1"	5+78	
83	MONTJOY PLACE	SINGLE	1"	6+33	
85	MONTJOY PLACE	SINGLE	1"	6+73	

LOT/BLDG.	STREET NAME	SINGLE/DOUBLE	WHC SIZE	W. STATION @ SERVICE CONN. LOCATION	REMARKS
87	MONTJOY PLACE	SINGLE	1"	7+13	
91	DAWSON MANOR DRIVE	SINGLE	1"	25+02	
93	DAWSON MANOR DRIVE	SINGLE	1"	24+62	
95	DAWSON MANOR DRIVE	SINGLE	1"	24+22	
97	DAWSON MANOR DRIVE	SINGLE	1"	23+67	
99	DAWSON MANOR DRIVE	SINGLE	1"	23+27	
101	DAWSON MANOR DRIVE	SINGLE	1"	22+87	
103	DAWSON MANOR DRIVE	SINGLE	1"	22+47	
106	MONTJOY PLACE	SINGLE	1"	10+50	
108	MONTJOY PLACE	SINGLE	1"	10+10	
110	MONTJOY PLACE	SINGLE	1"	9+70	
111	MONTJOY PLACE	SINGLE	1"	9+27	
113	MONTJOY PLACE	SINGLE	1"	8+85	
115	MONTJOY PLACE	SINGLE	1"	8+55	
117	MONTJOY PLACE	SINGLE	1"	8+15	
IRRIGATION	EXECUTIVE PARK DRIVE	SINGLE	1"	0+74	MUST INSTALL BACK FLOW PREVENTER
IRRIGATION	EXECUTIVE PARK DRIVE	SINGLE	1"	2+89	MUST INSTALL BACK FLOW PREVENTER
IRRIGATION	EXECUTIVE PARK DRIVE	SINGLE	1"	3+15	MUST INSTALL BACK FLOW PREVENTER

LOT/BLDG.	STREET NAME	LOCATION	SHC INVERT @ MAIN	SHC INVERT @ R/CO.	DHC INVERT @ R/CO.	MINIMUM CELLAR ELEVATION	REMARKS
1	LEE HOLLOW PLACE	MH TO MH SEWER STA. #16 TO #15 @ MH #16	415.10	415.70		419.74	
2	LEE HOLLOW PLACE	#16 TO #15 @ MH #16	415.10	415.74		419.58	
3	LEE HOLLOW PLACE	#16 TO #15 1+23	414.27	414.89		418.73	
4	LEE HOLLOW PLACE	#16 TO #15 1+01	413.41	414.01		417.99	
5	LEE HOLLOW PLACE	#16 TO #15 0+79	412.54	413.12		417.16	
6	LEE HOLLOW PLACE	#16 TO #15 1+32	414.63	414.89		418.85	
7	LEE HOLLOW PLACE	#16 TO #15 1+08	413.68	413.96		417.80	
8	LEE HOLLOW PLACE	#16 TO #15 0+85	412.78	413.08		416.88	
9	LEE HOLLOW PLACE	#16 TO #15 0+63	411.92	412.24		416.08	
10	LEE HOLLOW PLACE	#16 TO #15 0+41	411.05	411.39		415.27	
11	LEE HOLLOW PLACE	#16 TO #15 0+20	410.23	410.57		414.51	
12	LEE HOLLOW PLACE	#16 TO #15 @ MH #15	409.56	409.88		413.82	
13	LEE HOLLOW PLACE	#15 TO #14 1+46	409.20	409.54		413.34	
14	LEE HOLLOW PLACE	#15 TO #14 1+23	409.09	409.43		413.27	
15	LEE HOLLOW PLACE	#15 TO #14 1+01	408.98	409.32		413.12	
16	LEE HOLLOW PLACE	#15 TO #14 0+78	408.86	409.18		413.08	
17	LEE HOLLOW PLACE	#15 TO #14 0+51	408.72	409.02		412.86	
18	LEE HOLLOW PLACE	#15 TO #14 0+35	408.64	408.94		412.74	
19	LEE HOLLOW PLACE	#15 TO #14 0+13	408.53	408.83		412.67	
20	LEE HOLLOW PLACE	#14 TO #13 0+22	408.15	408.51		412.55	
21	LEE HOLLOW PLACE	#13 TO #12 @ MH #13	408.15	408.47		412.30	
22	LEE HOLLOW PLACE	#13 TO #12 2+18	407.67	408.01		411.85	
23	LEE HOLLOW PLACE	#13 TO #12 1+98	407.35	407.69		411.45	
24	LEE HOLLOW PLACE	#13 TO #12 1+76	406.99	407.33		411.17	
25	LEE HOLLOW PLACE	#13 TO #12 1+54	406.63	406.97		410.87	
26	LEE HOLLOW PLACE	#13 TO #12 1+32	406.28	406.60		410.42	
27	LEE HOLLOW PLACE	#13 TO #12 0+89	405.58	405.90		409.88	
28	LEE HOLLOW PLACE	#13 TO #12 0+65	405.19	405.51		409.35	
29	LEE HOLLOW PLACE	#13 TO #12 0+42	404.82	405.14		408.94	
30	LEE HOLLOW PLACE	#13 TO #12 0+21	404.48	404.80		408.62	
31	LEE HOLLOW PLACE	#13 TO #12 @ MH #12	404.26	404.58		408.38	
32	LEE HOLLOW PLACE	#12 TO #11 0+48	403.47	403.77		407.59	
33	LEE HOLLOW PLACE	#12 TO #11 0+26	402.78	403.08		406.94	
34	LEE HOLLOW PLACE	#12 TO #11 @ MH #11	402.08	402.48		406.42	
35	SERENITY VIEW DRIVE	#19 TO #15 0+56	411.90	412.18		416.18	
36	SERENITY VIEW DRIVE	#19 TO #15 0+79	412.91	413.21		417.05	
37	SERENITY VIEW DRIVE	#19 TO #15 1+00	413.93	414.13		417.95	
38	SERENITY VIEW DRIVE	#19 TO #15 1+21	414.75	415.05		418.89	
39	SERENITY VIEW DRIVE	#19 TO #15 @ MH #19	415.28	415.66		419.50	
40	SAMUEL JOY WAY	#18 TO #13 1+01	413.21	413.77		417.57	
41	SAMUEL JOY WAY	#18 TO #13 1+25	414.44	414.78		418.62	
42	SAMUEL JOY WAY	#18 TO #13 1+46	415.52	415.86		419.66	
43	SAMUEL JOY WAY	#18 TO #13 1+67	416.60	417.12		420.94	
44	SAMUEL JOY WAY	#18 TO #13 1+88	417.67	418.17		421.77	
45	SAMUEL JOY WAY	#18 TO #13 @ MH #18	418.78	419.28		423.22	
46	SAMUEL JOY WAY	#18 TO #13 0+81	411.47	411.97		420.40	
47	SAMUEL JOY WAY	#18 TO #13 0+91	412.70	413.20		421.00	
48	SAMUEL JOY WAY	#18 TO #13 1+12	413.78	414.28		422.40	
49	SAMUEL JOY WAY	#18 TO #13 1+33	414.85	415.35		423.00	
50	SAMUEL JOY WAY	#18 TO #13 1+54	415.93	416.43		423.70	
51	SAMUEL JOY WAY	#18 TO #13 1+75	417.01	417.51		424.40	
52	SAMUEL JOY WAY	#18 TO #13 1+96	418.08	418.58		425.70	
53	SAMUEL JOY WAY	#18 TO #13 @ MH #18	418.78	419.28		426.50	
54	LEE MANOR DRIVE	#17 TO #12 0+67	407.80	408.36		412.22	
55	LEE MANOR DRIVE	#17 TO #12 0+92	409.00	409.70		413.56	
56	LEE MANOR DRIVE	#17 TO #12 1+14	410.20	410.90		414.70	
57	LEE MANOR DRIVE	#17 TO #12 1+36	411.57	412.11		415.93	
58	LEE MANOR DRIVE	#17 TO #12 1+58	412.77	413.29		411.13	
59	LEE MANOR DRIVE	#17 TO #12 1+80	413.97	414.49		418.29	
60	LEE MANOR DRIVE	#17 TO #12 2+02	415.17	415.67		419.51	
61	LEE MANOR DRIVE	#17 TO #12 @ MH #17	415.58	416.16		419.96	
62	LEE MANOR DRIVE	#17 TO #12 0+71	408.02	408.34		412.14	
63	LEE MANOR DRIVE	#17 TO #12 0+96	409.38	409.70		413.50	
64	LEE MANOR DRIVE	#17 TO #12 1+18	410.58	410.92		414.72	
65	LEE MANOR DRIVE	#17 TO #12 1+40	411.78	412.12		415.96	
66	LEE MANOR DRIVE	#17 TO #12 1+62	412.44	412.80		416.80	
67	LEE MANOR DRIVE	#17 TO #12 1+84	414.19	414.55		418.39	
68	LEE MANOR DRIVE	#17 TO #12 2+06	415.39	415.77		419.55	
69	LEE MANOR DRIVE	#17 TO #12 @ MH #17	415.58	416.08</			



THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

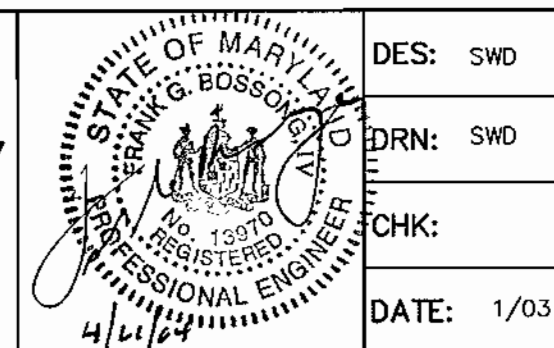
R. J. B...
4-23-04
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

S. J. ...
5/17/04
DATE

RODGERS CONSULTING
Enhancing the value of land assets

Rodgers Consulting, Inc.
9260 Gather Road
Gaithersburg, MD 20877
301.948.4700
301.948.6256 (fax)
301.283.6609
www.rodgers.com



DES:	SWD				
DRN:	SWD	YSL	RED-LINE REVISION: REV. WHC LOCATIONS AND SIZES	4/16/04	
CHK:		PFB	REVISE TITLE BLOCK	9-4-03	
		SWD	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03	
		SWD	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03	
DATE:	1/03	BY	NO.	REVISIONS	DATE

WATER & SEWER EXTENSION PROFILES

600 SCALE MAP NO. 30

MONTJOY - PHASE I, II and III

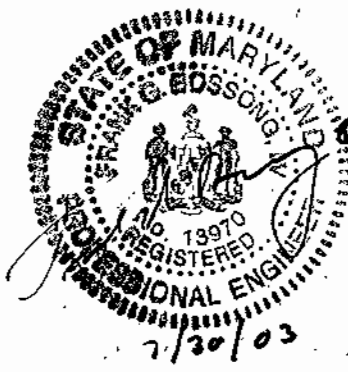
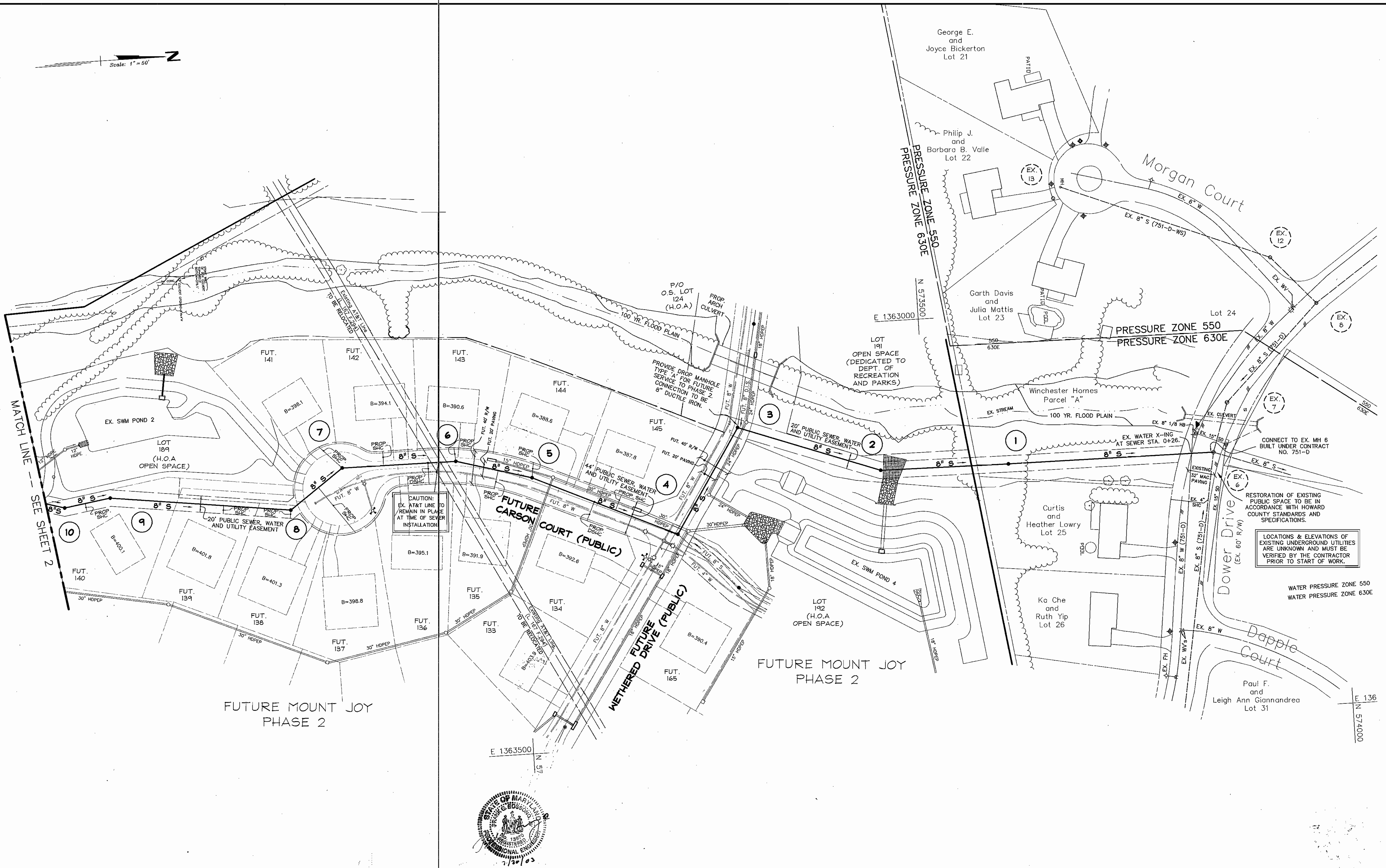
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"

HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN

SHEET 6 OF 11

Scale: 1"=60'



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DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND



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9260 Gallier Road
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301.948.4255 (fax)
301.253.4600
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DES:	SWD			
DRN:	SWD	PFB 4	REVISE TITLE BLOCK	7-4-03
CHK:	SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
	SWD	2	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
DATE:	1/03	BY	NO.	
				REVISIONS
				DATE

WATER & SEWER EXTENSION PLAN

MONTJOY - PHASE I II and III
 BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
 OPEN SPACE LOTS 120 - 126, 194 AND
 NON-BUILDABLE BULK PARCELS "B" AND "C"
 HOWARD COUNTY ELECTION DISTRICT NO. 2
 CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 4 OF 11

Robert Berman 8-11-03
CHIEF, BUREAU OF UTILITIES

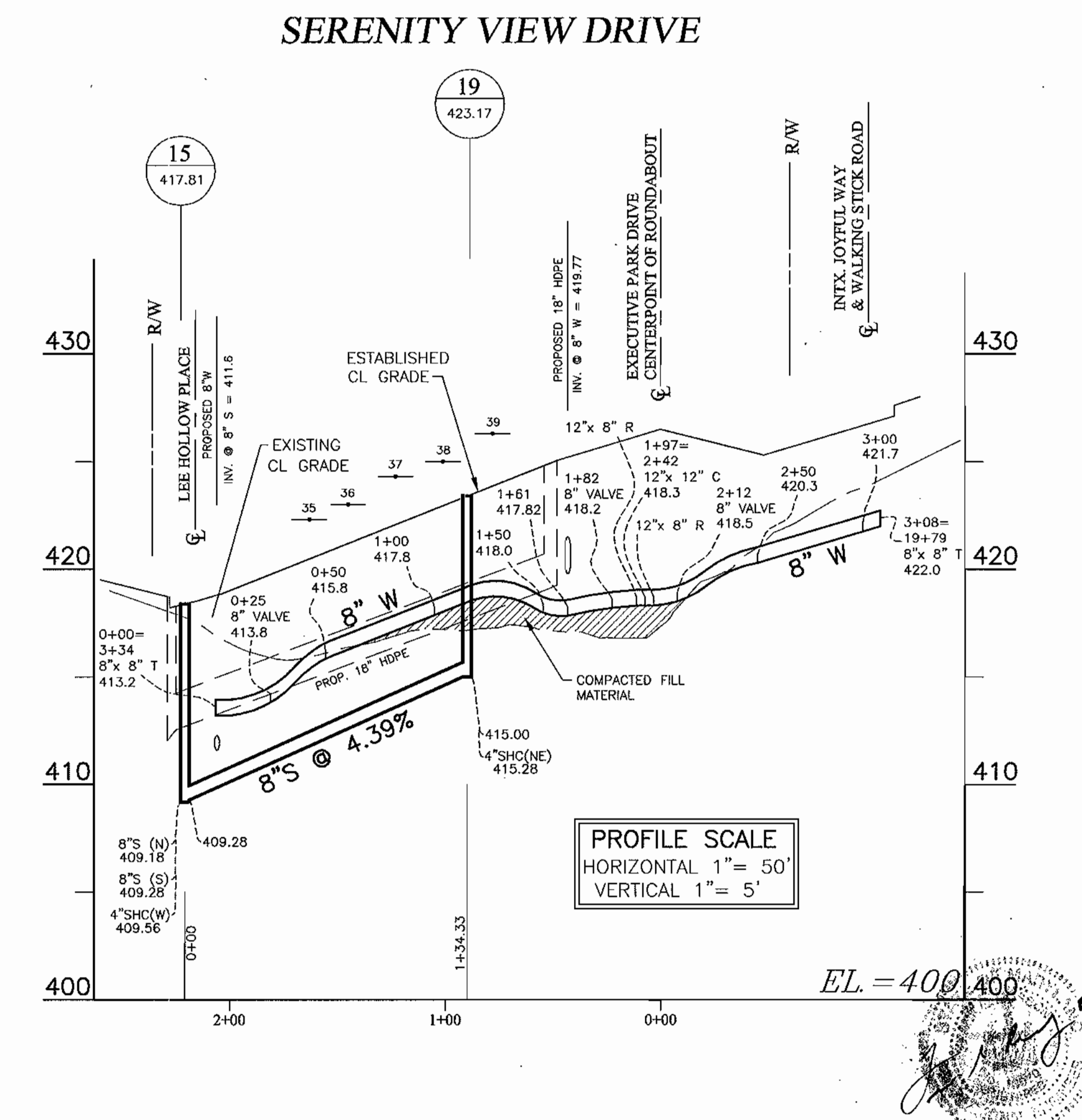
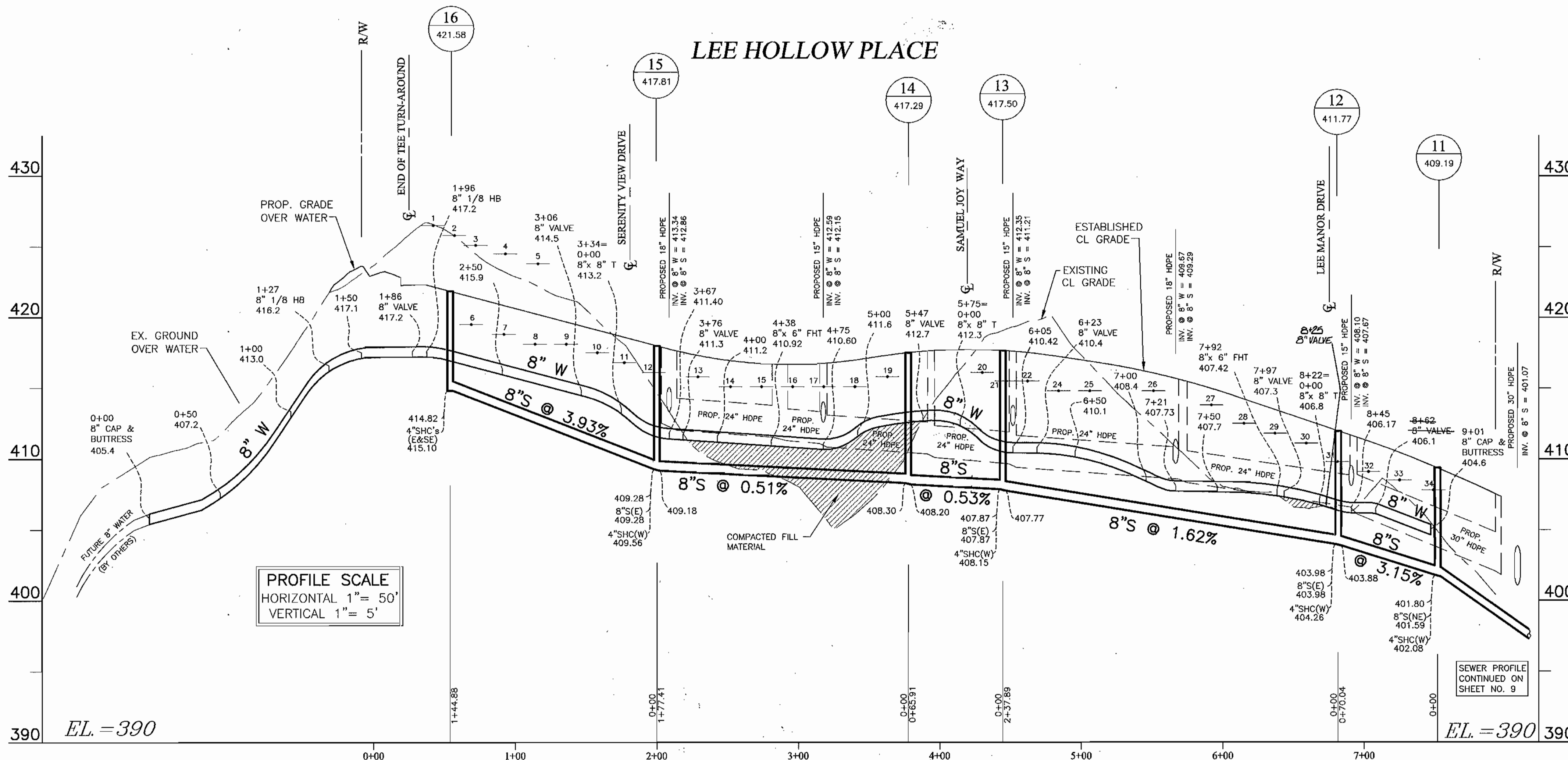
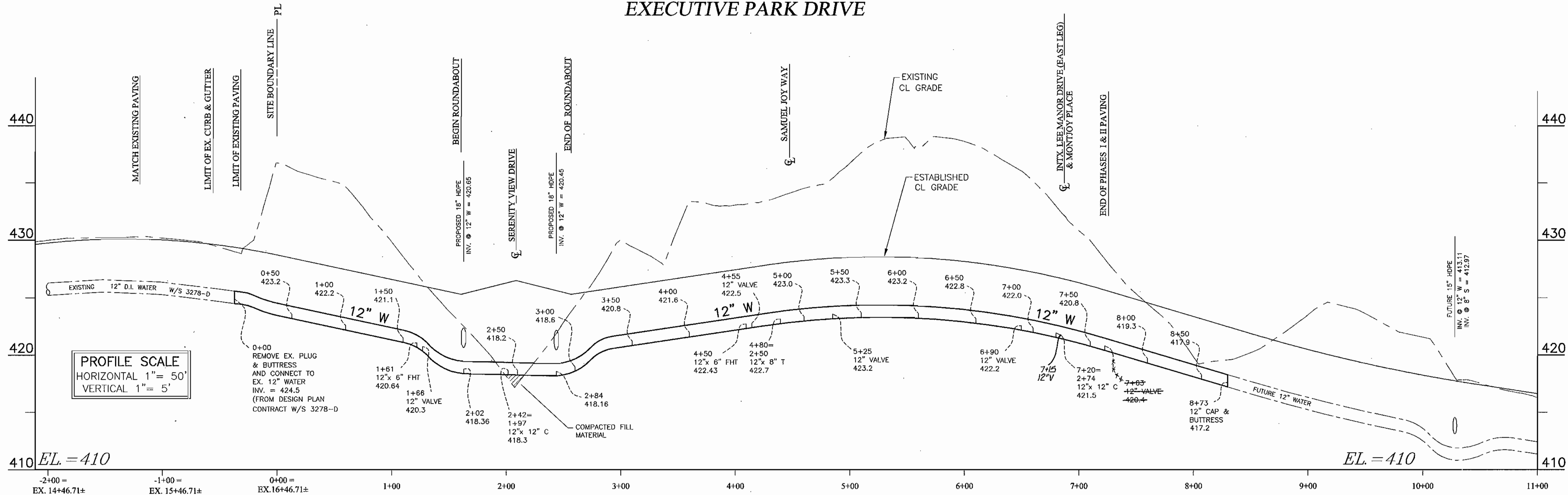
Robert Berman 9/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Enhancing the value of land assets

600 SCALE MAP NO. 30 BLOCK

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12" WATER ALONG EXECUTIVE PARK DRIVE



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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. J. ...
CHIEF, BUREAU OF UTILITIES
8-11-03

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
9/10/03



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301.948.6256 (fax)
301.253.6600
www.rodgers.com

DES:	SWD		
DRN:	SWD		
CHK:	SWD	PF8 4 REVISE TITLE BLOCK	7-4-03
DATE:	1/03	ADDRESSSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
BY:	NO.	ADDRESSSED HOWARD CO. COMMENTS OF 3-17-03	5-28-03
		REVISIONS	DATE

WATER & SEWER EXTENSION PROFILES

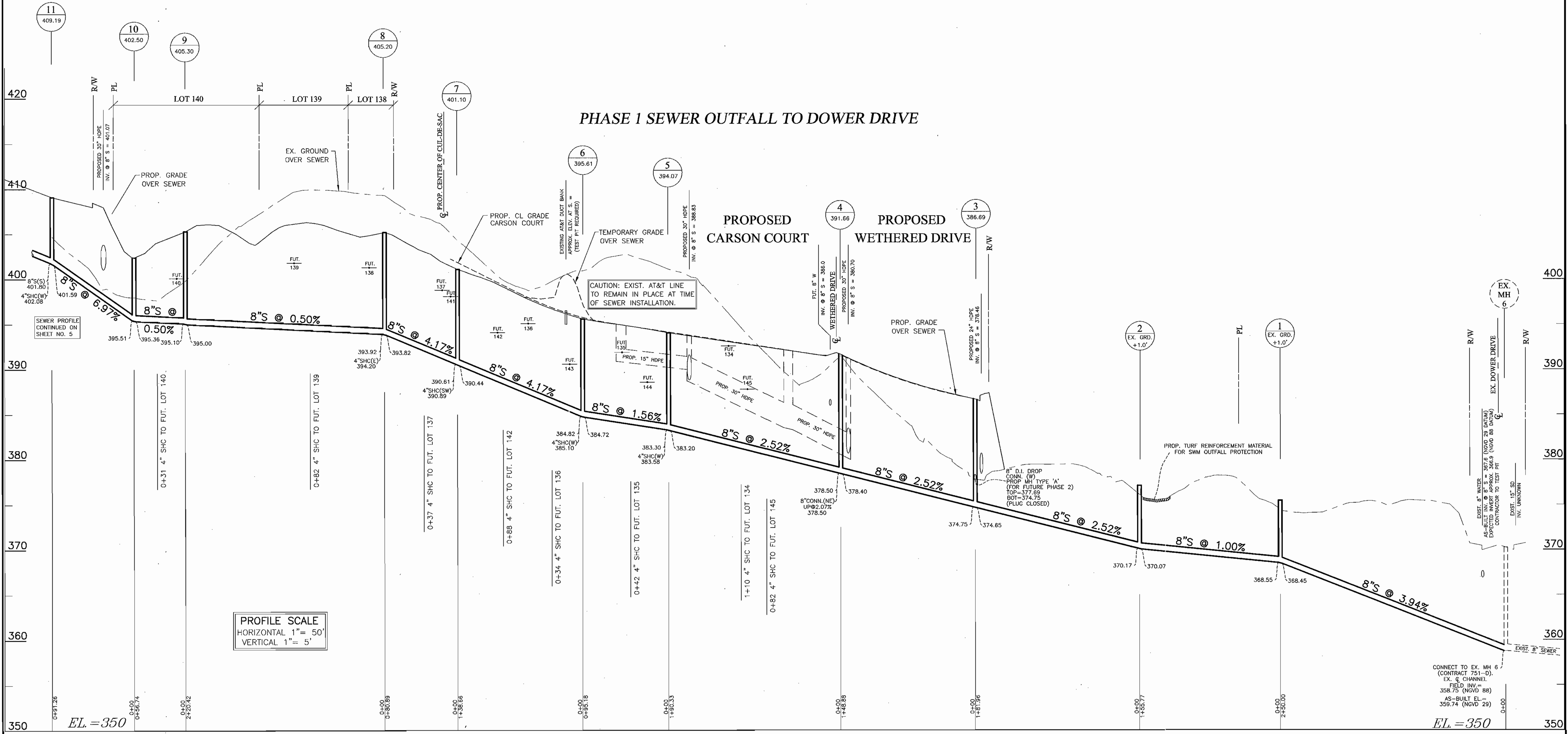
600 SCALE MAP NO. 30 BLOCK

MONTJOY - PHASE I, II and III
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C".
HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 5 OF 11



PHASE 1 SEWER OUTFALL TO DOWER DRIVE



PROFILE SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert D. ... 8-11-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 7/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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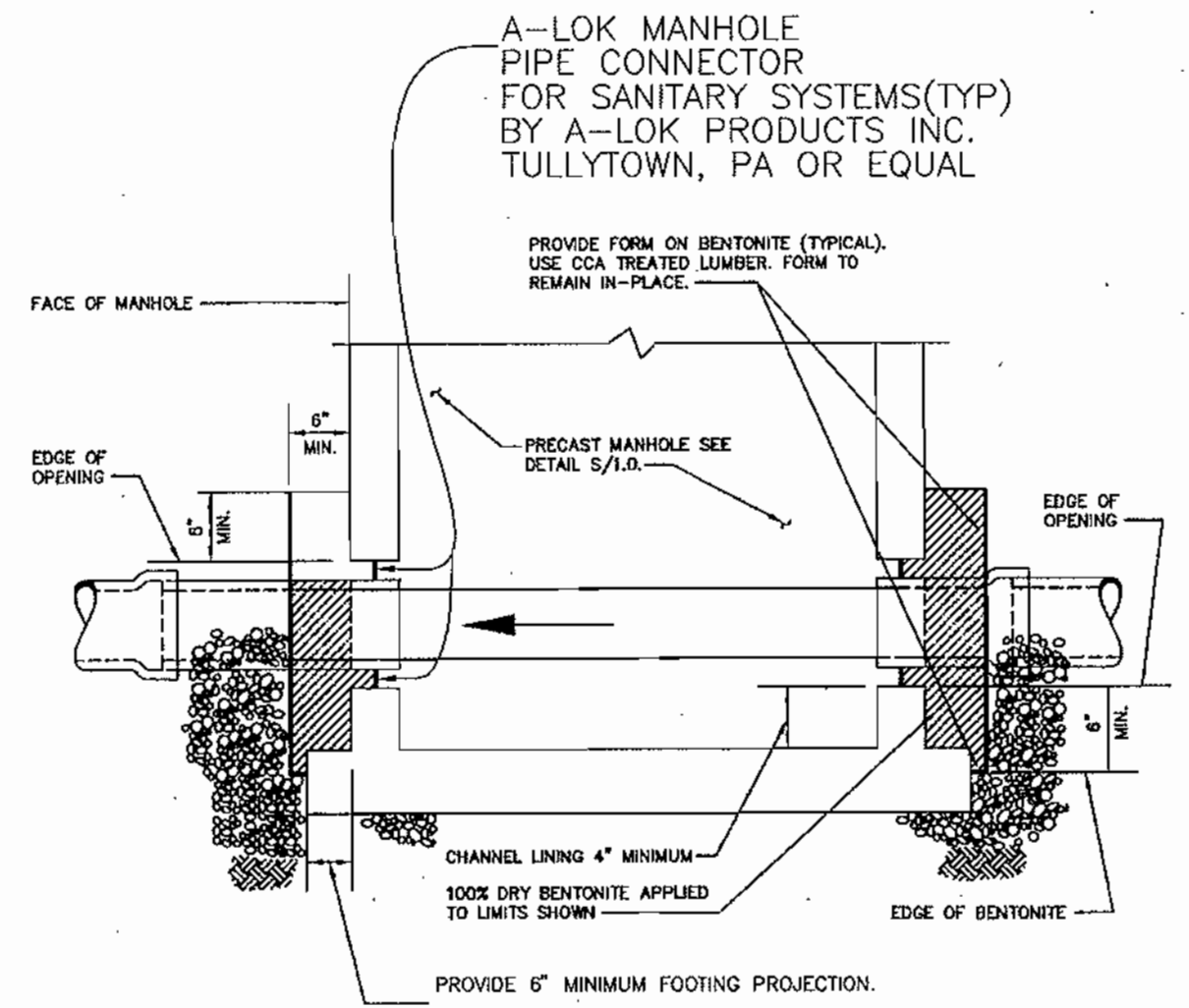
DES:	SWD		
DRN:	SWD		
CHK:			
DATE:	1/03		
BY:	NO.	REVISIONS	DATE
		PFB A	Revise Title Block
		SWD	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03
		SWD	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03

WATER & SEWER EXTENSION PROFILES

MONTJOY - PHASE I, II and III
BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"
HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 9 OF 11

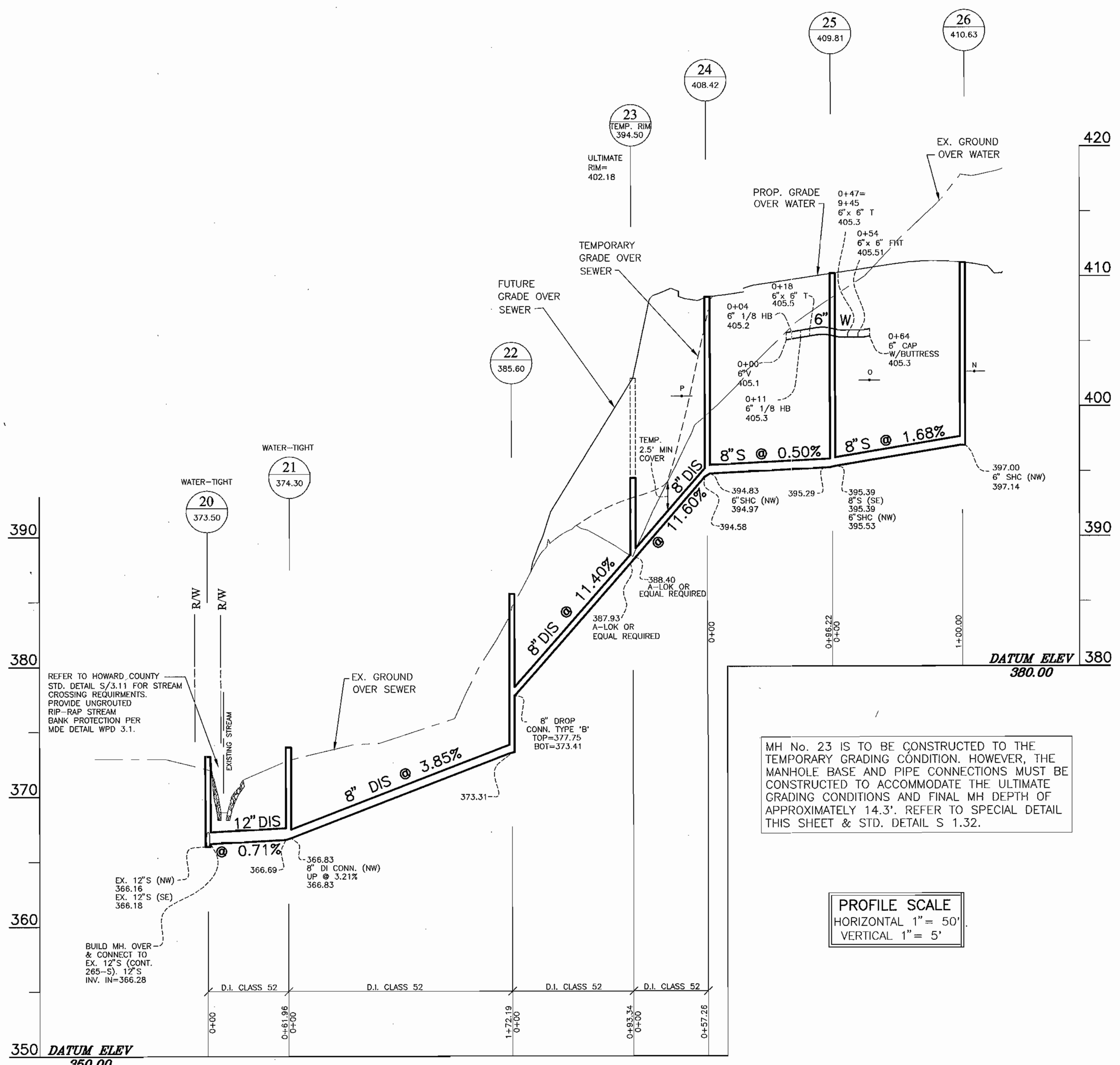
SEWER OUTFALL & WATER LINE AT END OF WALKING STICK ROAD



WATER AS-BUILT DATA						SEWER AS-BUILT DATA					
FROM	TO	DIST	FROM	TO	DIST	FROM	TO	DIST	FROM	TO	DIST
LOT 1	MH 10	179	LOT 43	WMC 44	42	LOT 85	MH 37	64	LOT 1	MH 10	150
	MH 15	145		MH 18	56		MH 38	164		MH 15	164
2	MH 10	31	44	WMC 45	25	86	WMC 25	131	2	MH 16	383
	MH 18	39	45	MH 18	25	87	WMC 26	143		MH 16	43
3	MH 15	131				88	MH 37	228	3	MH 16	344
	MH 18	98	46	WMC 47	14	89	MH 37	228		MH 16	411
4	MH 16	19				90	MH 37	228	4	MH 16	571
	MH 18	63	47			91	MH 38	257		MH 16	23
5	MH 15	44				92	MH 38	257	5	MH 16	715
	MH 18	143	48	INLET	23	93	MH 38	257		MH 16	72
6	MH 16	44				94	MH 38	257	6	MH 15	172
	MH 18	102	49			95	MH 38	257		MH 15	48
7	MH 16	51				96	MH 38	257	7	MH 16	464
	MH 18	115	50			97	MH 38	257		MH 16	49
8	MH 16	51				98	MH 38	257	8	MH 15	815
	MH 18	115	51	WMC 49	41	99	MH 38	257		MH 15	50
9	MH 15	55				100	MH 38	257	9	MH 16	662
	MH 18	115	52	WMC 50	31	101	MH 38	257		MH 16	682
10	MH 16	93				102	MH 38	257	10	MH 16	682
	MH 18	143	53	WMC 51	41	103	MH 38	257		MH 15	682
11	MH 15	83				104	MH 38	257	11	MH 16	682
	MH 18	133	54	WMC 52	32	105	MH 38	257		MH 16	682
12	MH 16	130				106	MH 38	257	12	MH 16	682
	MH 18	180	55	MH 12	131	107	MH 38	257		MH 15	682
13	MH 15	127				108	MH 38	257	13	MH 16	682
	MH 18	177	56	MH 12	131	109	MH 38	257		MH 16	682
14	MH 15	127				110	MH 38	257	14	MH 16	682
	MH 18	177	57	MH 12	131	111	MH 38	257		MH 16	682
15	MH 15	127				112	MH 38	257	15	MH 16	682
	MH 18	177	58	MH 12	131	113	MH 38	257		MH 16	682
16	MH 15	127				114	MH 38	257	16	MH 16	682
	MH 18	177	59	WMC 57	40	115	MH 38	257		MH 16	682
17	MH 14	107				116	MH 38	257	17	MH 16	682
	MH 18	157	60	WMC 58	30	117	MH 38	257		MH 16	682
18	MH 15	127				118	MH 38	257	18	MH 16	682
	MH 18	177	61	WMC 59	40	119	MH 38	257		MH 16	682
19	MH 14	107				120	MH 38	257	19	MH 16	682
	MH 18	157	62	MH 10	24	121	MH 38	257		MH 16	682
20	MH 15	127				122	MH 38	257	20	MH 16	682
	MH 18	177	63	MH 10	24	123	MH 38	257		MH 16	682
21	MH 14	107				124	MH 38	257	21	MH 16	682
	MH 18	157	64	MH 10	24	125	MH 38	257		MH 16	682
22	MH 15	127				126	MH 38	257	22	MH 16	682
	MH 18	177	65	MH 10	24	127	MH 38	257		MH 16	682
23	MH 14	107				128	MH 38	257	23	MH 16	682
	MH 18	157	66	MH 10	24	129	MH 38	257		MH 16	682
24	MH 15	127				130	MH 38	257	24	MH 16	682
	MH 18	177	67	MH 10	24	131	MH 38	257		MH 16	682
25	MH 14	107				132	MH 38	257	25	MH 16	682
	MH 18	157	68	MH 10	24	133	MH 38	257		MH 16	682
26	MH 15	127				134	MH 38	257	26	MH 16	682
	MH 18	177	69	MH 10	24	135	MH 38	257		MH 16	682
27	MH 14	107				136	MH 38	257	27	MH 16	682
	MH 18	157	70	MH 10	24	137	MH 38	257		MH 16	682
28	MH 15	127				138	MH 38	257	28	MH 16	682
	MH 18	177	71	MH 10	24	139	MH 38	257		MH 16	682
29	MH 14	107				140	MH 38	257	29	MH 16	682
	MH 18	157	72	MH 10	24	141	MH 38	257		MH 16	682
30	MH 15	127				142	MH 38	257	30	MH 16	682
	MH 18	177	73	MH 10	24	143	MH 38	257		MH 16	682
31	MH 14	107				144	MH 38	257	31	MH 16	682
	MH 18	157	74	MH 10	24	145	MH 38	257		MH 16	682
32	MH 15	127				146	MH 38	257	32	MH 16	682
	MH 18	177	75	MH 10	24	147	MH 38	257		MH 16	682
33	MH 14	107				148	MH 38	257	33	MH 16	682
	MH 18	157	76	MH 10	24	149	MH 38	257		MH 16	682
34	MH 15	127				150	MH 38	257	34	MH 16	682
	MH 18	177	77	MH 10	24	151	MH 38	257		MH 16	682
35	MH 14	107				152	MH 38	257	35	MH 16	682
	MH 18	157	78	MH 10	24	153	MH 38	257		MH 16	682
36	MH 15	127				154	MH 38	257	36	MH 16	682
	MH 18	177	79	WMC 77	34	155	MH 38	257		MH 16	682
37	MH 14	107				156	MH 38	257	37	MH 16	682
	MH 18	157	80	WMC 78	45	157	MH 38	257		MH 16	682
38	MH 15	127				158	MH 38	257	38	MH 16	682
	MH 18	177	81	WMC 79	34	159	MH 38	257		MH 16	682
39	MH 14	107				160	MH 38	257	39	MH 16	682
	MH 18	157	82	MH 30	44	161	MH 38	257		MH 16	682
40	MH 15	127				162	MH 38	257	40	MH 16	682
	MH 18	177	83	MH 30	44	163	MH 38	257		MH 16	682
41	MH 14	107				164	MH 38	257	41	MH 16	682
	MH 18	157	84	MH 30	44	165	MH 38	257		MH 16	682
42	MH 15	127				166	MH 38	257	42	MH 16	682
	MH 18	177	85	MH 30	44	167	MH 38	257		MH 16	682

NOTE: ALL MEASUREMENTS ARE TO WMC UNLESS OTHERWISE NOTED.

NOTE: ALL MEASUREMENTS ARE TO SHC.



MH No. 23 IS TO BE CONSTRUCTED TO THE TEMPORARY GRADING CONDITION. HOWEVER, THE MANHOLE BASE AND PIPE CONNECTIONS MUST BE CONSTRUCTED TO ACCOMMODATE THE ULTIMATE GRADING CONDITIONS AND FINAL MH DEPTH OF APPROXIMATELY 14.3'. REFER TO SPECIAL DETAIL THIS SHEET & STD. DETAIL S 1.32.

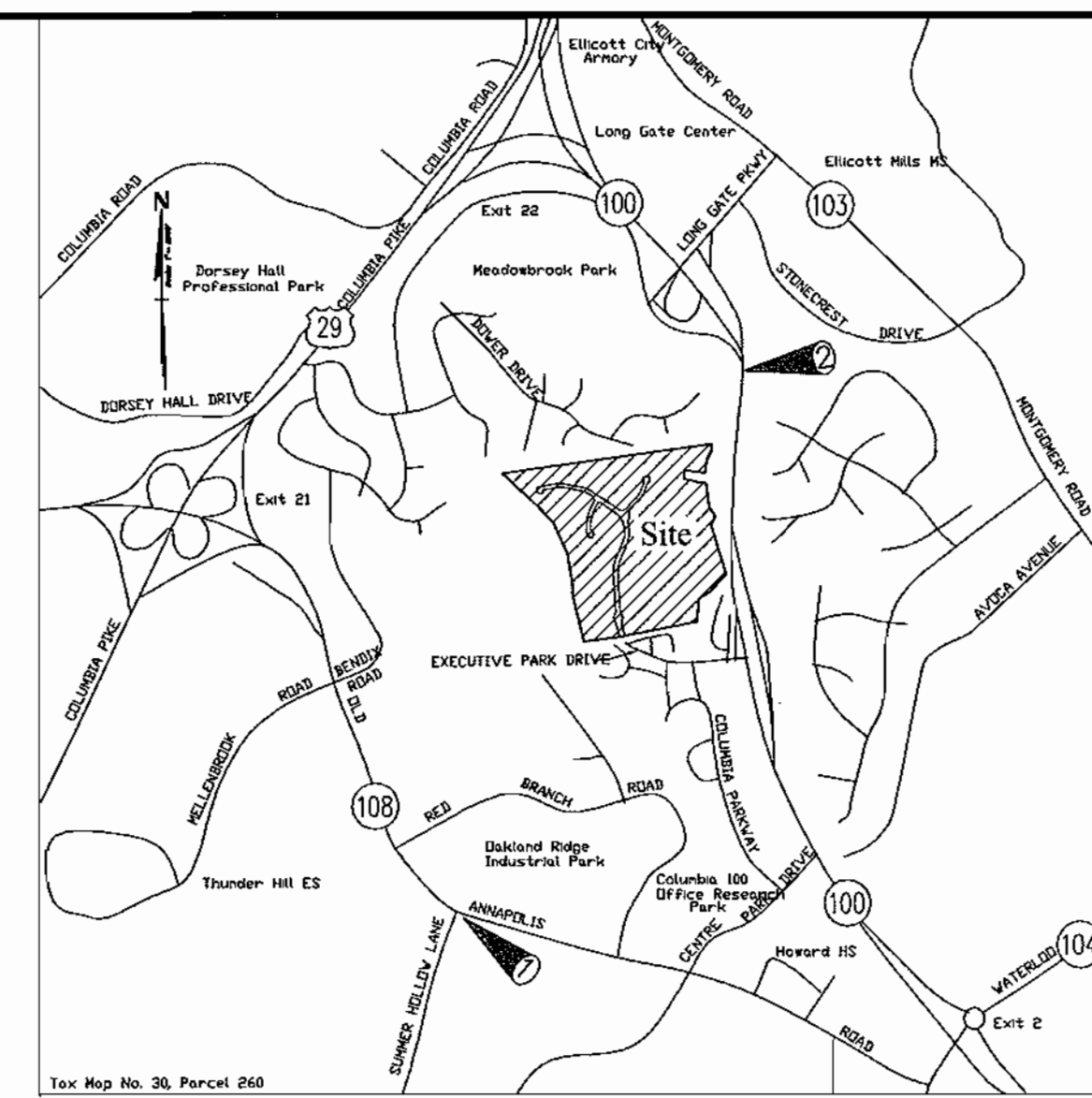
PROFILE SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: _____	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: _____	Rodgers Consulting, Inc. 9260 Gaither Road Gaithersburg, MD 20877 301.948.4700 301.948.6256 (fax) 301.253.6609 www.rodgers.com	DES: SWD	KCI	AS-BUILT DATA ADDED	12/17/04	WATER & SEWER EXTENSION PROFILES 600 SCALE MAP NO. 30	MONTJOY - PHASE I, II and III BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A", OPEN SPACE LOTS 120 - 126, 194 AND NON-BUILDABLE BULK PARCELS "B" AND "C" HOWARD COUNTY ELECTION DISTRICT NO. 2 CONTRACT NO. 24-4064-D	SCALE AS SHOWN SHEET 8 OF 11
			DRN: SWD	YSL	RED-LINE REVISION: REV. WIC LOCATIONS AND SHORTEN 6" WATER MAIN.	4/16/04			
			CHK: SWD	PFB	REVISE TITLE BLOCK	9-4-03			
			DATE: 1/03	SWD	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03			
				BY NO.	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03			

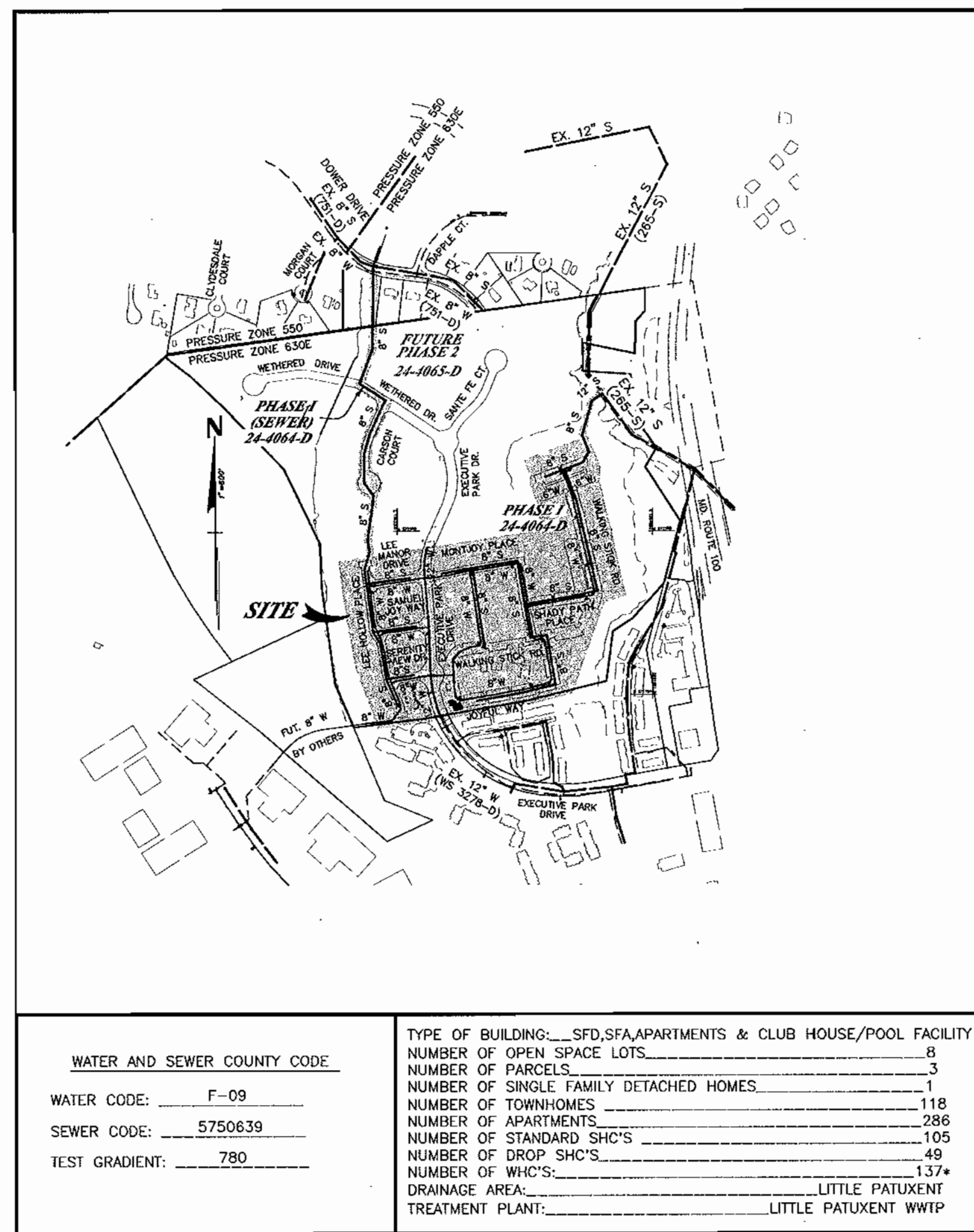
FINAL PLAN WATER AND SEWER EXTENSION MONTJOY, PHASE I, II, AND III

TOWNHOMES, APARTMENTS AND FUTURE SINGLE FAMILY HOMES
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 24-4064-D



LEGEND

EXIST. WATER MAIN	---
EXIST. SEWER MAIN	----
EXIST. SEWER MANHOLE	○
PROP. WATER MAIN	==
PROP. SEWER MAIN	---
PROP. STORM DRAIN (BY OTHERS)	---
PROP. SEWER MANHOLE	●
PROP. SEWER HOUSE CONNECTION	---
PROP. WATER HOUSE CONNECTION (SINGLE - 1")	---
PROP. FIRE HYDRANT	⊕
PROP. VALVE	⊕
PROP. PLUG & BUTTRESS	⊕
PROP. DROP SEWER HOUSE CONNECTION (SEE PLAN VIEW FOR TYPE)	---



WATER AND SEWER COUNTY CODE:	TYPE OF BUILDING: SFD, SFA, APARTMENTS & CLUB HOUSE/POOL FACILITY
WATER CODE: F-09	NUMBER OF OPEN SPACE LOTS: 8
SEWER CODE: 5750639	NUMBER OF SINGLE FAMILY DETACHED HOMES: 1
TEST GRADIENT: 780	NUMBER OF TOWNHOMES: 118
	NUMBER OF APARTMENTS: 286
	NUMBER OF STANDARD SHC'S: 105
	NUMBER OF DROP SHC'S: 49
	NUMBER OF WHC'S: 137
	DRAINAGE AREA: LITTLE PATUXENT
	TREATMENT PLANT: LITTLE PATUXENT WWTP

* INCLUDES WHC TO MAINT. BLDG. & IRRIGATIONS

LOCATION MAP

SCALE: 1" = 600'

BENCH MARKS (NAD83)

BENCHMARK NO. 1	HO. CO. NO. 30FA
HOWARD CO. STD. STAMPED DISC LOCATED SW CORNER OF RT. 108 AND SUMMER HOLLOW LANE.	
N 568621.336	E 1361563.983 ELEV. 441.619
BENCHMARK NO. 2	HO. CO. NO. 30CA
HOWARD CO. STD. STAMPED DISC LOCATED ON THE EAST SIDE OF THE N.B.L. OF RT. 100	
N 575083.465	E 1364681.801 ELEV. 380.087

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2 TO 4	WATER & SEWER PLAN VIEWS
5 TO 9	WATER & SEWER PROFILES
10	WATER & SEWER STAKEOUT DATA
11	WATER & SEWER SERVICE CONNECTION DATA

QUANTITIES

ITEMS	ESTIMATED QUANTITIES	AS-BUILT	
		QUANTITIES	TYPE MANUF./SUPPLIER
12" WATER	873 L.F.	870	DIP GRIFFIN / BRS
8" WATER	4982 L.F.	4931	" " " "
6" WATER	240 L.F.	242	" " " "
12" VALVES	5 EA.	5	R.S. MUELLER / " "
8" VALVES	23 EA.	23	" " " "
6" VALVES	26 EA.	26	" " " "
4" VALVE	1 EA.	1	" " " "
FIRE HYDRANTS	15 EA.	15	" " " "
12"x6" TEE	2 EA.	2	DIP U.S. PIPE / " "
12"x8" TEE	1 EA.	1	" " " "
8"x8" TEE	8 EA.	8	" " " "
6"x6" TEE	3 EA.	3	" " " "
8"x6" TEE	23 EA.	23	" " " "
8"x4" TEE	1 EA.	1	" " " "
12"x8" RED	4 EA.	4	" " " "
8"x6" RED	1 EA.	1	" " " "
12"x12" CROSS	2 EA.	2	" " " "
8"-1/8" HB	17 EA.	16	" " " "
6"-1/8" HB	2 EA.	2	" " " "
8"-1/8" HB	2 EA.	2	" " " "
6"-1/8" HB	2 EA.	2	" " " "
4"-1/8" HB	1 EA.	1	" " " "
12" CAP	1 EA.	1	" " " "
8" CAP	2 EA.	2	" " " "
6" CAP	1 EA.	1	GRIFFIN / " "
6" WHC	479 L.F.	477	" " " "
4" WHC	52 L.F.	52	" " " "
1" WHC	3119 L.F.	3125	HARPER READING / " "
1"-1/2" DRAIN	1 EA.	1	BRS FORD / " "
12" SEWER (DIP)	62 L.F.	60	DIP GRIFFIN / " "
8" SEWER (DIP)	323 L.F.	304	" " " "
6" SEWER	5907 L.F.	7739	PVC " " " "
STD. MH'S	37 EA.	35	" " " "
DROP MH TYPE 'A'	1 EA.	1	" " " "
DROP MH TYPE 'B'	2 EA.	2	" " " "
6" SHC	850 L.F.	766	" " " "
4" SHC	2510 L.F.	2249	" " " "

NAME OF UTILITY CONTRACTOR: CCS
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

Reviewed for **USDA, NATURAL RESOURCES SERVICE**
and made Technical Amendments
for **4/21/04**

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
Approved **John R. Peltier** Date **4/21/04**

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND UNDER F 03-87.

GENERAL NOTES

- PART 1 - GENERAL**
- 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 NGVD88 VERTICAL DATUM AS ESTABLISHED BY HOWARD COUNTY, MARYLAND.
 - 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 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 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, STD. SPECIFICATIONS AND DETAIL 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.
 - ADVANCE OF CONSTRUCTION OPERATIONS SHALL BE NOTIFIED TO THE CONTRACTOR AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

- PART 2 - 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 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 ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS.
 - 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 WATER HOUSE CONNECTIONS (WHC'S) SHALL BE INSIDE METER SETTINGS UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS. ALL TOWNHOME WHC'S TO BE 1" SINGLE COPPER WHC'S UNLESS OTHERWISE NOTED ON THE PLAN. APARTMENT BUILDING WATER CONNECTIONS TO BE 6" DUCTILE IRON WHC'S.

- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE DIP 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 65-52, WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - ALL MANHOLES SHOWN IN THE PLANS ARE PRECAST MANHOLE UNLESS OTHERWISE NOTED. ALL PRECAST MANHOLES MUST MET THE HOWARD COUNTY SPECIFICATIONS AND STANDARD.

DEVELOPER/BUILDER:
WINCHESTER HOMES,
6905 ROCKLEDGE DRIVE
SUITE 800
BETHESDA, MD. 20817
(301) 803-4800

THIS REVISED PLAN SUPERSEDES SIGNED ORIGINAL ON 09/09/03

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 4-21-04 CHIEF, BUREAU OF UTILITIES</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 5/11/04 CHIEF, DEVELOPMENT ENGINEERING DIVISION</p>
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9260 Galbier Road
Gallagher, MD 20877
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301.948.6256 (fax)
301.293.6609
www.rodgers.com

STATE OF MARYLAND
PROFESSIONAL ENGINEER
[Signature]
4/21/04

DES: SWD	PPD	AS-BUILT DATA ADDED	12/19/04
DRN: SWD	PFB	RED-LINE REVISION-REVISE QUANTITY TABLE FOR MOUL. CORR.	4/16/04
CHK:	SWD	REVISE TITLE BLOCK	9-4-03
DATE: 01/03	SWD	ADDRESSED HOWARD CO. COMMENTS OF 6-12-03	6-12-03
	SWD	ADDRESSED HOWARD CO. COMMENTS OF 4-30-03	5-9-03
	SWD	ADDRESSED HOWARD CO. COMMENTS OF 3-17-03	3-28-03
BY: NO.		REVISIONS	DATE

**WATER & SEWER EXTENSION
TITLE SHEET**

600 SCALE MAP NO. 30 BLOCK 23 & 24

MONTJOY - PHASE I, II and III

BUILDABLE LOTS 1-119 AND BUILDABLE BULK PARCEL "A",
OPEN SPACE LOTS 120 - 126, 194 AND
NON-BUILDABLE BULK PARCELS "B" AND "C"

HOWARD COUNTY ELECTION DISTRICT NO. 2
CONTRACT NO. 24-4064-D

SCALE AS SHOWN
SHEET 1 OF 11

