

QUANTITY TABLE

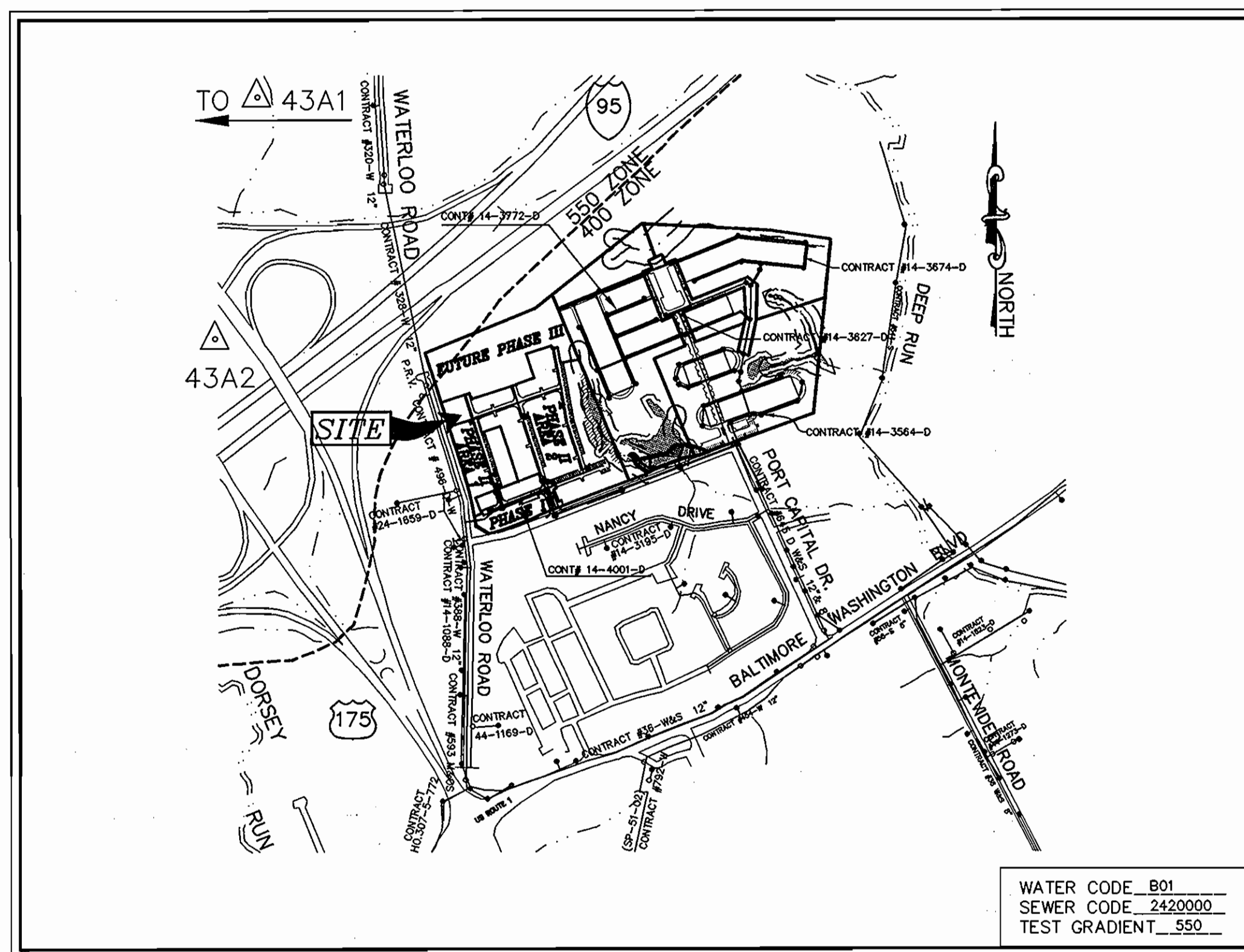
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	0			
DROP MH, TYPE "B"	0			
8" SEWER MAIN	0 L.F.			
4" SEWER HOUSE CONNECTION	0 L.F.			
6" SEWER HOUSE CONNECTION	0 L.F.			
# SHC	0			
8" WATER MAIN	897 L.F.			
6" WATER MAIN	83 L.F.			
1 1/2" WHC	1110 L.F.			
# WHC	50			
F.H.	0			
8"x6" T	3			
8"x8" T	1			
8" V	3			
6" V	3			
8"x8" CROSS	1			
8" CAP & BUTTRESS	3			
8" PLUG & BUTTRESS	1			
1/32 HB	2			
1/8 HB	2			
1" METER	50			

SURVEY AND DRAFTING DIVISION AS-BUILT DATE

NAME OF UTILITY CONTRACTOR:

PLAN REFERENCE NUMBERS
SDP-03-102

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER SDP-03-102



TYPE OF BUILDING	RESIDENTIAL - SFA
No. OF UNITS	50
No. OF WATER HOUSE CONNECTIONS	50
No. OF SEWER HOUSE CONNECTIONS	0
DRAINAGE AREA	DEEP RUN, PATAPSCO
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT, BALTIMORE

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. [NORTH AMERICAN DATUM OF 1983 (NAD 83)]
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL 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, STANDARD 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:
 AT & T 1-800-252-1133
 BG & E CO. CONTRACTOR SERVICES (410) 850-4620
 BG & E CO. UNDERGROUND DAMAGE CONTROL (410) 685-1400
 HO CO DEPT OF PUBLIC WORKS BUREAU OF UTILITIES (DPW) (410) 313-4900
 COLONIAL PIPELINE CO. (410) 795-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION (410) 531-5533
 VERIZON 1-800-743-0033 / (410) 224-9210
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) 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 (a) OF THE HOWARD COUNTY CODE.
- 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 STRAPPED 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 SHALL BE FOR 1" OUTSIDE METER SETTING WITH 1.5" WHC, UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.(HO.CO. STD. W.3.33)
- SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. 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.
- ALL SEWER MAINS ARE PRIVATE.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 05.52. WHERE WATERTIGHT 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 STATIONING SHOWN IS WATER MAIN STATIONING.
- HOWARD COUNTY MAINTENANCE RESPONSIBILITIES END AT CLEANOUTS AND BALL VALVE LOCATIONS.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- EXISTING WATER AND SEWER EASEMENT ADJACENT TO PORT CAPITOL DRIVE IS RECORDED UNDER LIBER 727/FOUO 098.
- SEDIMENT CONTROL APPROVED UNDER SDP-03-102.
- ALL ROADWAYS ARE STD. HOWARD COUNTY P-2 PAVEMENT UNLESS OTHERWISE SHOWN.
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE NAD 83 MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 43A1 AND 43A2.

**CONTRACT NO. 14-4263-D
VILLAGE TOWNS, PHASE II, AREA 2
UNITS 1 THRU 82 & 113 THRU 177
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER PLAN
3	WATER PROFILES

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark Levy 4/10/05
DEVELOPER'S SIGNATURE DATE
MARK LEVY, VILLA ASSOCIATES, LLC
DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John B. Mildenberg 4/10/05
ENGINEER'S SIGNATURE DATE
JOHN B. MILDENBERG
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Jim Myers 5/5/05
TERRA-NATURAL RESOURCES
CONSERVATION SERVICE DATE

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

John K. Roberts 5/5/05
HOWARD SCD DATE

OWNER/DEVELOPER
VILLA ASSOCIATES, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136
(410) 526-4030

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. B. ... 4-29-05
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 5/11/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21041
(410) 897-0296 Balt. (301) 621-5521 Wash. (410) 897-0298 Fax

engineering	SJD				
illustration	SJD				
approval	JBM				
project	KCI	2	AS-BUILT DATA		10/23/04
date	2002-05-6	MGA	1	ADJUST QUANTITIES ON QUANTITY TABLE	5/8/04
date	APR 2005	BY	NO.	REVISION	DATE

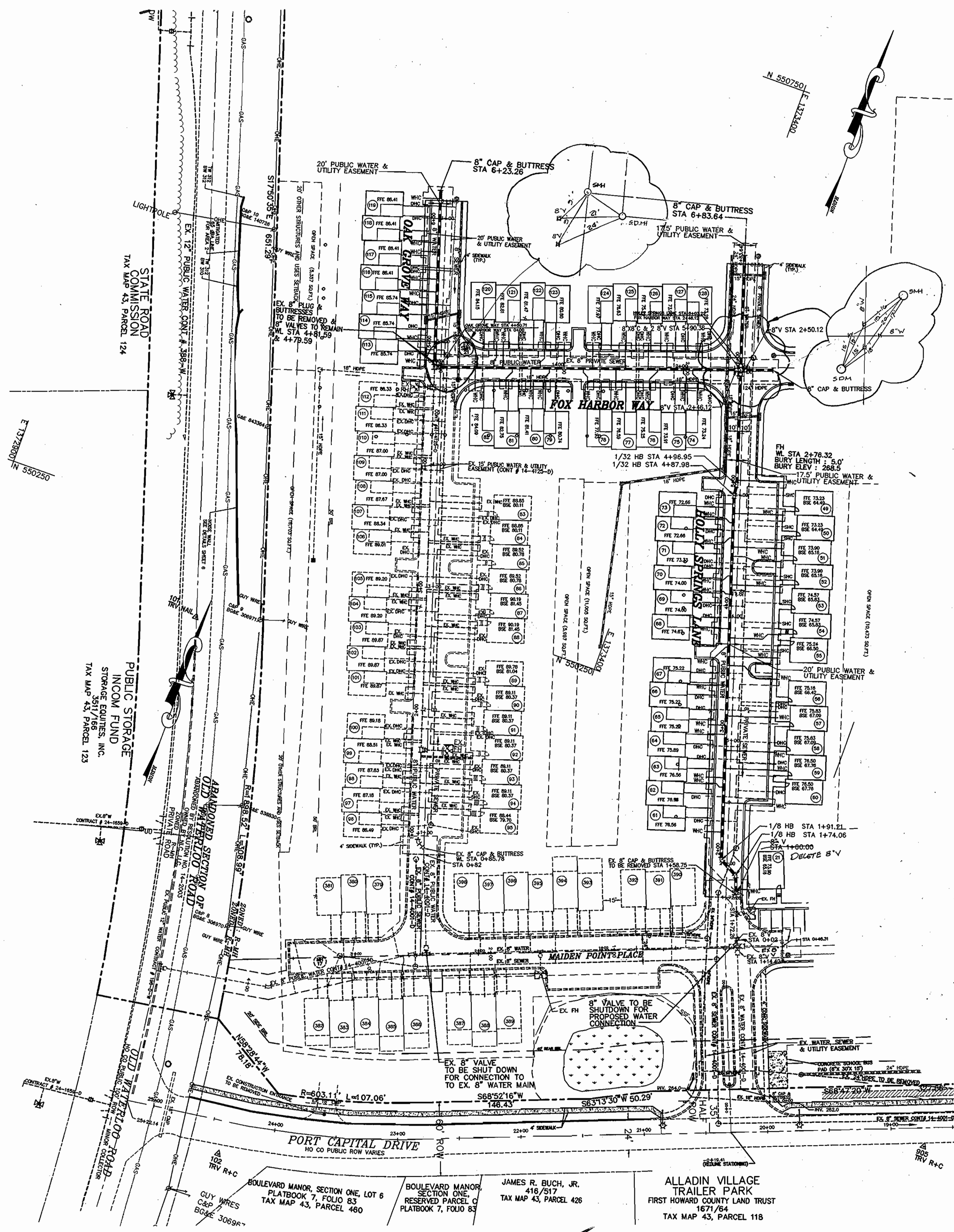
TITLE SHEET

600' SCALE MAP NO. 43 BLOCK NO. 3

VILLAGE TOWNS, PHASE II, AREA 2
UNITS 1 THRU 82 & 113 THRU 177
CONTRACT NO. 14-4263-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale AS SHOWN
1 OF 3

02-008 Vieg Phase2 Vieg V08a-11-wpover-07.dwg 4-11-05 3:17:04 pm EST



WATER SERVICE ASSUPT FIELD DATA

LOT	FROM	TO	FEET	TO	FEET
61	WHC.	LT. COR. EX. HOUSE	5'	RT. COR. EX. HOUSE	17
52			11		21
53			6		21
54			20		25
55			19		8
56			6.5		21.5
57			13		13
58			19		8
59			16		11
60	WHC.		22		7
61		LT. COR. EX. HOUSE	15	RT. COR. EX. HOUSE	25
62			25		17.5
63			17		22
64			25		16
65			17		21
66			24		17
67			24		16
68			19		19.5
69			24		14.5
70	WHC.		21		18
71			25		15
72			25		17.5
73			18		17
74			18		17
75			17		25
76			18		17.5
77			23		17
78			25		15
79	WHC.		26.5		17.5
80			19.5		18
81		LT. COR. EX. HOUSE	20	RT. COR. EX. HOUSE	20
82			20		14.5
113			15.5		20.5
114			15		24
115			25		15
116			20		19
117			20		17
118			17		25
119			21		16
120	WHC.		28.5		18
121			17		21
122			25		17
123			22		17
124			16		21
125			20		19
126			17		19
127			18		21
128			22		16
140			9		27
150	WHC.		9		22

WATER MAIN APPURTENANCE CHART

HOLLY SPRING LANE		OAK GROVE WAY	
WATER LINE STA.	APPURTENANCE	WATER LINE STA.	APPURTENANCE
1+60.00	8" V	6+23.26	8" C&B
1+74.06	1/8 HB		
1+91.21	1/8 HB		
4+87.98	1/32 HB		
4+96.95	1/32 HB		
5+88.38	8" V		
5+90.38	8"X8" CROSS	2+46.12	8" V
5+82.38	8" V	2+48.12	8"X8" T
6+33.64	8" C&B	2+50.12	8" V

WATER MAIN APPURTENANCE LOCATION CHART

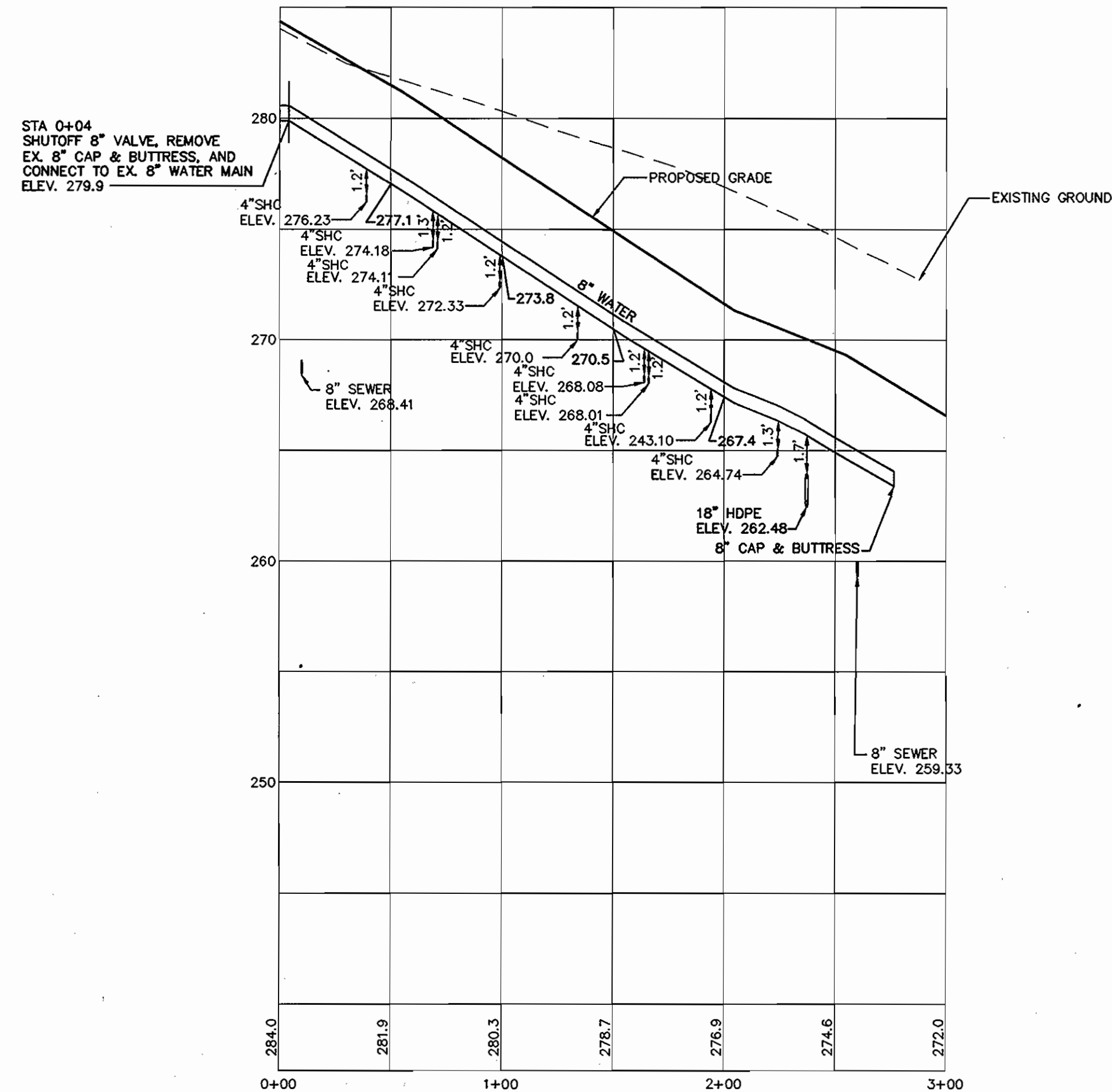
HOLLY SPRING LANE		OAK GROVE WAY	
ROAD STATION	APPURTENANCE	ROAD STATION	APPURTENANCE
1+76.21	8.21' RT	6+22.33	5' LT
1+90.25	7.38' RT		
2+02.38	4.75' LT		
4+98.81	4.75' LT		
5+07.95	3' LT		
5+99.38	3' LT		
6+01.38	3' LT	2+41.07	2' RT
6+03.38	3' LT	2+43.07	2' RT
6+94.59	3' LT	2+45.07	2' RT

NOTE : ALL WHC SHALL BE 1.5" WITH 1" OUTSIDE-METER SETTINGS.

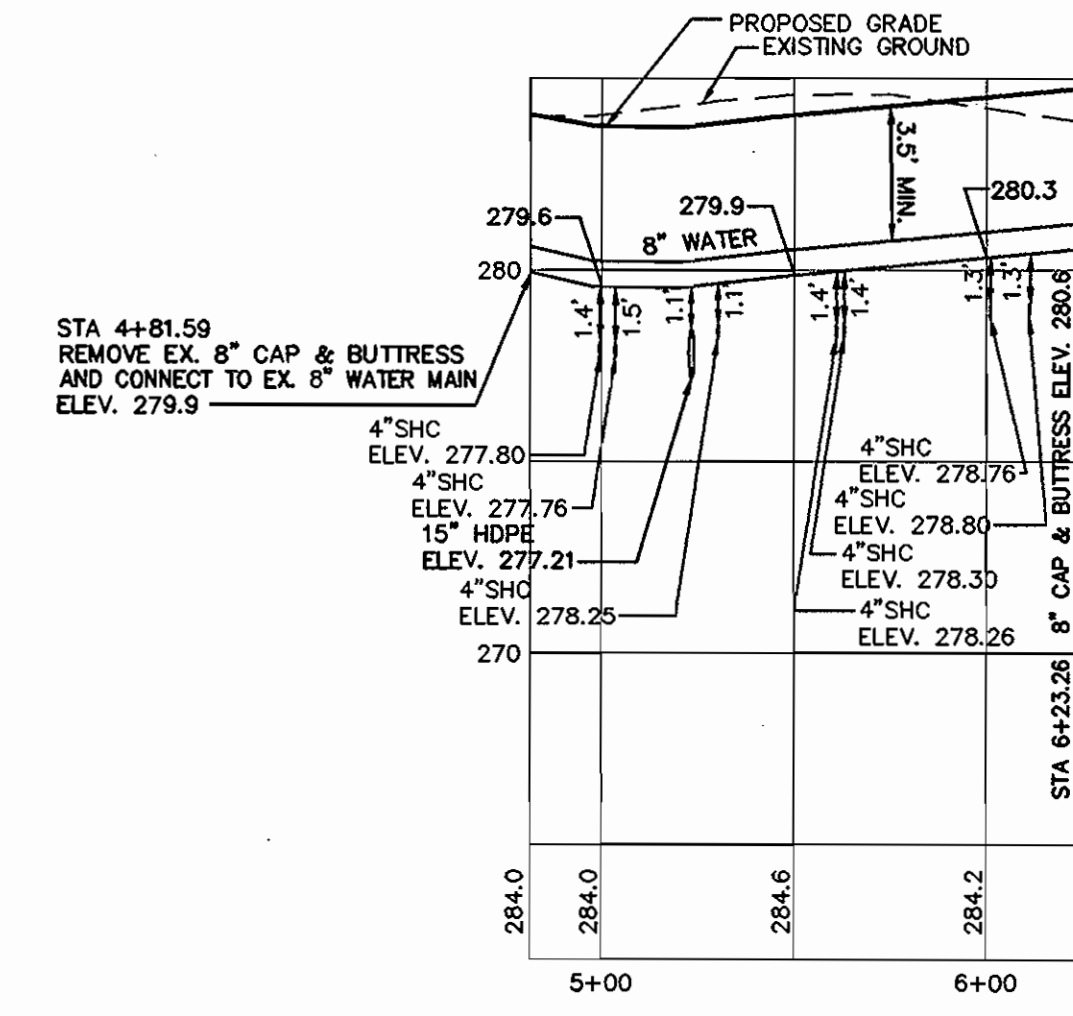
PLAN REFERENCE NUMBERS
SDP-03-102

THIS SHEET SUPERCEDES THE PLAN SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION ON MAY 11, 2005.

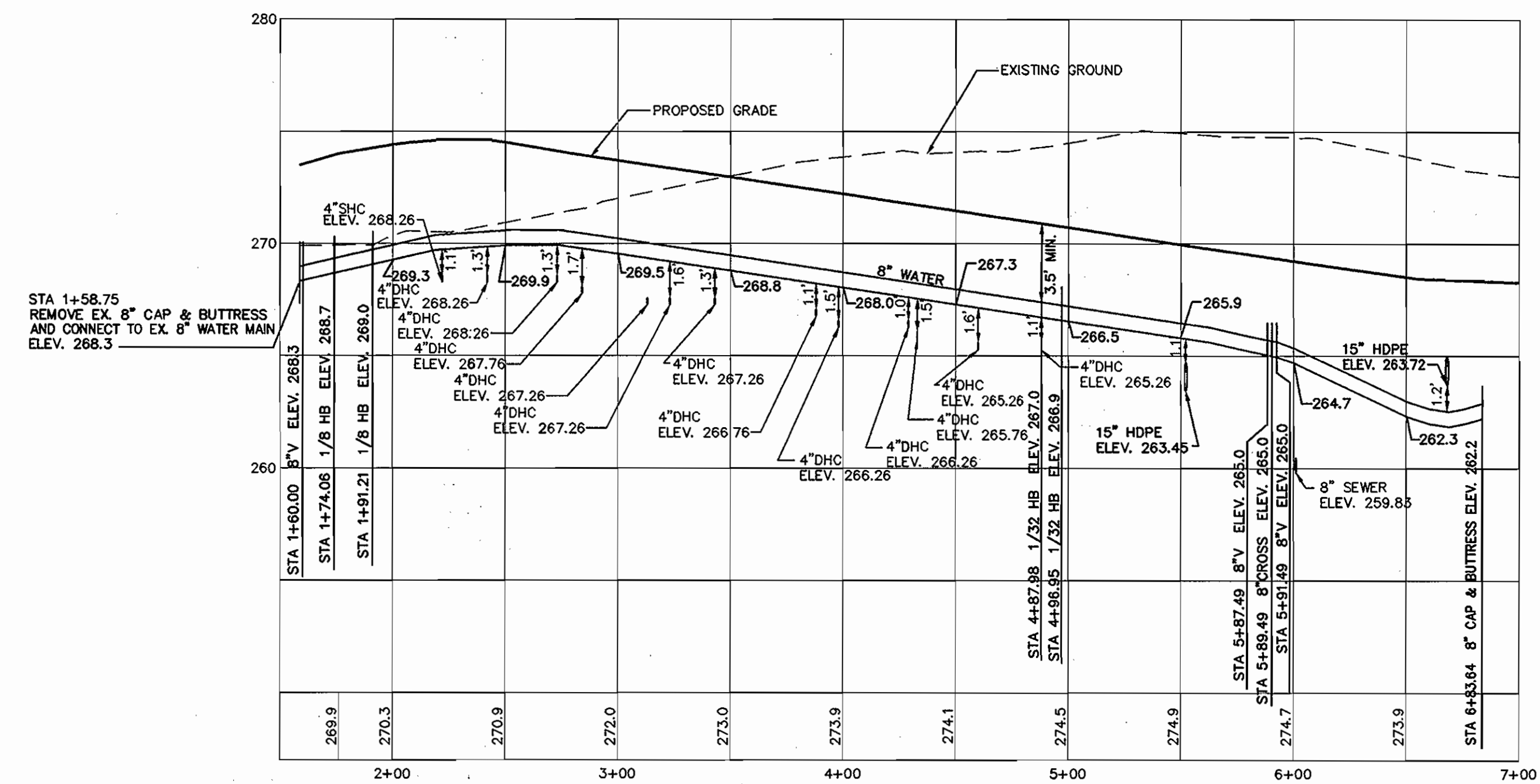
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert Berman</i> 6-15-06 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> 6/20/06 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	MILDENBERG BOENDER & ASSOC., INC. Engineers Planners Surveyors 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21032 (410) 397-0296 Balt. (301) 621-5521 Wash. (410) 397-0286 Pa.	engineering SJD illustration SJD approval JBM project WSA 1 date APR 2005	WATER PLAN REMOVE WATER MAIN FROM DEEP FALLS WAY, MAIDEN POINT PLACE, AND P/O FOX HARBOR WAY. REVISE APPURTENANCE CHARTS AS NECESSARY. APR 2005 BY NO. REVISION DATE	VILLAGE TOWNS, PHASE II, AREA 2 UNITS 1 THRU 82 & 113 THRU 177 CONTRACT NO. 14-4263-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	scale 1" = 50' 2 of 3
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WATER MAIN - FOX HARBOR WAY - STA 0+04 TO STA 3+00
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'



WATER MAIN - OAK GROVE WAY - STA 4+81.59 TO STA 6+23.26
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'



WATER MAIN - HOLLY SPRINGS LANE - STA 1+58.75 TO STA 6+83.64
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

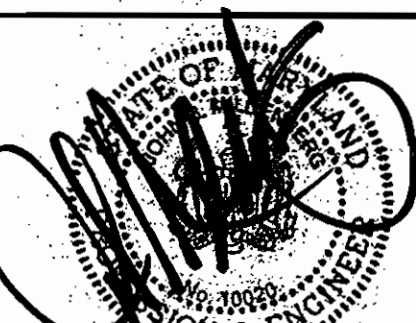
PLAN REFERENCE NUMBERS
 SDP-03-102

02-058.dwg (plotted) via V065-11-10-05 4-11-05 3:01:03 pm EST

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 6-15-06

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: 6/20/06

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0286 Ball. (301) 621-5521 Wash. (410) 997-0298 Fax



engineering	SJD				
illustration	SJD				
approval	JBM				
project	MBA	1	REMOVE PROFILES FOR DEEPENING MARDEN POINT PLACE, AND P/O FOX HARBOR WAY	5/06	
date	JAN 2006	BY	NO.		

WATER & SEWER PROFILES
 600' SCALE MAP NO. 43
 BLOCK NO. 3

VILLAGE TOWNS, PHASE II, AREA 2
 UNITS 1 THRU 82 & 113 THRU 177
 CONTRACT NO. 14-4263-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND