

QUANTITIES

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

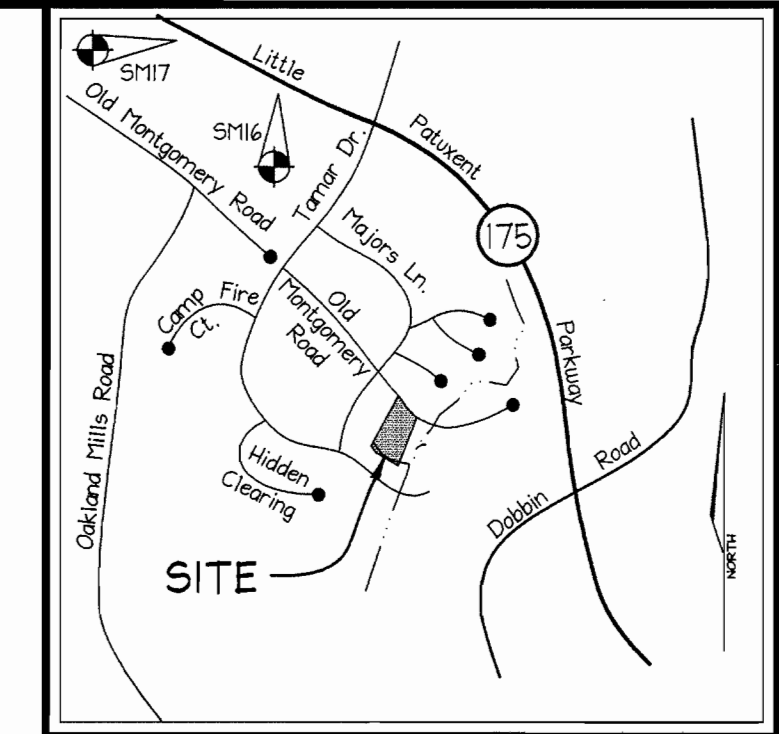
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
Standard MH	5	5		ATLANTIC CONCRETE PRODUCTS, INC.
8" Sewer	517LF	502 L.F.	SDR-35 PVC	JM MFG. CO. - BELAIR RD. SUPPLY
4" SHC	216LF	194 L.F.	SDR-35 PVC	JM MFG. CO. - BELAIR RD. SUPPLY
No. DHC	2	2	ASTM 3034	JM MFG. CO. - BELAIR RD. SUPPLY
No. SHC	6	6	ASTM 3034	JM MFG. CO. - BELAIR RD. SUPPLY
No. MH Connections	2	2	ASTM 3034	JM MFG. CO. - BELAIR RD. SUPPLY
1" AHC	20LF	100 L.F.	COPPER	READING - BELAIR RD. SUPPLY
1 1/2" TWHC	28LF	19 L.F.	COPPER	READING - BELAIR RD. SUPPLY
6" Water	305LF	314 L.F.	CL 52	U.S. PIPE - BELAIR RD. SUPPLY
8" Water	56LF	41 L.F.	CL 52	U.S. PIPE - BELAIR RD. SUPPLY
12" Water	267LF	259 L.F.	CL 52	U.S. PIPE - BELAIR RD. SUPPLY
Fire Hydrant	1	1	5'-0"	MUELLER - BELAIR RD. SUPPLY
12" 1/8 HB	2	2	MJ	U.S. PIPE - BELAIR RD. SUPPLY
12"x8" Tee	1	1	MJ	U.S. PIPE - BELAIR RD. SUPPLY
No. TWHC	4	4	COPPER	MUELLER - BELAIR RD. SUPPLY
No. WHC	2	2	COPPER	MUELLER - BELAIR RD. SUPPLY
8"x6" Reducer	1	1	MJ	U.S. PIPE - BELAIR RD. SUPPLY
6" Cap & Buttress	1	1	MJ	U.S. PIPE - BELAIR RD. SUPPLY
12" Cap & Buttress	1	1	MJ	U.S. PIPE - BELAIR RD. SUPPLY
1-1/2" Blow-off	1	1	H-15000 CCXFL	MUELLER - BELAIR RD. SUPPLY
8" Valve	1			
12" Valve	1	1	RSOR GATE	MUELLER - BELAIR RD. SUPPLY

SEWELL'S GLEN PUBLIC WATER AND SEWER PLANS

HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3750-D

BENCH MARKS

HOWARD COUNTY CONTROL NUMBERS(NAD 83):
 SM16 N 562339.792 E 1360762.462 Elev.+431.27
 SM17 N 562691.342 E 1360139.606



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- PART I**
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

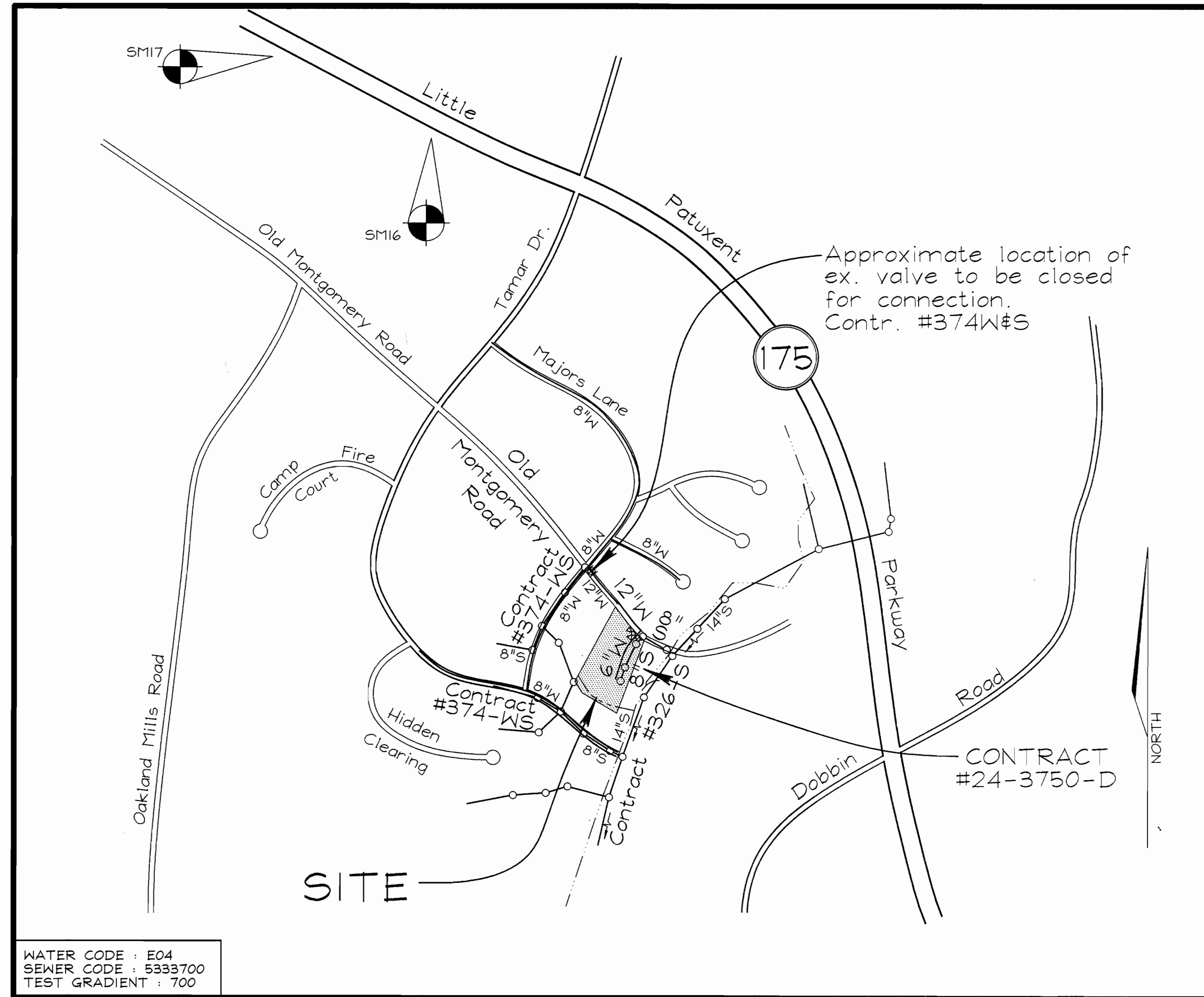
C & P TELEPHONE	597-8585
A.T. & T.	865-3803
STATE HIGHWAY ADMINISTRATION	531-5533
B.G. & E. CO. CONTRACTOR SERVICES	850-4620
B.G. & E. CO. UNDER GROUND DAMAGE CONTROL	787-9048
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	798-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	313-4900
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- WATER CONNECTION WITHIN OLD MONTGOMERY ROAD TO BE OPEN CUT. CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIMES.

PART III - SEWER

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



WATER CODE : E04
 SEWER CODE : 5333700
 TEST GRADIENT : 700

Type of Building :	Single Family Detached
No. of Lots/Parcels :	10
No. of single Water House Connections :	2
No. of twin Water House Connections :	2
No. of Sewer House Connections :	8
Drainage Area :	Long Reach
Treatment Plant :	Little Patuxent Water Reclamation Plant

LOCATION PLAN
SCALE : 1"=600'

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN F-99-143

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

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

[Signature]
 SOIL CONSERVATION DISTRICT
 DATE: 3/8/00

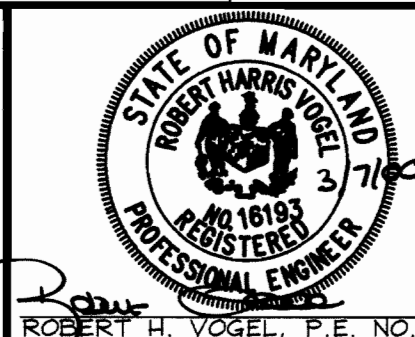
[Signature]
 H.C. SOIL CONSERVATION DISTRICT
 DATE: 3/8/00

THESE PLANS SUPERSEDE PREVIOUS PLANS APPROVED ON OCTOBER 7, 1999

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature]
 CHIEF, BUREAU OF UTILITIES
 DATE: 3-9-00

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/10/00

VOGEL & ASSOCIATES
 ENGINEERS-SURVEYORS-PLANNERS
 3891 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966



DES:	PS				
DRN:	PS				
CHK:	JCO				
DATE:	March 2000				
BY:	NO.	AS-BUILT INFORMATION	4-20-00		
		REVISION	DATE		

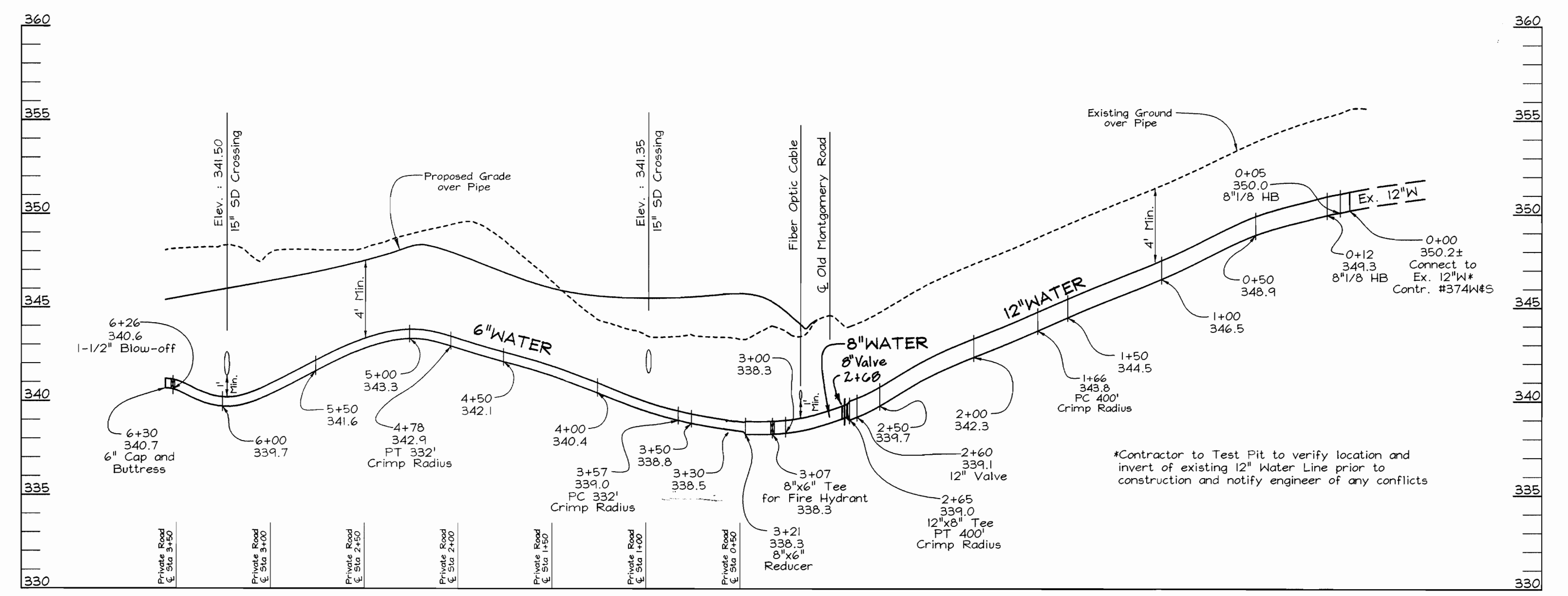
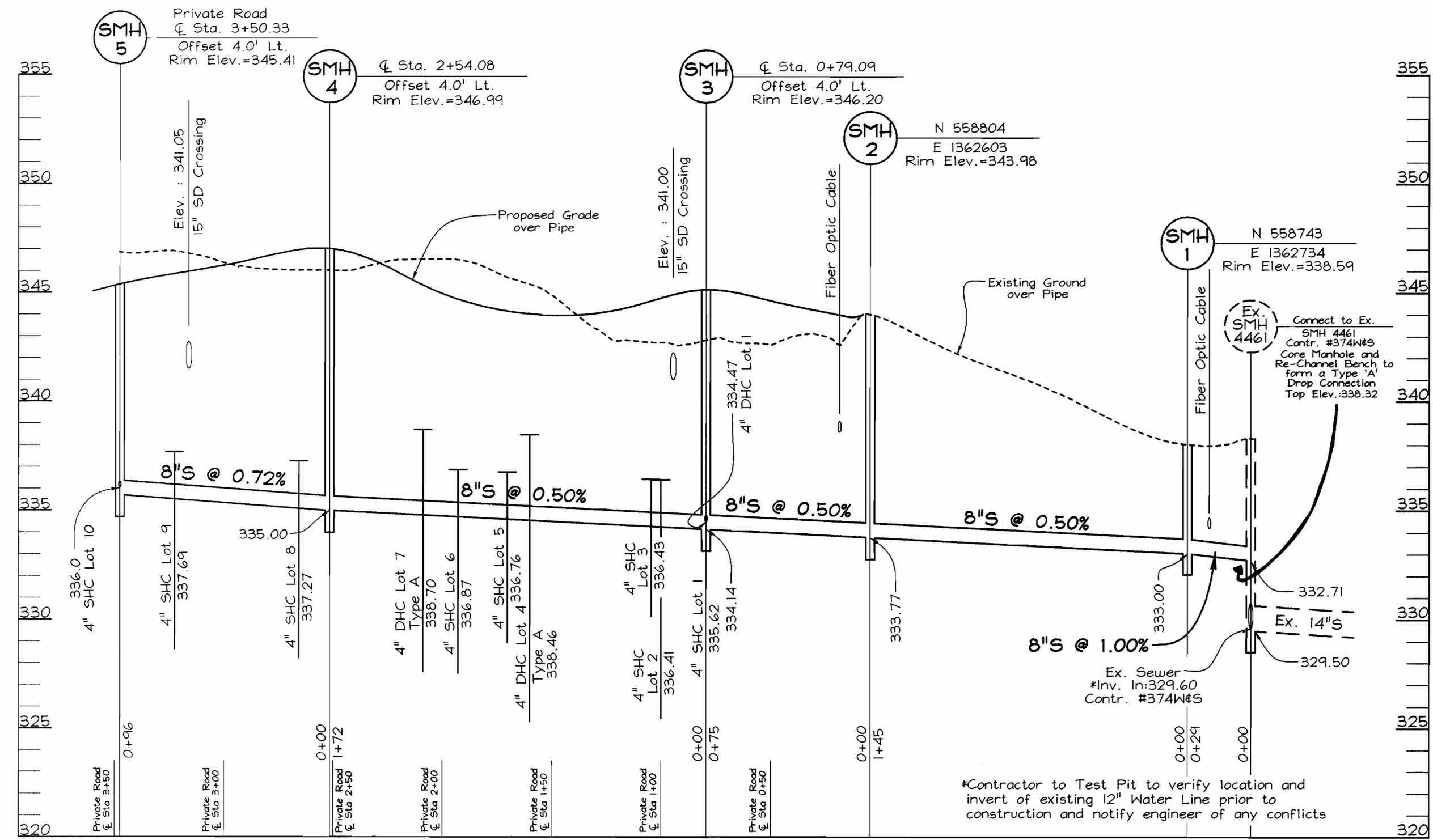
TITLE SHEET

600' SCALE MAP NO. 36 BLOCK NO. 11

SEWELL'S GLEN
 CONTRACT No. 24-3750-D

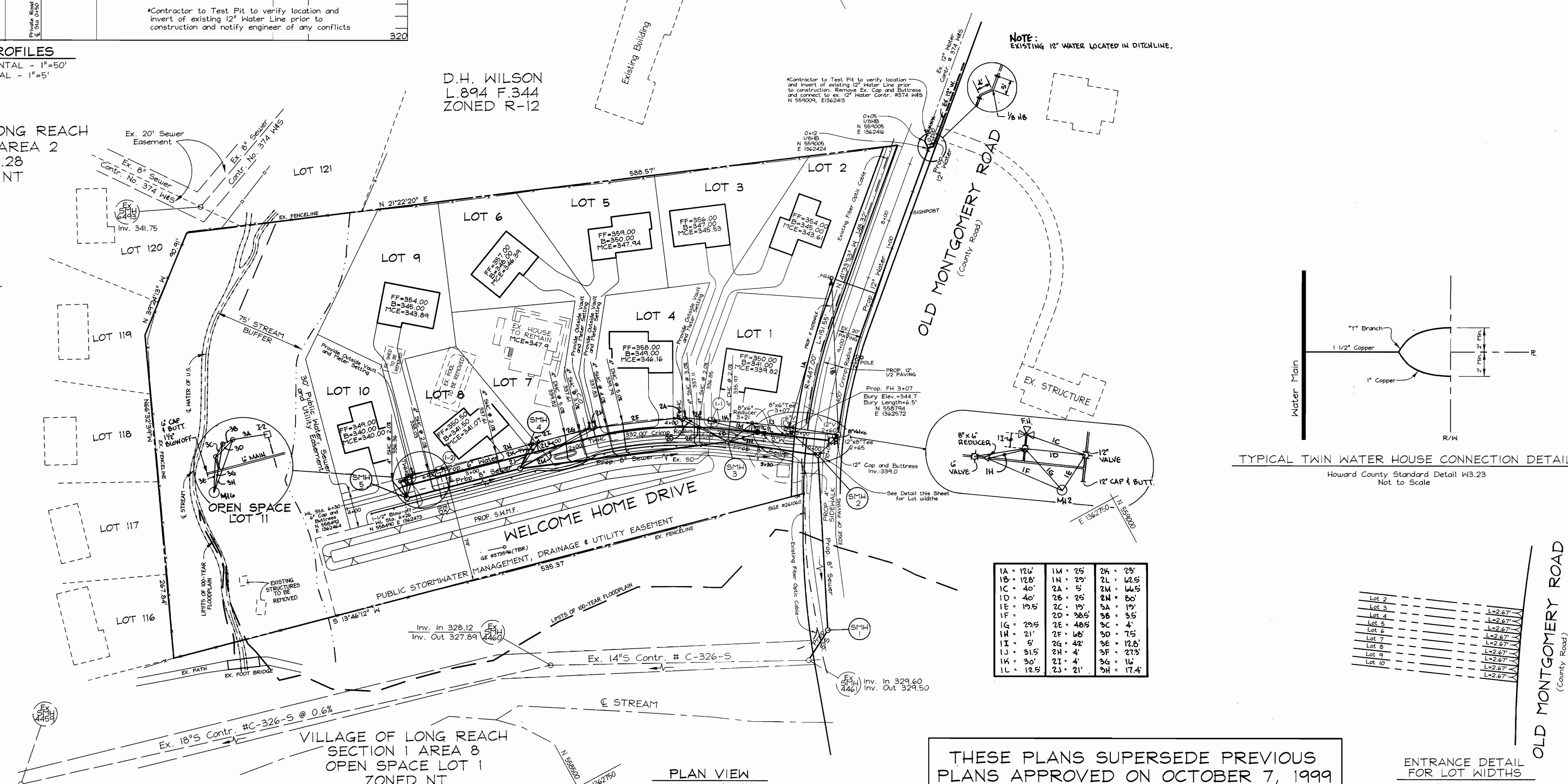
TAX MAP #36 PARCELS NO. 265
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 2



VILLAGE OF LONG REACH
SECTION I AREA 2
P.821 F.28
ZONED NT

D.H. WILSON
L.894 F.344
ZONED R-12



THESE PLANS SUPERSEDE PREVIOUS
PLANS APPROVED ON OCTOBER 7, 1999

TYPICAL TWIN WATER HOUSE CONNECTION DETAIL
Howard County Standard Detail W3.23
Not to Scale

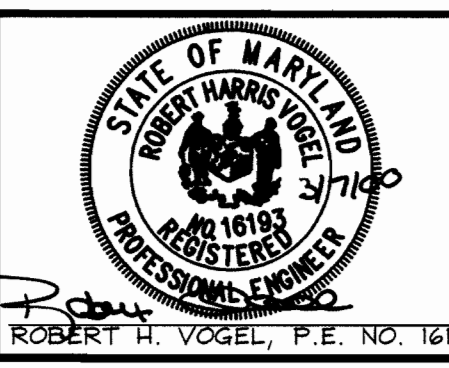
1A - 12'6"	1M - 25'	2A - 23'
1B - 12'8"	1N - 23'	2L - 22.5'
1C - 40'	2A - 5'	2M - 24.5'
1D - 40'	2B - 25'	2N - 50'
1E - 19.5'	2C - 19'	3A - 19'
1F - 20'	2D - 28.5'	3B - 3.5'
1G - 29.5'	2E - 48.5'	3C - 4'
1H - 21'	2F - 60'	3D - 7.5'
1I - 5'	2G - 42'	3E - 12.5'
1J - 31.5'	2H - 4'	3F - 21.5'
1K - 30'	2I - 4'	3G - 14'
1L - 12.5'	2J - 21'	3H - 17.4'

Lot 2		
Lot 3		
Lot 4		
Lot 5		
Lot 6		
Lot 7		
Lot 8		
Lot 9		
Lot 10		

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-9-00
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
3/10/00
DATE

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DES:	PS				
DRN:	PS				
CHK:	JCO				
DATE:	March 2000				
BY:	NO.	MB	1	AS-BUILT INFORMATION	4-20-00
REVISION:					

**WATER AND SEWER
PLAN AND PROFILES**
600' SCALE MAP NO. 36 - BLOCK NO. 11

SEWELL'S GLEN
LOTS 1 THRU 10 AND
OPEN SPACE LOT 11
CONTRACT 24-3750-D
TAX MAP NO. 36
6TH ELECTION DISTRICT
PARCEL NO. 265
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 2