


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 SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WAS COMPLETED BY MILDENBERG, BOENDER AND ASSOC., INC. ON OR ABOUT 03/2006.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 161A AND 16E1.
ALL VERTICAL CONTROLS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 161A AND 16E1.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 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 LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN IN THESE PLANS:

A.T.&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	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.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE 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) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- SEDIMENT CONTROL TO BE PROVIDED BY SDP-07-087
- STORM DRAIN SYSTEM INDICATED FOR INFORMATIONAL PURPOSES ONLY, SEE SDP-07-084 FOR CONSTRUCTION DATA.
- COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

PART III - SEWER

- ALL SEWER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- 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 WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

WATER AND SEWER PLAN

TURF VALLEY, LORIENT

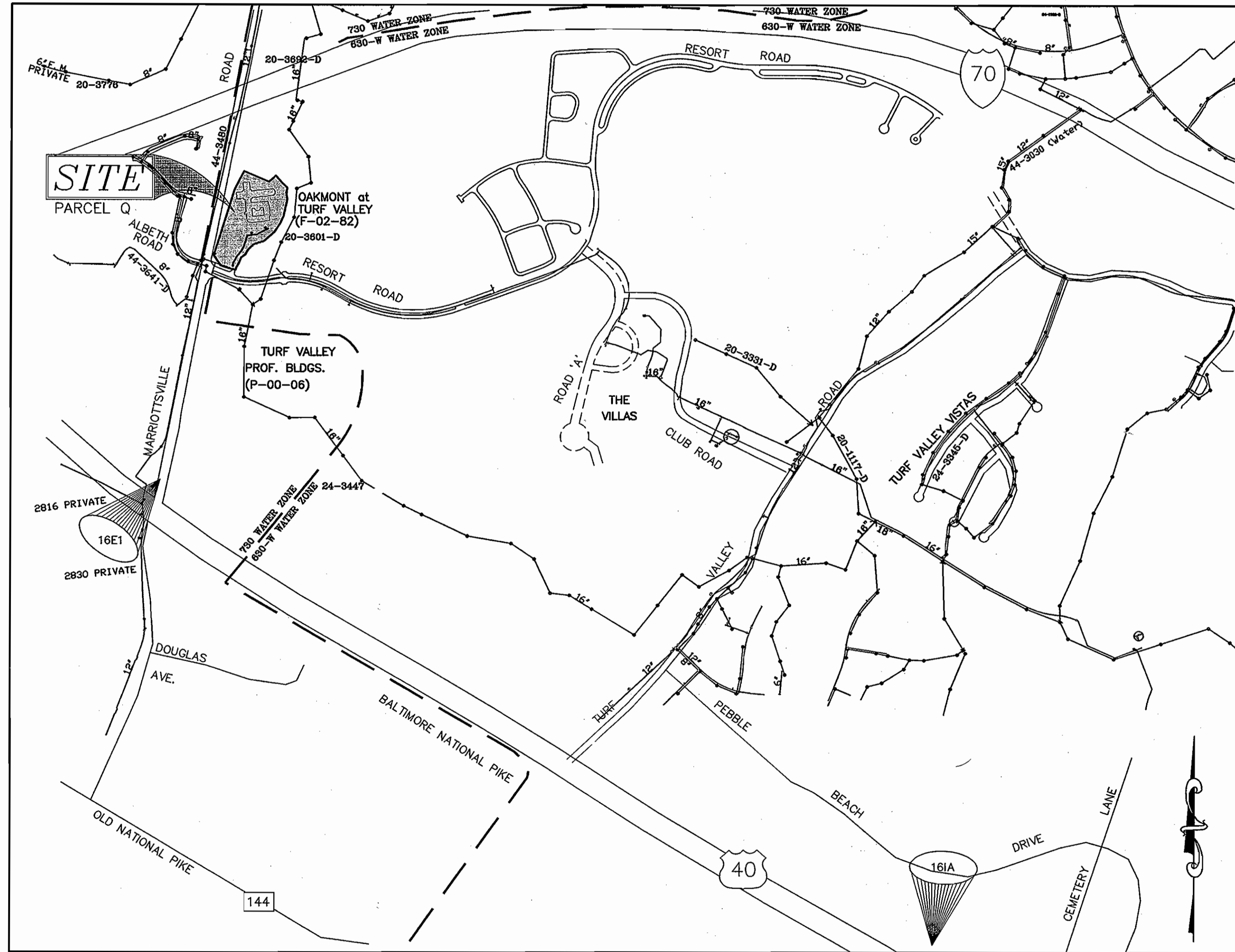
NURSING HOME & ASSISTED LIVING FACILITY

OAKMONT AT TURF VALLEY, PARCEL Q

PLAT 18773 - 18775

HOWARD COUNTY, MARYLAND

CONTRACT NO. 44-4482-D



HOWARD COUNTY GEODETIC SURVEY CONTROLS		
COUNTY MONUMENT	NORTHING, EASTING	ELEVATION
161A	N 589509.3660, E 1346343.6300	463.0850'
16E1	N 593250.9600, E 1340192.7000	463.9810'

TYPE OF BUILDING	NURSING HOME & ASSISTED LIVING FACILITY
NO. OF LOTS/PARCELS:	1
NO. OF WATER HOUSE CONNECTIONS:	1
NO. OF SEWER HOUSE CONNECTIONS:	0
SEWER SHED:	LITTLE PATUXENT RIVER
TREATMENT PLANT:	LPWDMC

QUANTITIES				
NAME OF UTILITY OF CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WHC	10 LF	8 LF	DIP CL-54	GRIFFIN PIPE / BRS
6" W	33 LF	32 LF	" "	" "
8" W	428 LF	422 LF	" "	" "
FIRE HYDRANT	2 EACH	2	5'x5'6" (ORANGE)	MOELLER / BRS
8"x6" TEE	2 EACH	2	HYDRANT TEE	SIGMA CORP / "
6" V	2 EACH	2	RSOR GATE VALVE	MOELLER / "
8" V	2 EACH	1	GATE VALVE	" "
8" S (D.I.P.)	5 LF	-		

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT (PLATS 18773-18775, SDP-07-084)

John K. Robertson 6/14/08
 SOIL CONSERVATION DISTRICT DATE

WATER CODE: H-06
 SEWER CODE: 5992000
 WATER TEST GRADIENT: 780

VICINITY MAP
 SCALE: 1" = 600'
 ADC MAP NO.11, GRID A3

OWNER
 MANGIONE ENTERPRISES OF TURF VALLEY LIMITED PARTNERSHIP
 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093
 PHONE (410) 825-8400

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Steve Clark 6/14/08
 CHIEF, BUREAU OF UTILITIES DATE

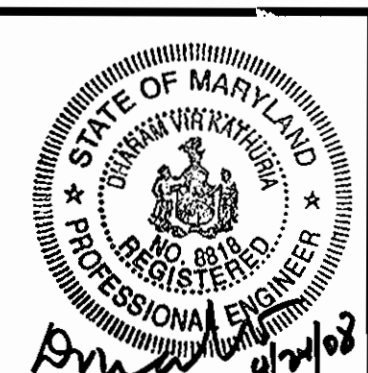
DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 6/16/08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

KCE ENGINEERING, INC.
 EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE (410) 203-9800 FAX (410) 203-9228
[Signature]

BY	NO.	REVISION	DATE
KCI	1	AS-BUILT DATA ADDED	1-14-09

COVER SHEET
 600' SCALE MAP NO. 16
 BLOCK NO. 10 & 16

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 8818. Expiration Date: 10/17/08



TURF VALLEY, LORIENT
 NURSING HOME & ASSISTED LIVING FACILITY
CONTRACT #44-4482-D
 OAKMONT AT TURF VALLEY, PARCEL Q
 PLAT 18773 - 18775
 TAX MAP 16 - P/O PARCEL 8- GRID 16 & 17;
 POD 1 per S-86-13 (4th AMENDED)
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

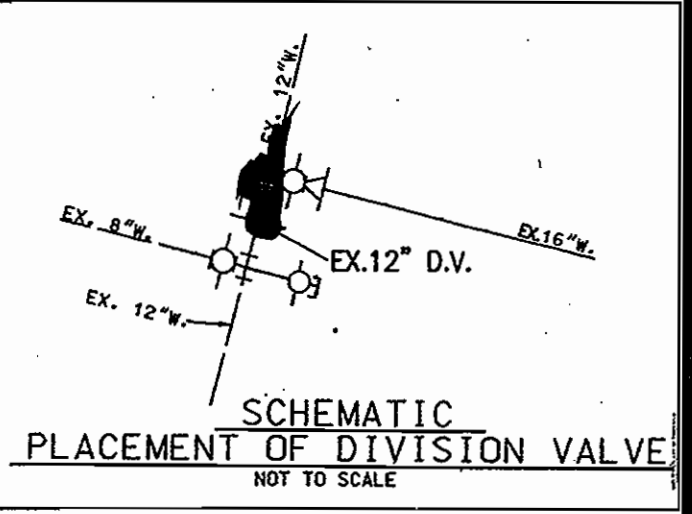
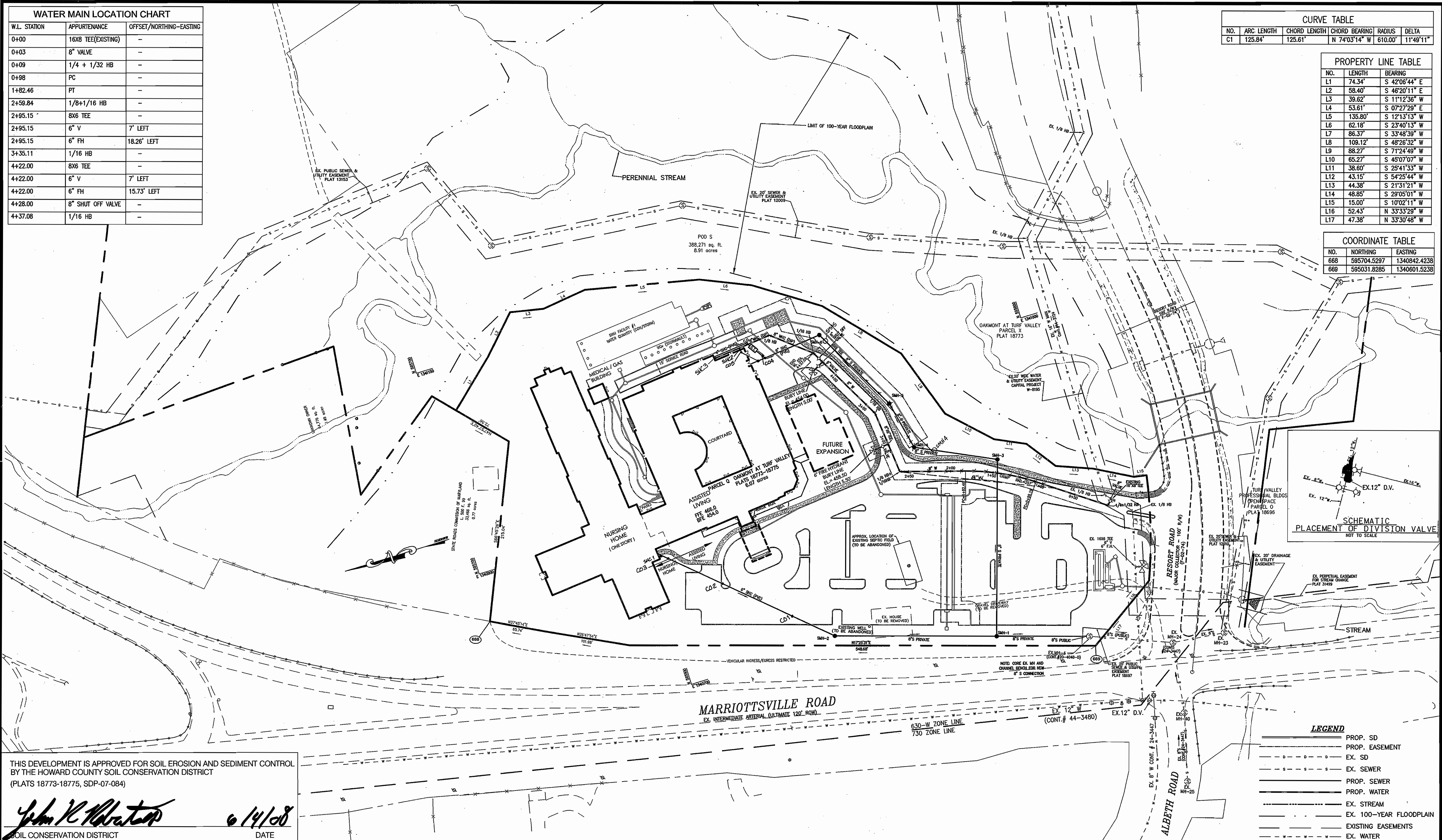
SCALE AS SHOWN
 DATE 04/21/2005
 SHEET 1 OF 3

WATER MAIN LOCATION CHART		
W.L. STATION	APPURTENANCE	OFFSET/NORTHING-EASTING
0+00	16X8 TEE(EXISTING)	-
0+03	8" VALVE	-
0+09	1/4 + 1/32 HB	-
0+98	PC	-
1+82.46	PT	-
2+59.84	1/8+1/16 HB	-
2+95.15	8X6 TEE	-
2+95.15	6" V	7' LEFT
2+95.15	6" FH	18.26' LEFT
3+35.11	1/16 HB	-
4+22.00	8X6 TEE	-
4+22.00	6" V	7' LEFT
4+22.00	6" FH	15.73' LEFT
4+28.00	8" SHUT OFF VALVE	-
4+37.08	1/16 HB	-

CURVE TABLE					
NO.	ARC LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS	DELTA
C1	125.84'	125.61'	N 74°03'14" W	610.00'	11°49'11"

PROPERTY LINE TABLE		
NO.	LENGTH	BEARING
L1	74.34'	S 42°06'44" E
L2	58.40'	S 46°20'11" E
L3	39.62'	S 11°12'36" W
L4	53.61'	S 07°27'29" E
L5	135.80'	S 12°13'13" W
L6	62.18'	S 23°40'13" W
L7	86.37'	S 33°48'39" W
L8	109.12'	S 48°26'32" W
L9	88.27'	S 71°24'49" W
L10	65.27'	S 45°07'07" W
L11	38.60'	S 25°41'33" W
L12	43.15'	S 54°25'44" W
L13	44.38'	S 21°31'21" W
L14	48.85'	S 28°05'01" W
L15	15.00'	S 10°02'11" W
L16	52.43'	N 33°33'29" W
L17	47.38'	N 33°30'48" W

COORDINATE TABLE		
NO.	NORTHING	EASTING
668	595704.5297	1340842.4238
669	595031.8285	1340601.5238



THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT (PLATS 18773-18775, SDP-07-084)

John K. Abate 6/14/08
 SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
<i>John C. Green</i> 6/14/08 CHIEF, BUREAU OF UTILITIES DATE	<i>Mark D. ...</i> 6/6/08 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

KCE ENGINEERING, INC.
 EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE (410) 203-9800 FAX (410) 203-9228

BY	NO.	REVISION	DATE
		AS-BUILT DATA ADDED	1/5-09

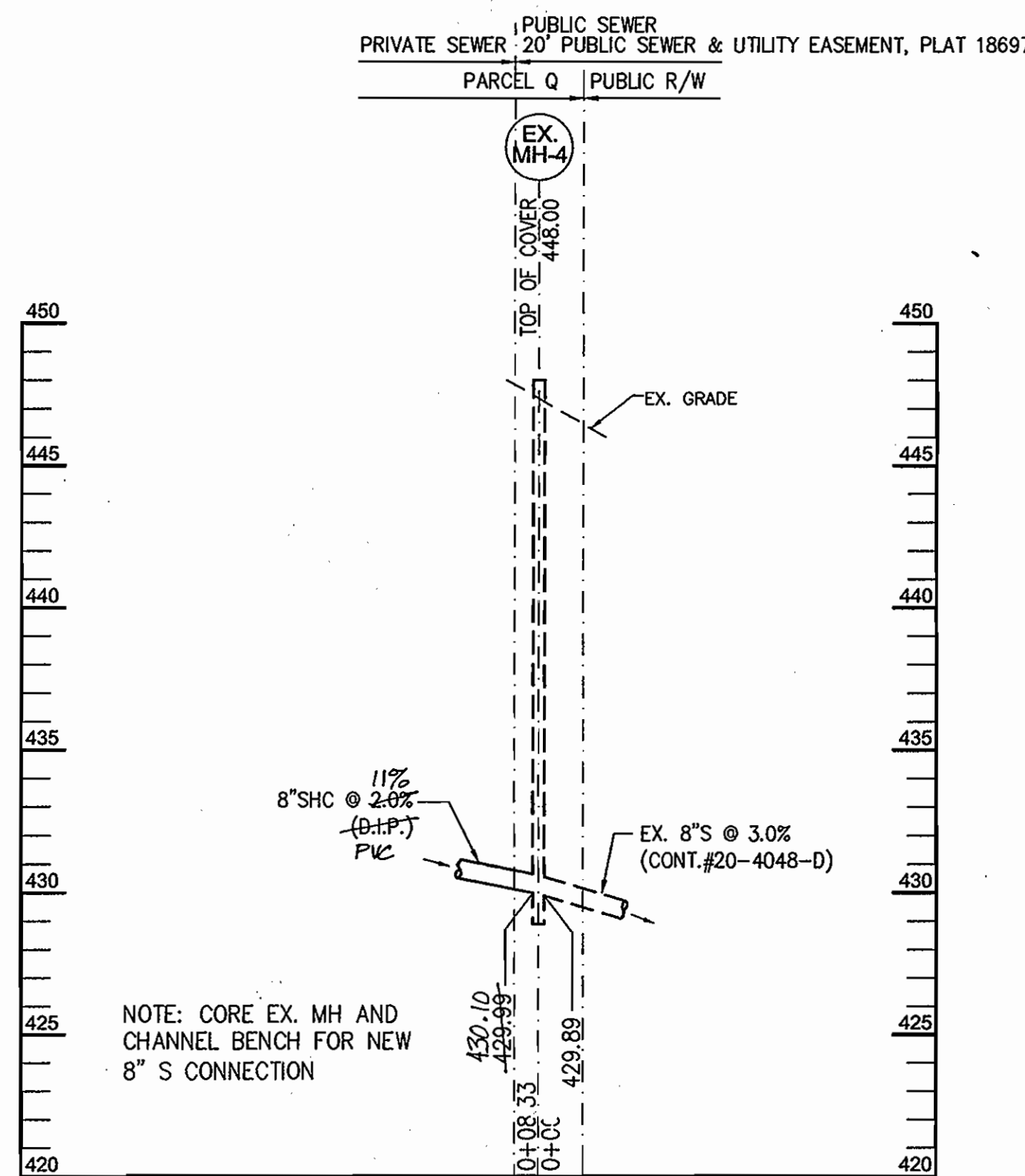
PLAN SHEET

600' SCALE MAP NO. 16
 BLOCK NO. 10 & 16

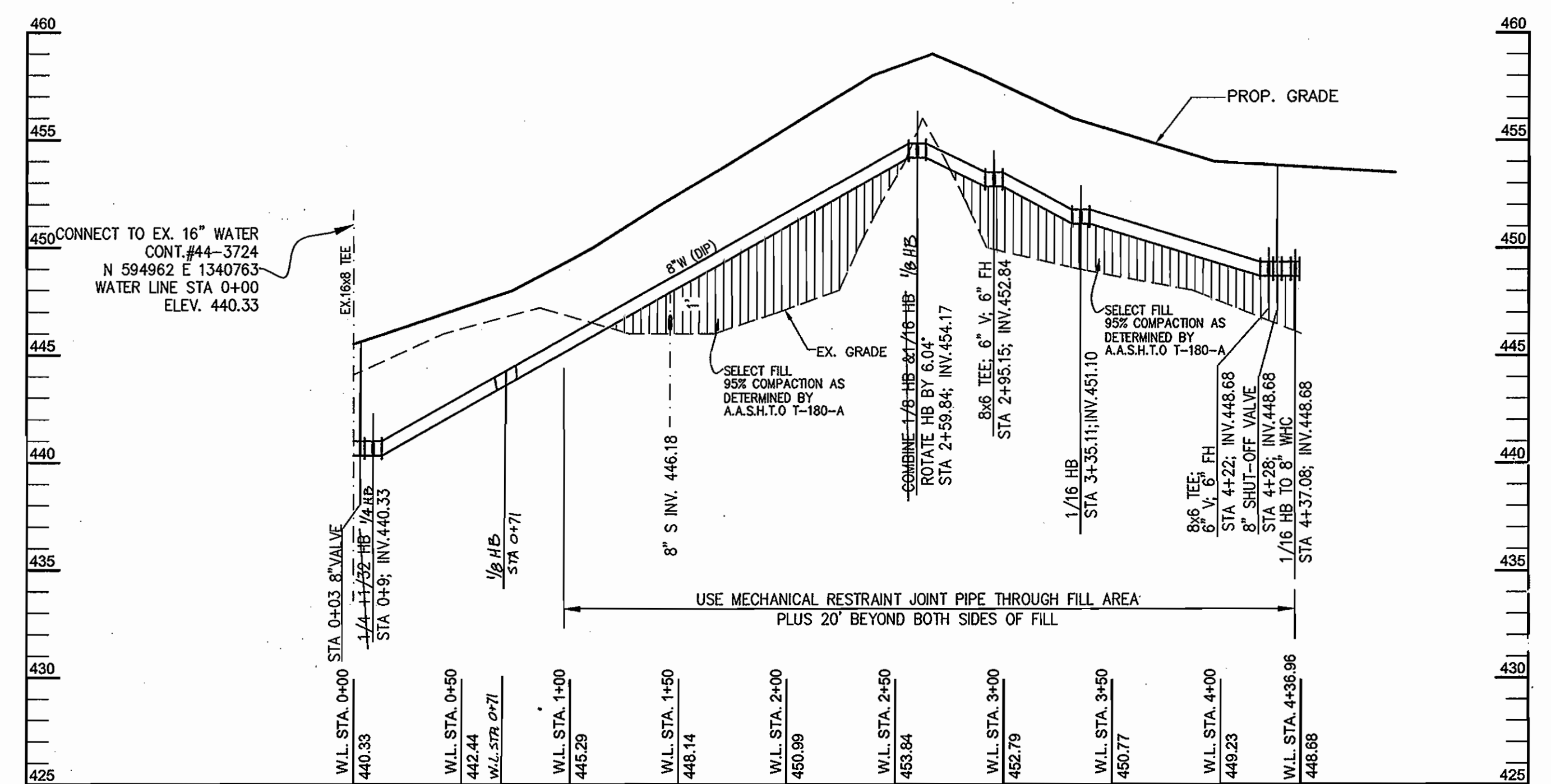
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 8818. Expiration Date: 10/17/08.

TURF VALLEY, LORIE
 NURSING HOME & ASSISTED LIVING FACILITY
CONTRACT #44-4482-D
 OAKMONT AT TURF VALLEY, PARCEL Q
 PLAT 18773 - 18775
 TAX MAP 16 - P/O PARCEL 8 - GRID 16 & 17;
 POD I per S-86-13 (4th AMENDED)
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE 1"=50'
 DATE 04/21/2008
 SHEET 2 OF 3



PROFILE OF PUBLIC/PRIVATE SEWER CONNECTION
SCALE 1"=50' H, 1"=5' V



WATER PROFILE
SCALE 1"=50' H, 1"=5' V

WATER AS-BUILT DATA

FROM	TO	DIST.
FH 1	4" WV	17.1'
FH 2	8" WV	15.7'
"	6" WV	14.3'
WH 2	FH 2	94'
"	SMH 5	98'
FH 1	MH 4	61.7'
WV @ FH 1	"	46.6'
FH 2	MH 5	32.4'
WV @ FH 2	"	21.7'
8" WV	"	19.7'

SEWER AS-BUILT DATA

FROM	TO	DIST.
SMH 5	SHC 2	21.9'
"	SHC 3	28.2'
CO 3	SHC 1	13'
WH 2	SHC 2	16.2'
"	SHC 3	21.5'
SMH 5	G.T. COVER 1	61.5'
"	" 2	74.5'
MH 2	CO 1 (CLEAN)	76.3'
CO 1	CO 2	73'
CO 2	CO 3	72.7'
CO 3	SHC 1	13'
MH 5	CO 4	61'
"	CO 5	73.5'
"	CO 6	119.7'

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John K. Roberts 6/14/08
SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Steve C. Cline 4/16/08
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Michael J. ... 4/16/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

KCE ENGINEERING, INC.
EXECUTIVE CENTER
3300 NORTH RIDGE ROAD, SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE (410) 203-9800 FAX (410) 203-9228
BY *KCI* AS-BUILT DATA ADDED 1-15-09

NO.	REVISION	DATE
1	AS-BUILT DATA ADDED	1-15-09

PROFILE
600' SCALE MAP NO. 16
BLOCK NO. 10 & 16

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DATE 04/21/2008
SHEET 3 OF 3