

# WATER & SEWER EXTENSIONS

## DEBRA COURT

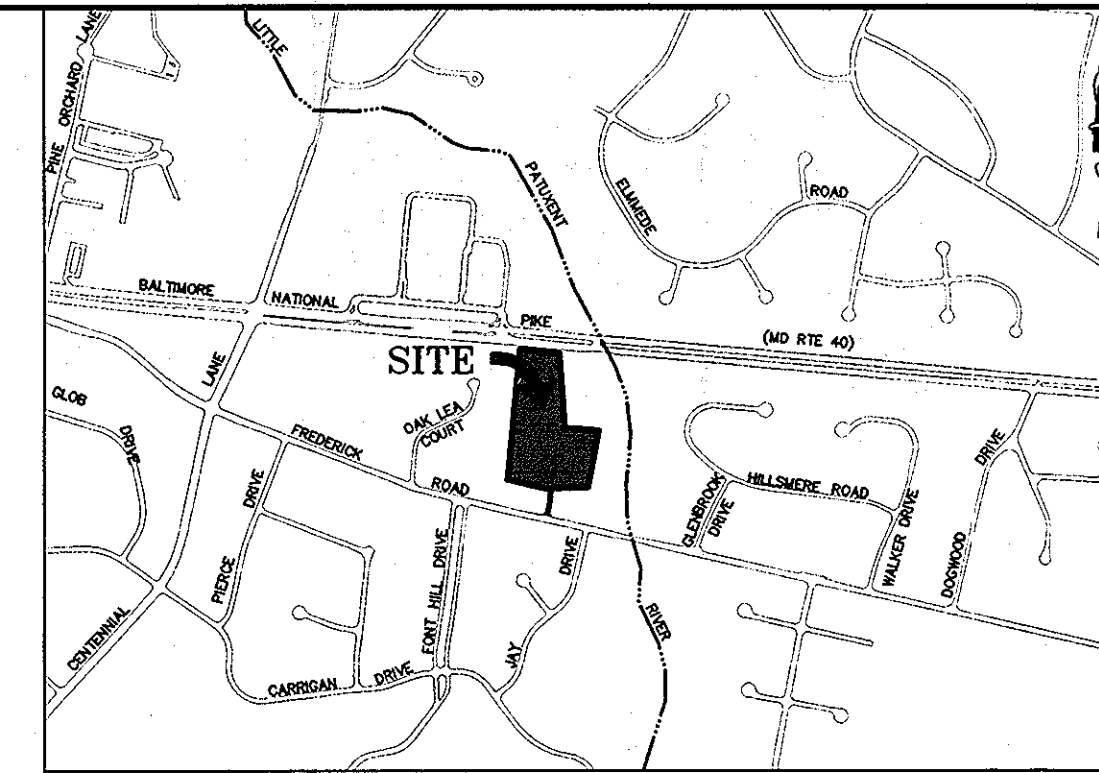
### LOTS 1-12

## 2ND ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND

### CONTRACT NO. 24-4525-D

SHEET INDEX	
SHEET	TITLE
1	TITLE SHEET
2	PLAN VIEW
3	PROFILES



LOCATION MAP  
ADC MAP: 11  
COORD: H-7

**BENCHMARK:**  
1"=1000'  
GEODETIC CONTROL 24AA: STANDARD HOWARD COUNTY STAMPED DISC NEAR THE ENTRANCE TO THE ENCHANTED FOREST SHOPPING CENTER  
N 587,380.458 E 1,352,603.488  
ELEV. 386.37 (NAVD 88)

GEODETIC CONTROL 24B5: STANDARD HOWARD COUNTY STAMPED DISC LOCATED AT THE INTERSECTION OF MD RTE 40 AND DOGWOOD DR.  
N 586,956.233 E 1,356,570.840  
ELEV. 390.04 (NAVD 88)

CONTRACTOR: BOSLEY CONSTRUCTION

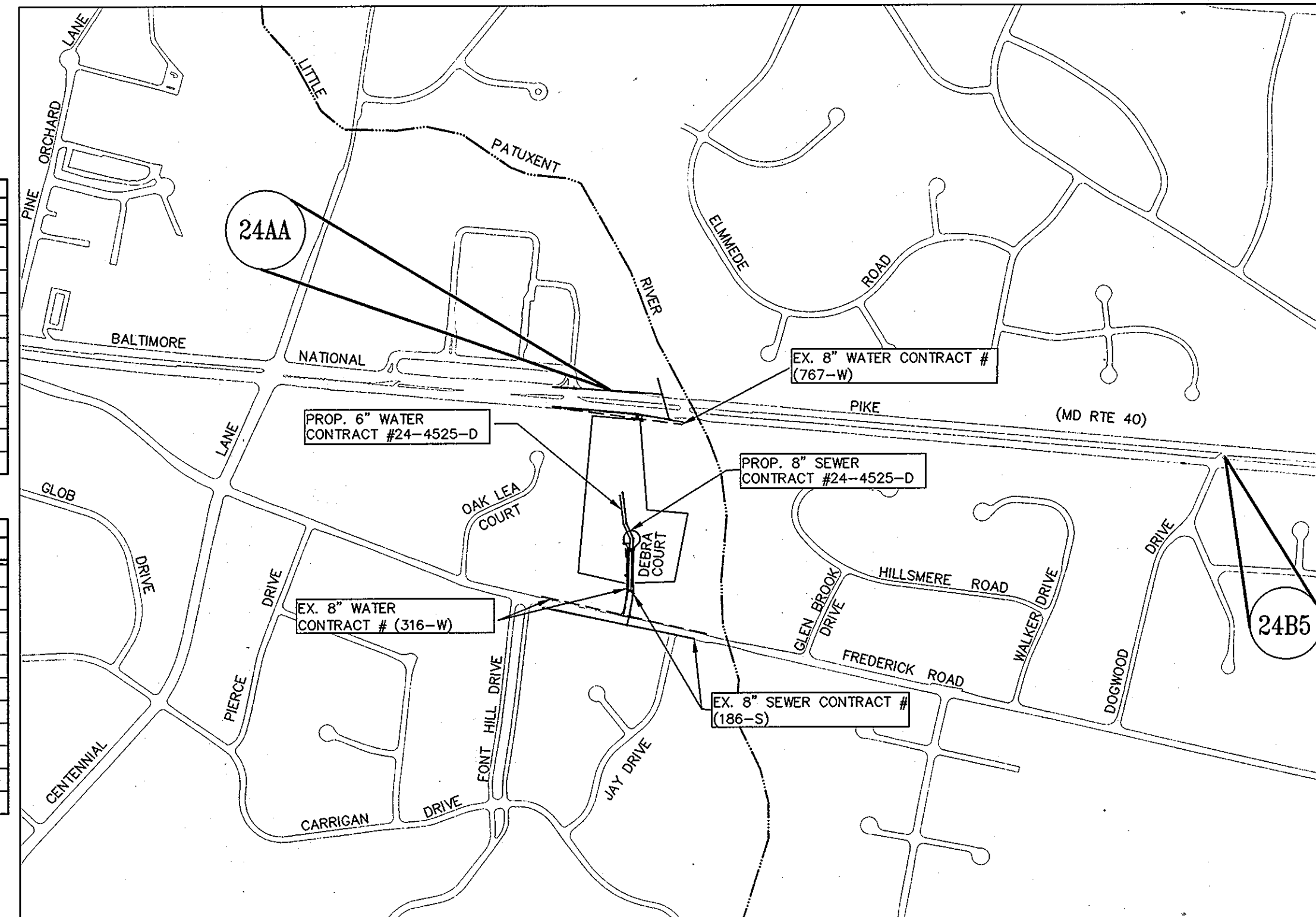
		QUANTITIES			
W.H.C. 1/2" SERVICE SADDLE	QUANTITIES ESTIMATED	TYPE	MANUFACTURER/SUPPLIER		
W.H.C. 1/2" SERVICE SADDLE	40 LF	4 EA.	306 DB ROMAC IND./BELAIR ROAD SUPPLY		
W.H.C. 1/2" SERVICE SADDLE	246 LF	7 EA.	DR 14 J.M. EAGLE/BELAIR ROAD SUPPLY		
W.H.C. 1/2" SERVICE SADDLE	290 LF	110 L.F.	DR 14 J.M. EAGLE/BELAIR ROAD SUPPLY		
W.H.C. 1/2" SERVICE SADDLE	290 LF	248 L.F.	DR 14 J.M. EAGLE/BELAIR ROAD SUPPLY		
W.H.C. 1/2" SERVICE SADDLE	290 LF	292 L.F.	DR 14 J.M. EAGLE/BELAIR ROAD SUPPLY		
6" VALVE	1	2 EA.	MJ MUELLER/BELAIR ROAD SUPPLY		
8" 1/8" HORIZ. BEND	2	2 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
6" 1/16" HORIZ. BEND	1	1 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
6" 1/32" HORIZ. BEND	1	1 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
8" X 6" FHT	2	2 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
FIRE HYDRANT - 5'5" BURY	1	1 EA.	A-423 MUELLER/BELAIR ROAD SUPPLY		
FIRE HYDRANT - 6'0" BURY	1	1 EA.	A-423 MUELLER/BELAIR ROAD SUPPLY		
6" CAP AND BUTTRISS	1	1 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
1 1/2" DRAIN	1	1 EA.	306 DB ROMAC IND./BELAIR ROAD SUPPLY		
HIGH DEFLECTION COUPLINGS	5	5 EA.	DR 21 CERTAINTEED/BELAIR ROAD SUPPLY		
8" SEWER (SDR 35)	284 LF	284 L.F.	SDR-35 J.M. EAGLE/BELAIR ROAD SUPPLY		
8" SEWER (D.I.P.)	225 LF	224 L.F.	TYTON CL54 GRIFFIN PIPE		
SEWER MANHOLE (STD)	4	4 EA.	CONTRACTORS PRECAST		
8" 6" REDUCER/0.6" INCREASER	2	2 EA.	MJ SIGMA/BELAIR ROAD SUPPLY		
CHECKBOX					
AS-BUILT DATE					
SURVEY AND DRAFTING DIVISION					
4" SDR 35 SHC LATERALS		334 L.F.	J.M. EAGLE/BELAIR ROAD SUPPLY		
1 1/2" W.H.C. K COPPER		347 L.F.	K COPPER CAMBRIDGE-LEE/BELAIR ROAD SUPPLY		
6" X 6" TAP SLEEVE		1 EA.	MJ STAINLESS ROMAC/BELAIR ROAD SUPPLY		

- SITE ANALYSIS**
- TOTAL AREA OF SITE: 6.838 ACRES
  - ZONING: R-20
  - EXISTING USE: RESIDENTIAL
  - PROPOSED USE: RESIDENTIAL
  - BUILDING DATA: N/A
  - PARKING DATA: N/A
  - IMPERVIOUS AREA:
  - DEED REFERENCE: 8918/276
  - RELATED FILES FOR THIS SITE: F80-81, BA 02-039C, S-04-02, P-08-003, F-09-070
  - ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
  - TAX MAP: 24, GRID: 3, PARCEL: 812, 918
  - AREA OF DISTURBANCE: 5.6 AC.±

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
SHEET	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1			
LOT 2			
LOT 3			
LOT 4			
LOT 5			
LOT 6			
LOT 7			
LOT 8			
LOT 9			
LOT 10			
LOT 11			

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
SHEET	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1			
LOT 2			
LOT 3			
LOT 4			
LOT 5			
LOT 6			
LOT 7			
LOT 8			
LOT 9			
LOT 10			
LOT 11			

- LEGEND**
- EXISTING FENCE ——— X ———
  - PROPERTY LINE ———
  - EX. GAS LINE ———
  - PROP. SEWER ———
  - PROPOSED WATER ———
  - PROPOSED STORM DRAIN ———
  - PROPOSED EASEMENT ———
  - PROPOSED INLET (YARD) □
  - PROPOSED INLET (TYPE A-10) □



VICINITY MAP  
1"=500'

WATER ZONE 550  
TEST GRADIENT: 700  
ZONE: R-20

TYPE OF BLDGS PROPOSED: RESIDENTIAL  
NO. OF LOTS/USERS: 11  
SEWER SUBSHED: LITTLE PATUXENT  
TREATMENT PLANT: LITTLE PATUXENT  
NUMBER OF W.H.C.: 11  
NUMBER OF S.H.C.: 11

- GENERAL NOTES:**
- PART I.**
- APPROXIMATE LOCATIONS 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 WERE PERFORMED IN MAY, 2002 AND SEPTEMBER, 2007 BY LITTLE & ASSOCIATES, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24AA AND NO. 24B5.  
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE LITTLE & ASSOCIATES, INC.
  - 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 CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM THE MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO SCHEDULE THE BRACING OF THE POLES.
  - FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
  - 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 ON THESE PLANS:  
AT&T .....1-800-252-1133  
BGE (CONSTRUCTION SERVICES) .....410-686-1400  
BGE (EMERGENCY) .....410-686-1400  
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 (A) OF THE HOWARD COUNTY CODE.
- PART II WATER**
- ALL WATER MAINS SHALL BE PVC C900 UNLESS OTHERWISE NOTED.
  - TOPS OF ALL WATER MAINS SHALL HAVE 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 SECTION 1005 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- PART III SEWER**
- ALL SEWER MAIN SHALL BE D.I.P. OR P.V.C. 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 WATER TIGHT FRAME AND COVER. STANDARD DETAIL CS.52 WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADES UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON F-09-070

**OWNER/DEVELOPER:**  
KIMBERLY HOMES ELLICOTT PROPERTIES, LLC.  
P.O. BOX 6194  
BALTIMORE, MARYLAND, 21231  
(410) 522-4987

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT (F-09-070)

*John R. Robertson* 4/14/09  
HOWARD SCD DATE

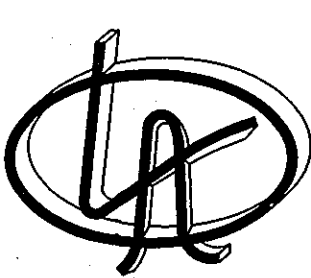
**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16019, EXPIRATION DATE: 5/8/2010.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*John C. Green* 11/5/09  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John C. Green* 11/5/09  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



**LITTLE & ASSOCIATES, INC.**  
ENGINEERS~LAND PLANNERS~SURVEYORS  
1055 TAYLOR AVENUE, SUITE 307  
TOWSON, MARYLAND 21286  
PHONE: (410)296-1636 FAX: (410)296-1639

DES: AMK			
DRN: PFS			
CHK: AMK	DK	AS BUILT DATA ADDED	12/2011
DATE: JUNE 15, 2009	L.I.	MODIFY WATER MAIN TO PVC, UPDATE W.M.	9/2/11
BY: NO.		REVISION	DATE

TITLE SHEET

600 SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

**AS BUILT**

WATER & SEWER EXTENSIONS

DEBRA COURT  
LOTS 1-12  
CONTRACT NO. 24-4525-D

TAX MAP 24 PARCELS: 918,812,1119 ZONE: R-20  
ELECTION DISTRICT 2 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN  
SHEET: 1 OF 3

**LEGEND**

EXISTING FENCE	---
PROPERTY LINE	---
EX. GAS LINE	---
PROP. SEWER	---
PROPOSED WATER	---
PROPOSED STORM DRAIN	---
PROPOSED EASEMENT	---
PROPOSED INLET (YARD)	□
PROPOSED INLET (TYPE A-10)	□

**SANITARY MANHOLE LOCATIONS**

SMH #	NORTHING	EASTING
1	N 586313.28	E 1353634.55
2	N 586575.90	E 1353646.95
3	N 586644.33	E 1353616.05
4	N 586793.52	E 1353598.70

**LINE TABLE - DEBRA COURT**

LINE	LENGTH	BEARING
L-1	64.65	N12°23'02"E

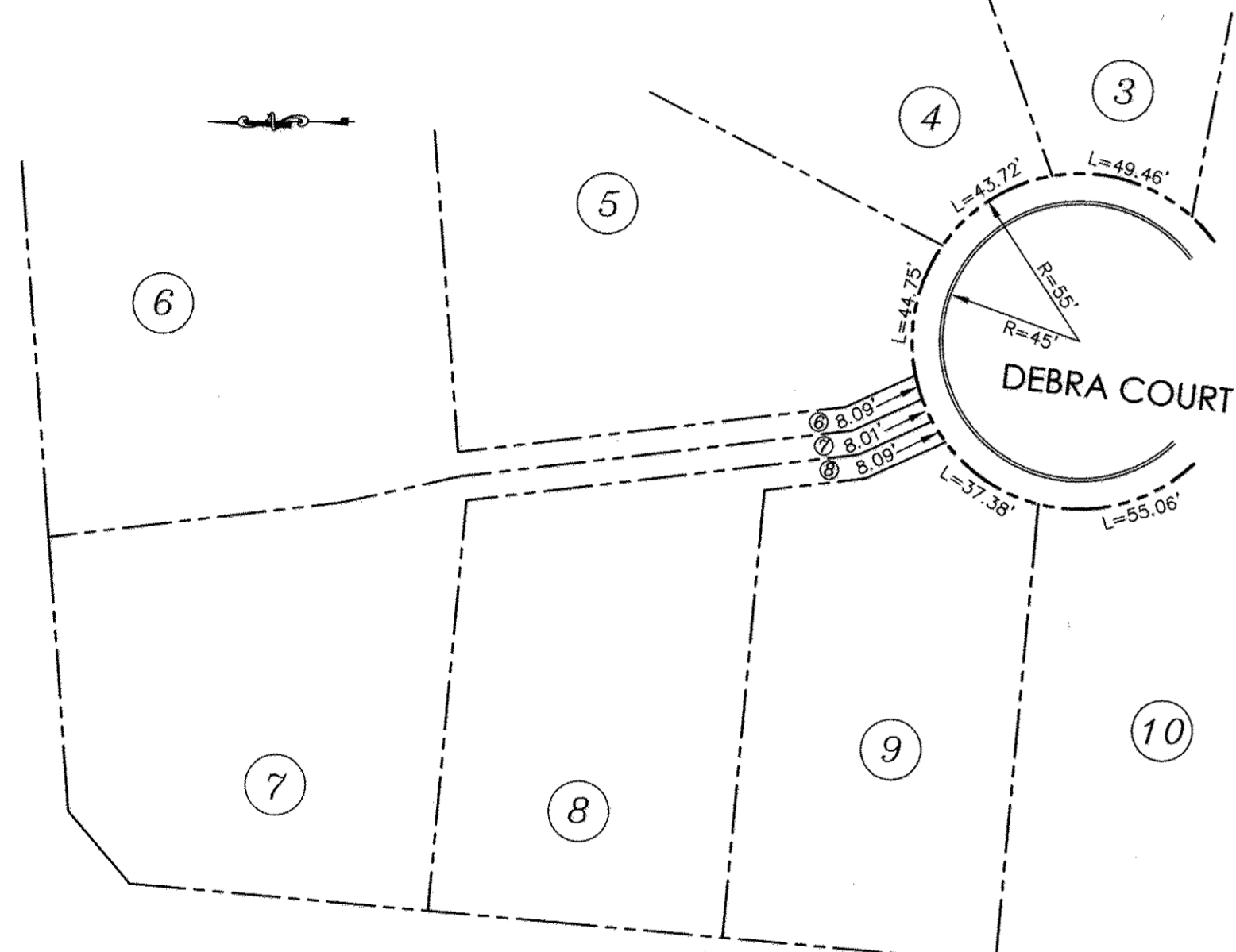
**CURVE TABLE - DEBRA COURT**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	488.22'	119.86'	60.23'	119.56'	N05°24'18"E	14°04'00"
C-2	1603.61'	218.36'	109.35'	218.19'	S02°16'22"W	7°48'06"

**WATER LINE DATA - NORTH ALONG DEBRA COURT**

STATION	DESCRIPTION	NORTHING	EASTING
0+00	8" X 6" REDUCER	N 586301.90	E 1353617.49
0+06	1/8" HORIZONTAL BEND	N 586305.10	E 1353617.69
0+14	1/8" HORIZONTAL BEND	N 586310.24	E 1353623.39
2+46	6" X 6" FHT	N 586542.86	E 1353625.64
2+52	8" X 6" REDUCER	N 586548.17	E 1353626.46
2+75	1/16" HORIZONTAL BEND	N 586572.01	E 1353626.76
3+49	1/32" HORIZONTAL BEND	N 586638.93	E 1353596.54
5+18	1.5" DRAIN	N 586807.04	E 1353577.00
5+21	6" CAP AND BUTTRISS	N 586810.02	E 1353576.65

EXISTING DWELLING (9910 FREDERICK ROAD): DWELLING TO BE REMOVED, EX. WHC TO BE ABANDONED, EX. SHC TO BE ABANDONED.



PIPESTEM DETAIL LOTS 5-9  
SCALE: 1"=50'

**NOTES:**  
 1. ALL FIRE HYDRANT LEADS SHALL BE D.I.C. CLASS 54.  
 2. ALL WATER MAINS SHALL BE 1/2" WALL P.C. 2000, UNLESS OTHERWISE SPECIFIED.  
 3. ALL WATER HOUSE CONNECTIONS SHALL BE COPPER PIPE.  
 4. ALL SEWER HOUSE CONNECTIONS SHALL BE HOWARD COUNTY DETAIL S2.12.  
 5. ALL SEWER CLEANOUTS SHALL BE HOWARD COUNTY DETAIL S2.22.  
 6. SEWER MANHOLES SHALL BE HOWARD COUNTY DETAIL S1.32.  
 7. EXISTING 6" VALVE TO BE CLOSED FOR WATER MAIN CONNECTION WILL EFFECT ONLY WATER CONNECTIONS ALONG DEBRA COURT.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON F-09-070

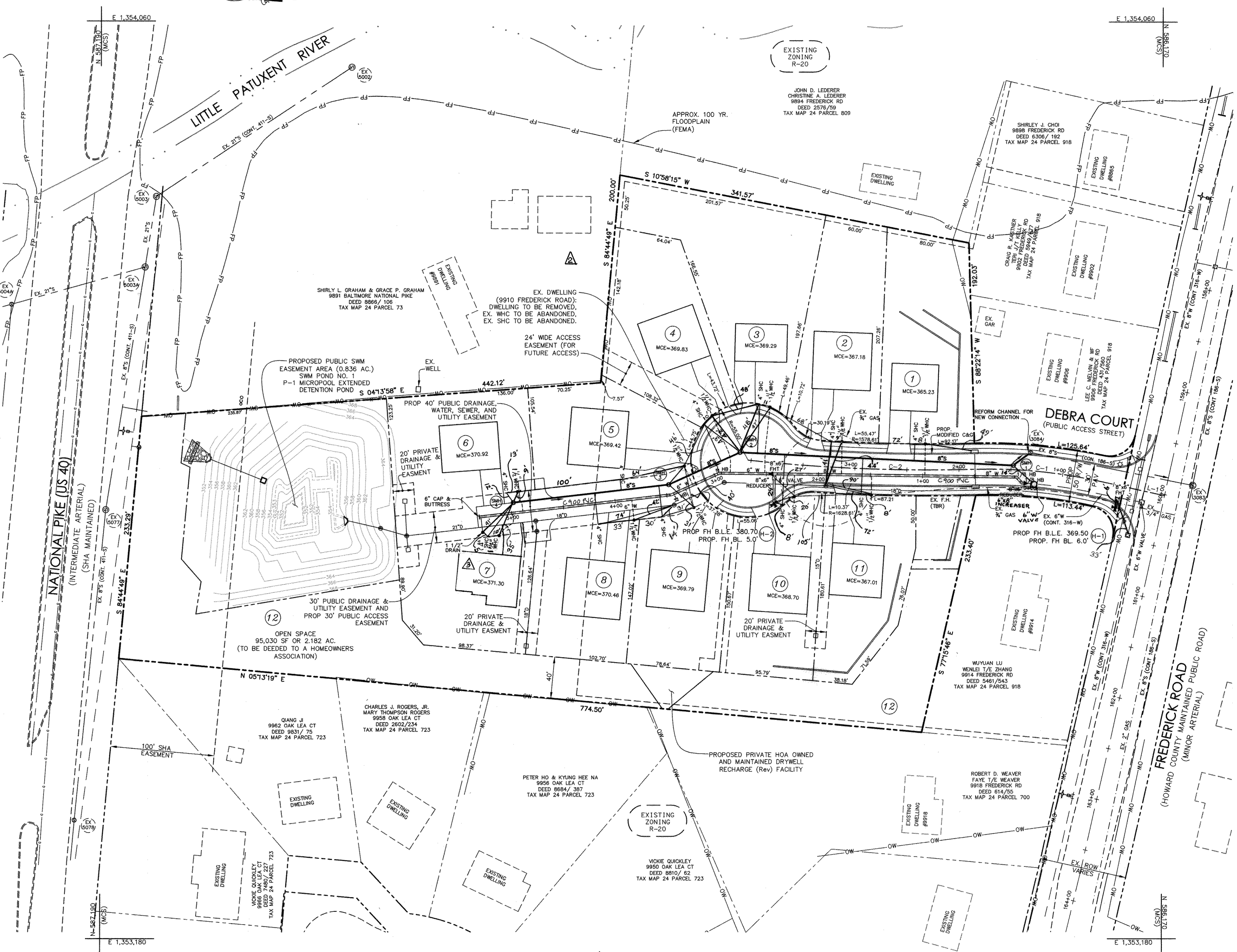
KIMBERLY HOMES ELLICOTT PROPERTIES, LLC.  
 P.O. BOX 6194  
 BALTIMORE, MARYLAND, 21231  
 (410) 522-4987

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HOWARD SCD DATE: 11/10/09

**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. 16019, EXPIRATION DATE: 5/8/2010.

M.G. DATE: 11/17/09



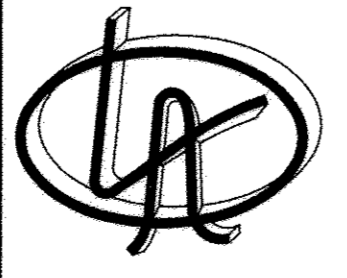
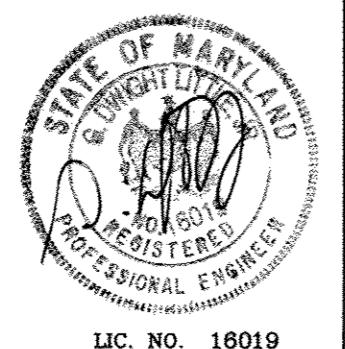
PLAN VIEW  
1"=50'

AS BUILT

WATER & SEWER EXTENSIONS  
 DEBRA COURT  
 LOTS 1-12  
 CONTRACT NO. 24-4525-D

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND



**LITTLE & ASSOCIATES, INC.**  
 ENGINEERS~LAND PLANNERS~SURVEYORS  
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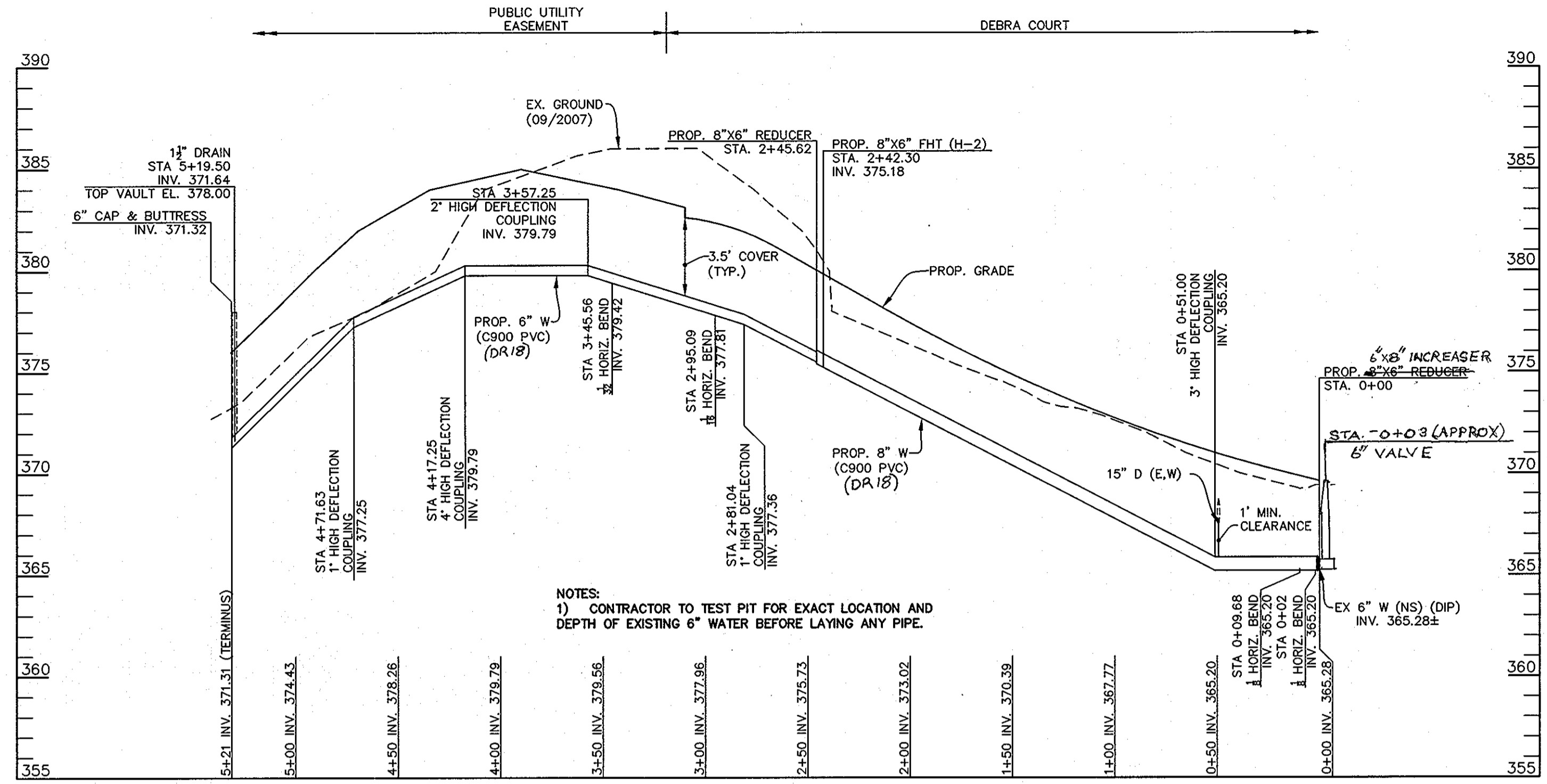
DES:	AMK		
DRN:	PFS		
CHK:	AMK	LAI	MODIFY HOUSE & W.M. LOCATION ON LOT 7
DATE:	LAI	DK	AS BUILT DATA ADDED
JUNE 15, 2009	BY	NO.	REVISION
			DATE

PLAN OF  
 WATER & SEWER

600 SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

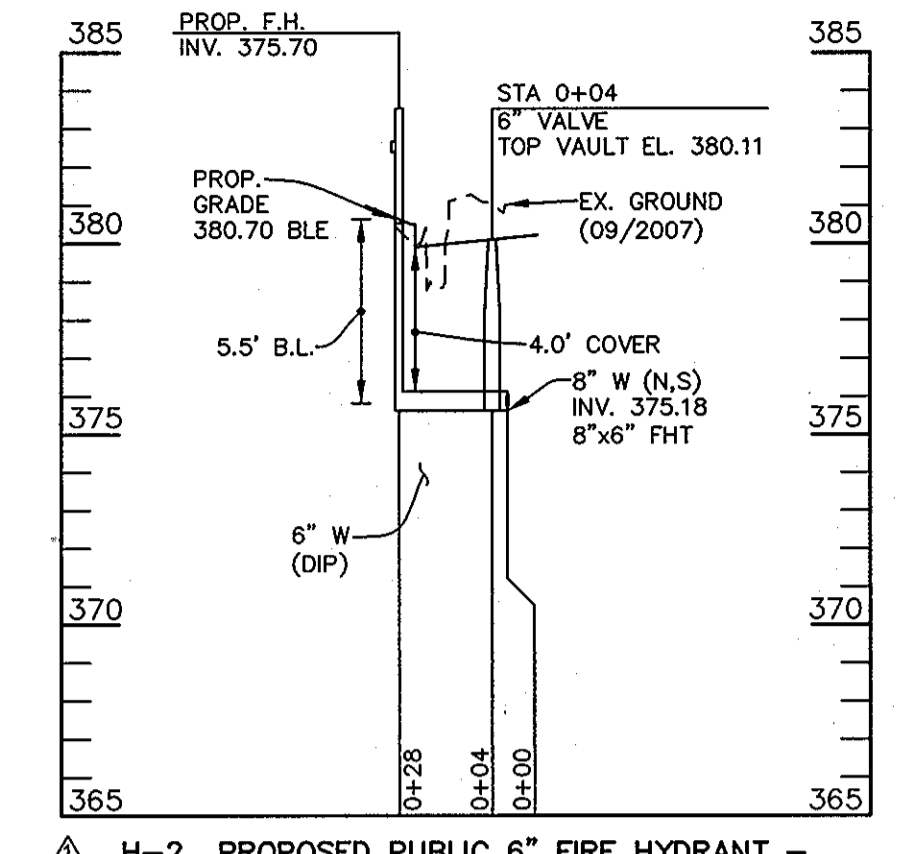
TAX MAP 24 PARCELS: 918,812,1119 ZONE: R-20  
 ELECTION DISTRICT 2 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN  
 SHEET: 2 OF 3



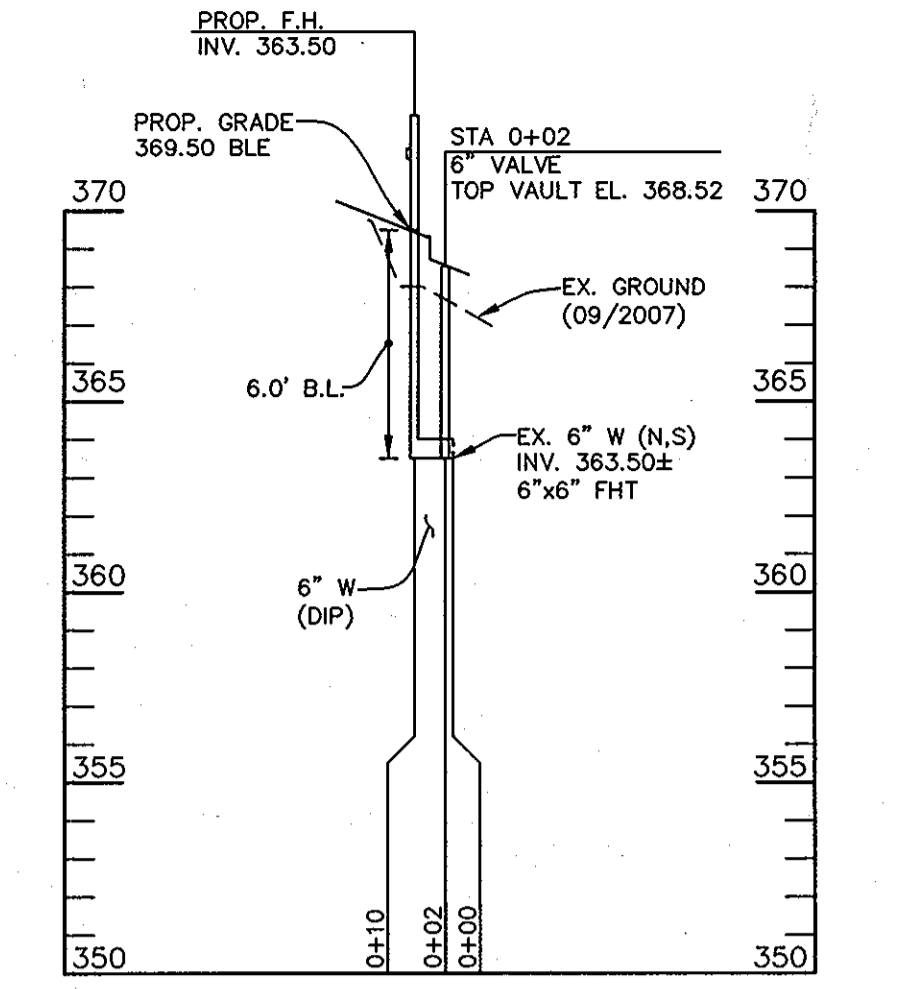
PROPOSED PUBLIC WATER MAIN - DEBRA COURT  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

\*SEE WATER MAIN NOTES, THIS SHEET



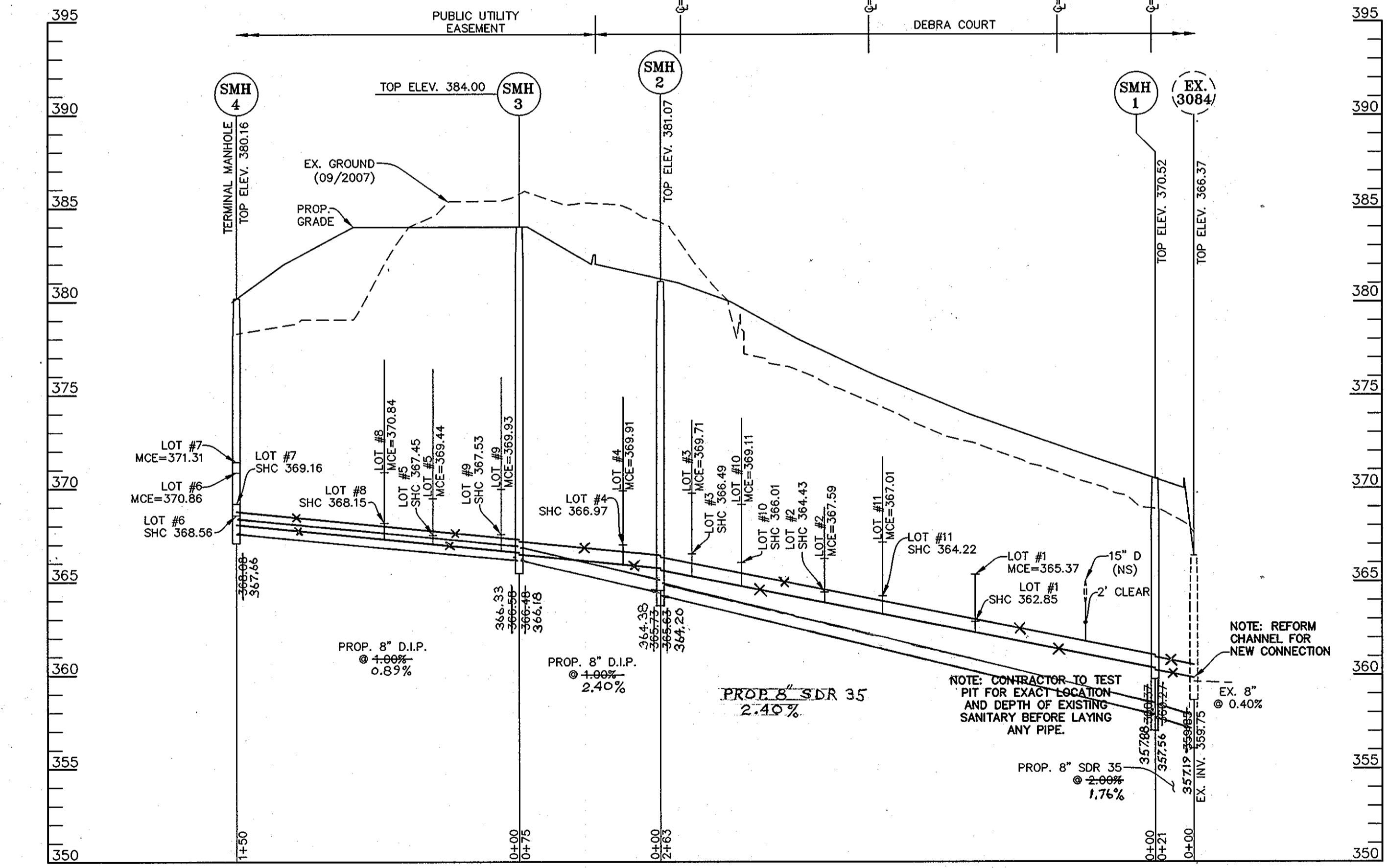
H-2 PROPOSED PUBLIC 6" FIRE HYDRANT - DEBRA COURT  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

\*SEE WATER MAIN NOTES, THIS SHEET



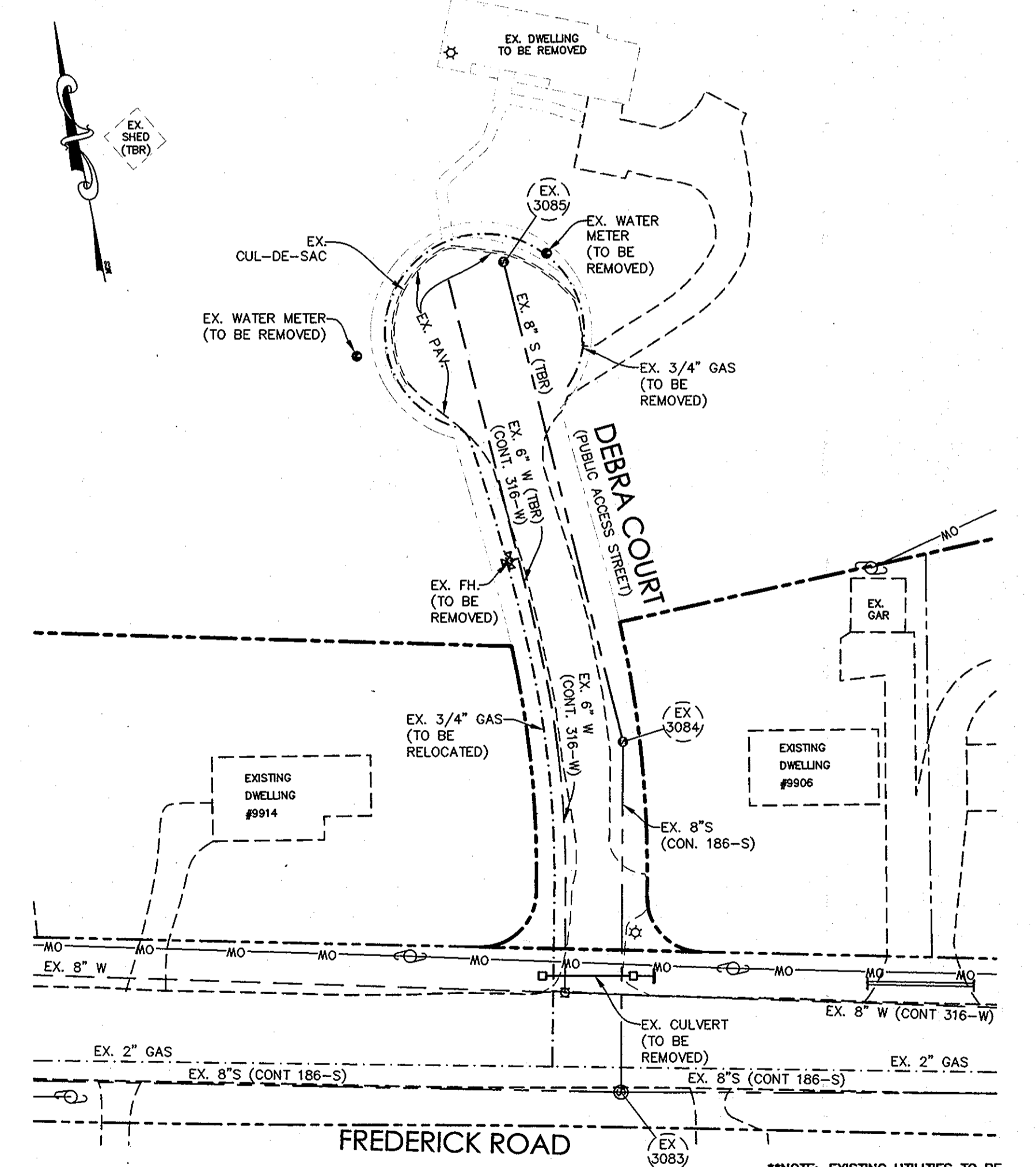
H-1 PROPOSED PUBLIC 6" FIRE HYDRANT INTERSECTION DEBRA COURT AND FREDERICK ROAD  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

\*SEE WATER MAIN NOTES, THIS SHEET



PROPOSED 8" PUBLIC SANITARY MAIN - DEBRA COURT  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

\*SEE WATER MAIN NOTES, THIS SHEET



EXISTING UTILITIES PLAN VIEW - DEBRA COURT  
SCALE: 1"=50'

\*NOTE: EXISTING UTILITIES TO BE REMOVED AT TIME OF PROPOSED UTILITY TIE-IN AND CONSTRUCTION.

- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, UNLESS OTHERWISE NOTED, (D.A./B).
  2. ALL FIRE HYDRANT LEADS SHALL BE D.I.P. CLASS 54.
  3. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE, AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME II - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION, AND PER DETAILS IN THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
  4. DEFLECTION COUPLINGS SHALL BE CERTAIN-TIED PVC HIGH DEFLECTION COUPLINGS OR APPROVED EQUIVALENT.
  5. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

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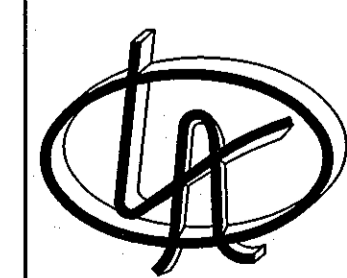
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HOWARD SCD \_\_\_\_\_ DATE \_\_\_\_\_

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PROPOSED 8" PUBLIC SANITARY MAIN - DEBRA COURT



**LITTLE & ASSOCIATES, INC.**  
ENGINEERS~LAND PLANNERS~SURVEYORS  
1055 TAYLOR AVENUE, SUITE 307  
TOWSON, MARYLAND 21286  
PHONE: (410)296-1636 FAX: (410)296-1639

DES:	AMK		
DRN:	PFS		
CHK:	AMK	DK	AS BUILT DATA ADDED 12/2011
DATE:	L.A.I.	LA	MODIFY WATER MAIN TO PVC, UPDATE W.M. 6/11
JUNE 15, 2009	BY	NO.	REVISION

# PROFILES WATER & SEWER

600 SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

## WATER & SEWER EXTENSIONS

DEBRA COURT  
LOTS 1-12  
CONTRACT NO. 24-4525-D

TAX MAP 24 PARCELS: 918,812,1119 ZONE: R-20  
ELECTION DISTRICT 2 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN

SHEET: 3 OF 3

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

7/22/11  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

8/1/11  
CHIEF, DEVELOPMENT ENGINEERING DIVISION