## **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 CONTRACTORS EXPENSE.
- 2. A FIELD RUN TOPOGRAPHIC SURVEY WAS PERFORMED ON DECEMBER 2002 BY FREDERICK WARD ASSOCIATES.
- 3. 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. #24FB, NO #24I3
  ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROL PROVIDED

ALL VERTICAL CONTROLS ARE BASED ON NAVO '88. VERTICAL CONTROL PROVIDED ON THE DRAWINGS ARE #24FB AND #24IB.

- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- 5. 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 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 MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. 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.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL THE LOCATION OF THE TEST PIT. A NOTES 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 OPERATION AT HIS OWN EXPENSE.
- 9. 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
- 10. 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 THE CONSTRUCTION OF THE MAIN.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE ANY 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.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS

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

HOWARD COUNTY SOU CONSERVATION DE

AND WITH FINAL PLAN F-06-066

TRICT 8/10/06

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT

AND MEETS TECHNICAL REQUIREMENTS.

CHIEF, DEVELOPMENT ENGINEERING DIVISION

S. SOIL CONSERVATION DISPUSION DATE

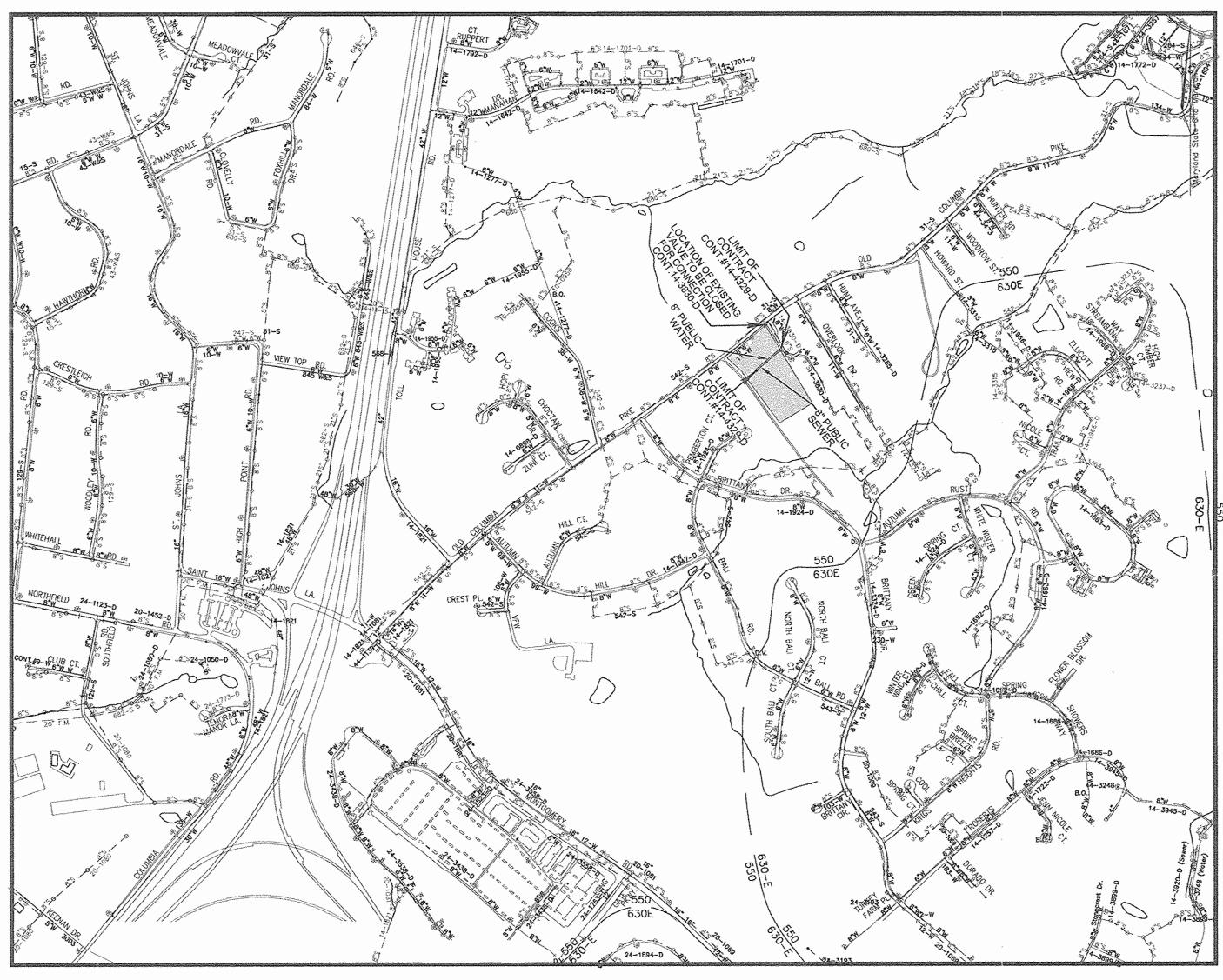
Manager

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF UTILITIES DATE

# JUNEAU HILLS

# HOWARD COUNTY, MARYLAND FINAL WATER & SEWER PLAN CONTRACT NO. 14-4329-D



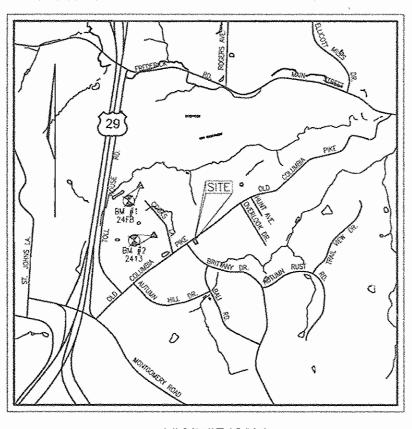
SINGLE FAMILY DETACHED

8
S: 8
PATAPSCO

DEEP RUN

LOCATION PLAN SCALE: 1"=600'

WATER CODE: F-04
SEWER CODE: 1400500
WATER TEST GRADIENT: 700



VICINITY MAP

#### PART II - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS
  OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS
- 5. 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.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

# PART III - SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C UNLESS OTHERWISE NOTED.
- 2. 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.
- 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED
- GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

  6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

	QUANTI	TIES			
NAME OF UTILITY CONTRACT	OR:		<del>V</del>		
SURVEY AND DRAFTING DIVI	SION AS-BUILT [	DATE:	den may mak di amung in Lamana garu da di dang yang ayan ay ay indang ri da d		
ITCAC	QUANTITIES	AS-BUILT			
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
8" W. (DIP)	235 LF	Z35	O.I.P.	GRIFFIN	
8"X8" TS & V	1 EACH	1EA		GIGMA/ROMAC	
8" CAP & BUTTRESS	1 EACH	I EA		GRIFFIN	
4" SHC	134 LF	134 L.F.	P.V.C.	JM MFG.	
6" TWIN SHC	15 LF	18 L.F.	P.Y.C	PLASTIC TRENDS	
8" S	272 LF	272 L.F.	P.V.C	JM MFG.	
MANHOLES	3 EACH	3 EA	P.V.C	ATLANATIC CONG.	
1" WHC	162 LF	162 L.F.	COPPER	HOWELL	
	Les de la companion de la comp		anaya dibada a igila ka ka waka ma ka ina ina ina ina ina ina ina ina ina in		

DEVELOPER
TRINITY QUALITY HOMES, INC.
3675 PARK AVE., STE. 301
ELLICOTT CITY, MARYLAND 21043



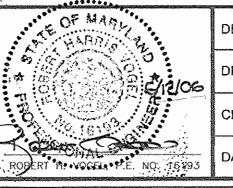
TYPE OF BUILDING:

NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS:

NO. OF LOTS:

DRAINAGE AREA:

TREATMENT PLANT:



	DESIGN BY: MY/RJ					FINA
5	DRAWN BY: MY/RJ					& SEV
	CHECKED BY: RHV	KCI	- A	"AS-BUILT" DATA	01/08/08	
3	DATE: 10.04.05	BY	NO	REVISION	DATE	600' SCALE MAP NO. 24

FINAL WATER & SEWER PLAN

VER PLAN

LOTS 1-8 A

CONTRA

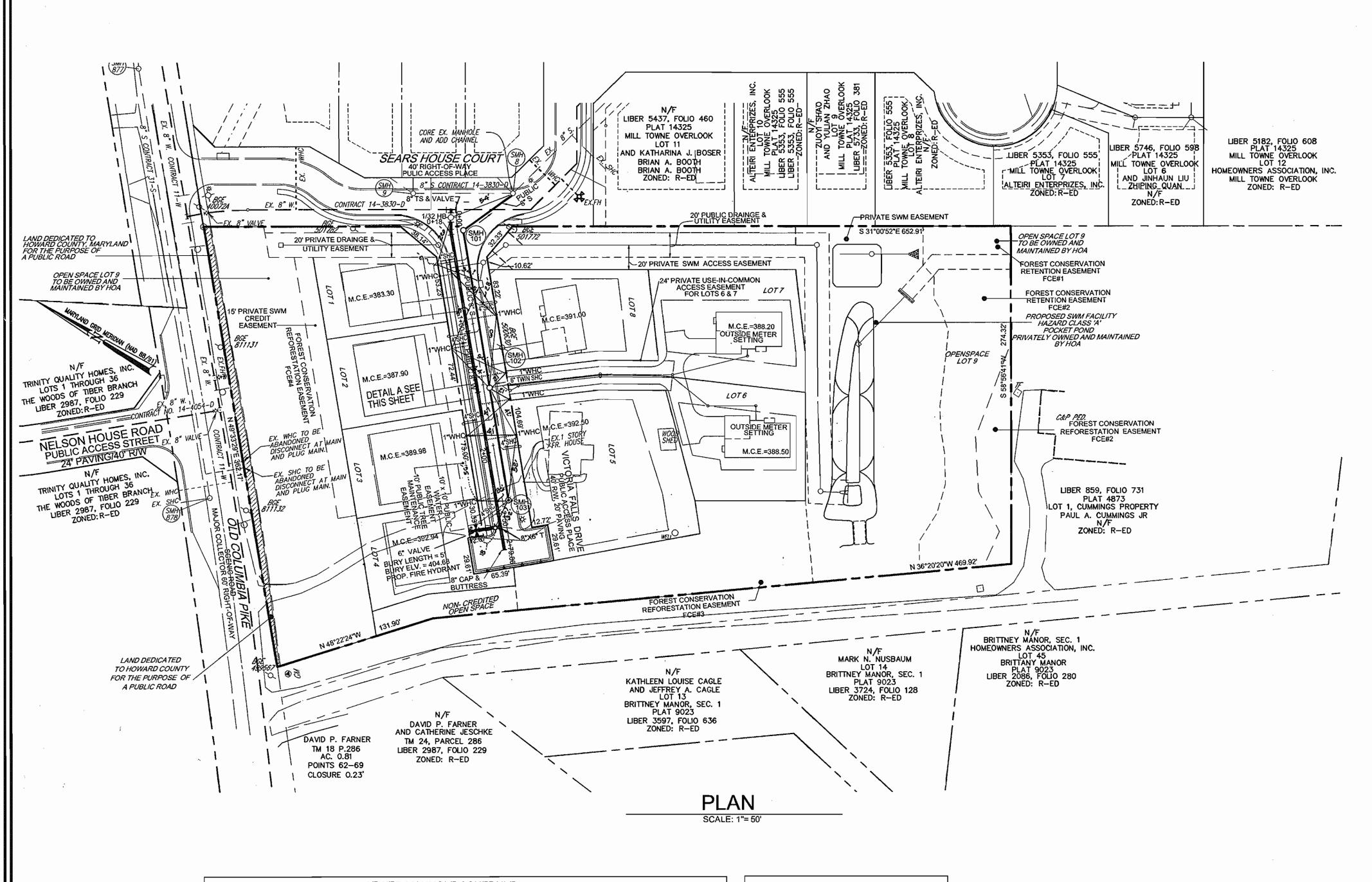
TAX MAP 24 GRID 18

BLOCK NO. 18

JUNEAU HILLS
LOTS 1-8 AND OPENSPACE LOTS 9
CONTRACT NO. 14-4329-D

TAX MAP 24 GRID 18 2ND ELECTION DISTRICT REF.: F-06-066 RACT NO. 14-4329-D

PARCEL '289' HOWARD COUNTY, MARYLAND SHOWN



410 ELEV: 397.57 401 402 402 402 402 402 402 402 402 402 402
TOT 12- DIC TIME TO STA 2+50 OF THE TOTAL OF

**PROFILE** 

SCALE: 1"=50' HORIZ. 1"=5' VERT.

 SEWER MANHOLE SCHEDULE

 NO.
 TYPE
 LOCATION
 TOP ELEV.
 INV. OUT

 SMH 101
 STD. PRECAST MH HO. CO. STD. DET. G5.12
 © STA. 0+18, 4.98' LT.
 392.42
 376.02
 375.92

 SMH 102
 STD. PRECAST MH HO. CO. STD. DET. G5.12
 © STA. 1+53, 4.84' LT.
 397.57
 382.60
 382.50

 SMH 103
 STD. PRECAST MH HO. CO. STD. DET. G5.12
 © STA. 2+46, 4.87' LT.
 404.32
 4" SHC-389.04
 389.04

SEWER CONNECTION TABULATION						
LOT NO	TYPE	ELEV.	ELEV. • R/W/ESMT.	M.C.E.		
1	DHC	379 <i>.</i> 72	380.22	383.30		
2	DHC	384.30	384.80	387.90		
3	DHC	386.38	386.88	389.98		
4	SHC	389.34	389.94	392.94		
5	DHC	389.50	389.80	392.50		
6	SHC	382.67	382.97	388.50		
7	SHC	382.67	382.97	388.20		
8	DHC	387.80	388.10	391.00		

LOT 8
LOT 8
LOT 71"WHC
L=12
LOT 6
LOT 6
LOT 6
LOT 5
LOT 5
Q

DETAIL A

SCALE: 1"=30'

NOTES:

CURRENT ADDRESS OF EXISTING HOUSE ON LOT-5

JUNE E. GARNO 3985 OLD COLUMBIA PIKE ELLICOTT CITY, MARYLAND 21043

EX. HOUSE ON LOT-5 SHALL BE SERVED UNDER PROPOSED PUBLIC WATER AND SEWER CONTRACT.

DEVELOPER
TRINITY QUALITY HOMES, INC.
3675 PARK AVE., STE. 301
ELLICOTT CITY, MARYLAND 21043
(410) 480-0023

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

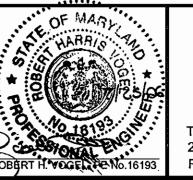
DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



	DES:	RJ					F
Ļ	DRN:	RJ					&
RS	CHK:	RHV					4
66 61		\$4 <b>\$</b> \/	K.C.1.	1	AS BUILT DATA SHOWN	01/09/07	600'
61	DATE:	MAY 2005	BY	NO.	REVISION	DATE	BLO
· ·	·			·			

FINAL WATER & SEWER PLAN



JUNEAU HILLS
LOTS 1-8 AND OPENSPACE LOTS 9
CONTRACT NO. 14-4329-D

TAX MAP 24 GRID 18 2ND ELECTION DISTRICT REF.: F-04-02 PARCEL '289' HOWARD COUNTY, MARYLAND

SHEET 2 OF 2

SCALE

AS

SHOWN