
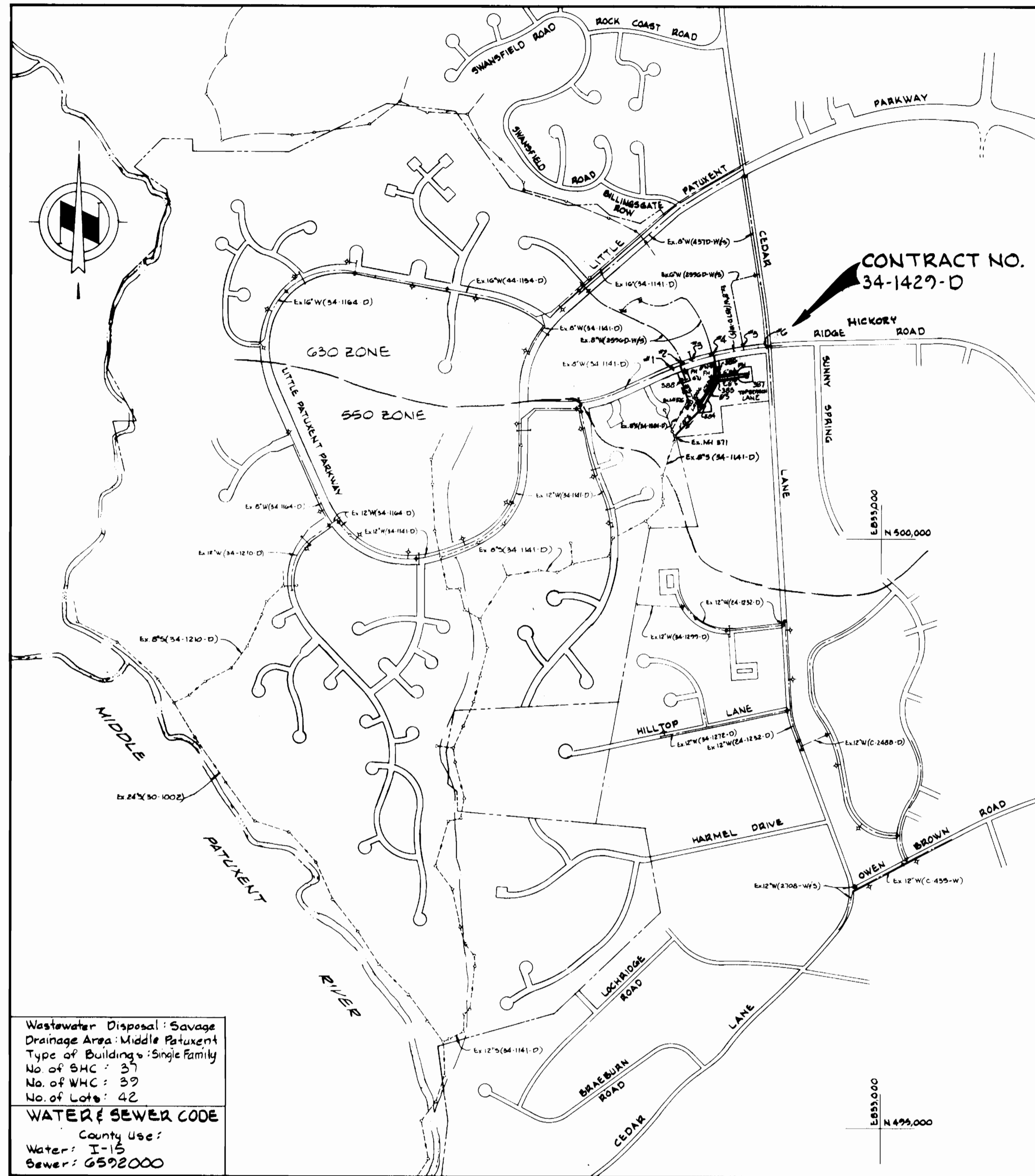


GENERAL NOTES

- 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.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 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.
- 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. 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
 - MISS UTILITY - 1 - 559-0100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO 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.
- 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 1003 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 SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S. SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 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 65-52, WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer LF	1000	1001	PVC NATIONAL
Manholes Ea	5	5	CONCRETE APPROX. 12" DIA.
8" Water LF	220	229	DIP/US PIPE
6" Water LF	780	748	
2" Water LF	100	78	TYPE K COPPER CAMBRIDGE - LEE
6" Valves Ea	1		
6" V (Excl. FH) Ea	2	2	MET. VALVE/US PIPE
Fire Hydrants Ea	3	3	MET. FH/US PIPE
6" S House Conn. LF	1000	942	PVC NATIONAL
1" W House Conn. LF	400	414	TYPE K COPPER CAMBRIDGE - LEE
3/4" W House Conn. LF	820	809	
1 1/2" Drain for H. Main Ea	3	3	
8" x 6" T.S. 4 V	1	1	DI/US PIPE
8" T.S. 4 V	1	1	

Note:
Close Valves #1, #2, #3, #4,
#5 and #6 for Shut Down.



Wastewater Disposal: Savage
Drainage Area: Middle Patuxent
Type of Building: Single Family
No. of BHC: 37
No. of WHC: 39
No. of Lots: 42
WATER & SEWER CODE
County Use:
Water: I-15
Sewer: 6592000

CONTRACT NO. 34-1429-D
VILLAGE OF HICKORY RIDGE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James M. Helm 2-13-86
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.
APPROVED:
Stephen L. Fisher 2/13/86
HOWARD C.O.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications, and Road Construction Drawings F-86-98

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John F. Nunn 2-19-86
DIRECTOR OF PUBLIC WORKS - DATE
Ruth Baerman 2-18-86
CHIEF - BUREAU OF UTILITIES - DATE
William S. Reed 2-18-86
CHIEF - BUREAU OF ENGINEERS - DATE
William S. Reed 2-18-86
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REARDT AND ASSOCIATES ENGINEERS
2315 ST. PAUL ST
BALTIMORE, MARYLAND

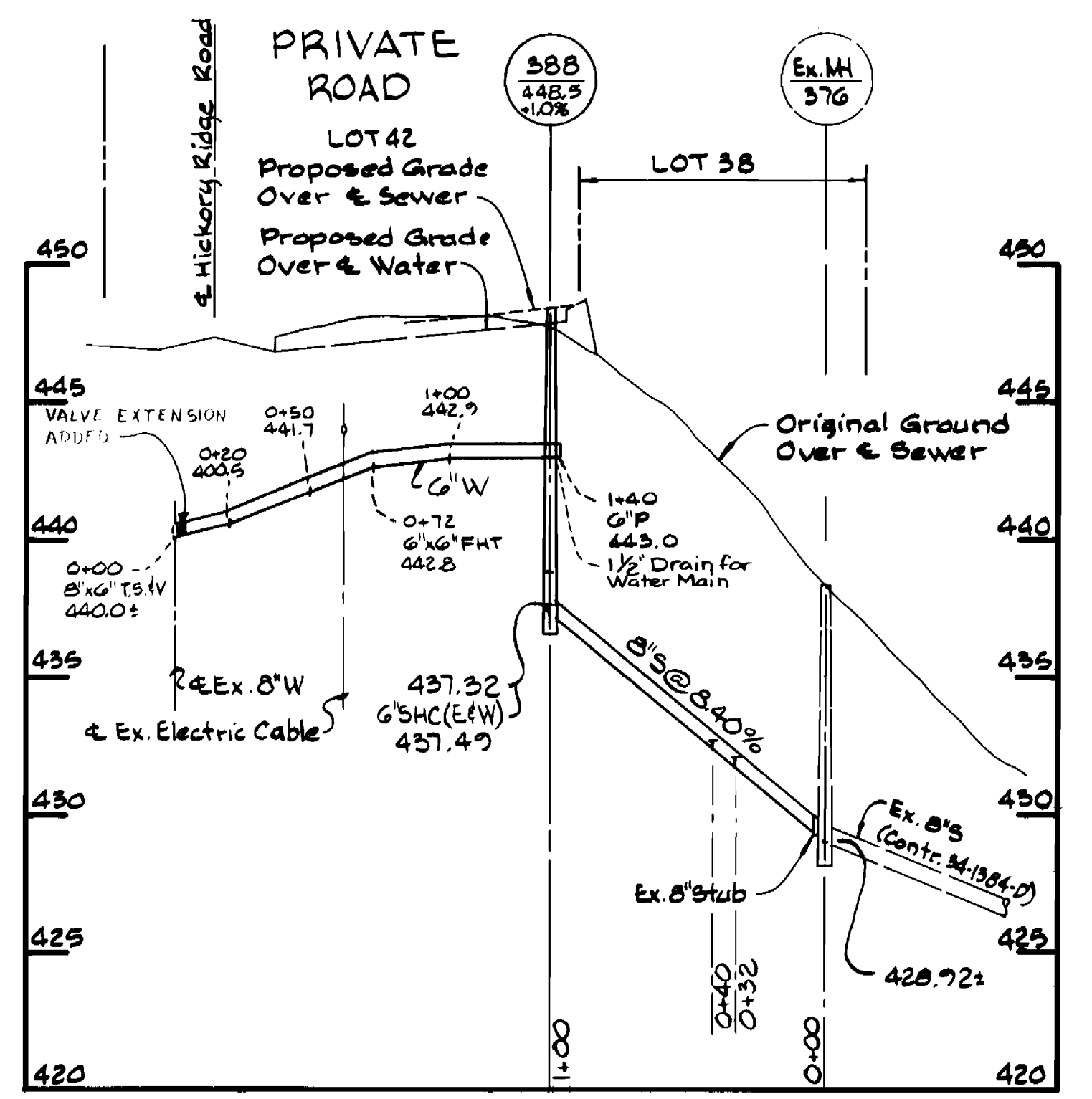
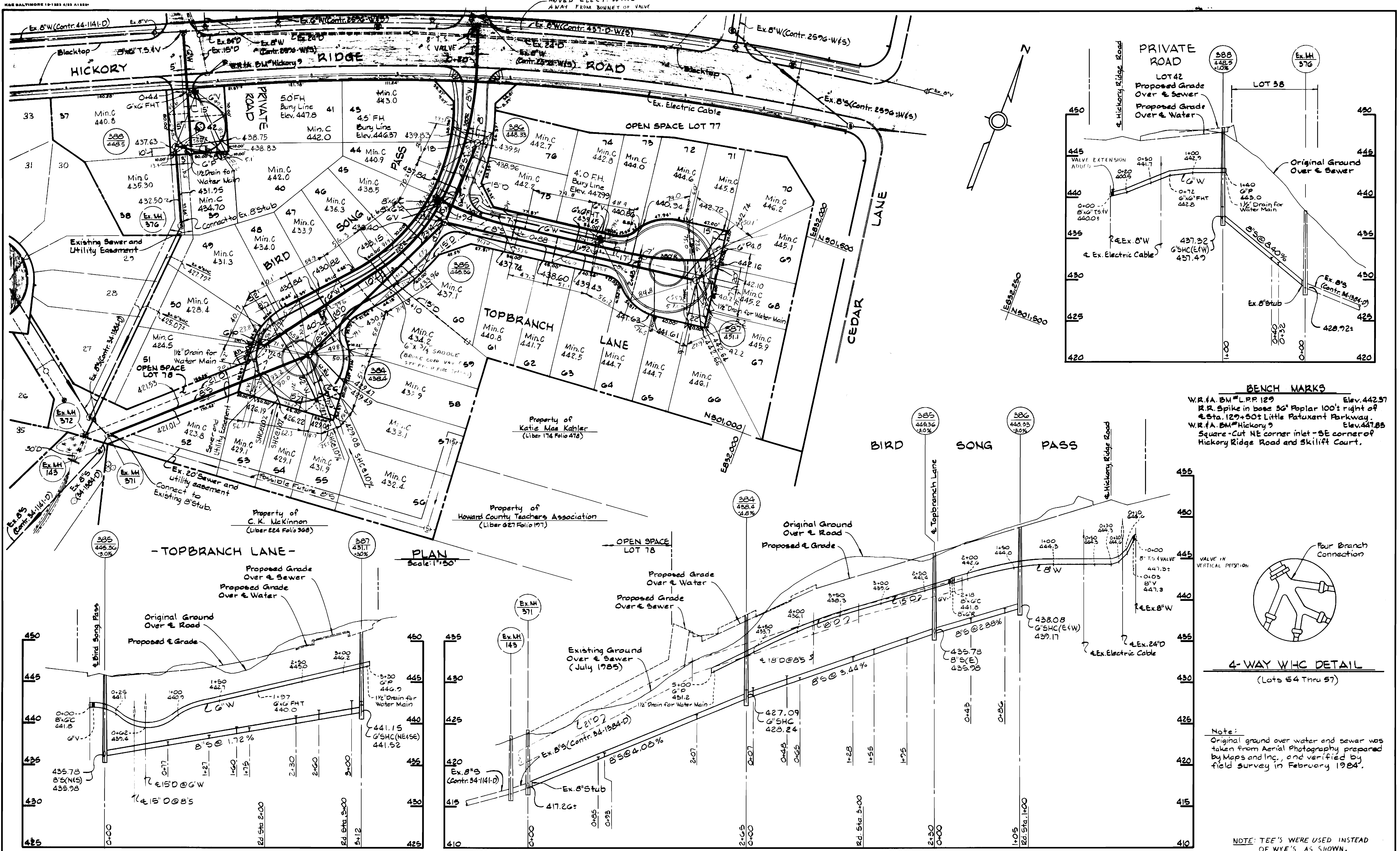


DES. S.J.					
DRN. J.R.K.					
DATE 12/15/85					
BY NO.					
REVISION					
DATE					

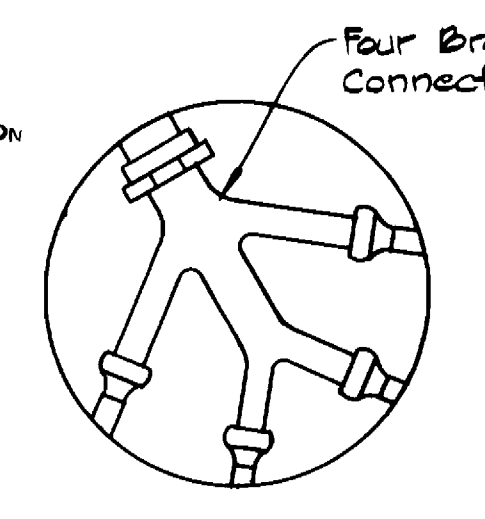
VICINITY MAP AND GENERAL NOTES
600 SCALE MAP NO. 35 BLOCK NO.

COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 2 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1429-D

SCALE 1"=600'
SHEET 1 OF 2



BENCH MARKS
 W.R.A. BM# L.P.P. 129 Elev. 442.57
 R.R. Spike in base 36' Poplar 100' right of
 E.Sta. 129+50 at Little Patuxent Parkway
 W.R.A. BM# Hickory 9 Elev. 447.85
 Square-Cut NE corner inlet - SE corner of
 Hickory Ridge Road and Skilift Court.



4-WAY W/C DETAIL
 (Lots 54 Thru 57)

Note:
 Original ground over water and sewer was
 taken from Aerial Photography prepared
 by Maps and Inc., and verified by
 field survey in February 1984.

NOTE: TEE'S WERE USED INSTEAD
 OF WYE'S AS SHOWN.
NOTE: LOT # 59 HAS 2 W/C.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE
 Chief - Bureau of Engineering - DATE
 Chief - Bureau of Utilities - DATE

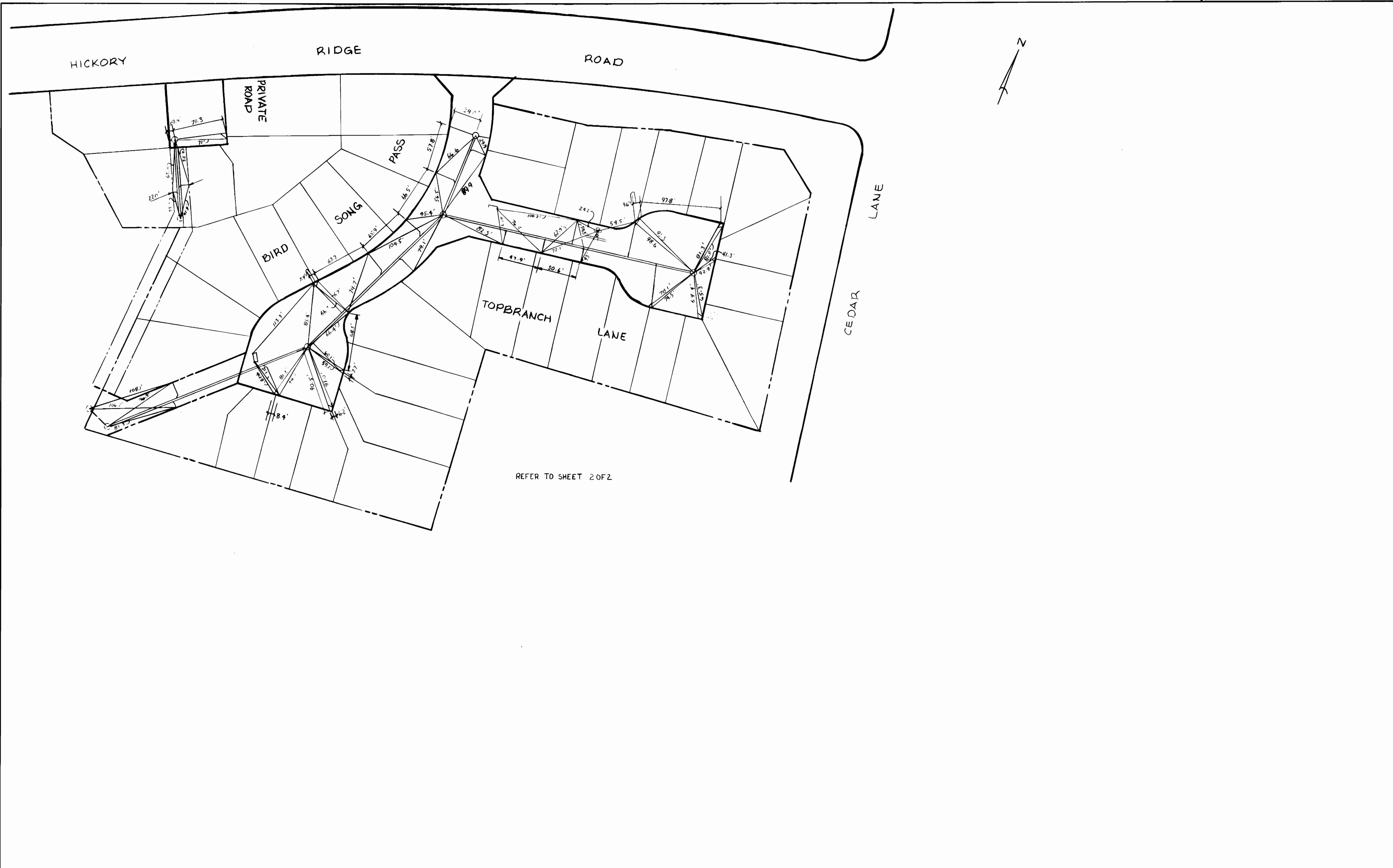
**WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS**
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

DES: S.J.					
DRN: J.R.K.					
BY: R.B.N.					
DATE: 12/13/85	D.M.D. 1	Revised Lot Layout	4/9/86		
BY NO.	REVISION	DATE			

**PLAN & PROFILE OF
 WATER & SEWER MAINS**

**COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 2
 ELECTION DISTRICT NO. 5
 CONTRACT NO. 34-1429-D**

**SCALE
 AS
 SHOWN**
**SHEET
 2 OF 2**



REFER TO SHEET 2 OF 2

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE

DES:				
DRN:				
CHK:				
DATE:	BY	NO.	REVISION	DATE

600' SCALE MAP NO. _____ BLOCK NO. _____

CONTRACT-NO. 34-1429-D

SCALE AS SHOWN

SHEET 2 OF 2

SEWER ~~AS SHOWN~~ 7-2-86

BURLING 44-132 (9) 50