

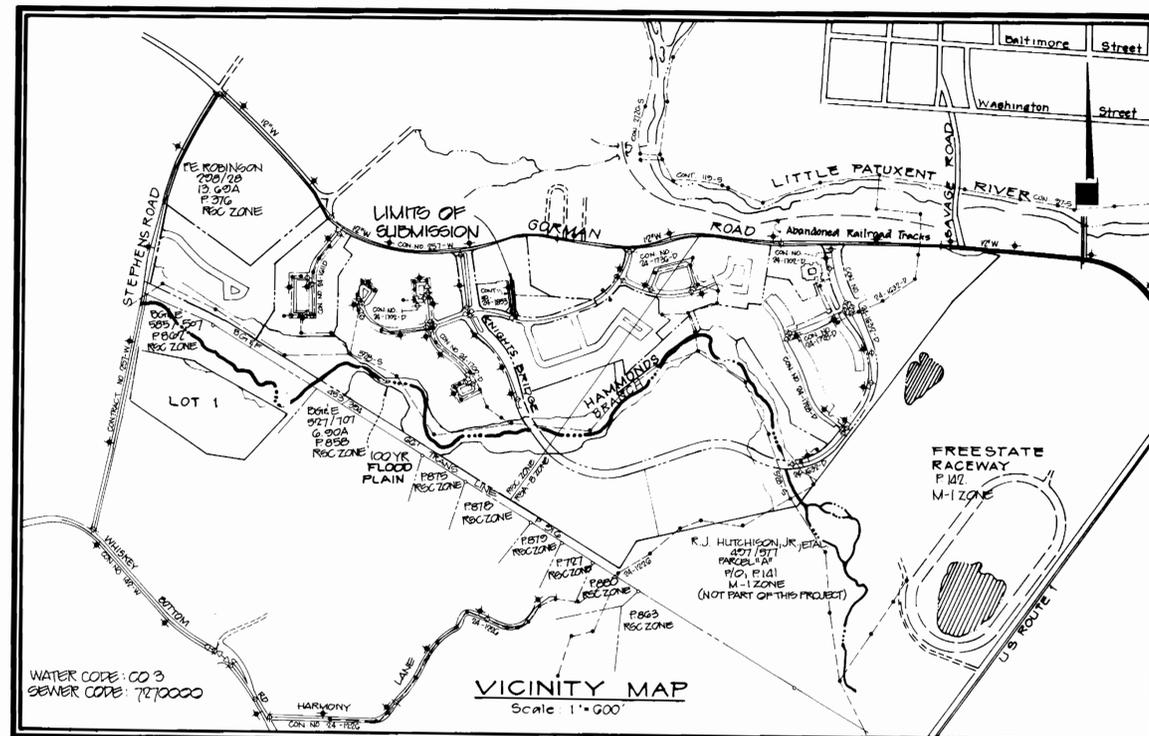
DURNES LANE (LOT 218) BOWLING BROOK FARMS HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. THE APPROXIMATE LOCATION OF ALL UTILITIES IS SHOWN BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL LOCATE, PROTECT AND SUPPORT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER/INSPECTOR, AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
3. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

STATE HIGHWAY ADMINISTRATION - 531-5533
BALTIMORE GAS & ELECTRIC COMPANY - 561-2585 (CONTRACTOR SERVICES)
BALTIMORE GAS & ELECTRIC COMPANY - 234-6313 (UNDERGROUND DAMAGE CONTROL)
BALTIMORE GAS & ELECTRIC COMPANY - 298-9813 (TROUBLE SHOOTING)
"MISS UTILITY" - 888-257-7777
CHESAPEAKE & POTOMAC (CAP) TELEPHONE COMPANY - 725-9976
BUREAU OF UTILITIES/HOWARD COUNTY - 992-2366
4. ALL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
7. TREES SHALL BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE. TREES SIX INCH (6") DIAMETER OR GREATER (MEASURED FOUR FEET (4') ABOVE EXISTING GRADE) ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL NOT BE REMOVED OR DAMAGED BY THE CONTRACTOR.
8. ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE PLANE COORDINATES SYSTEM PROVIDED BY HOWARD COUNTY.
9. TOPOGRAPHY TAKEN FROM MAPS PREPARED BY PHOTOGRAMMETRY BY AERIAL SURVEY IN 1984. TOPOGRAPHY FIELD CHECKED 1986.
10. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
11. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
12. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
14. ALL WATER MAIN FITTINGS REQUIRE CONCRETE THRUST BLOCKS AS DESCRIBED IN HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS MANUAL, VOLUME IV.
15. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
16. CLEAR ALL UTILITIES BY A MINIMUM OF 12", CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION AND SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION BACKFILL.
17. SEPARATION BETWEEN WATER AND SANITARY SEWER: WATER MAINS SHALL BE LAID AT LEAST TEN FEET (10') HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. DEVIATION MAY BE ALLOWED FOR INSTALLATION OF THE WATER MAIN CLOSER TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH, SUCH THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX FEET (6') ABOVE THE TOP OF THE SEWER. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE INCHES (12") BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER LINE.
18. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE 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 OF THE STANDARD SPECIFICATIONS.
19. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
20. ALL SEWER MAINS SHALL BE C.S.P.X., RC.SP., VC.PX., A.C.P. CLASS 2400, OR PVC UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
22. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
23. ALL FIRE HYDRANTS SHALL BE SITUATED PER "LOCATION A", STD. DETAIL W1.11.
24. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
25. SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.

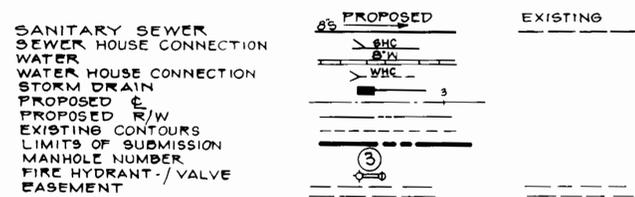
QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUPPLIER
8" SEWER	238'	238 LF	J&M MANUFACTURING
MANHOLE	1	1	Dewey Bro.
8" WATER	255'	255 LF	GRIFFIN PIPE
6" SEWER	66'	66 LF	J&M MANUFACTURING
8" VALVE	—	—	—
12" VALVE	—	—	—
FIRE HYDRANT	1	1	MULLER
AIR RELEASE MANHOLE	—	—	—
BLOW OFF VALVE	—	—	—
6" WATER	10'	10 LF	GRIFFIN PIPE
2" WATER	50'	50 LF	HOWEN METALS
6" VALVE	1	1	MULLER



TYPE OF BUILDINGS	N/A
NUMBER OF LOTS	1
NUMBER OF WATER HOUSE CONNECTIONS	2
NUMBER OF SEWER HOUSE CONNECTIONS	2
DRAINAGE AREA	LITTLE PATUXENT

CONTRACT NO. 24-1853-D WATER AND SEWER CONSTRUCTION PLANS

LEGEND



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-88-166

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
John M. Hahn
 SIGNATURE 12-2-88
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 APPROVED *Stephen L. Hahn* 1/30/89
 HOWARD SCD DATE

OWNER/DEVELOPER
 GORMAN ROAD LIMITED PARTNERSHIP
 C/O JAMES F. KNOTT DEVELOPMENT CORPORATION
 118 WEST ROAD, SUITE 203
 TOWSON, MARYLAND 21204
 (881) 321-6436

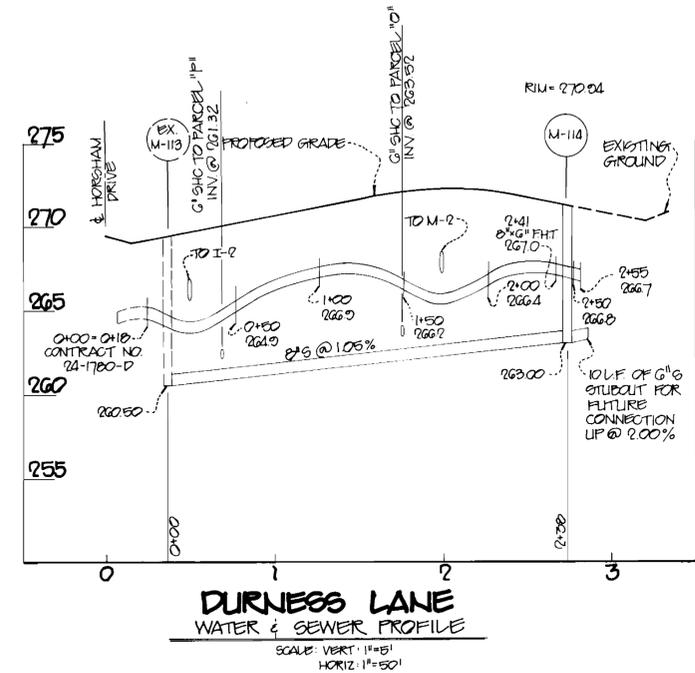
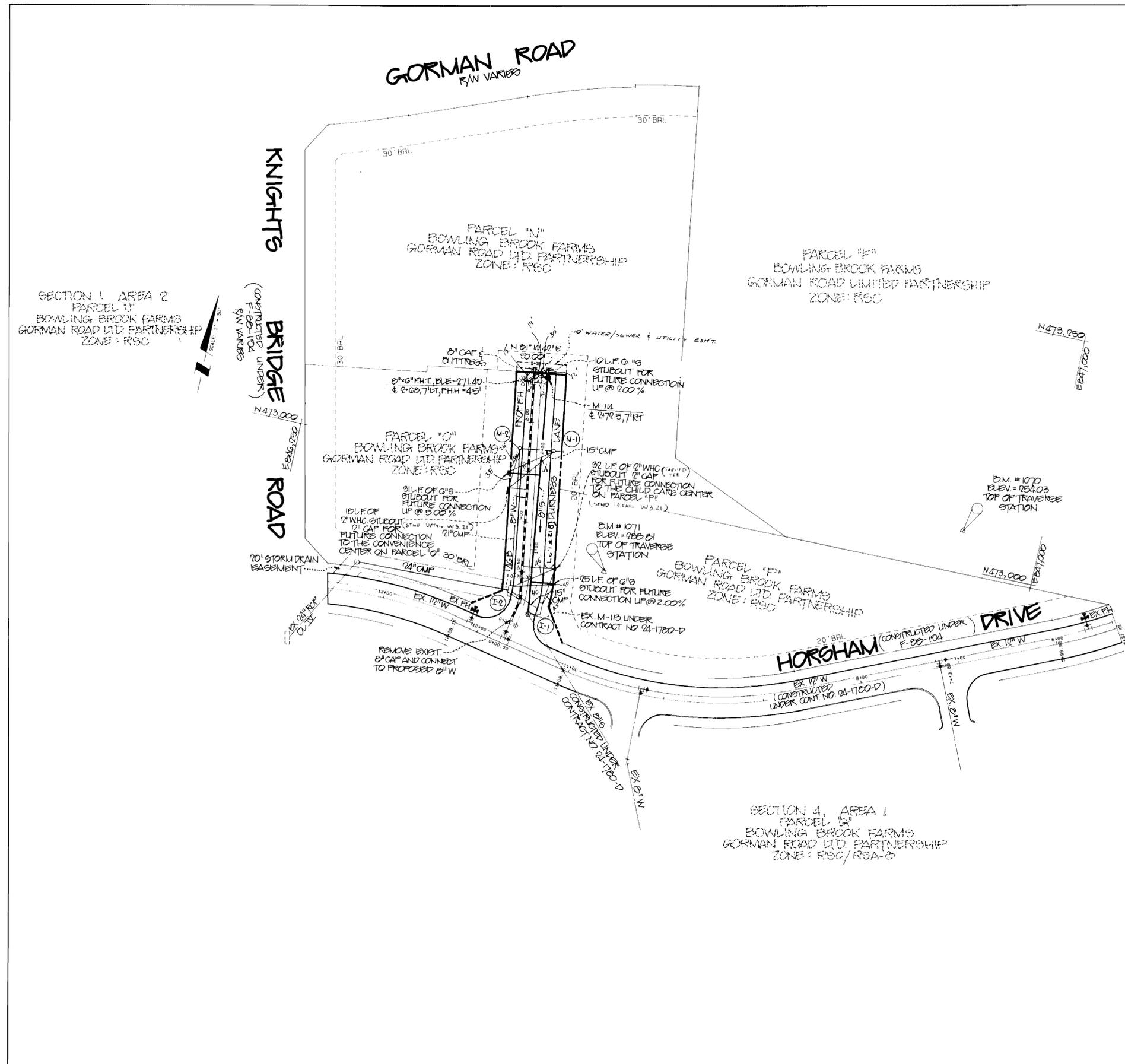
<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>James P. Hahn</i> 12/9/88 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>Robert B. Hahn</i> 12/8/88 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>PHR&A</p> <p>PATTON, HARRIS, RUST & ASSOCIATES, PC 7609 STANDISH PLACE ROCKVILLE, MARYLAND 20855 METRO: 301-762-2220 BALT.: 301-792-7244</p>
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<p>DES: M.J.K.</p> <p>DRN: J.D.W.</p> <p>CHK:</p> <p>DATE: 11/16/88</p>	<p>BY: 1</p> <p>NO. 1</p> <p>ISSUED TO HOWARD COUNTY FOR REVIEW</p> <p>DATE: 11/16/88</p>
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<p>TITLE SHEET</p>	<p>600' SCALE MAP NO. 47 BLOCK NO.</p>
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<p>BOWLING BROOK FARMS CONTRACT NO. 24-1853-D DURNES LANE (LOT 218) A RESUBDIVISION OF BOLLING BROOKE, LOT 2 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 1 OF 2</p>
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AS-BUILT
D. Johnson 1/18/90



SECTION 1, AREA 2
 PARCEL 13
 BOWLING BROOK FARMS
 GORMAN ROAD LTD. PARTNERSHIP
 ZONE: RSC

BRIDGE ROAD
 (CONSTRUCTED UNDER F-88-104 R/W VARIES)

GORMAN ROAD
 R/W VARIES

PARCEL 11
 BOWLING BROOK FARMS
 GORMAN ROAD LTD. PARTNERSHIP
 ZONE: RSC

PARCEL 12
 BOWLING BROOK FARMS
 GORMAN ROAD LIMITED PARTNERSHIP
 ZONE: RSC

PARCEL 10
 BOWLING BROOK FARMS
 GORMAN ROAD LTD. PARTNERSHIP
 ZONE: RSC

PARCEL 15
 BOWLING BROOK FARMS
 GORMAN ROAD LTD. PARTNERSHIP
 ZONE: RSC

SECTION 4, AREA 1
 PARCEL 15
 BOWLING BROOK FARMS
 GORMAN ROAD LTD. PARTNERSHIP
 ZONE: RSC/RSA-B

HORSHAM DRIVE
 (CONSTRUCTED UNDER F-88-104)

DURNESS LANE
 WATER & SEWER PROFILE
 SCALE: VERT: 1"=5'
 HORIZ: 1"=50'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James H. ... 12/1/88
 DIRECTOR OF PUBLIC WORKS

Ruth ... 12-8-88
 CHIEF, BUREAU OF UTILITIES

Green ... 12-8-88
 CHIEF BUREAU OF ENGINEERING

Small ... 12/2/88
 CHIEF, LAND DEVELOPMENT DIVISION

PTWA
 PATTON, HARRIS, ROUSE & ...
 7006 STANDISH PLACE
 MC KVILLE, MARYLAND 21783
 METRO: 301-762-2226 DALT



DES: MJK					
DRN: CADD & J.D.W.					
CHK:					
DATE:	1	REBID TO HOWARD COUNTY FOR REVIEW	11/16/88		
BY:	NO	REVISION	DATE	600' SCALE MAP NO. 47	BLOCK NO.

PLAN AND PROFILE
 WATER AND SEWER MAINS

BOWLING BROOK FARMS
 CONTRACT NO. 24-1853-D
 DURNESS LANE (LOT 218)
 A RESUBDIVISION OF BOLLING BROOKE, LOT 2
 SIXTH ELECTION DISTRICT
 TAX MAP 47 PARCEL 141
 L. 1394 F. 632

SCALE AS SHOWN
 SHEET 2 OF 2

AS-BUILT 1/18/90