# SEWER HOUSE CONNECTION INVERT ELEVATIONS & CELLAR ELEVATIONS

| LOT | NO. | INVERT | CELLAR | LOT NO. | INVERT | CELLAR |
|-----|-----|--------|--------|---------|--------|--------|
|     |     |        |        |         |        |        |
| 1   |     | 235.1  | 240.16 | 21      | 249.1  | 262.00 |
| 2   |     | 235.4  | 241.50 | 22      | 249.1  | 261.33 |
| 3   |     | 235.7  | 242.84 | 23      | 249.1  | 260.67 |
| 4   |     | 236.1  | 243.50 | 24      | 249.1  | 260.67 |
| 5   |     | 236.4  | 244.84 | 25      | 248.7  | 254.32 |
| 6   |     | 236.8  | 246.17 | 26      | 248.2  | 253.66 |
| 7   |     | 237.1  | 247.50 | 27      | 247.6  | 252.98 |
| 8   |     | 237.5  | 248.84 | 28      | 247.1  | 252.32 |
| 9   |     | 246.0  | 256.67 | 29      | 246.6  | 251.65 |
| 10  |     | 246.4  | 257.33 | 30      | 246.1  | 250.98 |
| 11  |     | 247.0  | 258.00 | 31      | 245.6  | 250.32 |
| 12  |     | 247.6  | 258.67 | 32      | 245.0  | 248.98 |
| 13  |     | 248.3  | 259.33 | 33      | 237.9  | 245.65 |
| 14  |     | 249.1  | 260.00 | 34      | 237.6  | 244.32 |
| 15  |     | 249.8  | 260.67 | 35      | 237.3  | 242.95 |
| 16  |     | 250.6  | 261.33 | 36      | 237.0  | 241.65 |
| 17  |     | 252.1  | 260.67 | 37      | 236.7  | 240.32 |
| 18  |     | 252.1  | 260.67 | 38      | 236.3  | 239.65 |
| 19  |     | 252.2  | 261.33 | 39      | 236.0  | 238.95 |
| 20  |     | 252.2  | 262.00 | 40      | 235.6  | 238.32 |
|     |     |        | _000   | •••     |        |        |

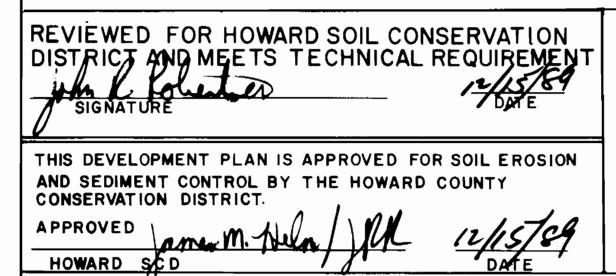
| QUANTITIES             |             |          |                                  |  |  |  |  |  |
|------------------------|-------------|----------|----------------------------------|--|--|--|--|--|
| ITEM                   | ESTIMATED   | AS BUILT | MATERIAL/SUPPLIER                |  |  |  |  |  |
| 8" SEWER               | 786 LF      |          |                                  |  |  |  |  |  |
| MANHOLE                | 9           |          |                                  |  |  |  |  |  |
| 4" SEWER               | 1,367 LE    |          |                                  |  |  |  |  |  |
| 8" WATER               | 394 L.F.    | 395      | SUPPLY INC                       |  |  |  |  |  |
| 8" VALVE               | 1           | ,        |                                  |  |  |  |  |  |
| 12" VALVE              |             | _        | POR COUNTR                       |  |  |  |  |  |
| FIRE HYDRANT           | 2           | 2        | ABP WATER, SEWER<br>SUPPLY, INC. |  |  |  |  |  |
| AIR RELEASE<br>MANHOLE | <del></del> |          |                                  |  |  |  |  |  |
| 1/2" WATER             | 48 L.F.     | 39       | AFPWATER, SEWER<br>SUPPLY, INC.  |  |  |  |  |  |
| 6" WATER               | 362 L.F.    | 362      | AGP WATER, SEWER<br>SUPPLY, INC  |  |  |  |  |  |
| I" WATER               | 1,702 L.F.  | 1924     | SUPPLY, INC.                     |  |  |  |  |  |
| 6" VALVE               | 2           | 2        | ALP WATER, SEWER<br>Supply, INC. |  |  |  |  |  |

## LEGEND EXISTING SANITARY SEWER SEWER HOUSE CONNECTION **8** W WATER HOUSE CONNECTION > MHC − STORM DRAIN PROPOSED & PROPOSED R/W EXISTING CONTOURS \_\_\_\_\_\_ LIMITS OF SUBMISSION MANHOLE NUMBER FIRE HYDRANT - / VALVE <del>\_\_\_ \_\_ \_\_</del> \_\_\_ EASEMENT \_\_\_\_\_

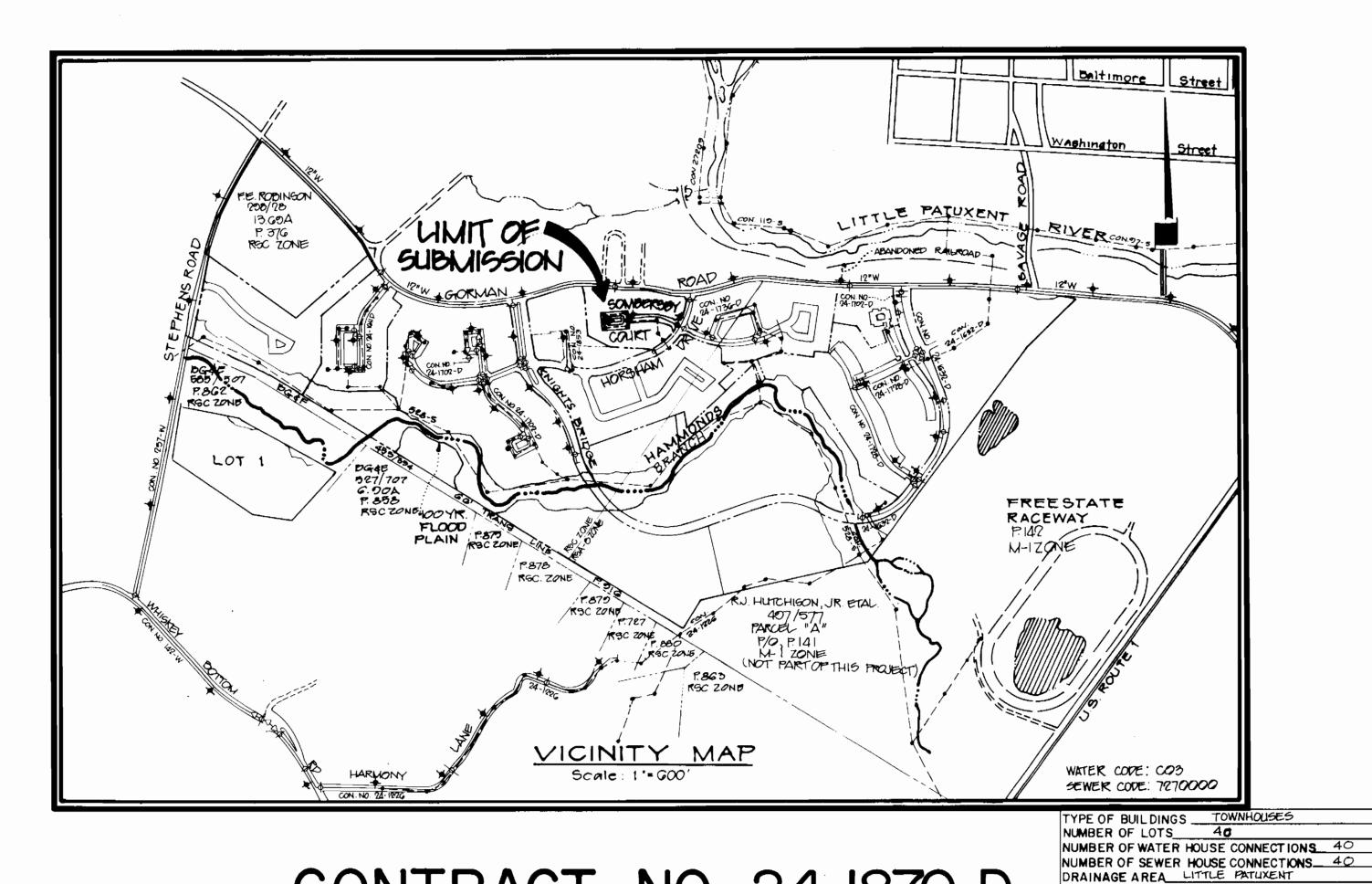
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-89-227

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND



# PARCEL F LOTS F-I THRU F-42 BOWLING BROOK FARMS HOWARD COUNTY, MARYLAND



CONTRACT NO. 24-1870-D WATER AND SEWER CONSTRUCTION PLANS

OWNER/DEVELOPER

GORMAN ROAD LIMITED PARTNERSHIP C/O JAMES F. KNOTT DEVELOPMENT CORPORATION 110 WEST ROAD, SUITE 203 TOWSON, MARYLAND 21204 (801) 321-6436

# GENERAL NOTES

### PART I

- 1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintian uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'- 0" minimum or tunnel as required. 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 money 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. The contractor shall have a copy of Volume IV
- 7. 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 located by the contractor two weeks in advance of construction operations at his own expense.
- 8. Contractor shall notify the following utility companies 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 - 850-4620 Baltimore Gas & Electric Co. - Under Ground Damage Control - 859-9004 Baltimore Gas & Electric Co. - Trouble Shooting - 298-9001 Miss Utility - 1-559-0100 Colonial Pipeline Co. - 795-1390

- Bureau of Utilities, Howard County Dept. of Public Works 992-2366
- 9. 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.
- 10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.

- 1. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 2. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise
- 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 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.
- 6. The contractor shall not operate any water main valves on the existing water

# PART II - SEWER

- 1. All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. Class 2400 or P.V.C. unless otherwise noted.
- 2. The contractor shall provide a joint in all sewer mains within 2' 0" of exterior manhole wall.
- 3. All manholes shall be 4' 0" inside diameter unless otherwise noted.

AS-BUILT

PATTON, HARRIS, RUST & ASSOCIATES, PC 7609 STANDISH PLACE

ROCKVILLE, MARYLAND 20855



|  | DES: KOR        |    |    |                 |
|--|-----------------|----|----|-----------------|
|  | DRN: FC         |    |    |                 |
|  |                 |    | 3  | REVIS           |
|  | CHK: <b>KOR</b> |    | 2  | REVIE           |
|  |                 |    | 1  | 1 <i>95</i> 145 |
|  | DATE:           | RY | NO |                 |

SED SEWER MAIN & SHO PER HO.CO. COMMENTS 11-15-89 SED AS PER HOWARD CO. COMMENTS IED TO HOWARD CO. FOR REVIEW DATE 600'SCALE MAP NO. \_\_\_ REVISION

TITLE SHEET

\_\_\_ BLOCK NO.

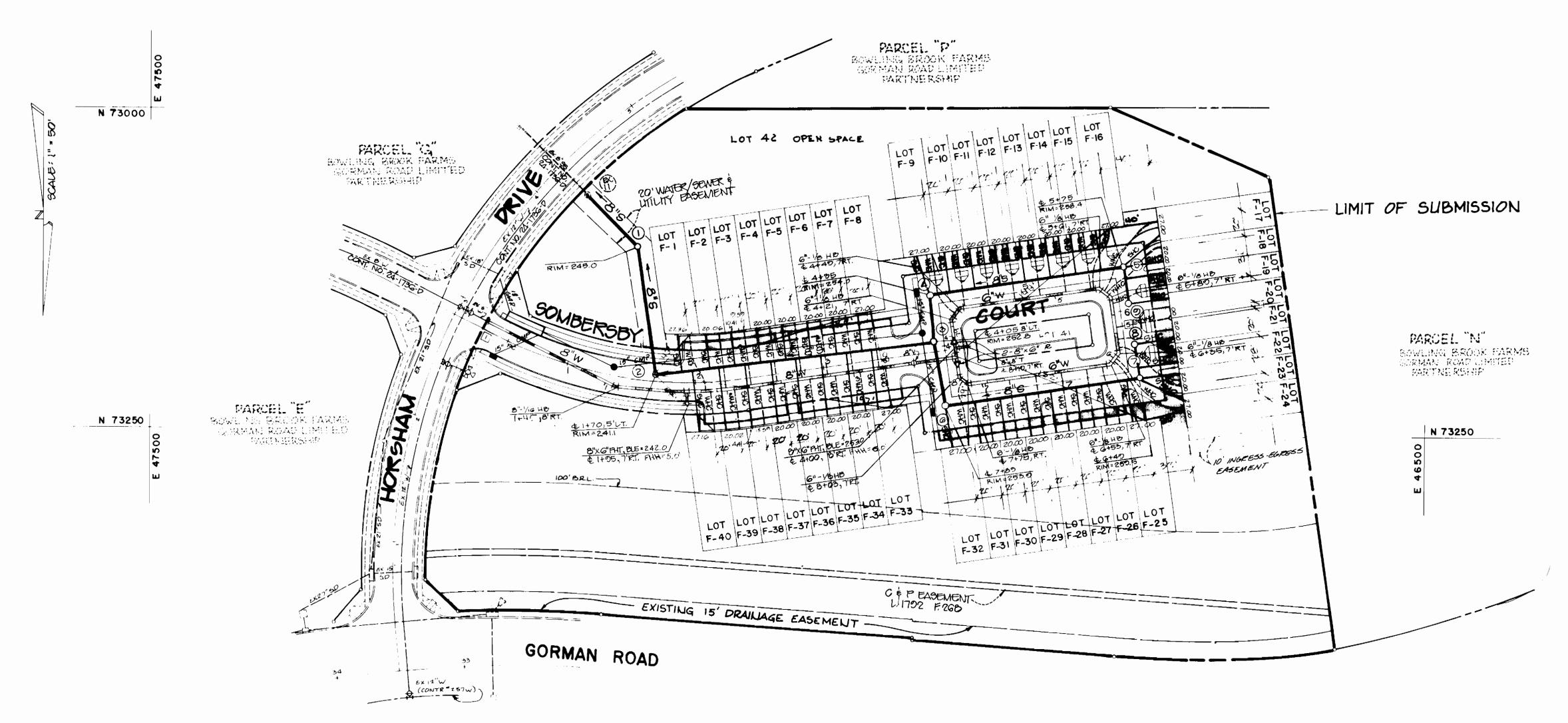
A RESUBDIVISION OF PARCEL F LOTS F-I THRU F-42 CONTRACT NO. 24-1870 - D PARCEL 141 TAX MAP 47 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**BOWLING BROOK FARMS** 

SCALE SHOWN

SHEET 1 OF <u>3</u>

METRO: 301-762-2220 BALT.: 301-792-7244

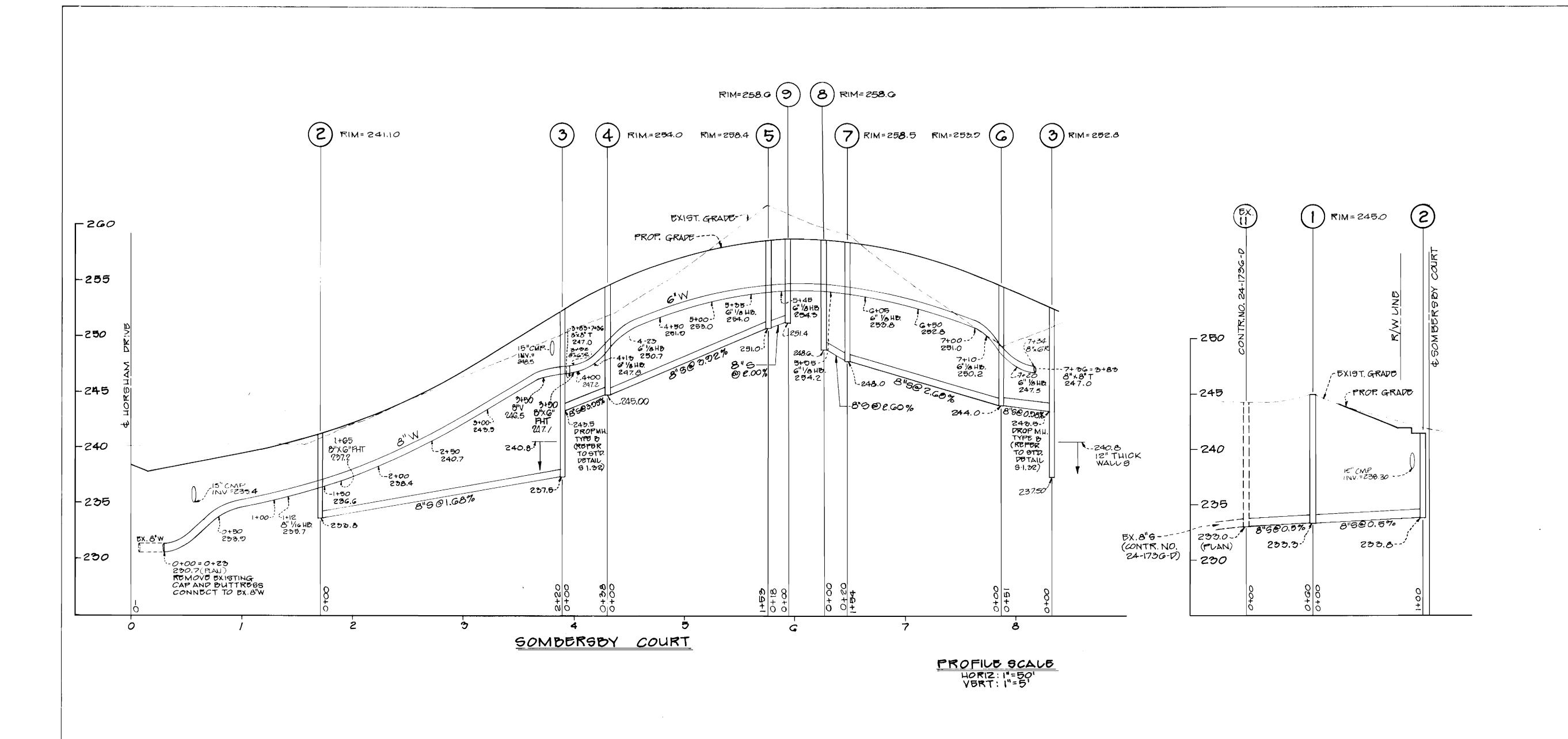


# NOTES:

- 1. ALL SEWER HOUSE CONNECTIONS TO BE 4"
- 2, ALL WATER HOUSE CONNECTIONS TO BE 1"
  WITH \$14" INSIDE METER SEPTINGS.
- 3, ALL LINITS TO BE SPRINKLERED.
- 4. ALL TWIN WATER HOUSE CONNECTIONS SHALL BE 1 1/2" WITH 3/4" INSIDE METER SETTINGS PER W 3.23.

AS SELT

DEPARTMENT OF PUBLIC WORKS BOWLING BROOK FARMS DES: KOR SCALE HOWARD COUNTY, MARYLAND PLAN DRN: FC A RESUBDIVISION OF PARCEL F LOTS F-1 THRU F-42 CONTRACT NO. 24-1870-D SHOWN 3 REVISED SEWER MAIN & SHC PER HO.CO. COMMENTS WATER & SEWER MAINS REVISED AS PER HOWARD CO. COMMENTS PATT M. MAKHES, MIST A HIST KING 1995 OF THE TOOK STAMFISH THE OUR ROOT STAMFISH WART TAKE THE TO THE TRANSPORT OF THE TOOK STATE TO THE TRANSPORT OF THE TOOK STATE TO THE TOOK STATE TO THE TOOK STATE THE TOOK STATE TO THE TOOK STATE TO THE TOOK STATE THE TOOK STATE TO THE TOOK STA SHEET PARCEL 141 TAX MAP 47 155UED TO HOWARD CO. FOR REVIEW 2 OF 3 DATE: SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE 600 SCALE MAP NO. REVISION BLOCK NO. .



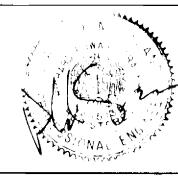
AS-BUILT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert V Barrier 12-11-99

CHIEF, LAND DEVELOMENT DIVISION DATE

PATTON, MARRIS, RUST & ASSOCIATES, PC 7609 STANDISH PLACE ROCKVILLE, MARYLAND 20858
METRO: 301-762-2220 BALT: 301-792-7244



DRN: FC

3 REVISED SEWERMAIN & SHC. FER HOWARD CO. COMMENTS 11-15-80
2 REVISED AS PER HOWARD CO. COMMENTS 10-27-89
1 165UED TO HOWARD CO. FOR REVIEW 5-10-80
HY NO REVISION DATE

PROFILES
WATER & SEWER MAINS

BLOCK N.,

OF SCALE MAP NO

BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F

A RESUBDIVISION OF PARCEL F

LOTS F-I THRU F-42

CONTRACT NO. 24-1870-D

TAX MAP 47

PARCEL 141

SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN
SHEET
3 OF 3

SCALE