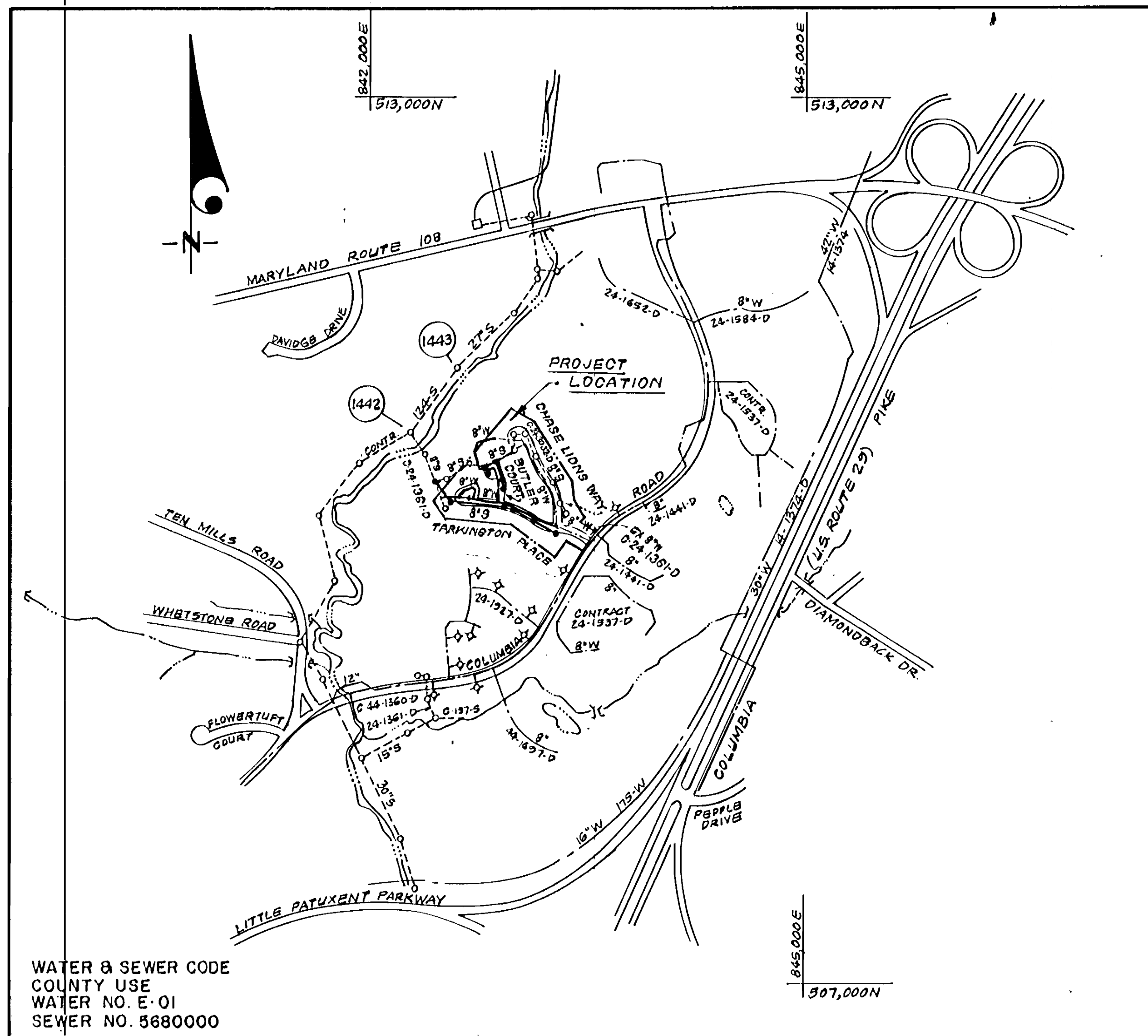


**SEWER HOUSE CONNECTION TABLE**

| LOTS | Inv @ R. | Min. C. | LOTS  | Inv @ R. | Min. C. |
|------|----------|---------|-------|----------|---------|
| F-1  | 352.3    | 355.5   | F-64  | 344.2    | 347.4   |
| F-2  | 352.1    | 355.3   | F-65  | 344.0    | 347.1   |
| F-3  | 352.0    | 355.3   | F-66  | 343.8    | 346.2   |
| F-4  | 351.9    | 355.2   | F-67  | 343.7    | 350.1   |
| F-5  | 351.8    | 355.0   | F-68  | 343.4    | 351.0   |
| F-6  | 350.9    | 354.5   | F-69  | 343.1    | 351.8   |
| F-7  | 350.7    | 354.0   | F-70  | 342.9    | 351.8   |
| F-8  | 350.5    | 353.7   | F-71  | 343.0    | 352.3   |
| F-9  | 350.2    | 353.4   | F-72  | 342.5    | 352.8   |
| F-10 | 349.4    | 352.6   | F-73  | 350.0    | 353.2   |
| F-11 | 348.7    | 351.9   | F-74  | 350.7    | 353.9   |
| F-12 | 348.2    | 351.4   | F-75  | 351.7    | 354.9   |
| F-13 | 347.7    | 350.9   | F-76  | 351.5    | 354.7   |
| F-14 | 347.2    | 350.5   | F-77  | 351.2    | 354.4   |
| F-15 | 346.4    | 349.4   | F-78  | 351.0    | 354.2   |
| F-16 | 345.2    | 348.5   | F-79  | 347.7    | 350.9   |
| F-17 | 347.8    | 345.0   | F-80  | 346.8    | 350.0   |
| F-18 | 340.0    | 343.2   | F-81  | 346.0    | 349.3   |
| F-19 | 339.7    | 342.0   | F-82  | 347.7    | 347.3   |
| F-20 | 337.9    | 340.8   | F-134 | 342.0    | 347.0   |
| F-21 | 336.2    | 339.4   | F-135 | 342.0    | 346.2   |
| F-22 | 335.0    | 338.2   | F-136 | 341.6    | 344.7   |
| F-23 | 333.8    | 336.9   | F-137 | 340.8    | 343.9   |
| F-24 | 331.8    | 335.1   | F-138 | 339.4    | 342.5   |
| F-25 | 330.1    | 333.4   | F-139 | 338.2    | 341.5   |
| F-26 | 328.8    | 332.0   | F-88  | 328.6    | 331.8   |
| F-27 | 327.4    | 330.6   | F-90  | 328.2    | 331.4   |
| F-28 | 326.2    | 329.5   | F-91  | 327.9    | 331.3   |
| F-29 | 324.9    | 328.2   | F-92  | 327.4    | 330.6   |
| F-30 | 323.5    | 326.9   | F-93  | 327.9    | 331.2   |
| F-31 | 322.8    | 325.9   | F-94  | 328.3    | 331.5   |
| F-32 | 321.8    | 325.2   | F-95  | 328.4    | 331.8   |
| F-33 | 321.3    | 324.7   | F-96  | 328.6    | 332.8   |
| F-34 | 320.7    | 323.9   | F-97  | 328.8    | 332.7   |
| F-35 | 320.1    | 323.3   | F-98  | 328.8    | 332.0   |
| F-36 | 321.7    | 324.3   | F-100 | 331.0    | 334.0   |
| F-37 | 322.3    | 325.5   | F-101 | 331.7    | 334.7   |
| F-38 | 322.8    | 325.7   | F-102 | 332.2    | 335.2   |
| F-39 | 323.0    | 326.2   | F-103 | 332.4    | 335.6   |
| F-40 | 323.6    | 326.8   | F-104 | 332.2    | 335.5   |
| F-41 | 324.1    | 327.3   | F-105 | 332.4    | 335.6   |
| F-42 | 324.5    | 327.8   | F-106 | 332.2    | 335.5   |
| F-43 | 324.4    | 327.8   | F-107 | 331.2    | 334.4   |
| F-44 | 324.7    | 328.0   | F-108 | 332.0    | 335.3   |
| F-45 | 324.2    | 327.4   | F-109 | 333.8    | 336.8   |
| F-46 | 324.7    | 328.1   | F-110 | 334.0    | 337.3   |
| F-47 | 324.7    | 328.1   | F-111 | 334.3    | 337.8   |
| F-48 | 324.7    | 328.1   | F-112 | 334.8    | 338.4   |
| F-49 | 324.0    | 327.3   | F-113 | 334.7    | 338.6   |
| F-50 | 323.2    | 326.4   | F-114 | 334.7    | 338.6   |
| F-51 | 325.9    | 329.0   | F-115 | 338.1    | 351.3   |
| F-52 | 326.8    | 329.9   | F-116 | 338.9    | 352.3   |
| F-53 | 326.7    | 329.0   | F-117 | 339.8    | 352.8   |
| F-54 | 326.8    | 329.0   | F-118 | 339.0    | 353.3   |
| F-55 | 326.9    | 329.1   | F-119 | 339.0    | 353.3   |
| F-56 | 326.9    | 329.1   | F-120 | 351.0    | 354.2   |
| F-57 | 324.6    | 338.0   | F-121 | 351.1    | 354.3   |
| F-58 | 324.1    | 337.4   | F-122 | 352.0    | 355.2   |
| F-59 | 323.8    | 337.1   | F-123 | 352.2    | 355.3   |
| F-60 | 323.3    | 336.6   | F-124 | 352.6    | 355.8   |
| F-61 | 340.6    | 343.9   | F-125 | 353.0    | 356.0   |
| F-62 | 341.0    | 344.4   | F-126 | 353.8    | 356.7   |
| F-63 | 341.8    | 345.4   |       |          |         |

PHASE TWO  
CONT. NO. 24-3267-D

PHASE ONE  
CONT. NO. 24-3032-D



WATER & SEWER CODE  
COUNTY USE  
WATER NO. E-01  
SEWER NO. 5680000

VICINITY MAP  
SCALE: 1" = 600'

**PHASE TWO  
CONTRACT NO. 24-3267-D  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA I  
LOTS F-1 THRU F-74**

**HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS**

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F-31-35, Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* 5/7/93  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:  
*[Signature]* 5/7/93  
Howard S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 5/11/93  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 5/11/93  
CHIEF, BUREAU OF ENGINEERING DATE

**CLARK, FINEPROCK & SACKETT, INC.**  
ENGINEERS - PLANNERS - SURVEYORS  
7135 WINSTREL WAY COLUMBIA, MARYLAND 21045  
(301) 381-7500 BALTO. (301) 621-8100 WASH.



|              |     |   |  |          |
|--------------|-----|---|--|----------|
| DES: J.T.R.  | JTR | 2 | Rev. SHC Table & Quantities Schedule   | 11-27-91 |
| DRN: J.T.R.  | JTR | 3 | Rev. Quantities - Added 6354 F.I.'s, inc. 550LF pipe, deleted 639 LF 24" WHC Lot F-1 Thru F-74 | 4-10-92  |
| CHK: C.C.M.  | JTR | 4 | Split Contract into two Phases   | 9-11-92  |
| DATE: Aug 90 |     |   |  |          |

TITLE SHEET

**PHASE TWO  
COLUMBIA, VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA I LOTS F-1 THRU F-74  
6TH ELECTION DISTRICT  
CONTRACT NO. 24-3267-D**

SCALE  
AS SHOWN  
SHEET  
1 OF 4

|                  |                 |
|------------------|-----------------|
| TYPE OF BUILDING | Townhouses      |
| NO. OF LOTS      | 74              |
| NO. OF WHC's     | 74              |
| NO. OF SHC's     | 74              |
| DRAINAGE AREA    | Little Patuxent |

**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 Inspector, 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. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications and Howard County Design Manual, Volume IV, 1989 Amendments. The Contractor shall have Volume IV, 1989 Amendments on the job site.
- Contractor shall locate existing utilities at his own expense.
- 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 - Underground Damage Control - 859-9004  
Baltimore Gas & Electric Company - Contractor Services - 850-4620  
Baltimore Gas & Electric Company - Trouble Shooting - 298-9001  
Miss Utility - 1-800-257-7777  
Chesapeake & Potomac (C&P) Telephone Company - 1-800-257-7777  
Bureau of Utilities Howard County - 992-2368  
Colonial Pipeline Company - 795-1390
- Trees are to be protected from damage to maximum extent. Trees 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 as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- All water mains to be D.I.R. Class 52 unless otherwise noted.
- Top 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.
- Block all fittings with concrete.
- 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 to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., 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.
- Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- Manholes designated thus: WT, shall have a Watertight Frame and Cover.

| QUANTITIES       |          |          |                                |
|------------------|----------|----------|--------------------------------|
| ITEM             | EST'D    | AS BUILT | MATERIAL / SUPPLIER            |
| 8"W              | 1,276 LF | 1,278'   | GRIFFIN PIPE                   |
| 6"W              | 390 LF   | 435'     | "                              |
| 1"WHC            | 1,270 LF | 1036'    | MUELLER Co./Belair Rd. Supply  |
| 8"V              | 4 EA     | 4 EA.    | MUELLER Co./Belair Rd. Supply  |
| 6"V (excl. P.H.) | 2 EA     | 2 EA.    | " " " " "                      |
| Fire Hydrants    | 3 EA     | 3 EA.    | " " " " "                      |
| 8"Ø              | 1,217 LF | 1188'    | NATIONAL / MFC SALES           |
| 4"SHC            | 1,845 LF | 1867'    | " " " " "                      |
| 4'Ø I.O. MH      | 8 EA     | 8        | ATLANTIC PRECAST               |
| 8" D.C. TYPE "B" | 1 EA     | 1 EA.    | NATIONAL / MFC SALES           |
| 2"WHC            | 38 LF    | 40'      | MUELLER Co./Belair Road Supply |
| 1 1/2"WHC        | 695 LF   | 700'     | " " " " "                      |

"AS-BUILT"





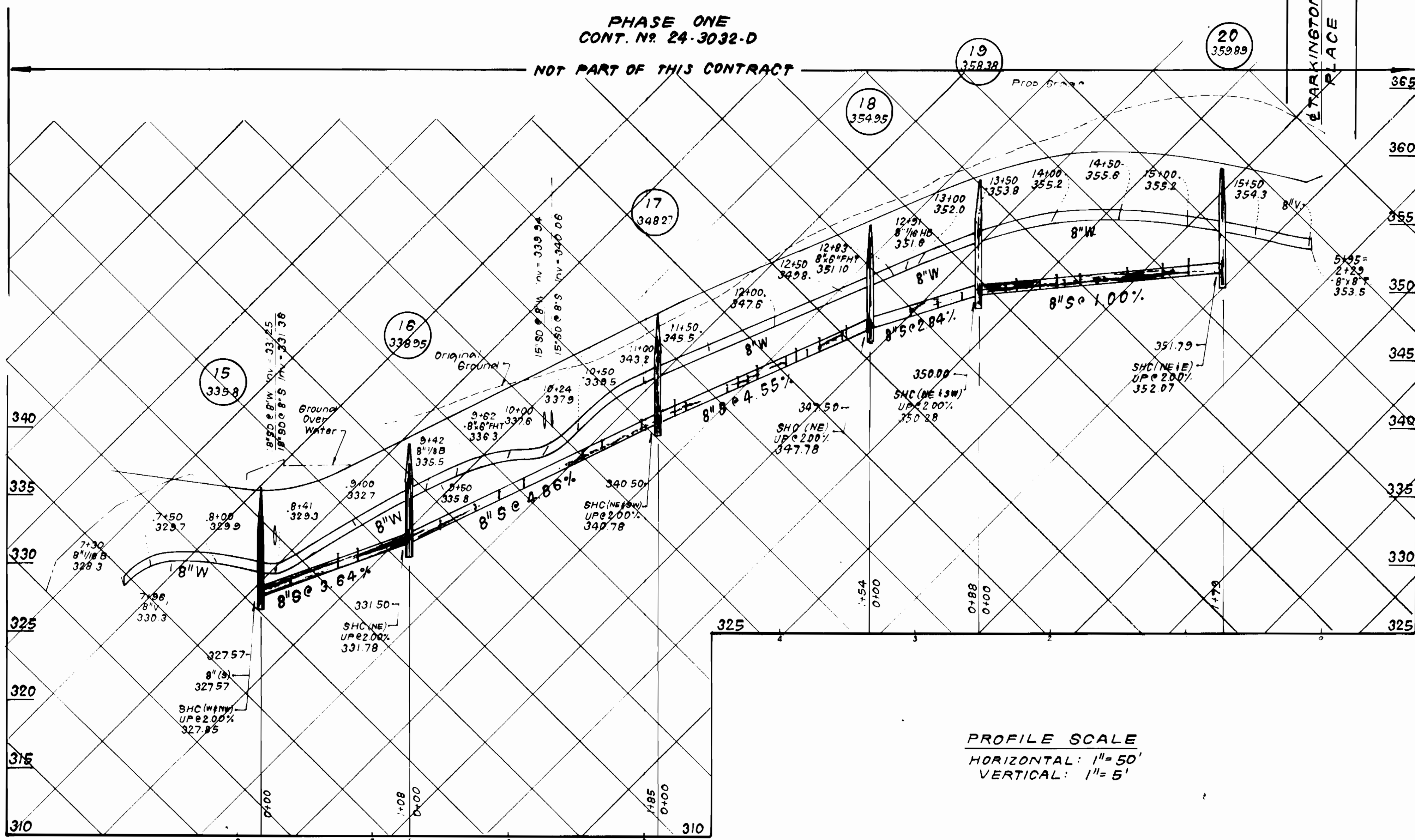




CHASE LIONS WAY

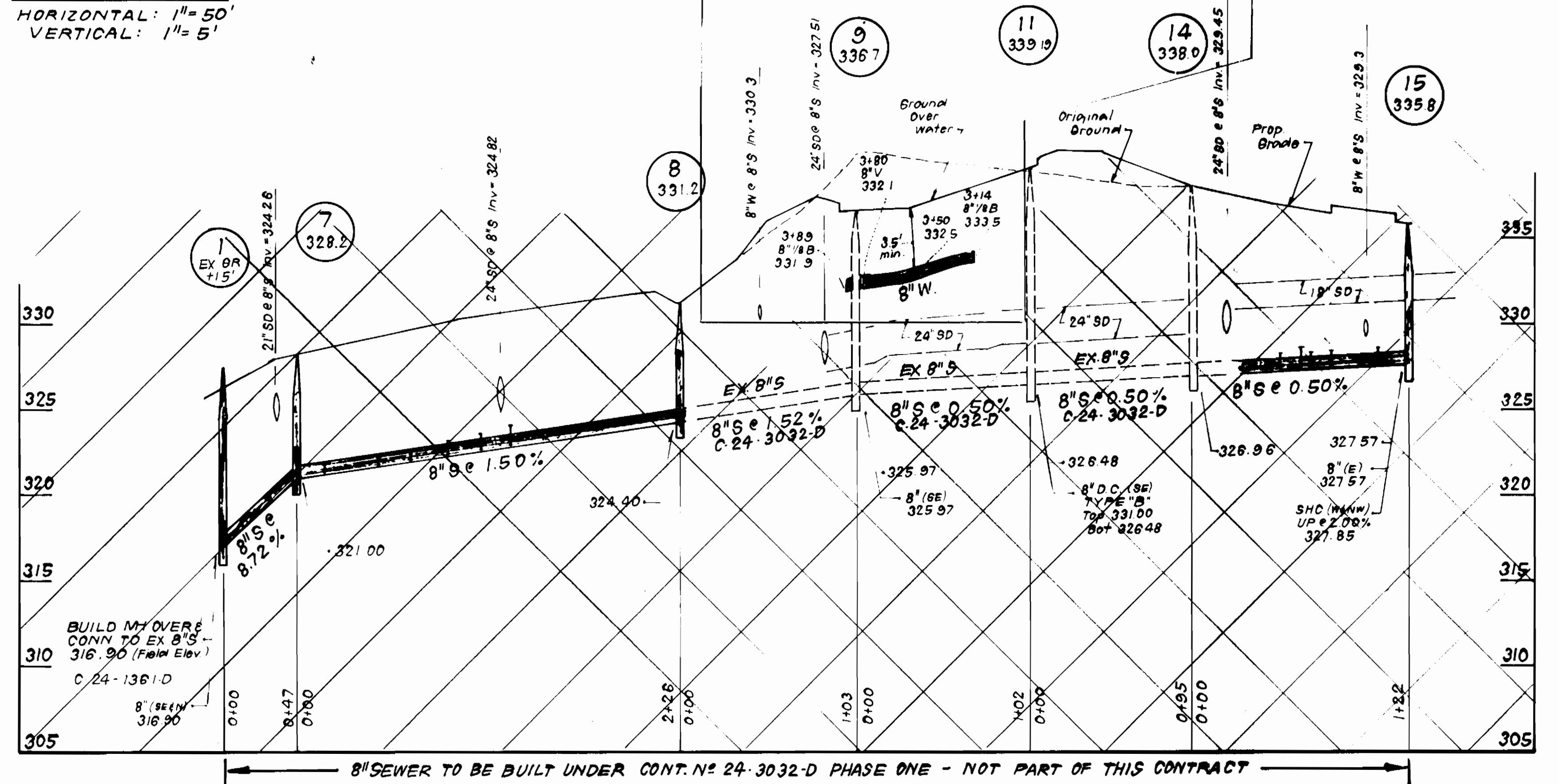
PHASE ONE  
CONT. NO. 24-3032-D

NOT PART OF THIS CONTRACT



PROFILE SCALE  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

BUTLER COURT  
8" WATER TO BE BUILT UNDER PHASE TWO  
CONT. NO. 24-3267-D



8" SEWER TO BE BUILT UNDER CONT. NO. 24-3032-D PHASE ONE - NOT PART OF THIS CONTRACT

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. Lewis* 5-11-93  
DIRECTOR OF PUBLIC WORKS DATE

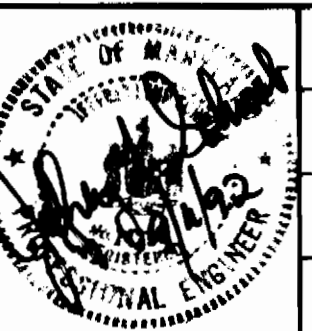
*Robert M. Bennett* 5-4-93  
CHIEF, BUREAU OF UTILITIES DATE

*William S. Pugh* 5-11-93  
CHIEF, BUREAU OF ENGINEERING DATE

*William S. Pugh* 5-11-93  
CHIEF, LAND DEVELOPMENT DIV. DATE

**CFS** CLARK - FINEFROCK & SACKETT, INC.  
ENGINEERS, PLANNERS, SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
(301) 381-7500 BALTO. (301) 621-8100 WASH.



|          |        |   |              |
|----------|--------|---|--------------|
| DES. JTR | JTR 1  | Revised Rim El Mts 3+11 and El W Sta 3+50 | Dec 7, 1990  |
| JTR      | JTR 2  | Revised Grades Chase Lions Way            | Nov 27, 1991 |
| DRN JTR  | JTR 4  | Split Contract into two Phases            | 3-11-92      |
| CHK CCM  |        |   |              |
| DATE     | Aug 90 |   |              |
| BY       | NO     | REVISION                                  | DATE         |

PROFILES OF  
WATER & SEWER MAINS

600' SCALE MAP NO. 30 BLOCK NO.

PHASE TWO  
COLUMBIA, VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA I LOTS F-1 THRU F-74  
6TH ELECTION DISTRICT  
CONTRACT NO. 24-3267-D

SCALE  
AS SHOWN

SHEET  
4 of 4

"AS-BUILT"