# Sequence of Construction

- 1. Obtain all necessary permits. (Wetlands Fermit No. 93-NT-0235)
- 2. Install Sediment Control Devices.
- 3. Obtain approval of Sediment Control Inspector
- before proceeding with construction. 4. Install 8" Sewer placing excavated dirt on
- the high side of the trench.
- 5. Stabilize all disturbed areas.
- 6. Obtain approval of Sediment Control Inspector before removing Sediment Control Devices.

Note: Contractor shall meet all conditions set forth in the terms of the Wetlands Permit.

### PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

> 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per ocre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 unreaform fertilizer (9 lbs/1000 sq ft).

> 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seedling: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per ocre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by. Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 Ibs/ocre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft) of unrotted small arain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

### TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Sediment Control Measures will be implemented in

accordance with Section 219 of the Specifications & with This Plan. For Sediment Control Details See 1983 Maryland Standards 1 Specifications for

REVIEWED FOR HOWARD SOIL CONSERVATION

U.S. SOIL CONSERVATION SERVICE

EROSION AND SEDIMENT CONTROL BY THE HOWARD

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

SOIL CONSERVATION DISTRICT.

DISTRICT AND MEETS TECHNICAL

Refer to the 1983 MARYLAND STANDARUS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

Soil Erosion and Sediment Control Std. SF-1 for Silt Fence

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)

SEDIMENT CONTROL NOTES

2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSIONS AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

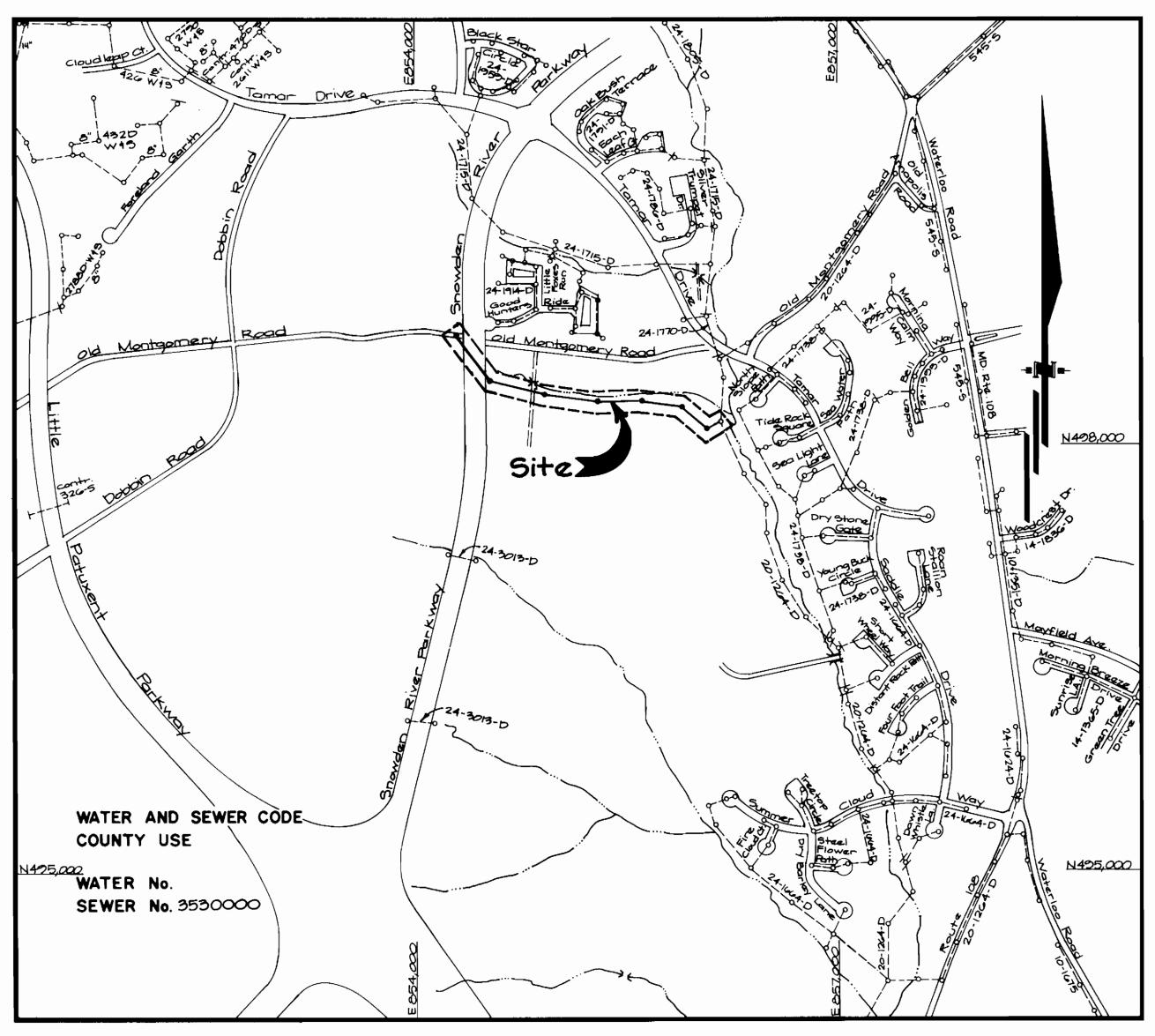
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site: 1.87 Acres Area Disturbed: 1.87 Acres Area to be roofed or paved: O Acres Area to be vegetatively stabilized: 1.87 Acres Total Cut = 25,000 C.Y. Total Fill = 25,000 C.Y. Off-Site waste/borrow area location N/A

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth approvals may not be authorized until this initial approval by the inspection agency is made.



VICINITY MAP SCALE : 1" = 600'

CONTRACT NO. 20-3255-D VILLAGE OF LONGREACH SECTION 4, AREA 3, PHASE 220 SEWER OUTFALL COUNTY, **MARYLAND** HOWARD DEPARTMENT WORKS OF **PUBLIC** 

TYPE OF BUILDING NUMBER OF UNITS NUMBER OF SHC's NUMBER OF WHC's Little Patuxent DRAINAGE AREA

### GENERAL NOTES

- 1. 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.
- 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 a 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.
- 6. For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy
- 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

| State Highway Administration                           | 531-5533          |
|--|-------------------|
| BG&E Co. Contractor Services                           | 850- <b>462</b> 0 |
| BG&E Co. Under Ground Damage Control                   | 787-9068          |
| Miss Utility   |                   |
| Colonial Pipeline Co                                   |                   |
| Howard County Dept. of Public Works, Bur. of Utilities |                   |

- 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 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 strapped and butressed with concrete in accordance with Standard Details. 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.
- 7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

- 1. All sewer mains shall be DIP, RCP, VCPX, CSPX, RCCP and 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.
- 4. Force mains shall be D.I.P. only. 5. Manholes shown with 12" and 16" walls are for brick manholes only.
- 6. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6'' above finished grade unless otherwise noted
- 7. House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

| ITEMS                          | QUANTITIES<br>ESTIMATED | OUANTITICS            | AS-E   | IUILT                     |  |  |
|--------------------------------|-------------------------|-----------------------|--|---------------------------|--|--|
|                                |                         | OLIANTITICS           |  | AS-BUILT                  |  |  |
|                                |                         | QUANTITIES            | TYPE   | MANUFACTURER/<br>SUPPLIER |  |  |
| 8" Sewer                       | 1632 I.f.               | 1. 1 1                | T.V  | . ,                       |  |  |
| 8" D.I.P. Sewer<br>4' Manholes | 446 l.f.                | 4 LF.                 | 1.41   |                           |  |  |
| 4' Manholes                    | 7 ea.                   | 7 t- A                | 1 Kb ,                                       | X - 1 - 1                 |  |  |
| Doring + Jacking               | G5 l.f.                 | . / 1-                | 111.   |                           |  |  |
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|                                |                         |                       |  |                           |  |  |
| NAME OF UTILITY                | CONTRACTOR:             | (a/\\\\ <u>\</u> = \$ | C/1/II \                                     | 1\(\cdot\) 1:             |  |  |
|                                |                         |                       | SURVEY AND                                   | CHECKBOX:                 |  |  |

# DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

GEW GUTSCHICK LITTLE&WEBER, P.A. ENGINEERS, PLANNERS, SURVEYORS 909 HATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK

BURTONSVILLE, MD. 20866

(301) 421 - 4024

DES: GAH Rev. Quantities Box Addad Wetlands Fermit No. and Note to Added Wetlands Fermit No. and Note to Construction Sequence of Added Site Analysis/HSCD 724/93

Added Boring of Jacking 8/12/43 DRN: GAH CHK: CKG Revised per HSCD Comments
Added Stubs 1
Ravised per county comments GAH DATE: 1993 BY NO. DATE 600 SCALE MAP NO. 37 BLOCK NO. 7

Sewer Outfall Plan & Profile Scale: As Shown

Village of Longreach Section 4, Area 3, Phase 220 Parcel 50

SCALE

AS

SHOWN

1 OF 3

Sixth Election District Howard County, Maryland Contract No: 20-3255-D

