DETAILS

WATER AND SEWER EXTENSIONS EMERSON

SECTION 2 PHASE 6B

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4231-D

BENCHMARKS

CONTROL STATION 47EA ELEVATION 315.266 N 535,063.631 E 1,357,283.989 LOCATED NORTH OF SCHOOL PARKING LOT EAST OF GORMAN

CONTROL STATION 47HA ELEVATION 292.292 N 531,046.905 E 1,356,987.631 LOCATED AT INTERSECTION OF WHISKEY BOTTOM ROAD AND ALL SAINTS ROAD

QUANTITIES AS-BUILT QUANTITIES ITEMS **ESTIMATED** QUANTITIES TYPE 8" WATER 390 LF 6" WATER 508 LF 3 EA FIRE HYDRANTS 1" WHC 606 LF 12"x8"TSV 2 EA 6" VALVES 2 EA 8"x6" REDUCERS 2 EA 8"x6" TEES 2 EA 8" 1/8 VB 4 EA 8" 1/8 HB 2 EA 6" 1/16 HB 1 EA 570 LF 8" SEWER 1008 LF 8" DIP CL52 SEWER MANHOLES 12 EA TYPE A DROP CONNECTION O EA TYPE B DROP CONNECTION 2 EA SEWER MANHOLE 159 VF 4" SHC 433 LF

NAME OF UTILITY CONTRACTOR Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-05-89 CHECKBOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

OWNER/DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

410-992-6000

E 1353400 TYPE OF BUILDINGS: RESIDENTIAL W & S Code DRAINAGE AREA: LITTLE PATUXENT County Use TREATMENT PLANT: LITTLE PATUXENT Water No.<u>C-02</u>___ WASTE WATER TREATMENT PLANT NUMBER OF BUILDABLE LOTS: 20 Sewer No. 7390000 NUMBER OF NON-BUILDABLE LOTS: Test Gradient: 550 NUMBER OF W.H.C.: 20 NUMBER OF S.H.C.: 20 Zone: 400

> VICINITY MAP SCALE : 1"=600'

GENERAL NOTES 1. Approximate locations of existing mains are shown. The contractor shall take all necessary precautions to

protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.

2. Topographic aerial surveys were performed on APRIL 1998 by AIR SURVEY CORP and field run survey in 1999 by DMW, INC..

3. Horizontal and Vertical Survey Controls:

The coordinates shown on the drawings are based on Maryland State Reference System NAD '83/'91 as projected by Howard County Geodetic Control Stations No. 47EA and No. 47HA. All vertical controls on NAVD '88. Vertical Controls on the drawings are elevations 315.266 and 292.292.

4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.

5. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 monies 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 Details for Construction (Latest Edition). 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 locations of the test pits. 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. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

410-850-4620 BGE (Construction Services) 410-685-1400 BGE (Emergency) 410-313-4900 Bureau of Utilities 410-795-1390 Colonial Pipeline Co. 1-800-257-7777 Miss Utility State Highway Administration 410-531-5533

1-800-743-0033 / 410-224-9210 9. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located

within the construction strip are not to be removed or damaged by the contractor.

10. The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.

11. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

WATER NOTES 1. All water mains shall be D.I.P. Class 52 unless otherwise noted.

2. Tops of all water mains shall have a minimum of 3'-6" of 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 installed in accordance with Standard Details. The 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.

SEWER NOTES 1. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.

2. All manholes shall be 4'-0" inside diameter unless otherwise noted.

3. Force mains shall be D.I.P. only.

4. Manholes shown with 12" and 16" walls are for brick manholes only.

5. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frames and covers are used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.

6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

7. Lots 3-6: gravity sewer service, first floor only. Basement sewer service to be provided by private on-site

NOTE:

1. THIS REVISED DRAWING SUPERCEDES THE PREVIOUSLY SIGNED SET.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Patton Harris Rust & Associates,pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

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| , | DATE: 5/9/05 | DWC | 1 | REV. WATER & SEWER QUAN., ADDED NOTES | | 11/3/05 | |
| 00 | | BY | NO. | REVISION | DATE | | |

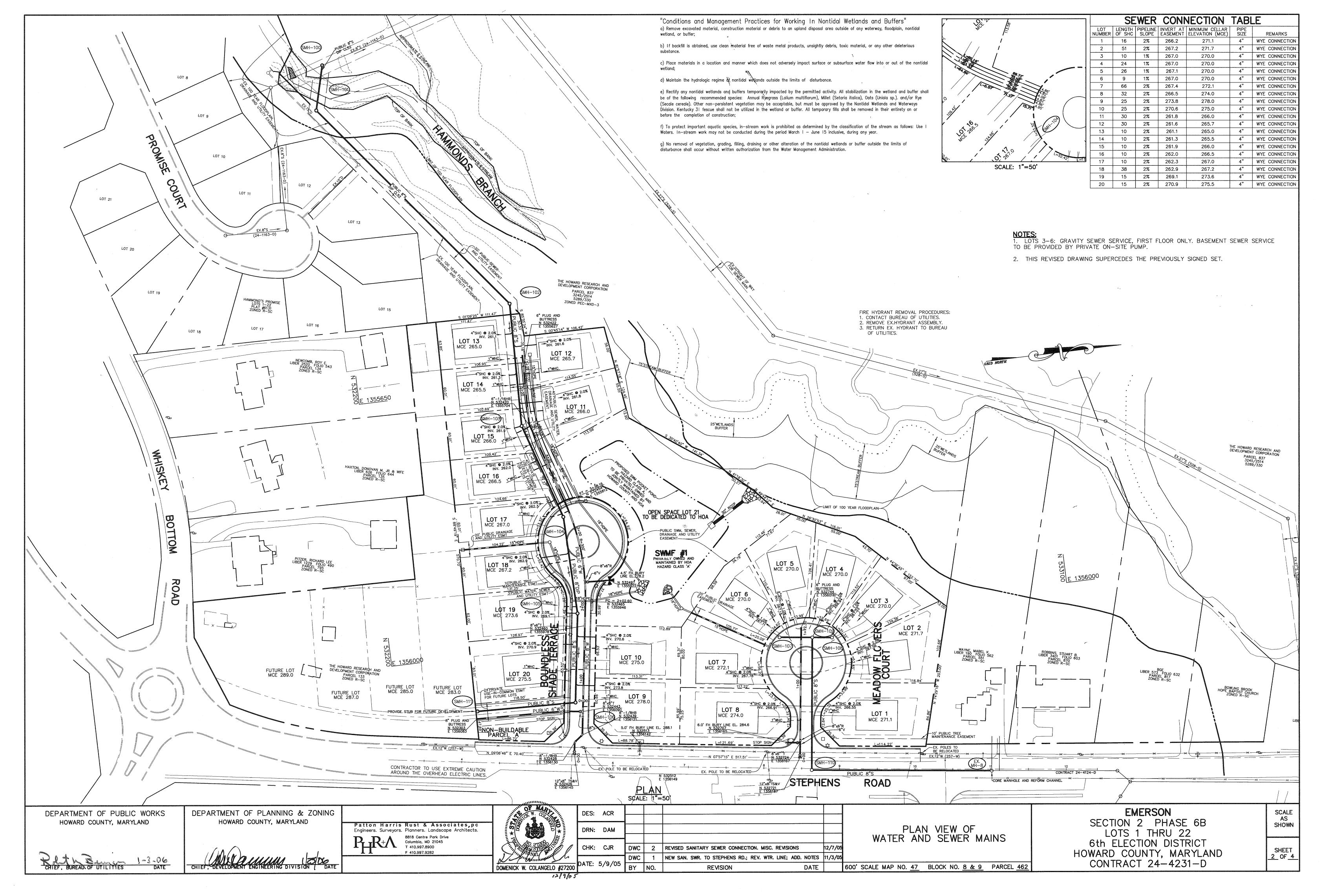
TITLE SHEET

600' SCALE MAP NO. 47 BLOCK NO. 8 & 9 PARCEL 462

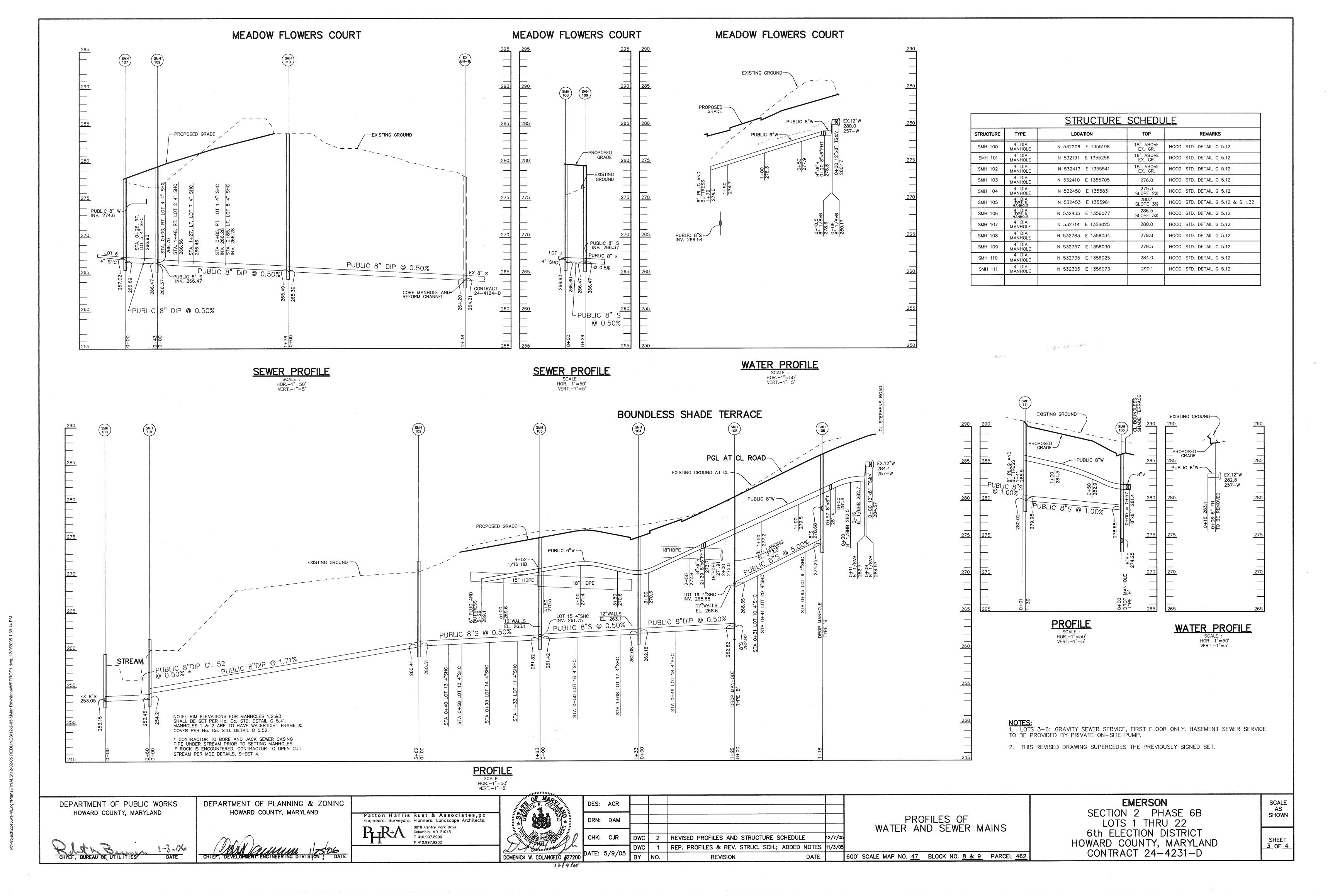
EMERSON SECTION 2 PHASE 6B LOTS 1 THRU 22 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4231-D

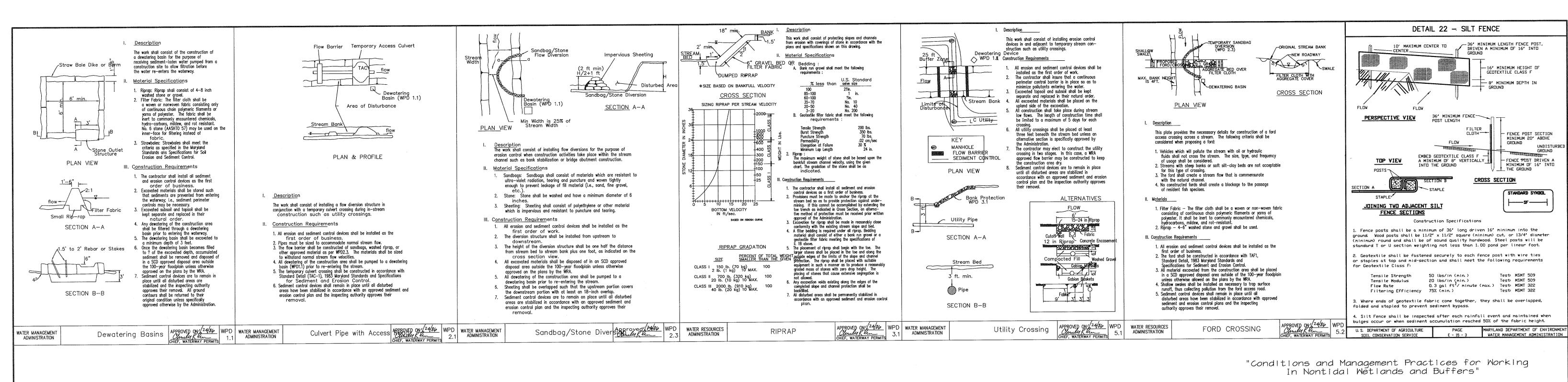
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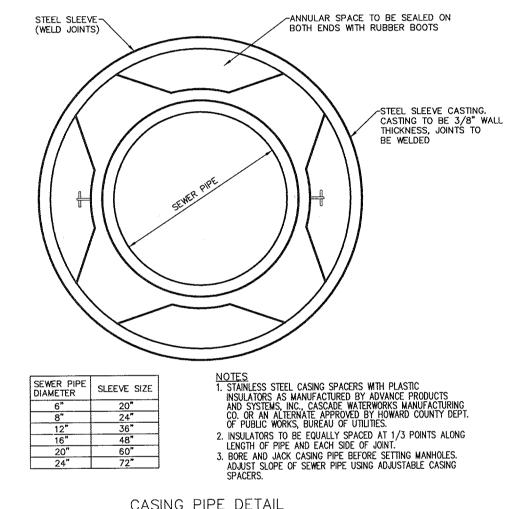
SHEET 1 OF 4



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a) Remove excavated material, construction material or debris to an upland disposal area outside of any waterway, floodplain, nontidal wetland, or buffer;

b) If backfill is obtained, use clean material free of waste metal products, unsightly

debris, toxic material, or any other deleterious substance.

c) Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of the nontidal wetland;

d) Maintain the hydrologic regime of nontidal wetlands outside the limits of disturbance.

e) Rectify any nontidal wetlands and buffers temporarily impacted by the permitted activity. All stabilization in the wetland and buffer shall be of the following recommended species: Annual Ryegrass (Lolium multiflorum), Millet (Setaria italica), Oats (Uniola sp.). and/or Rye (Secale cereale). Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in the wetland or buffer. All temporary fills shall be removed in their entirety on or before the completion of construction;

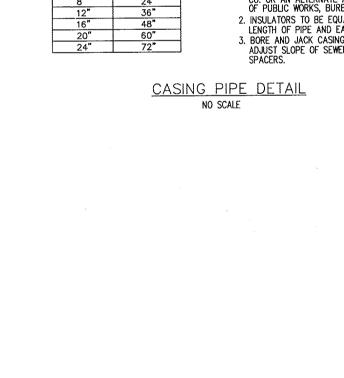
f) To protect important aquatic species, in—stream work is prohibited as determined by the classification of the stream as follows:

Use I Waters. In—stream work may not be conducted during the period March 1 — June 15 inclusive, during any year.

g) No removal of vegetation, grading, filling, draining or other alteration of the nontidal wetlands or buffer outside the limits of disturbance shall occur without written authorization from the Water Management Administration.

EMERSON

THIS REVISED DRAWING SUPERCEDES THE PREVIOUSLY SIGNED SET.



DEPARTMENT OF PLANNING & ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND



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SECTION 2 PHASE 6B LOTS 1 THRU 22 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4231-D

SCALE SHOWN SHEET

<u>4</u> OF <u>4</u>