

SEWER STRUCTURE SCHEDULE MH No. RIM ELEVATION CL OF PRIVATE DRIVE STA. 1+48.81, OFFSET 5.0' LEF 464.92 CL OF MD. ROUTE 99 STA , OFFSET 17' RT

GENERAL NOTES WITHIN COLONIAL PIPELINE CONSTRUCTION

1. NOTIFY MR. R.R. ZEPP (410/540-4101) AT LEAST (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION, SUBSEQUENT MAINTENANCE, OR REPAIR, SO THAT HE MAY PROVIDE A REPRESENTATIVE AT THE SITE.

INDERGROUND UTILITIES, LE., STORM DRAINS, WATERLINES, ELECTRIC AND TELEPHONE CABLES, MAY CROSS THE EASEMENT PROVIDED THEY MAINTAIN A MINIMUM VERTICAL CLEARANCE OF TWO (2) OVER OR UNDER COLONAL'S 1 - 8', 1 - 8' & 2 - 12' PEPELINES AND CROSS AT AS NEAR A PERPENDICULAR ANGLE AS PRACTICAL ALL UTILITY CROSS OF COLONIAL'S PIPE LINES & RESPECTIVE EASEMENTS MUST BE CONSTRUCTED OF GALVANIZED STEEL, DUCTILE IRON, OR CONCRETE ENCASED PVC FOR THE ENTIRE WIDTH OF THE RIGHT-OF-WAY BEING

11. TEMPORARY EQUIPMENT CROSSINGS OVER THE PIPELINES ARE PERMITTED WITH SIX (8) VER-TICAL FEET OF COVER OVER THE PIPELINES AT SELECTED LOCATIONS AS APPROVED BY CO-

14. REMOVAL OR RELOCATION OF COLONIAL'S PIPELINE MARKERS SHALL NOT BE PERMITTED WITH-OUT THE APPROVAL OF A COLONIAL'S REPRESENTATIVE, PIPELINE MARKERS IMADE UNUSABLE OF DAMAGED SHALL BE REPAIRED OR REPLACED AT THE ENCROACHING PARTY'S EXPENSE.

16. ALL PROPOSED ROADWAYS AND PARKING AREAS MUST MAINTAIN A MINIMUM VERTICAL CLEAR-ANCE OF 4.5 FEET FROM TOP OF PIPE TO TOP OF FINISHED ROAD SURFACE AND 3 FEET MINIMUM VERTICAL CLEARANCE IN OPEN DRAINAGE OR ROAD DITCHES, IF THESE CLEARANCES CANNOT BE MAINTAINED, CONCRETE PROTECTIVE SLABS PER COLONIAL ATTACHED DRAININGS SHALL BE INSTALLED TO PROTECT THE PIPELINES.

 BURNING OF TRASH, BRUSH, DEBRIS, ETC. SHALL NOT BE PERMITTED WITHIN COLONIAL'S RIGH OF WAY. 18. SHOULD ANY DAMAGE OCCUR TO THE HEREIN PERMITTED ENCROACHMENT, AS A RESULT OF CO-LONIAL EXERCISING ANY OF ITS RIGHTS AT ANY TIME COLONIAL WILL NOT BE RESPONSIBLE FOR SAID DAMAGES; AND ANY EXPENSE OR MONETARY COST INVOLVED IN THE REPAIR OF SAID DA-MAGES WILL BE BORNE BY OWNERS OF SAID DAMAGED ENCROACHMENT.

## BENCHMARKS

HOWARD CO. MON. # BENCHMARK # 1 TOP OF NUT OF FH

ELEV. 474.2

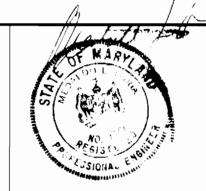
HOWARD CO. MON. # BENCHMARK # 2 R R SPIKE IN C&P POLE No. 79

ELEV. 477.06

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL

12/23/93

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION



MAPLEWOOD

BETHANY

REED LA

WATER AND SEWER CODE

TYPE OF BUILDING \_ SINGLE FAMILY

No. OF WATER HOUSE CONNECTIONS \_6 No. OF SEWER HOUSE CONNECTIONS 10 DRAINAGE AREA PATAPSCO

TREATMENT PLANT PATAPSCO VIA ROUTE 108

HUMPING STATION

FOR COUNTY USE ONLY.

WATER No. 405 SEWER No. 575\$200 TEST GRADIENT 780

NUMBER OF LOTS .

GERMAN RD.

MANOR

NORTH

TWICK

∘FARM

RED - LINED JER DES : MLL PROVIDE NEW SEWER MANHOLE CONNECT SEWER TO EX. MH#36 DRN : AVG CHK : MLL DATE :12-30-92 NO. REVISION

CONTRACT No. 24-3252-D

MC KENZIES

CHAMBERLEA

ROAD

LOCATION MAP

SCALE : 1'' = 600'

BETHAN VILLEE SECTION 3

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

17EA

BETH

WOOL

HANNON CT

GUDEL DR ASHBROOK

THORNBROWD

JOHNS LA

SAINT JOHNS

GREEN

B-22-34

5-29-96

Mt HEBRON HS

7EB

SKY VIEW

LANE

DISCOVERY

PLAN & PROFILE OF WATER & SEWER MAINS CONTRACT NO. 24-3252-D DATE 600' SCALE MAP NO. 17

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 uninterupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expenses.

2. All horizontal controls are based on Maryland State Coordinates.

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 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 mate rials and construction methods use Howard County Design Manuals, Vol. IV, Standard specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.

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 the construction operations at his own expense.

8. Contractors shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

531-5533 State Highway Administration BONE Co. Contractor Services 850-4620 BG&E Co. Under Ground Damage Control 787-9068 1 800 257-7777 Miss Utility Colonial Pipeline Co. 795 - 1390Howard County Department of Public Works Bureau of Utilities 313-4900

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. Contractors 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.

11. All water mains to be D.I.P. Class 52 unless otherwise

12. Tops of all water mains to have a minmum of 3 1, 2 cover otherwise noted.

13. Valves adjacent to tees shall be strapped to tees.

14. All fiitings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.

15. Fire hydrants shall be set to the burry line elevations shown on the drawings. All fire hydrants shall be restrained in accordance with detail W.1-11 and W.2-13. Soil around the fire hydrant shall be compacted accordance with Section 1000 and 1005 of the Standard

16. The contractor shall not operate any water main valves on existing water system.

17. All water house connections shall be for inside meter

setting unless otherwise noted on plans or in specifications. 18. All sewer mains shall be D.I.P. RCP, VCPX, CSPX, RCCP

and P.V.C. unless otherwise noted. 19. The contractor shall provide a joint in all sewer mains with

in 2'-0" of exterior manhole wall. 20. All manholes shall be 4'-0" inside diameter unless other-

wise noted.

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

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

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

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

25. Horizontal and vertical datum are based on Maryland State coordinate system as projected by Howard County Station (NAD 83) 17EA AND 17EB

WATER + SEWER AS-BUILTS

COVER SHEET

SCALE AS SHOWN

SHEET

\_1\_OF\_2

BETHANY VILLAGE SECTION

LOTS 5 THRU 17

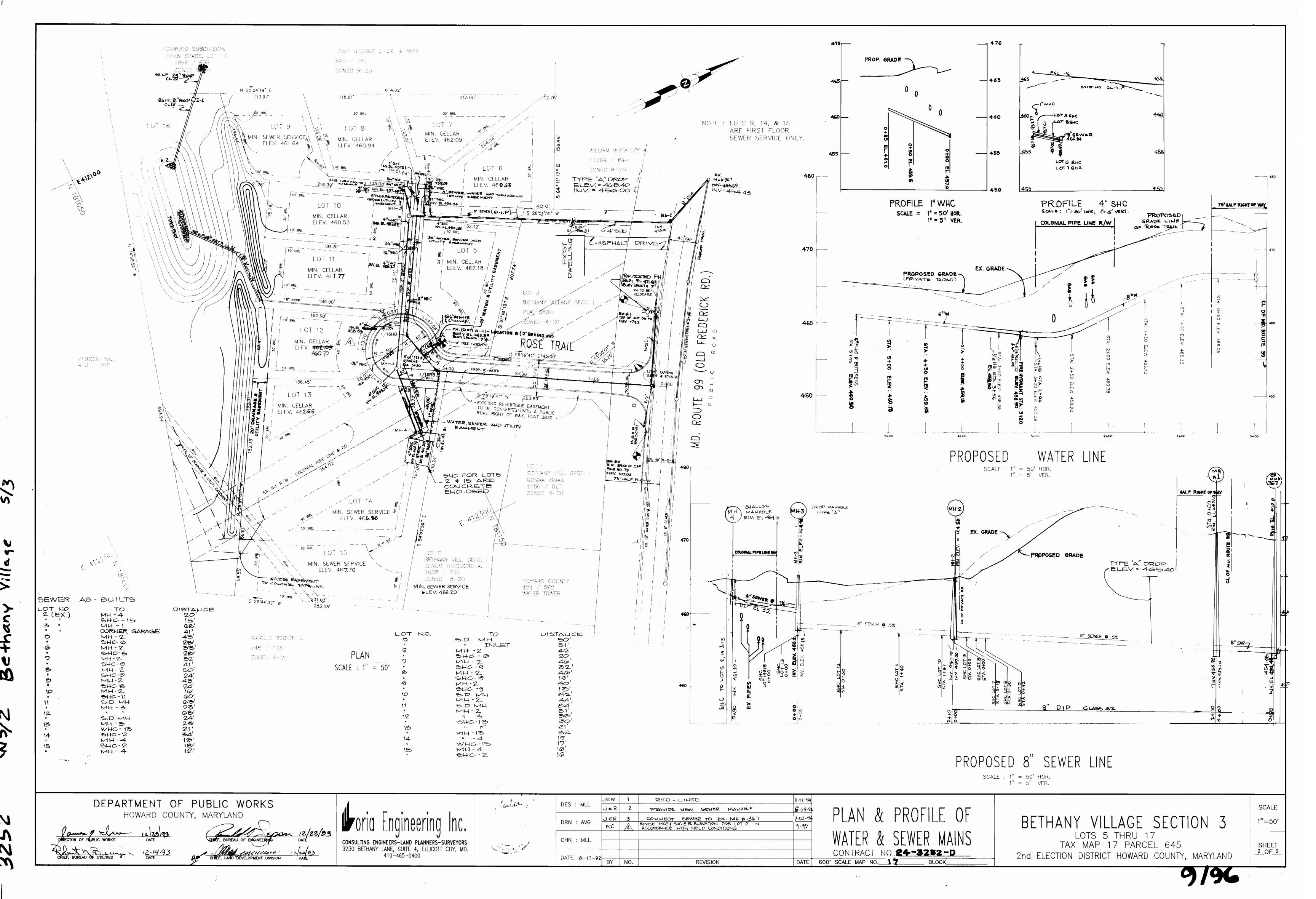
TAX MAP 17 PARCEL 645 2nd ELECTION DISTRICT HOWARD COUNTY, MASYLAND

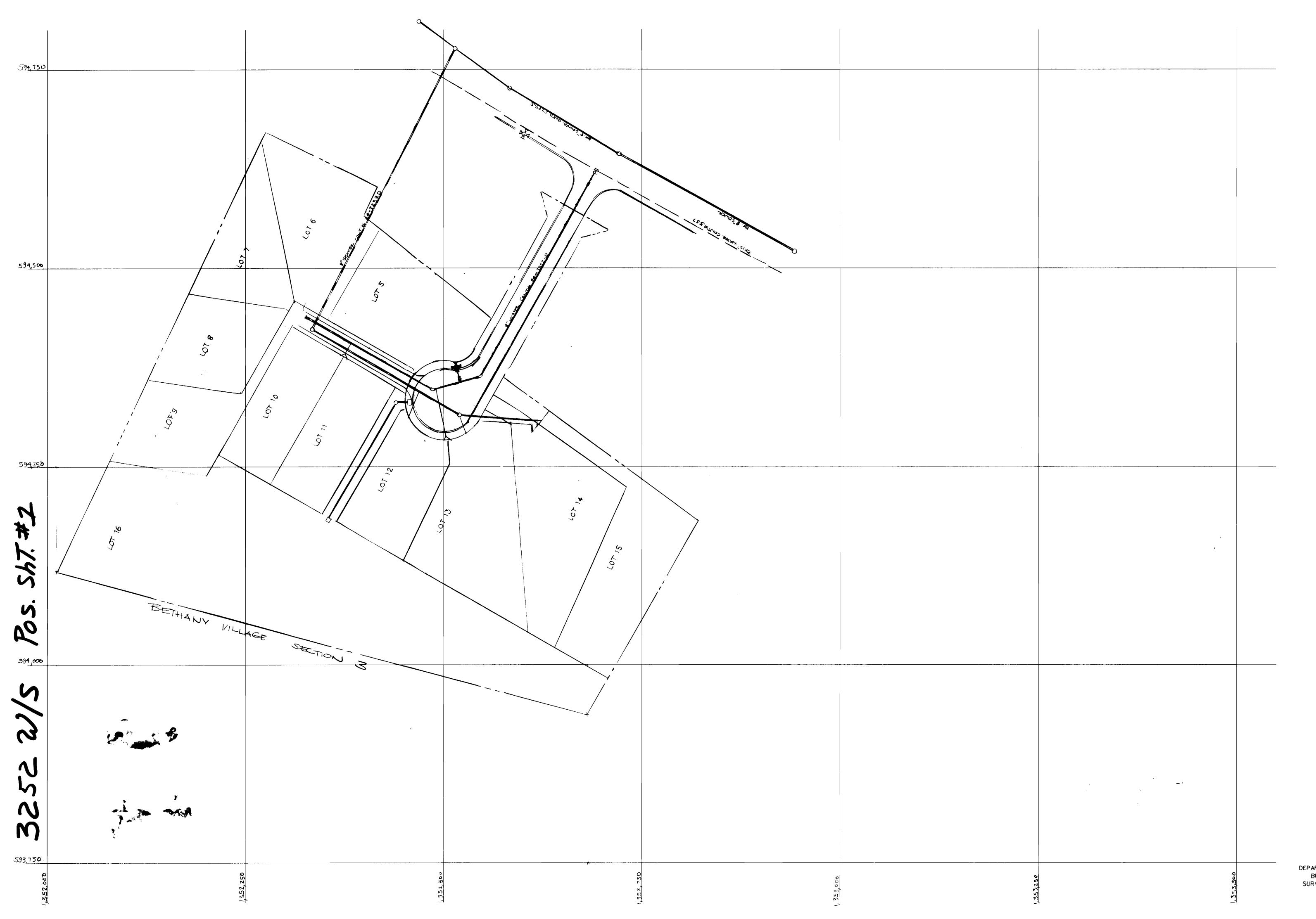
BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-93 73

FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT TECHNICAL REQUIREMENTS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CONSULTING ENGINEERS-LAND PLANNERS-SURVEYORS 3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD. 410-465-0400





HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SURVEY & DRAFTING DIVISION

Scale : 1" - 50'