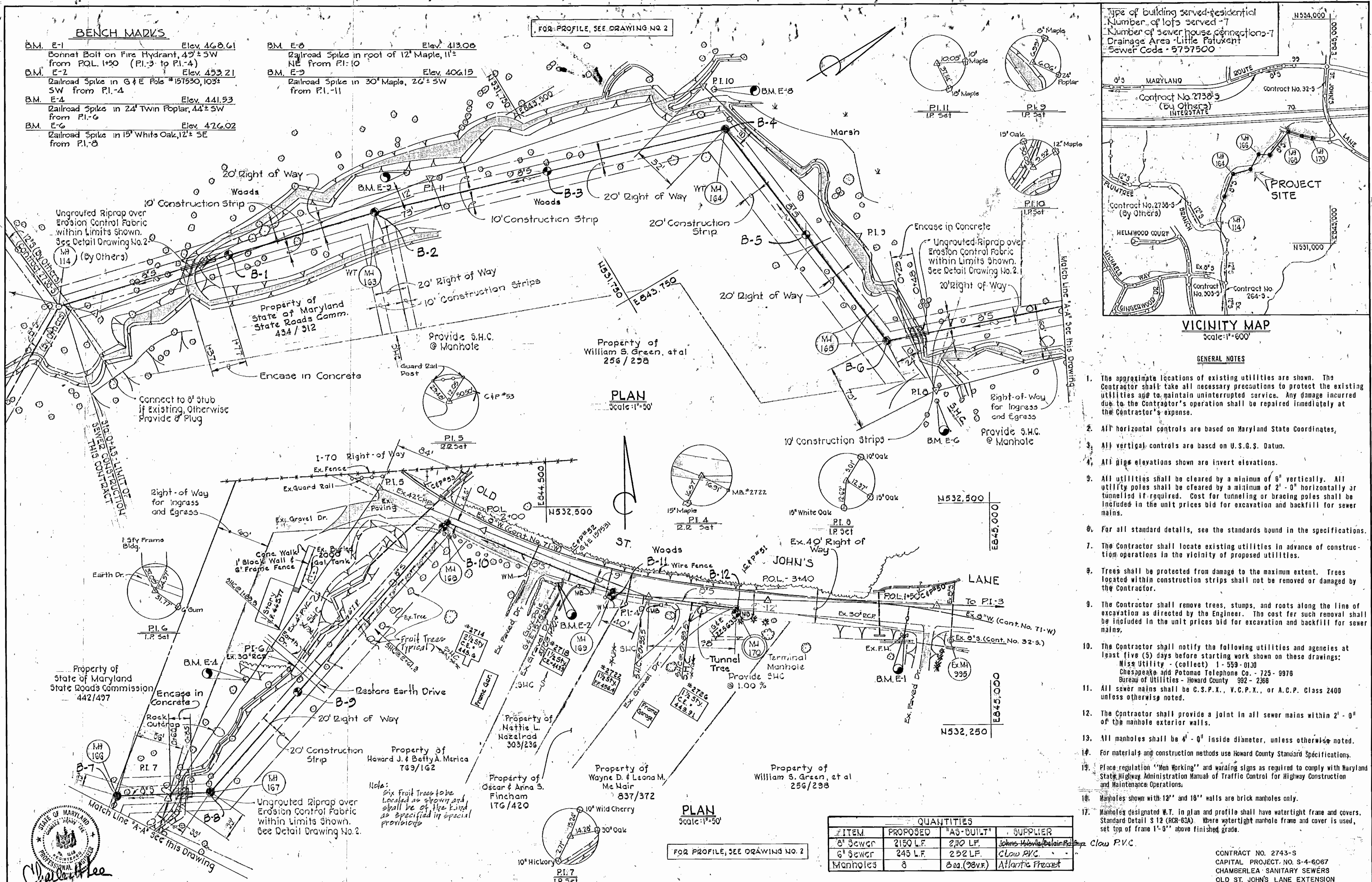


FOR PROFILE, SEE DRAWING NO. 2

BENCH MARKS

B.M. E-1	Elev. 468.61
Bonnet Bolt on Fire Hydrant, 4'± SW from P.O.L. 1+50 (P.I. 3 to P.I. 4)	
B.M. E-2	Elev. 453.21
Railroad Spike in G & E Pole #157530, 103'± SW from P.I. 4	
B.M. E-4	Elev. 441.53
Railroad Spike in 24' Twin Poplar, 44'± SW from P.I. 6	
B.M. E-6	Elev. 426.02
Railroad Spikes in 15' White Oak, 12'± SE from P.I. 8	

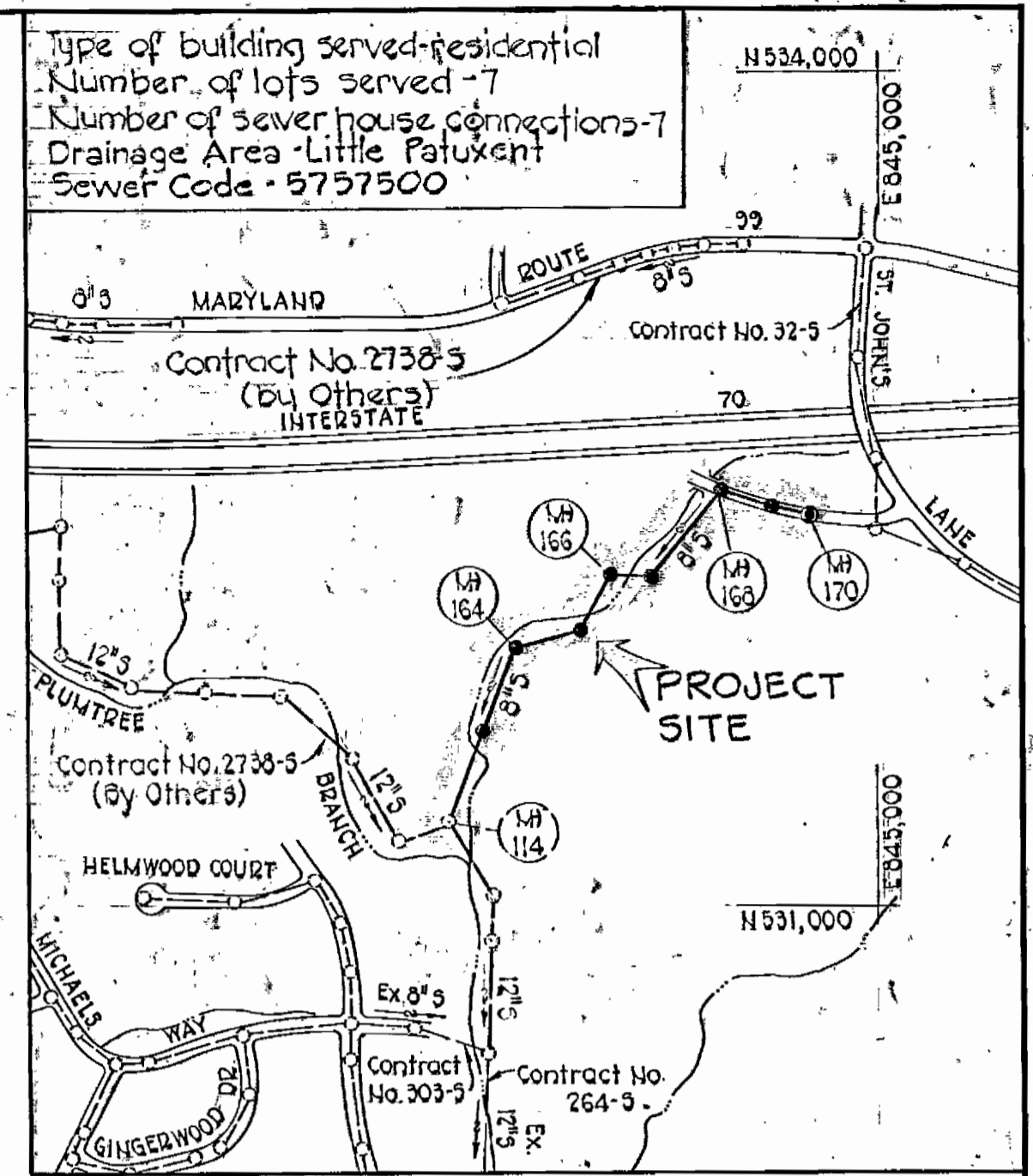
B.M. E-8	Elev. 413.06
Railroad Spike in root of 12' Maple, 11'± NE from P.I. 10	
B.M. E-9	Elev. 406.15
Railroad Spike in 30' Maple, 26'± SW from P.I. 11	



PLAN
Scale: 1"=50'

PLAN
Scale: 1"=50'

FOR PROFILE, SEE DRAWING NO. 2



VICINITY MAP
Scale: 1"=600'

GENERAL NOTES

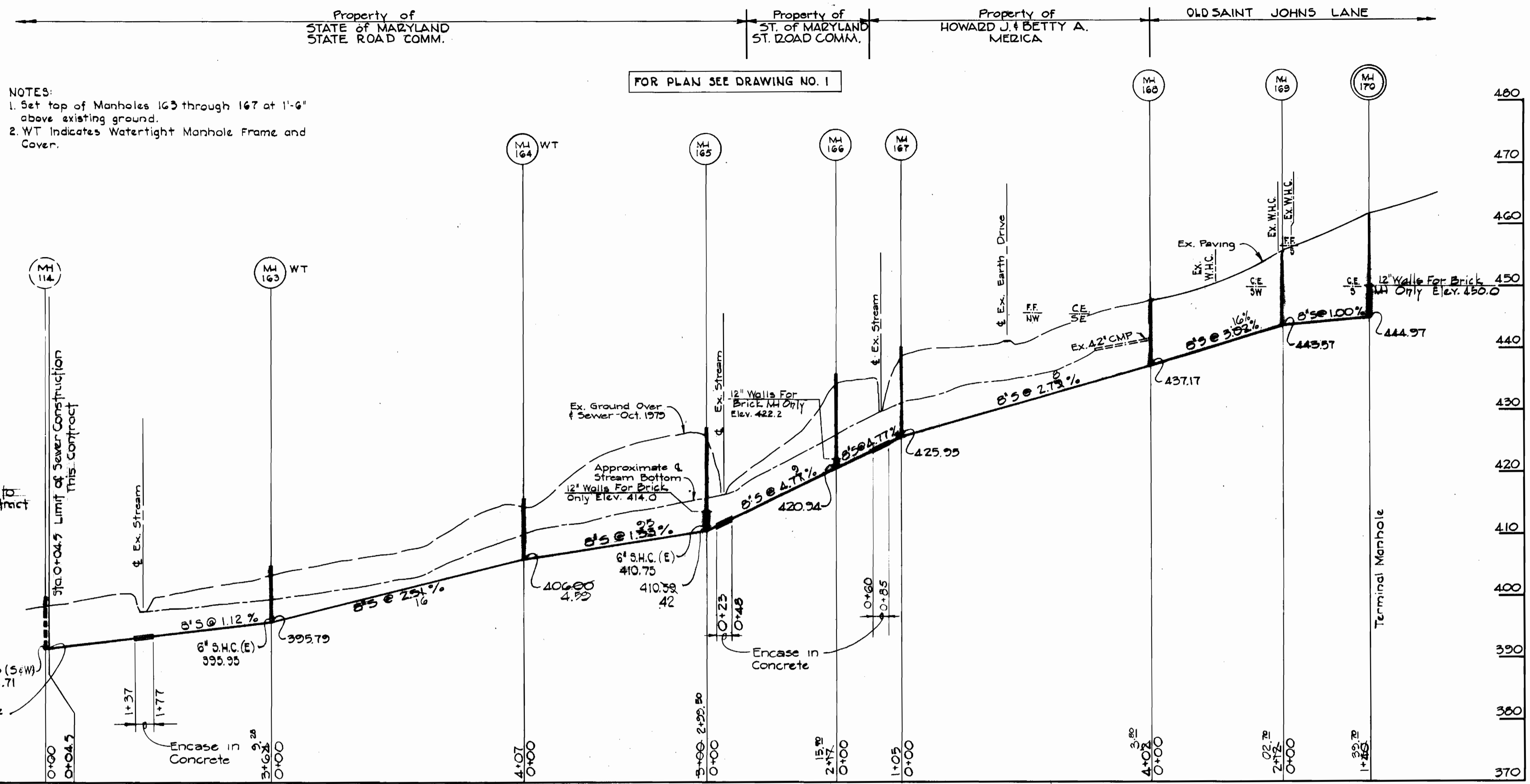
- The approximate locations of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to the Contractor's operation shall be repaired immediately at the Contractor's expense.
- 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.
- All utilities shall be cleared by a minimum of 6" vertically. All utility poles shall be cleared by a minimum of 2' - 0" horizontally or tunneled if required. Cost for tunneling or bracing poles shall be included in the unit prices bid for excavation and backfill for sewer mains.
- For all standard details, see the standards bound in the specifications.
- The Contractor shall locate existing utilities in advance of construction operations in the vicinity of proposed utilities.
- Trees shall be protected from damage to the maximum extent. Trees located within construction strips shall not be removed or damaged by the Contractor.
- The Contractor shall remove trees, stumps, and roots along the line of excavation as directed by the Engineer. The cost for such removal shall be included in the unit prices bid for excavation and backfill for sewer mains.
- The Contractor shall notify the following utilities and agencies at least five (5) days before starting work shown on these drawings:
Miss Utility - (collect) 1-559-0130
Chesapeake and Potomac Telephone Co. - 725-9978
Bureau of Utilities - Howard County 992-2368
- All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 unless otherwise noted.
- The Contractor shall provide a joint in all sewer mains within 2' - 0" of the manhole exterior walls.
- All manholes shall be 4' - 0" inside diameter, unless otherwise noted.
- For materials and construction methods use Howard County Standard Specifications.
- 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.
- Manholes shown with 12" and 18" walls are brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers. Standard Detail S 12 (RCR-63A). Where watertight manhole frame and cover is used, set top of frame 1'-9" above finished grade.

QUANTITIES

ITEM	PROPOSED	AS-BUILT	SUPPLIER
8" SEWER	2150 L.F.	2110 L.F.	Johns Manville/Clow P.V.C.
6" SEWER	245 L.F.	232 L.F.	Clow P.V.C.
Manholes	8	8ea. (28v.r.)	Atlantic Press



PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF - BUREAU OF UTILITIES DATE 3-19-81 DIRECTOR OF PUBLIC WORKS - DATE 3-18-81 CHIEF - BUREAU OF ENGINEERING - DATE 3-18-81	CONTRACT NO. 2743-S CAPITAL PROJECT NO. S-4-6067	PLAN CHAMBERLEA SEWER MAINS	CHAMBERLEA SANITARY SEWERS OLD ST. JOHN'S LANE EXTENSION ELECTION DISTRICT NO. 2	DRAWING NO. 1 OF 2	SCALE 1" = 50'	Designed: NLS Drafted: PWR Checked: REP
		AS BUILT			JUNE 27, 1982		



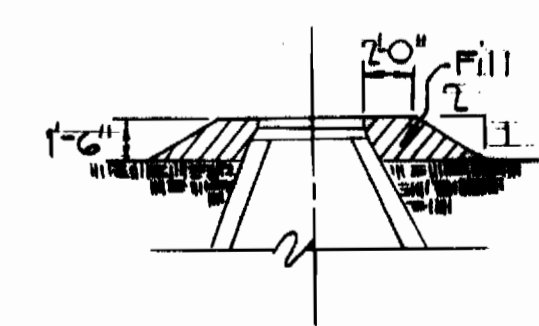
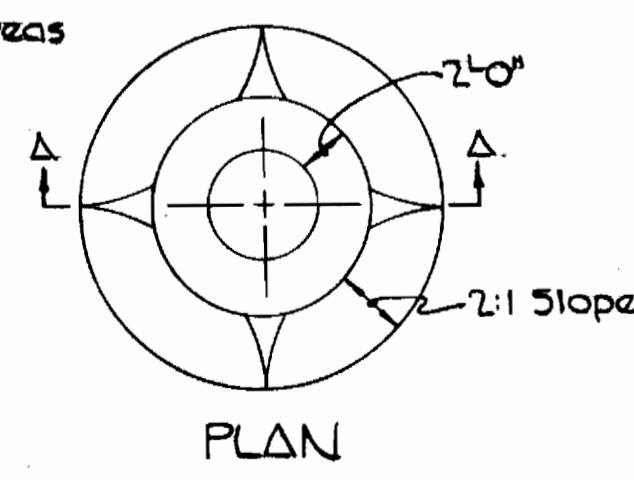
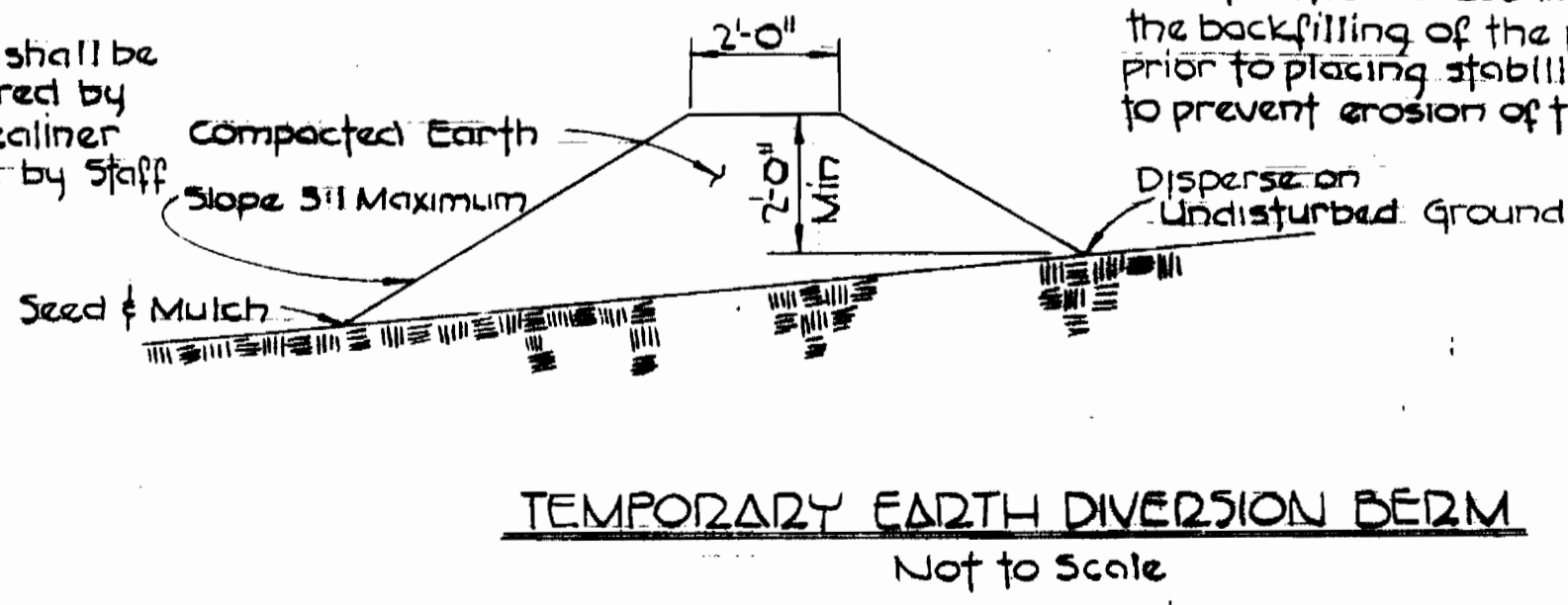
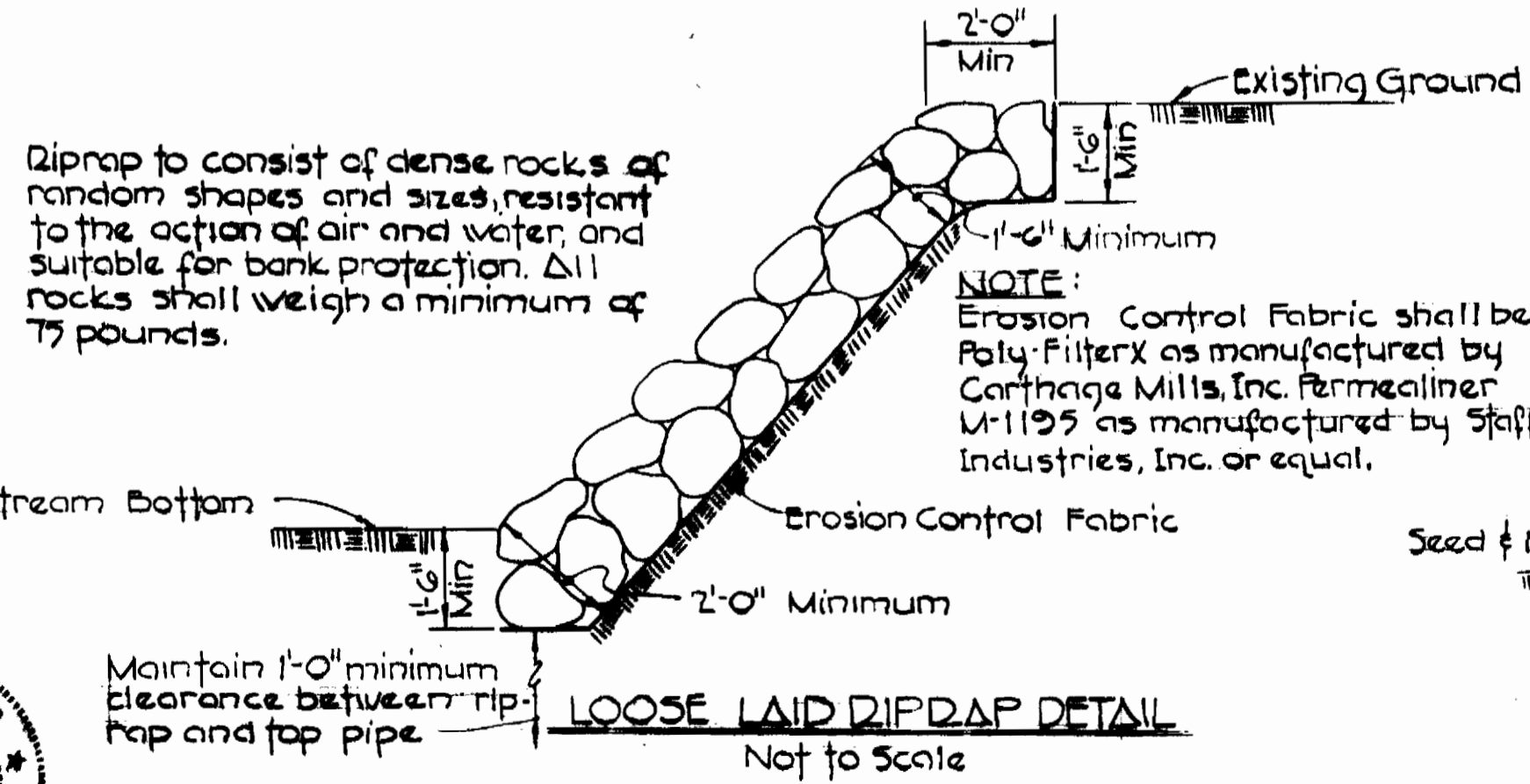
NOTES:
 1. Set top of Manholes 163 through 167 at 1'-6" above existing ground.
 2. WT Indicates Watertight Manhole Frame and Cover.

FOR PLAN SEE DRAWING NO. 1

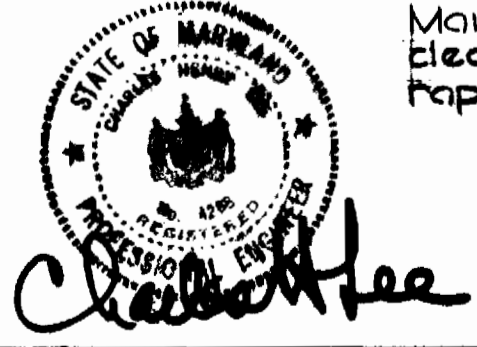
PROFILE

Scale Horiz. 1" = 100'
 Vert. 1" = 10'

Diversion berms are required every 250 feet on continuous slopes of 4% or greater. The berms shall conform to the typical section shown hereon and shall be constructed across the construction areas immediately after the backfilling of the pipe trench and prior to placing stabilization in order to prevent erosion of the backfilled areas



FILL AT MANHOLE
 Not to Scale



PURDUM & JESCHKE
 ENGINEERS
 1023 N. CALVERT ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief-Bureau of Utilities
 Chief-Bureau of Engineering

CONTRACT NO. 2743-S
 CAPITAL PROJECT NO. S-4-6067

PROFILE & DETAILS
 CHAMBERLEA SEWER MAINS

CHAMBERLEA SANITARY SEWERS
 OLD ST. JOHN'S LANE EXTENSION
 ELECTION DISTRICT NO. 2

DRAWING NO. 2 OF 2
 SCALE AS SHOWN
 Designed: NLS
 Drafted: PWR
 Checked: REP