

NOTE: RESTORE THE ENTIRE EASEMENT, WITH THE EXCEPTION OF THE AMICO'S FLOWER BED, WITH SOIL. IF THE FLOWER BED IS DISTURBED, RETURN IT TO IT'S ORIGINAL CONDITION.

NOTE: CONSTRUCTION TO BE KEPT TO A MINIMUM ON AMICO SIDE OF EX. EASEMENT

BENCH MARKS

BM1 HOWARD COUNTY NO. 2240003-R
 COORDINATES: N 486,704.410
 E 838,788.085
 ELEV. 375.134

BM2 HOWARD COUNTY NO. 2240012
 COORDINATES: N 486,908.704
 E 838,903.564
 ELEV. (SEE VICINITY MAP)

TRAVERSE DATA

HOWARD CO. BM 2240003R	N 487,041.410	E 838,788.085
S 48° 07' 49" E 1279.623'	N 486,187.340	E 839,740.976
H.E.C. TRAV.P.T. 101	N 486,385.801	E 839,811.5306
N 19° 34' 16" E 210.630'	N 486,460.931	E 839,738.7146
H.E.C. TRAV.P.T. 102	N 486,495.581	E 839,647.1976
N44° 06' 14" W 104.626'	N 486,298.866	E 839,602.8716
H.E.C. TRAV.P.T. 103	N 486,298.866	E 839,602.8716
N69° 15' 45" W 97.857'		
H.E.C. TRAV.P.T. 104		
S12° 41' 54" W 201.647'		
H.E.C. TRAV.P.T. 105		
N47° 39' 22" W 1102.383'		
HOWARD CO. BM 2240003R		

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 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 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLMITIC 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.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (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 (1.05 LBS/1000 SQ. FT.) OF KEEPING LOOSESOIL. 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 500. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/4 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 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.

SEQUENCE OF CONSTRUCTION (S.O.C.)

- CONTACT BUREAU OF CONSTRUCTION INSPECTION (792-7272)
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219
- EXCAVATE AND INSTALL PROPOSED SEWER MAIN
- RESTORE EARTH TRENCH TO ITS ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS
- FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING EXCEPT AS NOTED.
- UPON PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED

QUANTITIES

ITEM	UNIT	ESTIMATE	AS-BUILT	SUPPLIER
8" SEWER	L.F.	86		
4" S.H.C.	L.F.	2		
STD 4" MH, TYPE 'A'	EA.	1		
STD 4" MH, TYPE 'B'	EA.	1		

RESTORATION SCHEDULE

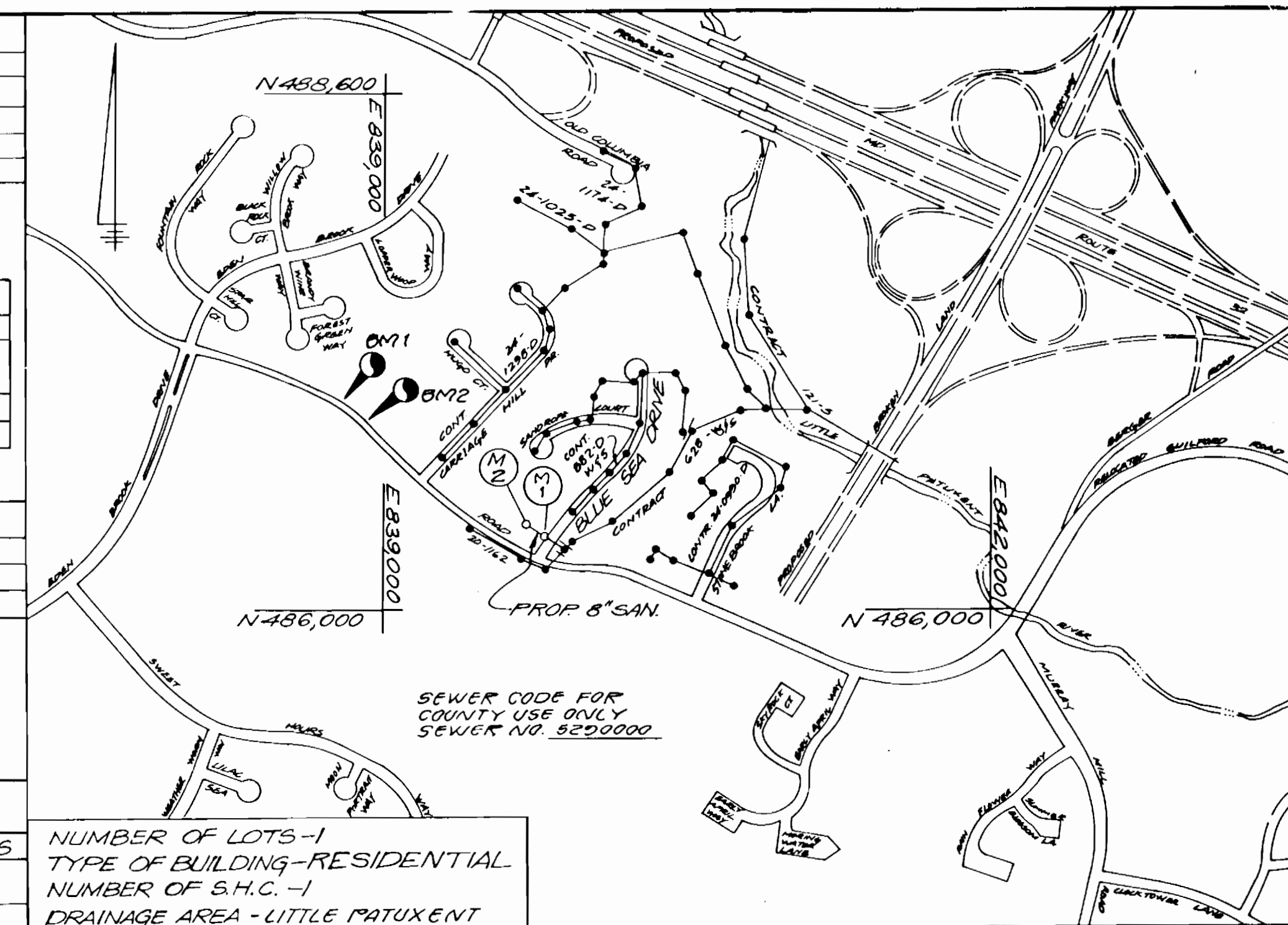
LOCATION	DISTANCE	TYPE
FROM MH 1 TO FROM MH 2	90 L.F.	50D
FROM MH 2 TO 10	5 L.F.	50D

MANHOLE STAKEOUT TABLE

MANHOLE	DISTANCE	OFFSET
MH 1	M. 102 TO M. 103, STA. 0+21	5' RT.
MH 2	M. 103 TO M. 104, STA. 0+09	13' LT.

SEWER HOUSE CONNECTIONS INVERT ELEVATIONS AT PROPERTY LINE

STATION	LOT	ELEVATIONS
MH 2 TO 10	HSE # 8785	330.0

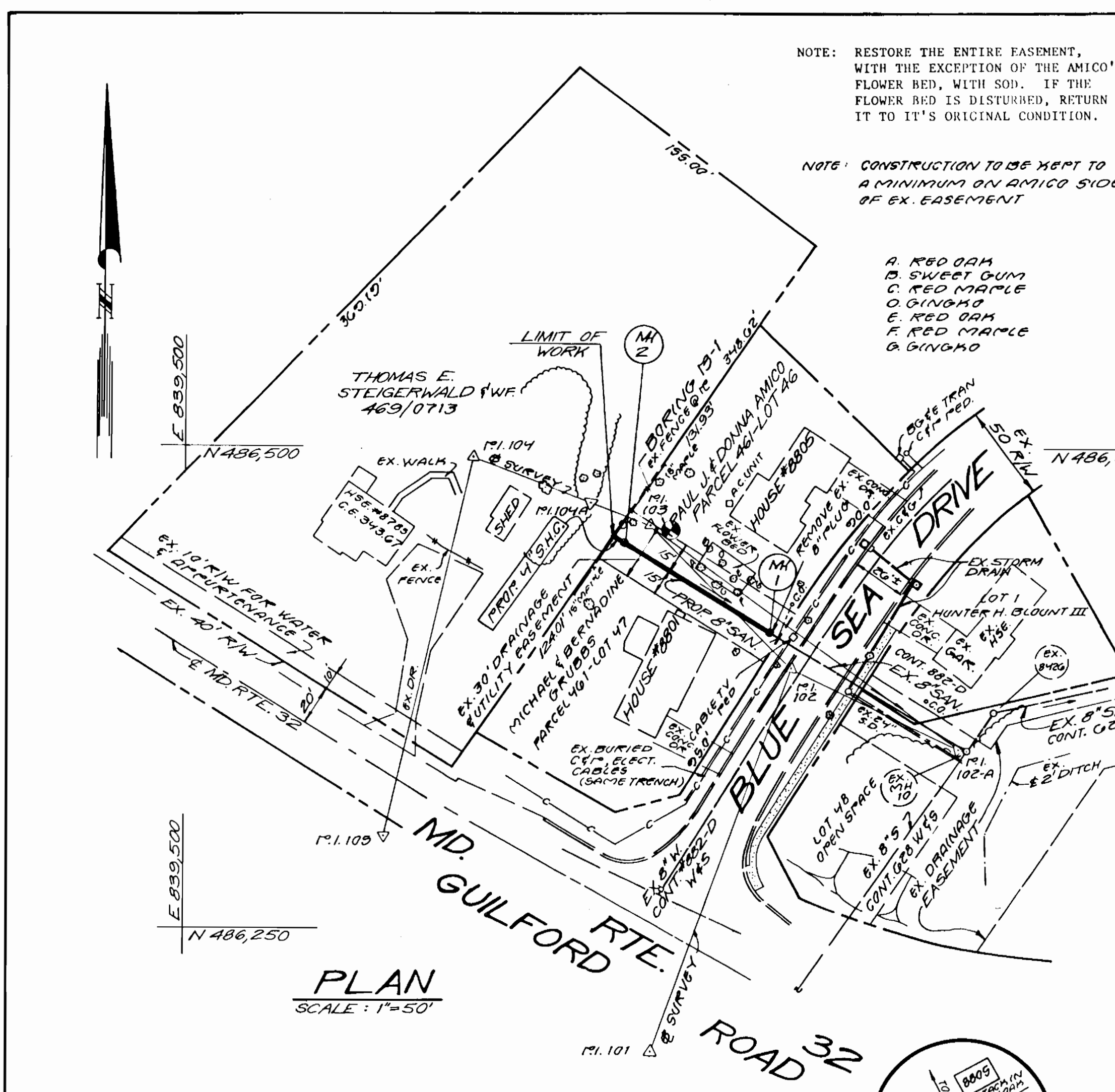


VICINITY MAP
SCALE: 1" = 600'

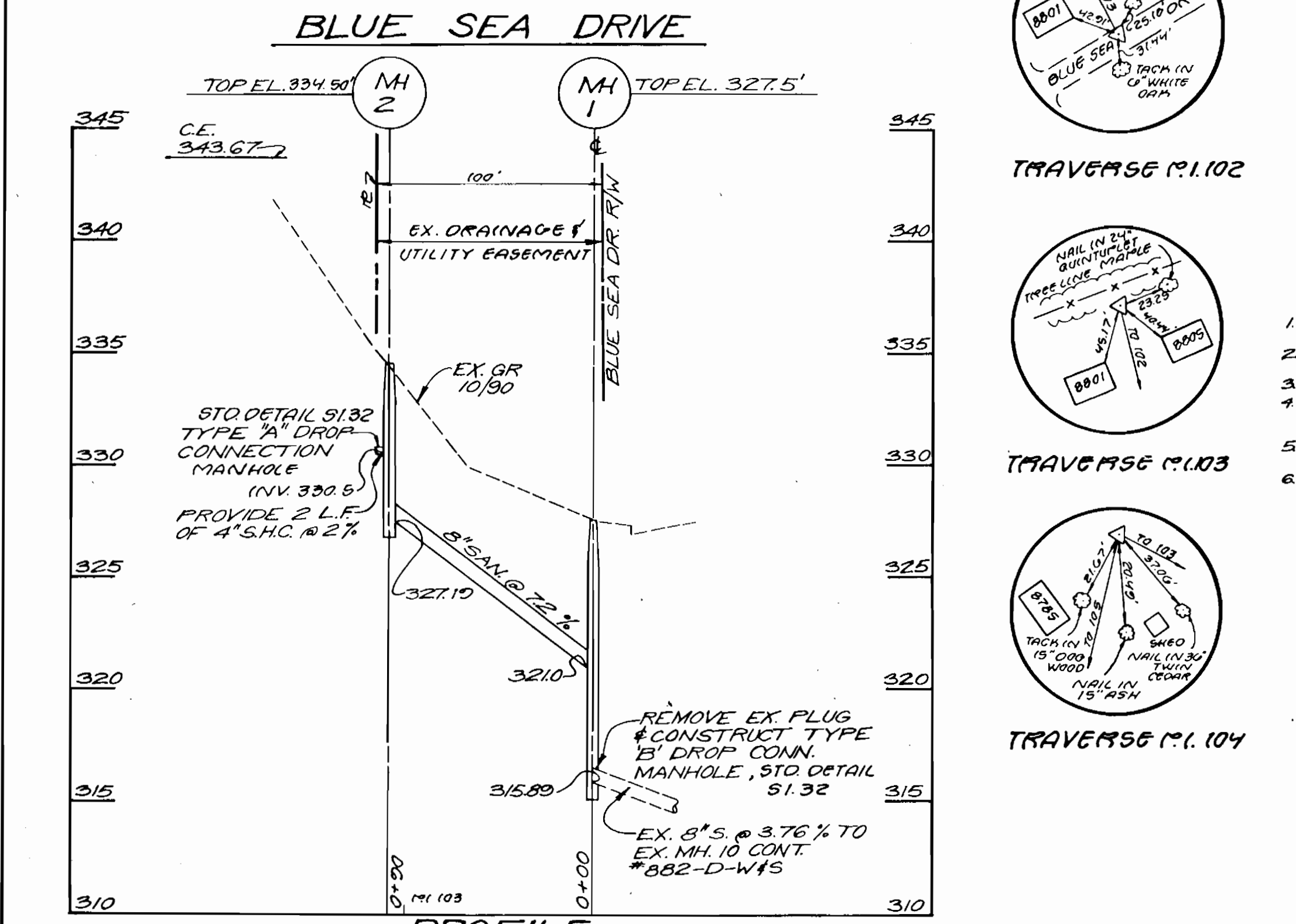
GENERAL NOTES

- 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 Engineer at the Contractor's expense.
- All Horizontal Controls shown 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.
- For details not shown on the Drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specification And Details For Construction. 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 \boxtimes at location of 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 tests have not been dug shall be located by the Contractor two weeks in advance of Construction Operations at the Contractor's expense.
- The Contractor shall notify the following utility companies or agencies at least five working days prior to starting work shown on this plan:

GAP Telephone Company	597-8585
State Highway Administration	531-5533
Baltimore Gas & Electric Co. Contractor Service	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	859-9334
Baltimore Gas & Electric Co. Trouble Shooting	298-9001
MISS UTILITY	1-800-257-7777
Colonial Pipeline	795-1390
Bureau of Utilities, Howard County Dept. of Public Works	313-4200
- 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.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price for construction of the main and service connections.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., or P.V.C. Unless otherwise noted.
- Trench repair to be in accordance with Howard County Std. Details.
- All work will be in accordance with Howard County Standards and Specifications for Soil Erosion and Sediment Control Section 219.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- Length of open trench will be limited to that which can be filled and stabilized within one working day.



PLAN
SCALE: 1" = 50'



PROFILE:
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE: 1-2-91
 CHIEF, BUREAU OF UTILITIES DATE: 1-2-91

CHIEF, BUREAU OF ENGINEERING DATE: 1-3-91
 CHIEF, UTILITY DESIGN DIVISION DATE: 1-28-92

HICKS ENGINEERING CO., INC.
 ENGINEERS - SURVEYORS - PLANNERS
 200 E. JOPPA ROAD - SUITE 402
 TOWSON MARYLAND 21204

UES: E.A. S.
 DRN: C.E.S.
 CHK: D.G.H.
 DATE: 10/12/90 BY: NO.

CONTRACT NO. 20-3093

600' SCALE MAP NO. 9-92 BLOCK NO. 0

BLUE SEA DRIVE SEWER EXTENSION

HOWARD COUNTY, MARYLAND
 CAPITAL PROJECT S-6690
 ELECTION DISTRICT 6

SCALE AS SHOWN
 SHEET 1 OF 1