

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	SUPPLIER
8" SEWER	L.F.	126		
TYPE 'A' OR 'M' MH	E.A.	1		
4" S.H.C.	L.F.	18		

MANHOLE STAKE OUT TABLE		
MANHOLE	DISTANCE	OFFSET
MH 1	55' NORTHEAST OF P.I. # 33	30' SOUTH - EAST

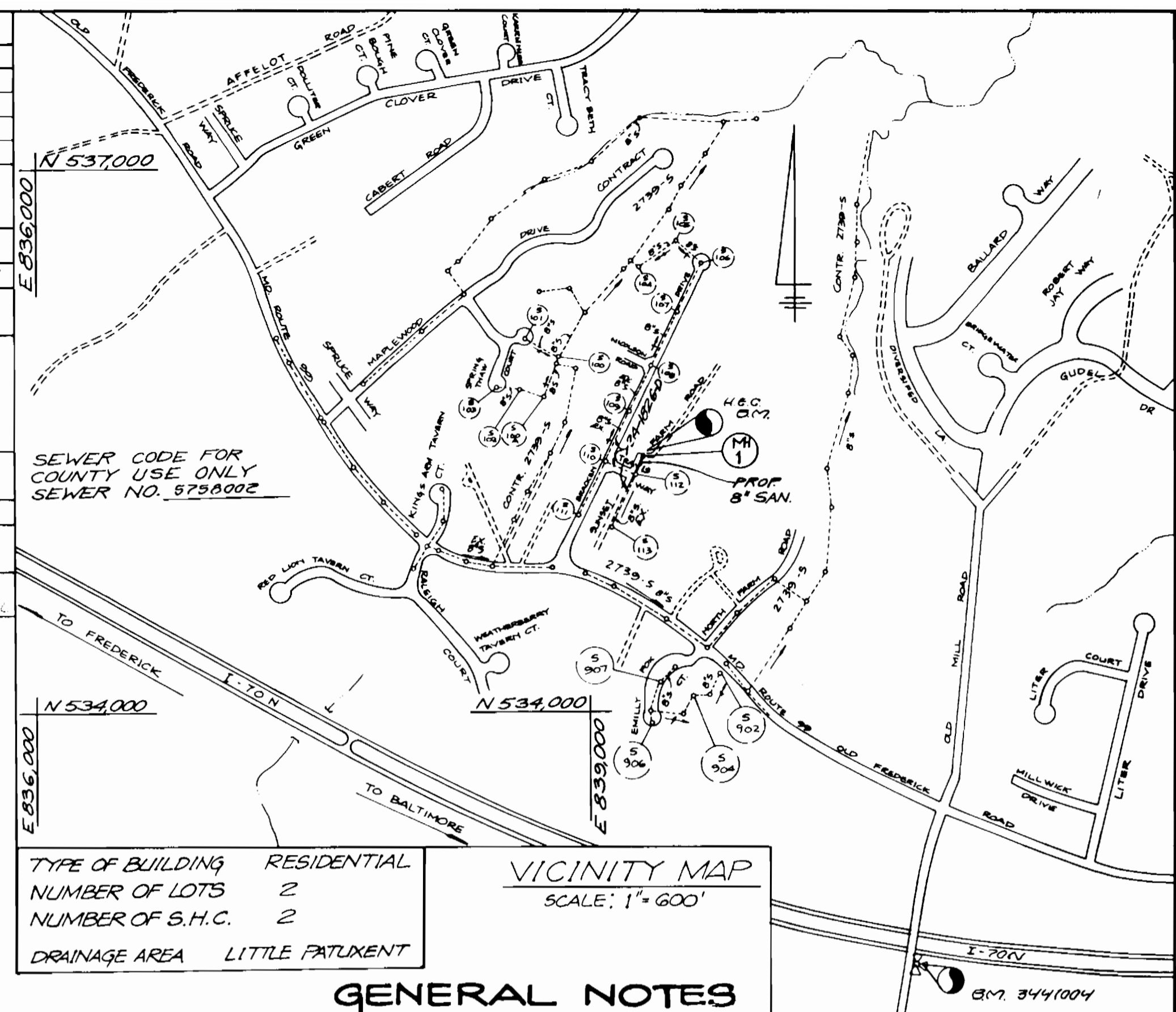
SEWER HOUSE CONNECTIONS INVERT ELEVATIONS AT PROPERTY LINE		
STATION	LOT	ELEVATIONS
SUNSET FARM RD @ MH 1 LT.	HOUSE NO. 2419	486.60
SUNSET FARM RD @ MH 1 RT.	HOUSE NO. 2425	484.44

RESTORATION SCHEDULE		
LOCATION	DISTANCE	TYPE
EX. 112 TO MH 1	108 L.F. 296 L.F.	MAG. PAVING SEED & MULCH
S.H.C. TO HSE #2419	3 L.F.	MAG. PAVING
S.H.C. TO HSE #2425	7 L.F. 8 L.F.	MAG. PAVING SEED & MULCH

**REFERENCE BENCH MARKS**

1. HOWARD CO. NO. 3441004  
COORDINATES: N 532,658.006  
E 840,720.726  
ELEV. 479.077'

2. H.E.C. BENCH MARK: RAILROAD STAKE IN T-POLE #296702 451' #4  
ELEV. 495.816  
SEE VICINITY MAP

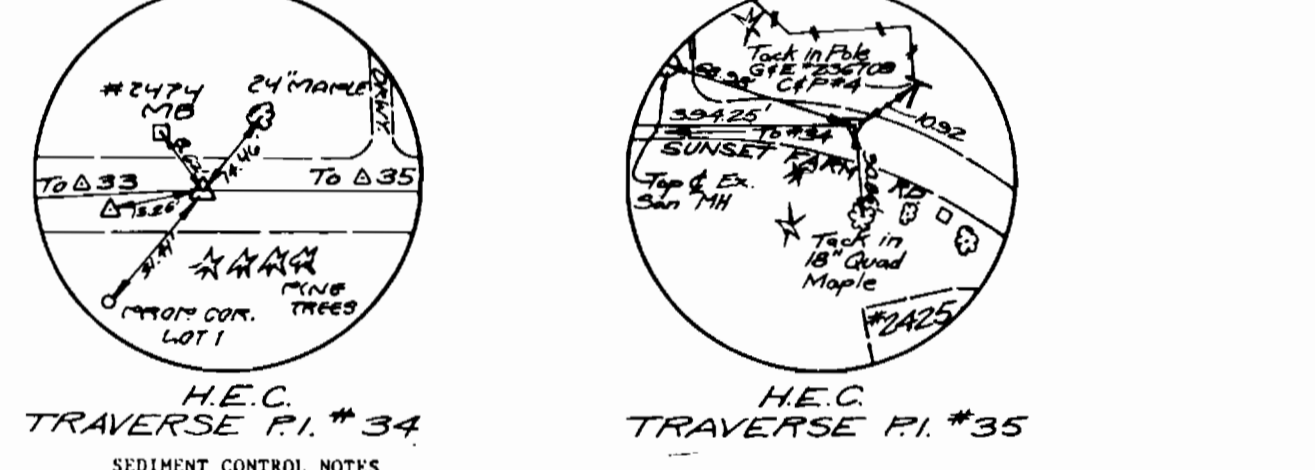
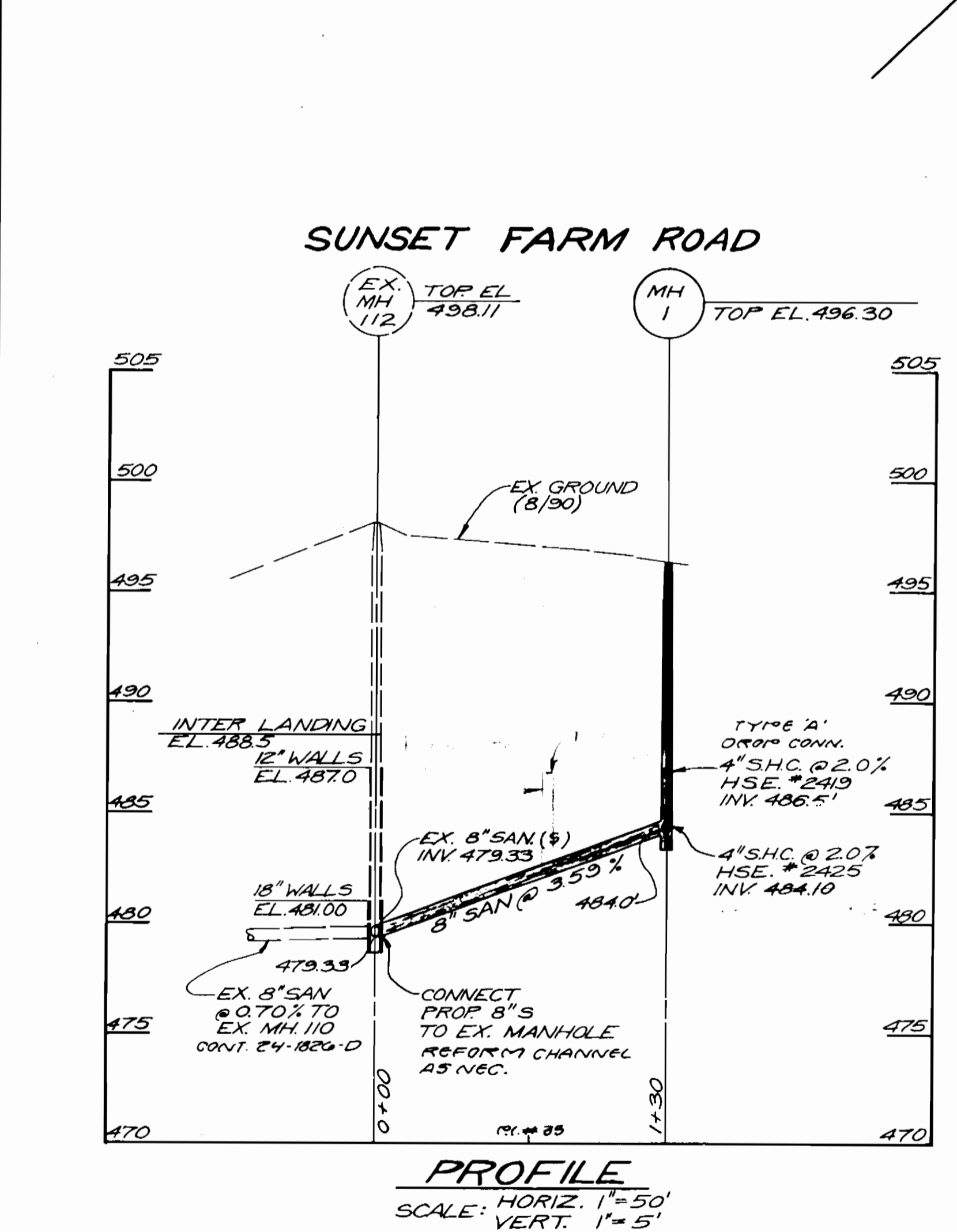


SEWER CODE FOR COUNTY USE ONLY  
SEWER NO. 5758002

TYPE OF BUILDING RESIDENTIAL  
NUMBER OF LOTS 2  
NUMBER OF S.H.C. 2  
DRAINAGE AREA LITTLE PATUXENT

**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 II, Standard Specification and Details for Construction. The Contractor shall have a copy of Volume II 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:
  - C&P Telephone Company 597-8585
  - State Highway Administration 531-5533
  - Baltimore Gas & Electric Co. Contractor Service 850-4620
  - Baltimore Gas & Electric Co. Underground Damage Control 859-9024
  - Baltimore Gas & Electric Co. Trouble Shooting 298-9001
  - MISS UTILITY 1-800-257-7777
  - Colonial Pipeline 795-1350
  - Bureau of Utilities, Howard County Dept. of Public Works 992-2366
- 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.



- SEDIMENT CONTROL NOTES**
- 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. (992-2555).
  - 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 SEDIMENT CONTROL.
  - 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, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRAZER AREAS ON THE PROJECT SITE.
  - 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 DRAINAGE.
  - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDINGS (SEC. 51) SUD (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.
  - 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.
  - SITE ANALYSIS:
    - TOTAL AREA OF SITE: --- ACRES
    - AREA DISTURBED: 07 ACRES
    - AREA TO BE HARDED OR PAVED: 008 ACRES
    - AREA TO BE VEGETATIVELY STABILIZED: 002 ACRES
    - TOTAL CUT: 0 CU. YDS.
    - TOTAL FILL: 0 CU. YDS.
    - OFFSITE WASTE/BORROW AREA LOCATION: ---
  - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SOIL SEDIMENT CONTROL INSPECTOR.
  - 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 PROTECTION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

**SEQUENCE OF CONSTRUCTION (S.O.C.)**

- CONTACT HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (301)992-2455.
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219.
- EXCAVATE AND INSTALL PROPOSED SEWER MAIN.
- RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS.
- FINISH GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.
- UPON PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL DEVICES. AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

**TRAVERSE DATA**

HEC. TRAV. P.I. # 33 EL. 493.57 N 24°35'03"E (252.92')	N 534,779.783 E 838,963.549
HEC. TRAV. P.I. # 34 EL. 495.89' N 21°21'59"E (394.24')	N 535,009.781 E 839,068.773
HEC. TRAV. # 35 EL. 497.57'	N 535,359.897 E 839,249.997

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

APPROVED: *[Signature]* DATE: 11-9-90

This Construction Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: *[Signature]* DATE: 11-9-90

By the Developer:

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *[Signature]* DATE: 11-9-90

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS: *[Signature]* DATE: 11-9-90

CHIEF, BUREAU OF UTILITIES: *[Signature]* DATE: 11-9-90

CHIEF OF ENGINEERING: *[Signature]* DATE: 11-9-90

CHIEF, UTILITY DESIGN DIVISION: *[Signature]* DATE: 11-9-90

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

DES: E.A.S.  
DRN: RW/C.S.  
CHK: E.A.S.  
DATE: 8/31/90

DES: E.A.S.	DRN: RW/C.S.	CHK: E.A.S.	DATE: 8/31/90
E.A.S. 1	REVISED PER HOWARD CO. COMMENTS	10/4/90	
BY NO.	REVISION	DATE	600' SCALE MAP NO. 12 BLOCK NO.

CONTRACT NO. 20-3079

SUNSET FARM ROAD  
SEWER MAIN EXTENSION  
HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT S-6690  
ELECTION DISTRICT 2

SCALE AS SHOWN

SHEET 1 OF 1

HEC JO NO. 90-044