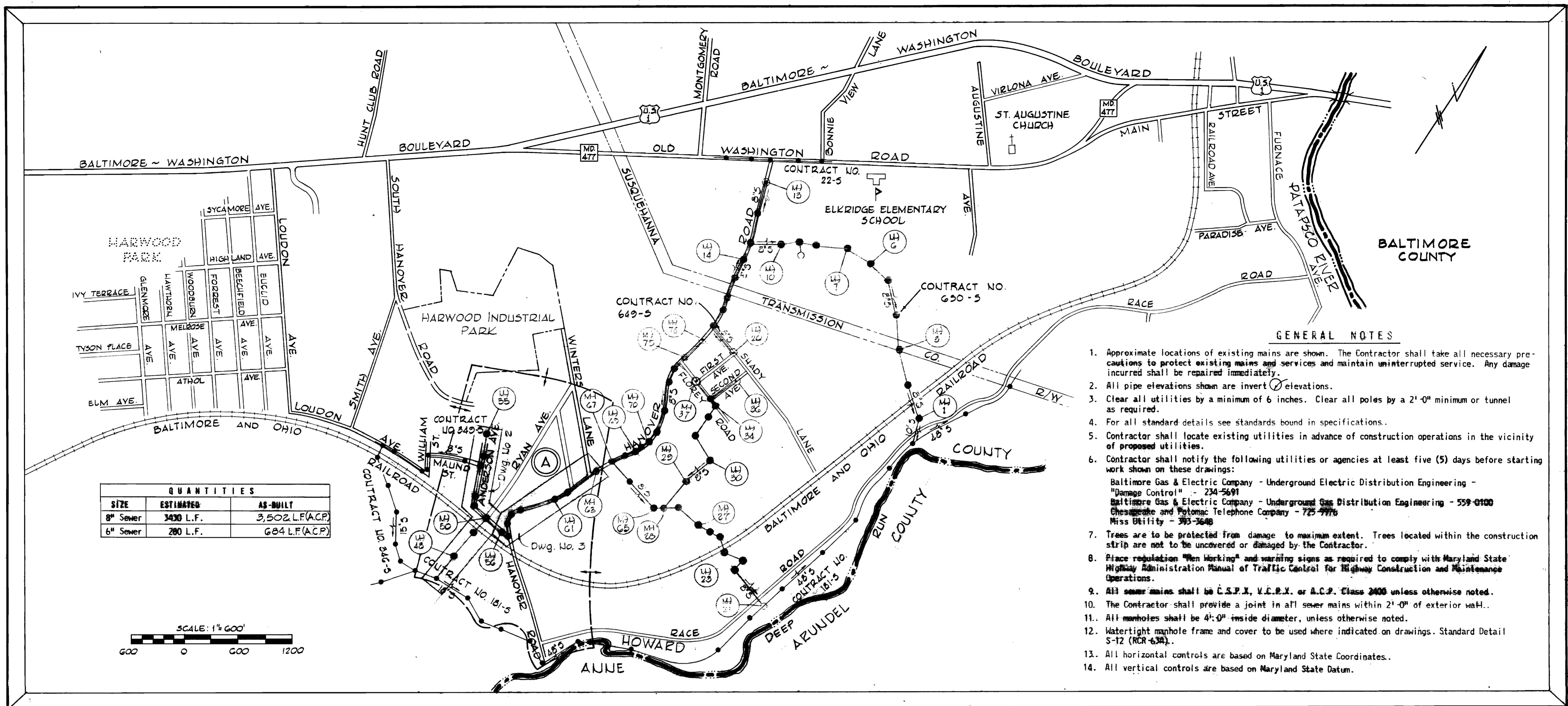


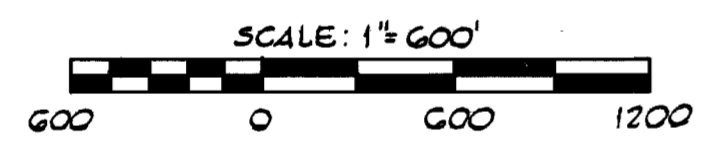
suspense

suspense

suspense



| QUANTITIES |           |                    |
|------------|-----------|--------------------|
| SIZE       | ESTIMATED | AS-BUILT           |
| 8" Sewer   | 3430 L.F. | 3,502 L.F.(A.C.P.) |
| 6" Sewer   | 280 L.F.  | 684 L.F.(A.C.P.)   |



- 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.
  2. All pipe elevations shown are invert elevations.
  3. Clear all utilities by a minimum of 6 inches. Clear all poles by a 2'-0" minimum or tunnel as required.
  4. For all standard details see standards bound in specifications.
  5. Contractor shall locate existing utilities in advance of construction operations in the vicinity of proposed utilities.
  6. Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these drawings:  
 Baltimore Gas & Electric Company - Underground Electric Distribution Engineering - "Damage Control" - 234-5691  
 Baltimore Gas & Electric Company - Underground Gas Distribution Engineering - 559-0100  
 Chesapeake and Potomac Telephone Company - 725-7776  
 Miss Utility - 393-3648
  7. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be uncovered or damaged by the Contractor.
  8. 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.
  9. All sewer mains shall be C.S.P.X., V.C.E.X. or A.C.P. Class 2400 unless otherwise noted.
  10. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior wall.
  11. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
  12. Watertight manhole frame and cover to be used where indicated on drawings. Standard Detail S-12 (RCR-634).
  13. All horizontal controls are based on Maryland State Coordinates.
  14. All vertical controls are based on Maryland State Datum.

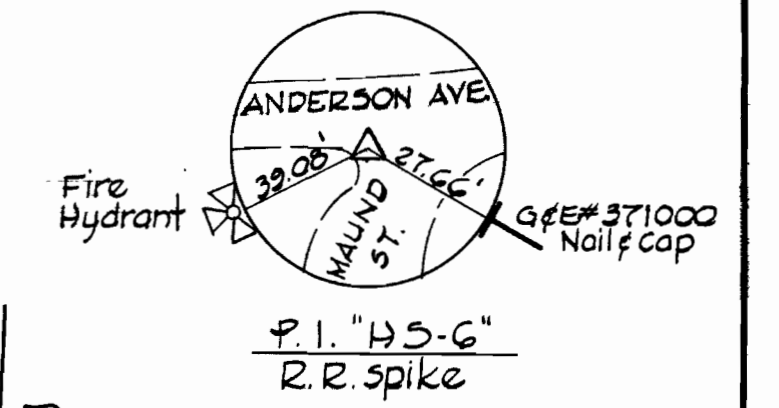
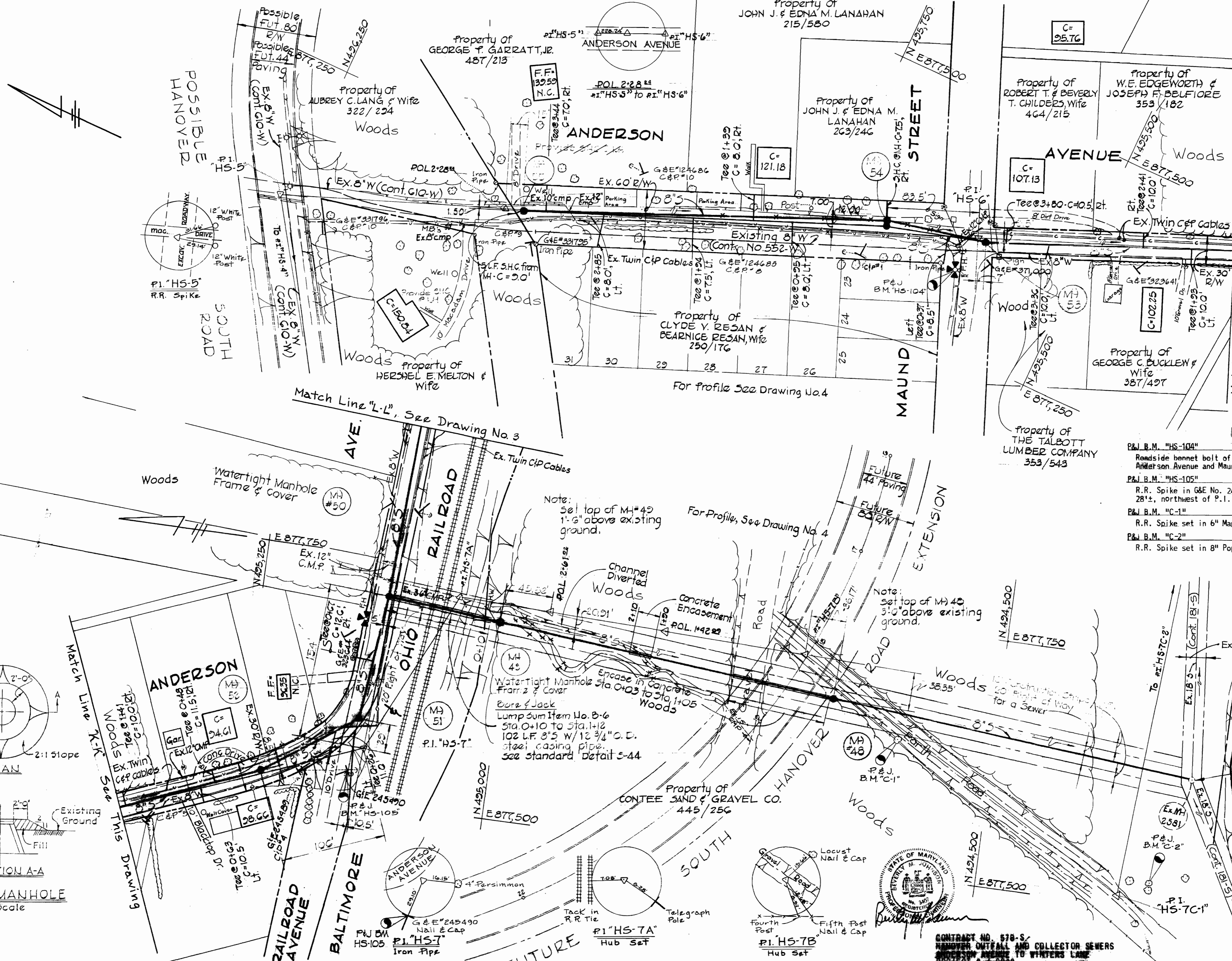
**CONTRACT NO. 578-S**  
**HANOVER OUTFALL AND COLLECTOR SEWERS**  
**ANDERSON AVENUE TO WINTERS LANE**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**



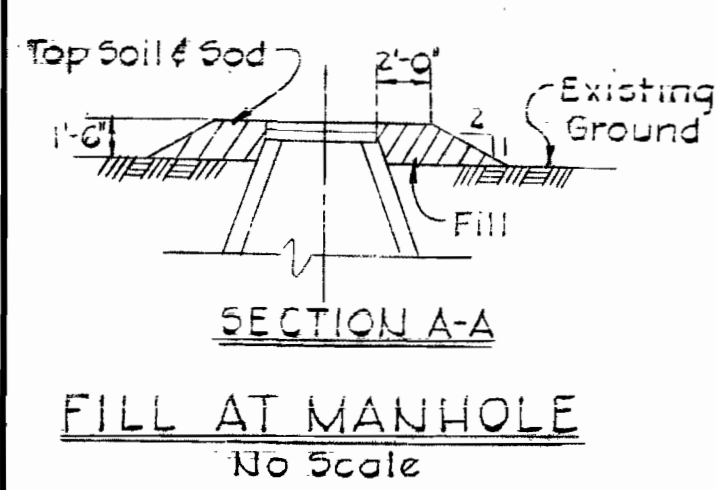
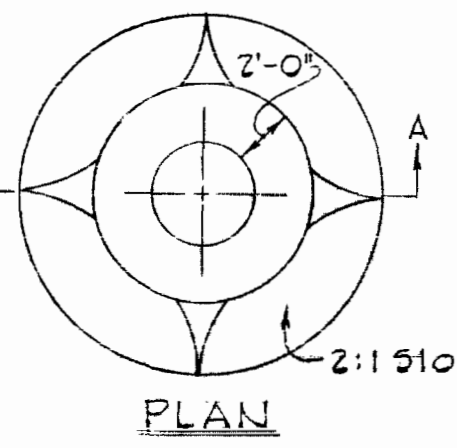
CONTRACT NO. 578-S  
 HANOVER OUTFALL AND COLLECTOR SEWERS  
 ANDERSON AVENUE TO WINTERS LANE  
 PROJECT S-4-8036

|   |  |                    |                                    |                                     |                                      |
|---|--|--------------------|------------------------------------|-------------------------------------|--------------------------------------|
| PURDUM & JESCHKE<br>ENGINEERS<br>1023 N. CALVERT ST.<br>BALTIMORE, MARYLAND | DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND<br>DATE 4-21-75<br>W. O. Palbat<br>CHIEF BUREAU OF ENGINEERING | CONTRACT NO. 578-S | LOCATION MAP OF<br>SANITARY SEWERS | ELECTION DISTRICT<br>ELKRIDGE NO. 1 | DRAWING NO. 1 OF 4<br>SCALE AS SHOWN |
|---|--|--------------------|------------------------------------|-------------------------------------|--------------------------------------|

"AS BUILT" FEB. 24, 1976



- BENCH MARKS**
- P&J B.M. "HS-104" Elev. 121.15  
Roadside bennet bolt of fire hydrant at northwest corner of Anderson Avenue and Maund Street.
  - P&J B.M. "HS-105" Elev. 95.95  
R.R. Spike in G&E No. 245490 on south side of Anderson Avenue, 28'±, northwest of P.I. "HS-7".
  - P&J B.M. "C-1" Elev. 57.67  
R.R. Spike set in 6" Maple, 126'± SW of P.I. "HS-7B".
  - P&J B.M. "C-2" Elev. 51.96  
R.R. Spike set in 8" Poplar, 34'± SE of P.I. "HS-7C-1".



Note:  
Set top of M#49  
1'-6" above existing  
ground.

Note:  
Set top of M#40  
3'-0" above existing  
ground.

Note:  
Watertight Manhole  
Frame & Cover  
Bore & Jack  
Lump sum Item No. B-6  
Sta. 0+10 to Sta. 1+12  
102 L.F. 8" 5 W/12 3/4" O.D.  
steel casing pipe  
See standard detail S-44

connect 8" to Manhole  
and form channel to  
suit.

CONTRACT NO. 578-S  
HANOVER OUTFALL AND COLLECTOR SEWERS  
ANDERSON AVENUE TO WINTERS LANE  
PROJECT S-2-6838

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

**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND  
DATE: 4-21-75  
W. J. Falout  
CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 578-S

**PLAN**  
HANOVER OUTFALL AND COLLECTOR SEWERS  
ANDERSON AVENUE TO WINTERS LANE

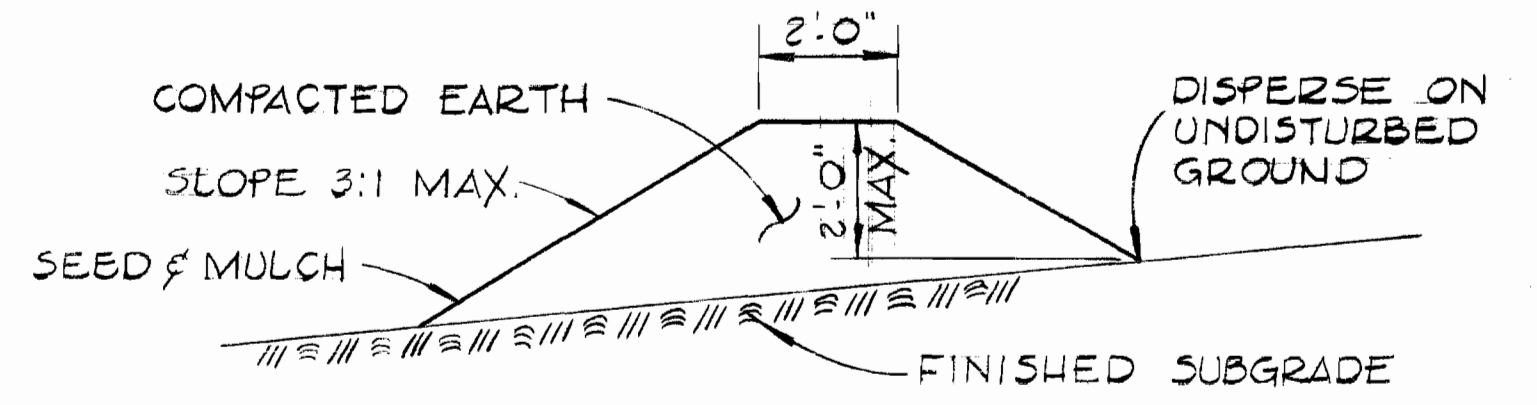
ELECTION DISTRICT  
ELKRIDGE NO. 1

**DRAWING**  
NO. 2  
OF 4  
**SCALE**  
1" = 50'

DESIGNED BY: DWH  
DRAWN BY: JWS  
CHECKED BY: TAF  
DATE: FEB. 24, 1976

"AS BUILT"  
FEB. 24, 1976

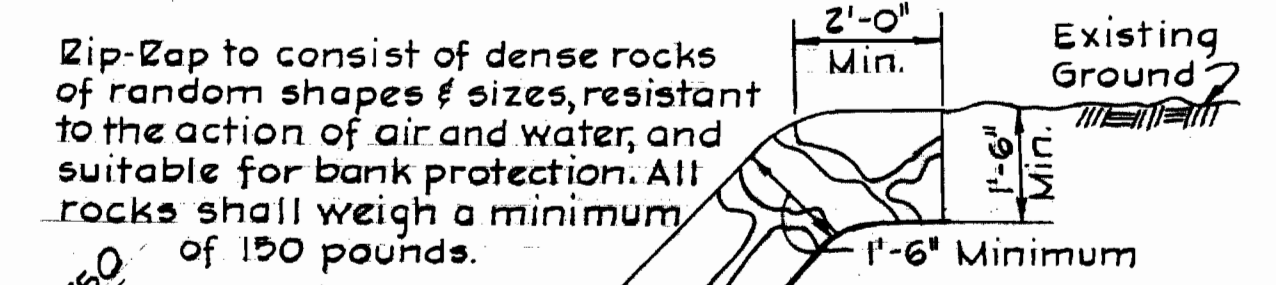
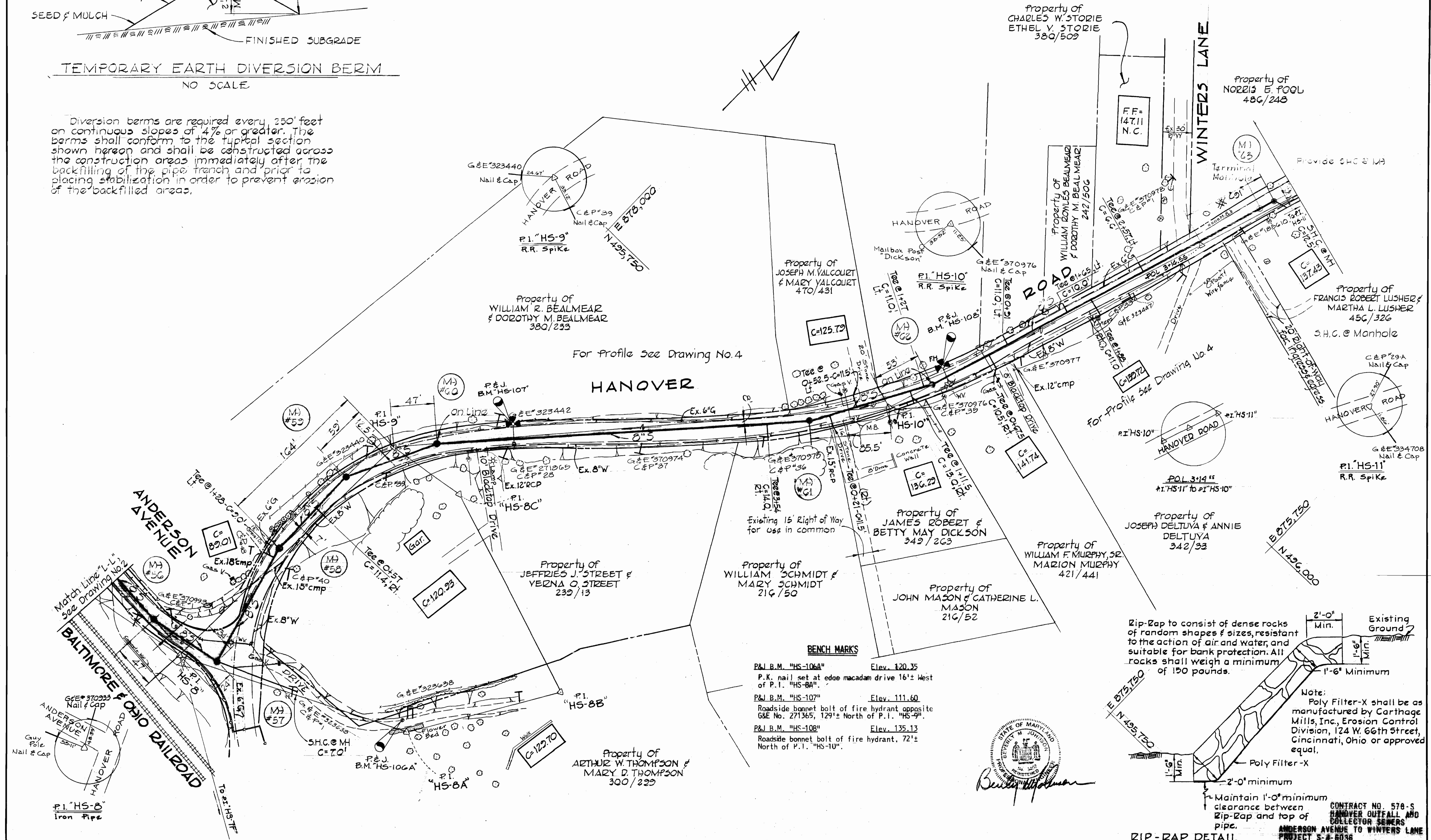
Suspense



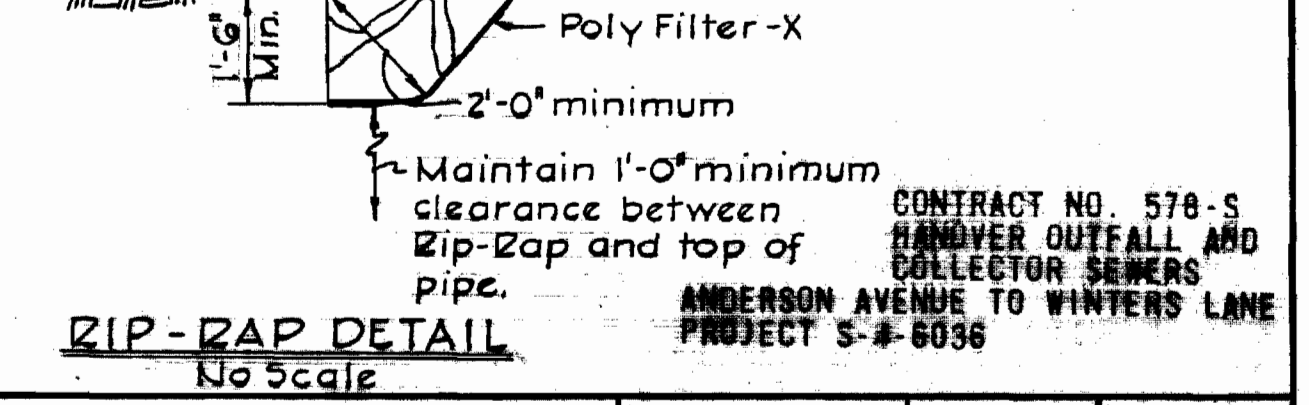
TEMPORARY EARTH DIVERSION BERM  
NO SCALE

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.

Suspense



Note:  
Poly Filter-X shall be as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 W. 66th Street, Cincinnati, Ohio or approved equal.



- BENCH MARKS**
- P.&I. B.M. "HS-106A" Elev. 120.35  
P.K. nail set at edge macadam drive 16'± West of P.I. "HS-8A"
  - P.&I. B.M. "HS-107" Elev. 111.60  
Roadside bonnet bolt of fire hydrant opposite G&E No. 271365, 129'± North of P.I. "HS-9"
  - P.&I. B.M. "HS-108" Elev. 135.13  
Roadside bonnet bolt of fire hydrant, 72'± North of P.I. "HS-10"



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
4-21-75  
DATE

CONTRACT NO. 578-S

PLAN  
HANOVER OUTFALL AND COLLECTOR SEWER  
ANDERSON AVENUE TO WINTERS LANE

ELECTION DISTRICT  
ELKRIDGE NO. 1

DRAWING NO. 3 OF 4  
SCALE 1" = 50'

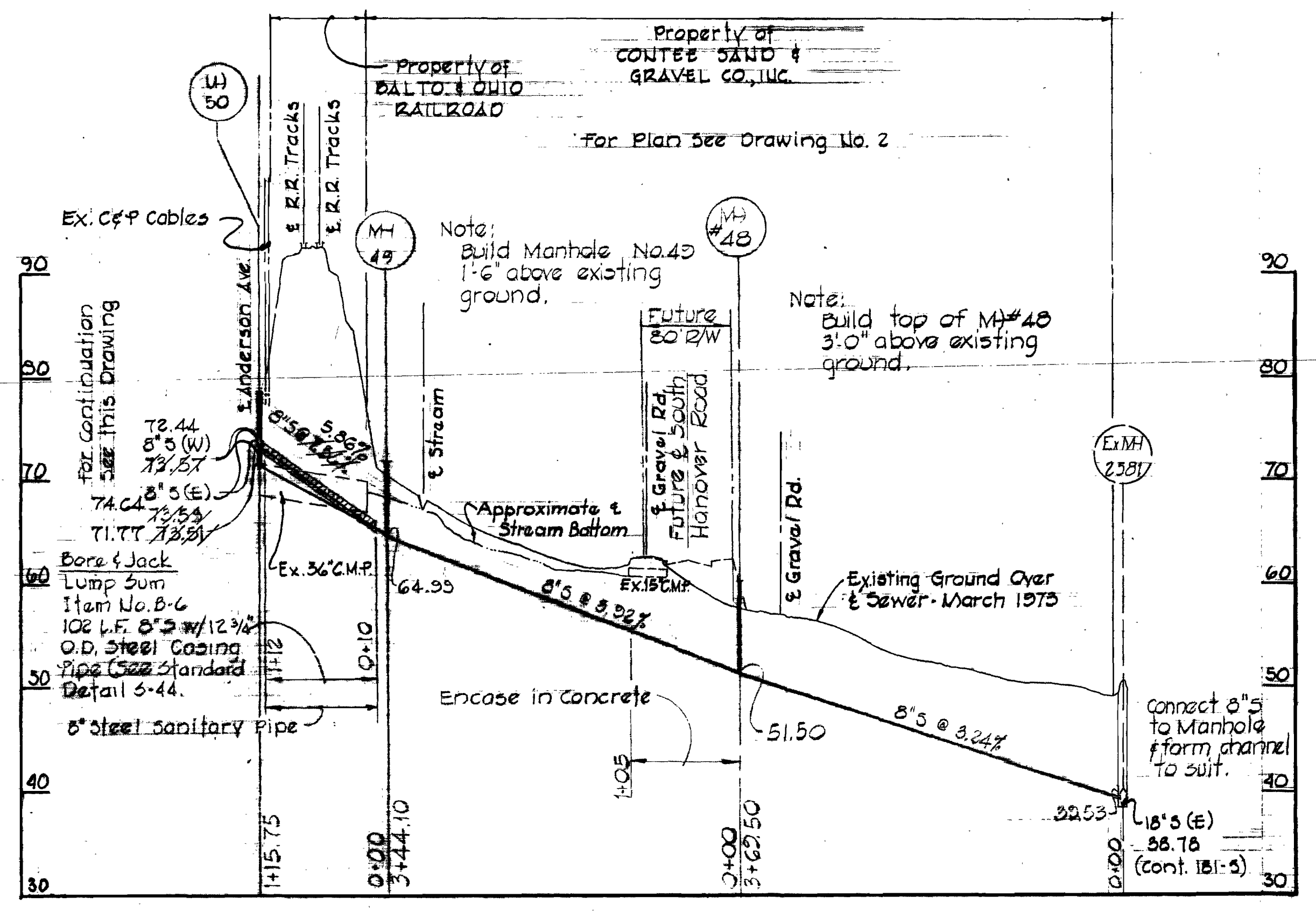
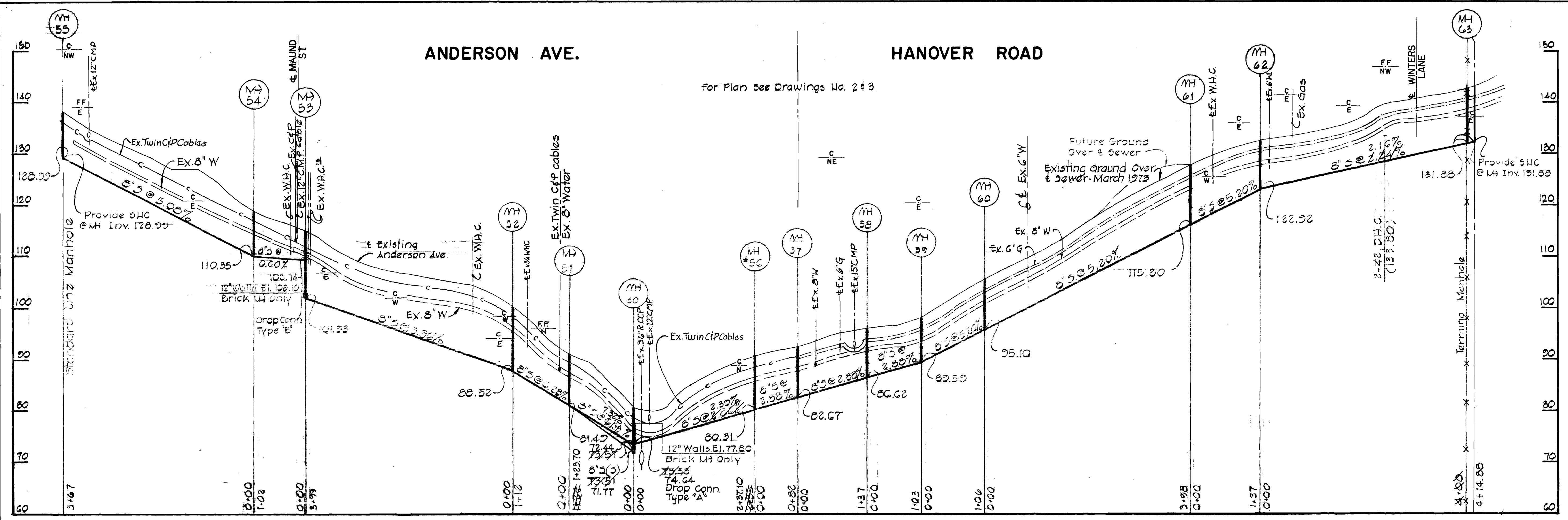
"AS BUILT"  
FEB 24, 1976

WS 578-5/3

ANDERSON AVE.

HANOVER ROAD

For Plan See Drawings No. 2 & 3



STATE OF MARYLAND  
 BEVERLY M. JOHNSON  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 3801  
 B. J. Johnson

CONTRACT NO. 578-S  
 HANOVER OUTFALL AND COLLECTOR SEWERS  
 ANDERSON AVENUE TO WINTERS LANE  
 PROJECT 6-4-69

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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DATE 4-21-75  
 W. O. Pickett  
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 578-S

PROFILE  
 HANOVER OUTFALL AND COLLECTOR SEWERS  
 ANDERSON AVENUE TO WINTERS LANE

ELECTION DISTRICT  
 ELKRIEGE NO. 1

DRAWING SCALE  
 NO. 4  
 OF 4  
 1" = 100'  
 VERT: 1" = 10'

AS BUILT  
 FEB 24, 1976

WS 578-S/4

SUSPENSE

SUSPENSE