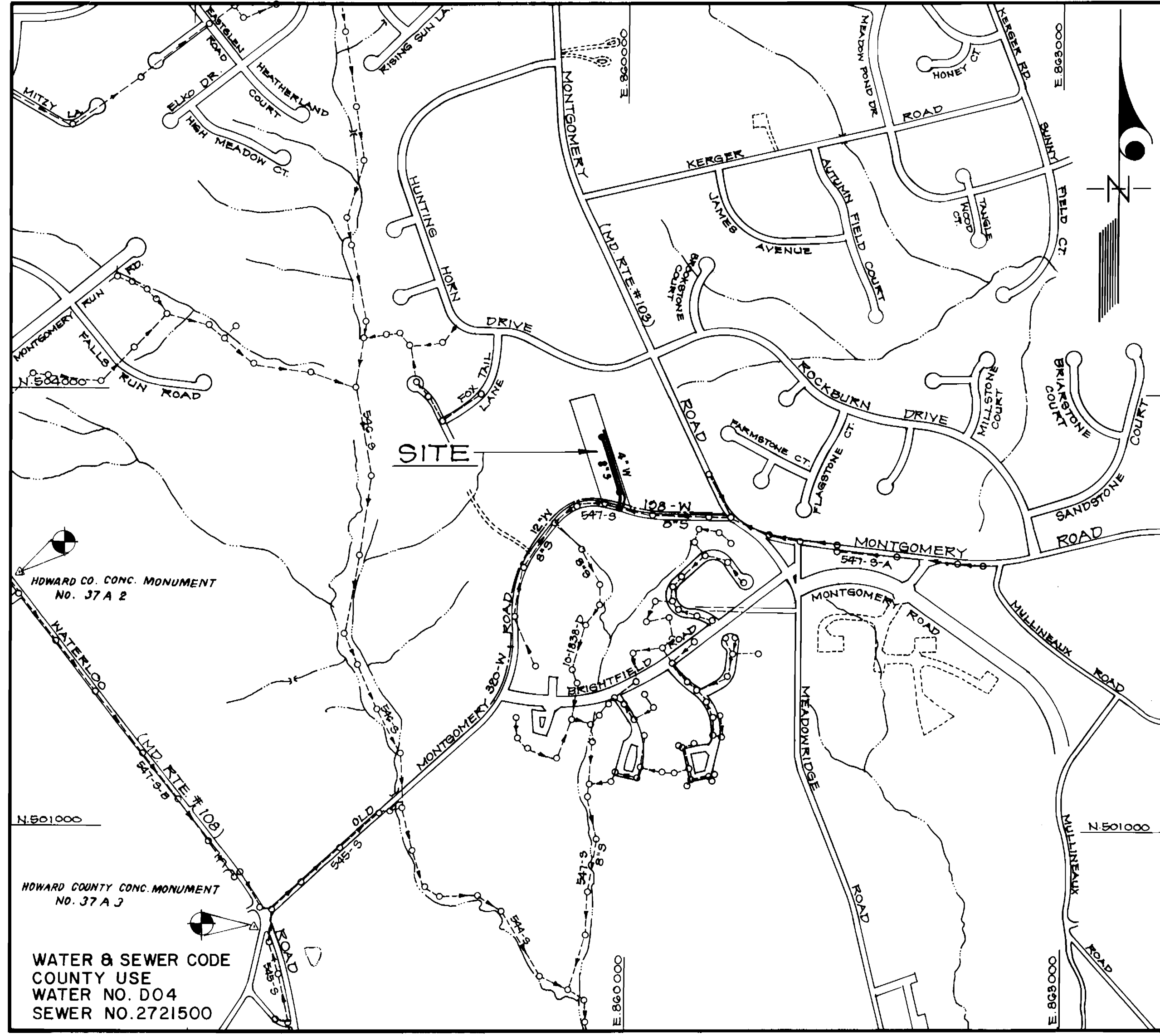


AS-BUILT 11-20-95

3446 ws/1 BRANDENBURG SUBD.

TYPE OF BUILDING	SINGLE FAMILY
NO. OF LOTS	4
NO. OF WHC's	3
NO. OF SHC's	3
DRAINAGE AREA	LITTLE PATUXENT LITTLE PATUXENT W.W.T.P.



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 Inspector, 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.
- Clear all utilities by a minimum of 6" clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Specifications & Details.
- For materials and construction methods use Howard County Standard Specifications & Details and Howard County Design Manual, Volume IV, (Latest Edition) The Contractor shall have copies of these on the job site.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
  - State Highway Administration - 531-5533
  - Baltimore Gas & Electric Company - Underground Damage Control - 787-9068
  - Baltimore Gas & Electric Company - Contractor Services - 850-4620
  - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
  - "Miss Utility" - 1-800-257-7777
  - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
  - Bureau of Utilities Howard County - 313-4900
  - Colonial Pipeline Company - 795-1390
- Trees are to be protected from damage to maximum extent. Trees 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 as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- 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.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Std. Det. W.111 & W.2.11 Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be P.V.C., or D.I.P., unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- Manholes designated thus: WT, shall have a Watertight Frame and Cover.

CONTRACT NO. 14-3446-D  
BRANDENBURG SUBDIVISION

LOTS 1 THRU 4

HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F 92-25 ; Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 Signature: *John R. Roberts* DATE: 7/6/95

U.S. SOIL CONSERVATION SERVICE  
 This Development Plan is approved for Soil Erosion and Sediment Control by *John R. Roberts* Soil Conservation District.

APPROVED  
 Signature: *John R. Roberts* DATE: 7/6/95  
 Howard S.C.D. DATE

ITEM	QUANTITIES ESTIMATED	QUANTITIES AS BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
4" WATER	485 LF.	480 LF.	CL 52	GRIFFIN PIPE
8" SEWER	511 LF.	513 LF.	SDR 35	J-M MFG.
4" SHC	30 LF.	37 LF.	SDR 35	J-M MFG.
3/4" WHC	40 LF.	48 LF.	TYPE "K"	HOWELL METALS
1" WHC	15 LF.	13 LF.	TYPE "K"	HOWELL METALS
4'-0" DIA. MH	3 EA.	3 EA.	PRECAST CONC.	ATLANTIC CONC.
F.H.	1 EA.	1 EA.		MUELLER CO.
8" WATER	8 LF.	6 LF.	CL 52	GRIFFIN PIPE
12"x8" TS&V	1 EA.	1 EA.		US PIPE & MUELLER
1 1/2" DRAIN	1 EA.	1 EA.		MUELLER CO.

NAME OF UTILITY CONTRACTOR: DEVELOPMENT CONTRACTORS, INC.  
 SURVEY & DRAFTING DIV. AS BUILT DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Signature: *John R. Roberts* DATE: 6/28/95  
 Signature: *Robert W. Beaman* DATE: 6-27-95

CLARK - FINEPROCK & SACKETT, INC.  
 ENGINEERS - PLANNERS - SURVEYORS  
 7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
 (301) 381-7500 BALTO. (301) 621-8100 WASH.

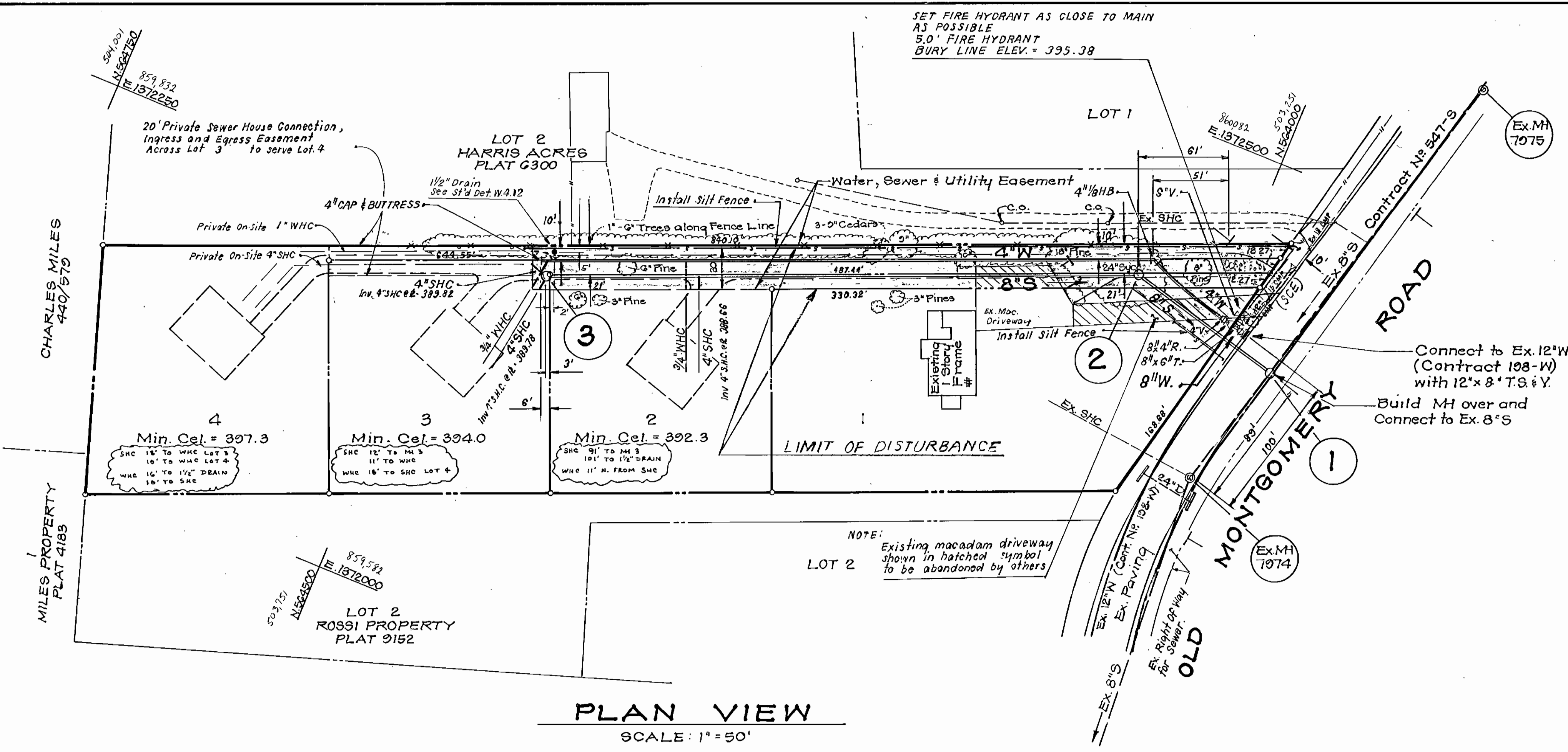
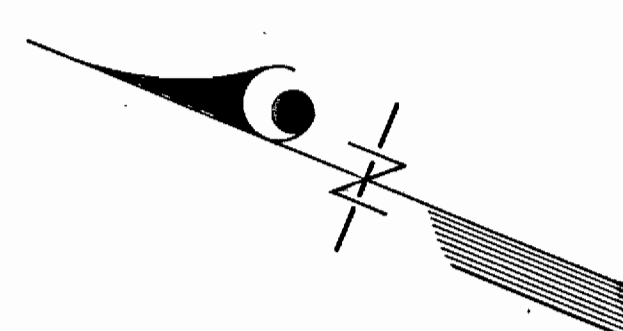
DES: CGM				
DRN:				
CHK:				
DATE: APR, 85	BY NO.	REVISION	DATE	600' SCALE MAP NO. 31-87 BLOCK NO. 213

TITLE SHEET

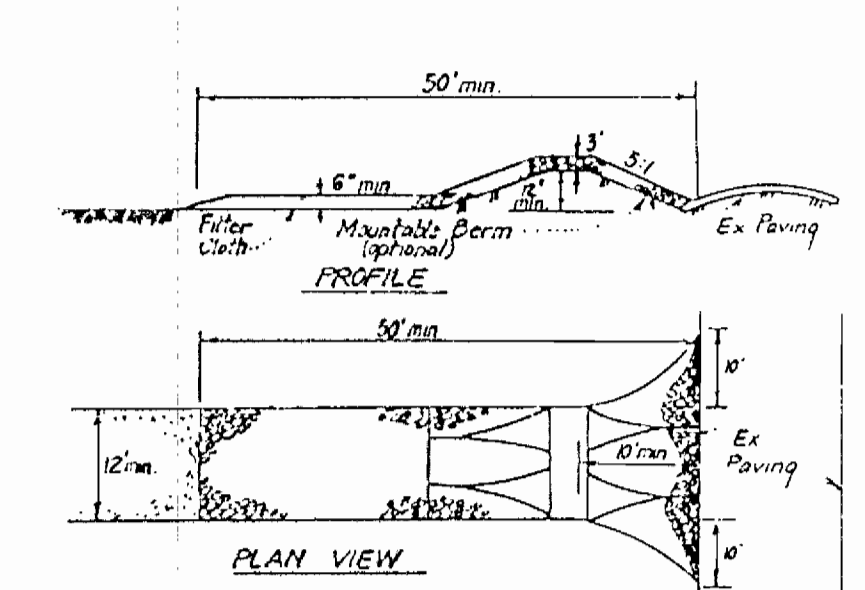
BRANDENBURG SUBDIVISION  
 LOTS 1 THRU 4  
 1ST ELECTION DISTRICT  
 CONTRACT NO. 14-3446-D

SCALE AS SHOWN  
 SHEET 1 OF 2

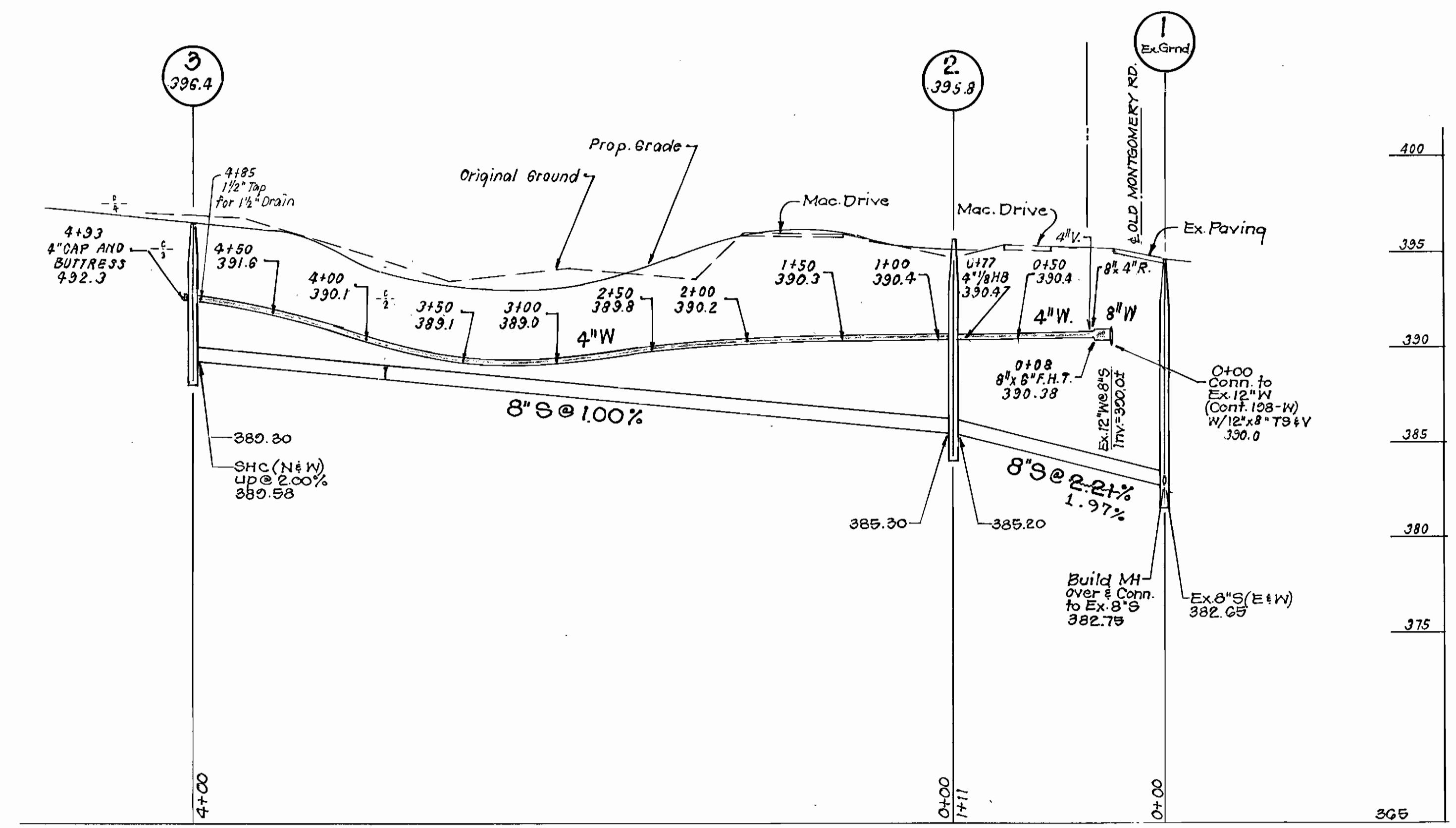
3446 WS/2 BRANDENBURG SUBD.



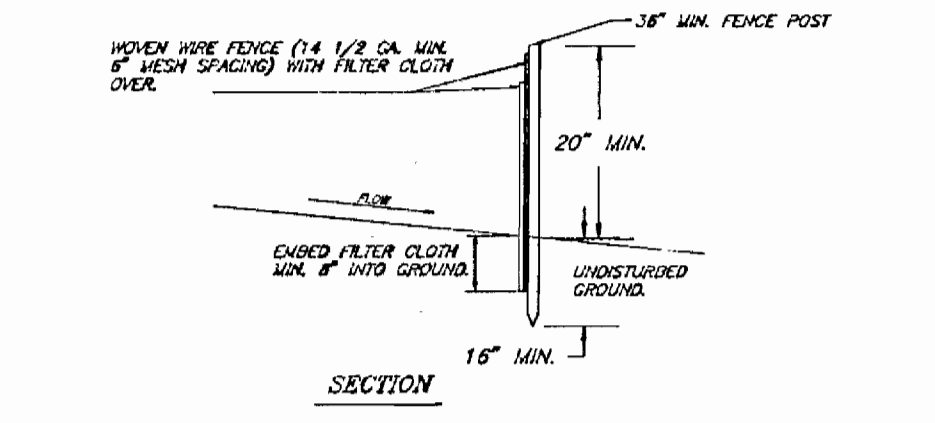
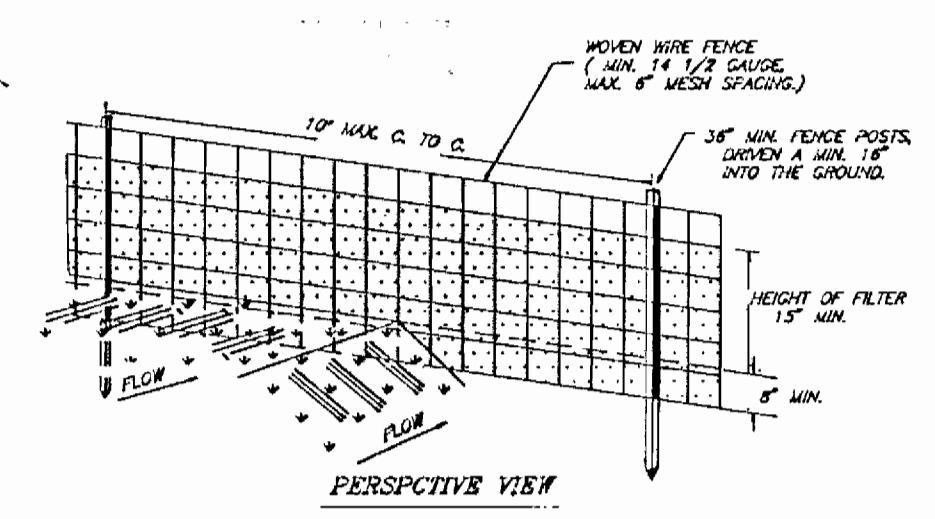
PLAN VIEW  
SCALE: 1" = 50'



- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" size, or rounded or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any means used to trap sediment. All sediment trapped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance into public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.
- STABILIZED CONSTRUCTION ENTRANCE (SCE)**



PROFILE SCALE  
HOR. 1" = 50'  
VERT. 1" = 5'



- STANDARD SYMBOL: S - S - S**
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.  
FENCE: WOVEN WIRE, 14 GA. 5" MAX. MESH OPENING.  
FILTER CLOTH: FILTER & WASH TUCK STABILINK 1140M, OR APPROVED EQUAL.  
PRE-FABRICATED UNIT: GEORGA, EVERGREEN, OR APPROVED EQUAL.
- SILT FENCE (S)**  
NO SCALE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved: *[Signature]* 2/16/95  
Board of S.C.D.

USDA NATURAL RESOURCES CONSERVATION SERVICE

*[Signature]* 2/16/95  
S.C.D.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 6/28/95  
Chief, Bureau of Engineering: *[Signature]* 6/28/95  
Chief, Bureau of Utilities: *[Signature]* 6-27-95  
Chief, Land Development Div.: *[Signature]* 6/28/95

CLARK-FINEFROCK & SACKETT, INC.  
ENGINEERS-PLANNERS-SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
(410) 381-7500 BALTO. (301) 821-8100 WASH.



DES: CCM				
DRN:				
CHK:				
DATE: APR, 95	BY NO.	REVISION	DATE	

PLAN & PROFILE OF WATER & SEWER MAIN

600' SCALE MAP NO. 31 & 37 BLOCK NO. 2 & 2

BRANDENBURG SUBDIVISION  
LOTS 1 THRU 4  
1ST ELECTION DISTRICT  
CONTRACT NO: 14-3446-D

SCALE AS SHOWN  
SHEET 2 of 2