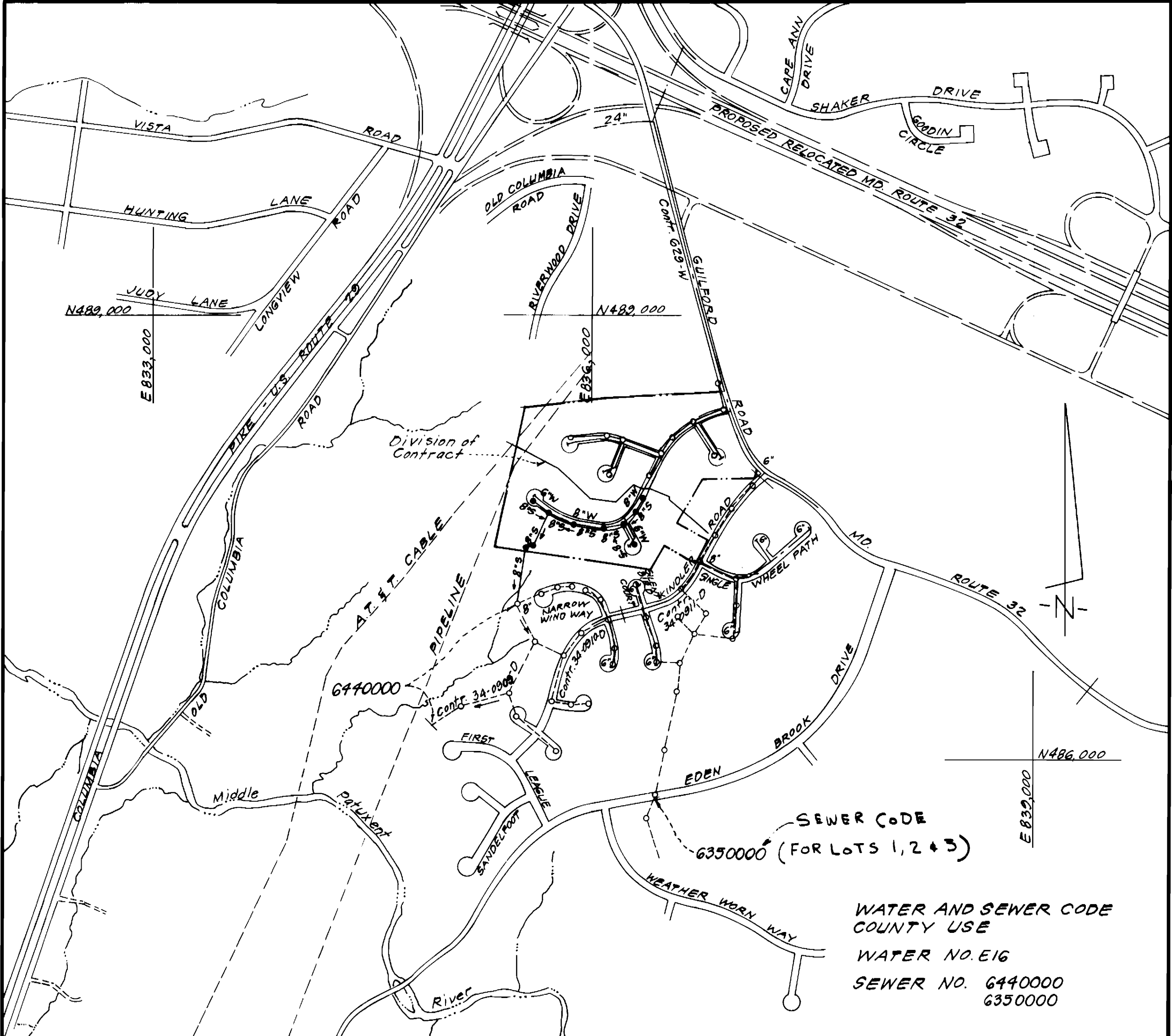


TYPE OF BUILDING	SINGLE FAMILY
NO. OF LOTS	46
NO. OF WHC	46
NO. OF SHC	46
DRAINAGE AREA	MIDDLE PATUXENT



VICINITY MAP

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 Details.
- For materials and construction methods use Howard County Standard Specifications.
- 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 Electric Distribution Customer Service - 685-0123
 - Baltimore Gas & Electric Company - Underground Gas Distribution Customer Service - 685-0123
 - Engineering - Damage Control - 234-5621
 - "Miss Utility" - 1-559-0100
 - Chesapeake & Potomac (C & P) Telephone Company - 725-9976
 - American Telephone and Telegraph - Cable Location Division - 393-3553
 - Colonial Pipeline Company - 781-4641
 - Bureau of Utilities Howard County - 992-2366
- 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 C.I.P. or D.I.P. 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 strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 3701 & 3705 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 C.S.P.X., V.C.P.X., P.V.C., or A.C.P. Class 2400 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'.
- For all Copper Water House Connections, utilize flared type fittings only.
- Brick Manholes deeper than 12' shall have 12" thick walls up to a point 12' below the rim elevation. (See Profiles.)
- Frames for Manholes 14 and 15 shall be positioned in the grass strip between the back of curb and the sidewalk.

CONTRACT NO. 34-1137 D

PLEASANT GROVE

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F 84-07 ; Drawings 104/11, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
[Signature] 9-2-83
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

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

APPROVED:
[Signature] 9-2-83
Howard S.C.D. DATE

QUANTITIES			
ITEM	EST'D	AS-BUILT	MATERIAL/SUPPLIER
8" S	1794 LF	1799	P.Y.C. CARLON
6" W	402 LF	420	DIP Griffin Pipe Products
8" W	762 LF	794	"
MH	10 EA.	10	TERRE HILL Precast Conc.
8" V	1 EA.	1	U.S. Pipe
6" V (ENCL. FH)	1 EA.	1	"
F.H.	2 EA.	2	"

PLEASANT GROVE
LOTS 1 Thru 3 and LOTS 22 Thru 44
SECTION ONE
6TH ELECTION DISTRICT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 9-2-83
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 9-2-83
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 9-2-83
CHIEF, LAND DEVELOPMENT DIV. DATE

CFE CLARK-FINEPROCK & SACKETT
ENGINEERS-PLANNERS-SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400



DES: C.K.G.	YLB	1	Revised Note 17, Sh. 1 of 3 as per Ho. Co. Comments. 10-10-83
DRN: V.L.B.			
CHK: C.K.G.			
DATE: 7-83			
BY NO.		REVISION	DATE

TITLE SHEET

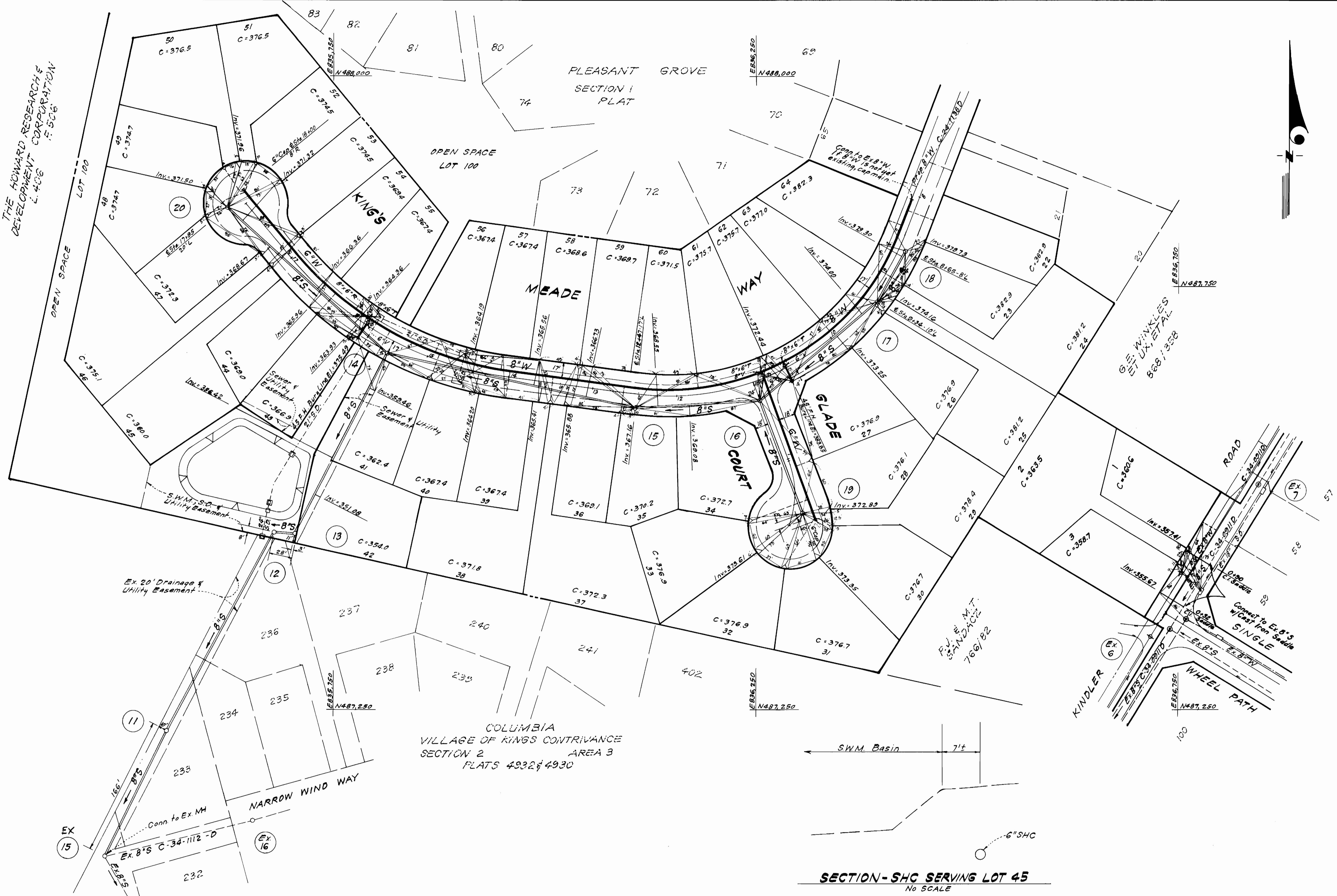
600' SCALE MAP NO. 41442 BLOCK NO. _____

PLEASANT GROVE
SECTION ONE
6TH ELECTION DISTRICT
CONTRACT NO. 34-1137 D

SCALE
1" = 600'

SHEET
1 of 3

THE HOWARD RESEARCH & DEVELOPMENT CORPORATION
L. 408
F. 506



SECTION-SHC SERVING LOT 45
No SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Henry F. Newman 9/83
DIRECTOR OF PUBLIC WORKS DATE

Michael J. ... 9/83
CHIEF, BUREAU OF ENGINEERING DATE

Robert ... 9/7/83
CHIEF, BUREAU OF UTILITIES DATE

Michael J. ... 9/83
CHIEF, LAND DEVELOPMENT DIV. DATE

CFP CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400



DES: C.K.G.			
DRN: V.L.B.			
CHK: C.K.G.			
DATE: 7-83			
BY	NO.	REVISION	DATE

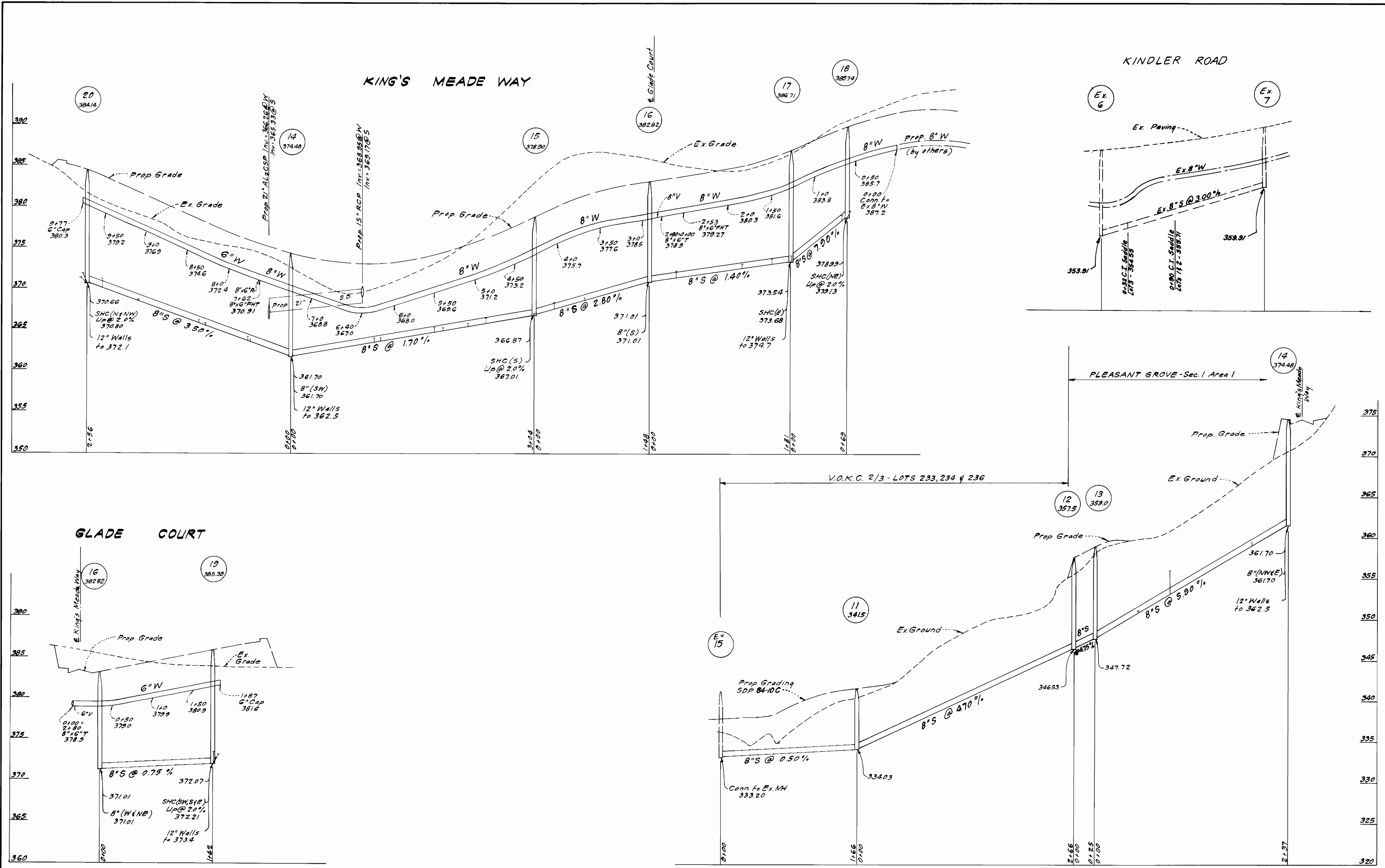
PLAN OF
WATER & SEWER MAINS

600' SCALE MAP NO. 41422 BLOCK NO.

PLEASANT GROVE
SECTION ONE
6TH ELECTION DISTRICT
CONTRACT NO. 34-11370

SCALE
1" = 50'

SHEET
2 OF 3



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Shirley F. Neuman 9-8-83
 DIRECTOR OF PUBLIC WORKS DATE

William B. Peltz 9/13/83
 CHIEF, BUREAU OF ENGINEERING DATE

Randy Wood 9/13/83
 CHIEF, BUREAU OF UTILITIES DATE

William L. Peltz 9-8-83
 CHIEF, LAND DEVELOPMENT DIV. DATE

CFE CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
 (301) 593-3400



DES: C.K.G.	
DRN: V.L.B.	
CHK: C.K.G.	
DATE: 7-83	
BY: NO.	
REVISION	
DATE	

PROFILES OF
 WATER & SEWER MAINS

600' SCALE MAP NO. 4142 BLOCK NO.

PLEASANT GROVE
 SECTION ONE
 6TH ELECTION DISTRICT
 CONTRACT NO. 34-1137D

SCALE
 VERT: 1"=5'
 HORZ: 1"=50'

SHEET
 3 OF 3