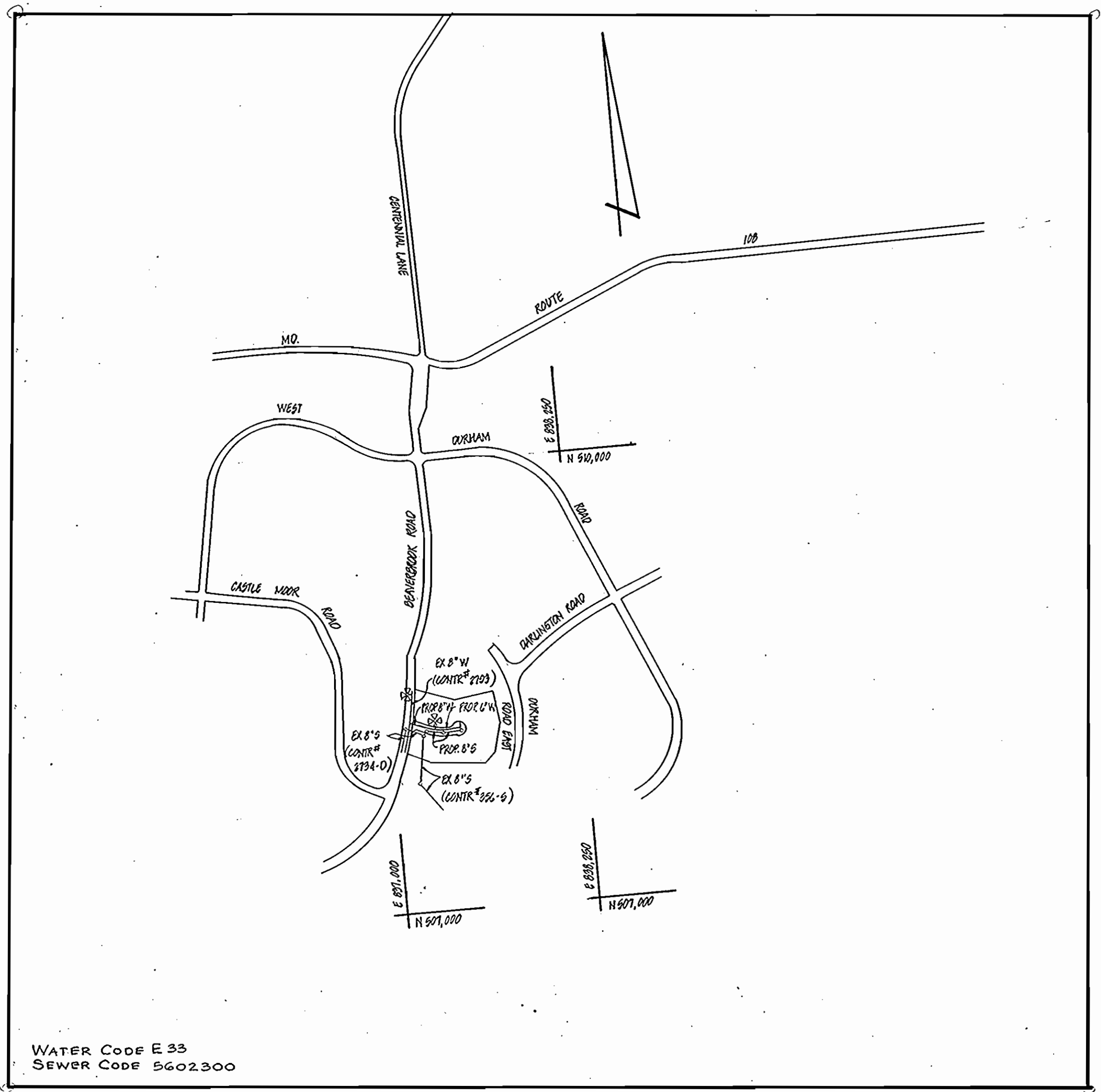


TYPE OF BUILDING	SINGLE FAMILY DETACHED DWELLING
NUMBER OF LOTS	10
NUMBER OF SHC'S	10
NUMBER OF WHC'S	10
DRAINAGE AREA	LITTLE PATUXENT



WATER CODE E 33
SEWER CODE 5602300

VICINITY MAP
SCALE: 1" = 100'

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 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 MIN. OF 6" CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HO. CO. STANDARD DETAILS.
- FOR MATERIALS AND CONSTRUCTION METHODS USE HO. CO. STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MIN. OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES OR UTILITIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTO. GAS & ELECTRIC CO. - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE - 685-0123
 - BALTO. GAS & ELECTRIC CO. - 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 & TELEGRAPH - CABLE LOCATION DIVISION - 393-3553
 - COLONIAL PIPELINE COMPANY - 795-1390
 - BUREAU OF UTILITIES HOWARD COUNTY - 992-2366
- TREES ARE TO BE PROTECTED FROM DAMAGE TO MAX. 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 ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS TO HAVE A MIN. 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 10 03 AND 10 08 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., R.C.S.P., V.C.P., A.C.P. CLASS 2400 OR PVC 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.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES. ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE, STANDARD DETAIL G.5.41.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE NO. 15 OF THE SPECIFICATIONS AND WITH F-86-198

SEDIMENT & EROSION CONTROL

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Hahn 8-5-86
U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:
Stephen L. Fuhr 8/5/86
HOWARD SCD DATE

QUANTITIES			
ITEM	ESTM'D	AS-BUILT	MATERIAL/SUPPLIER
8" W	140 L.F.	237 L.F.	DIP GRIFFIN PIPE CO.
6" W	120 L.F.	135 L.F.	"
8" x 8" T.S. & V	1	1	U.S. PIPE AND BOUNDARY
1/2" BRUSH	1	1	"
FIRE HYDRANT	1	1	"
1" WHC	100 L.F.	89 L.F.	TYPE K COPPER HOWELL METALS
3/4" WHC	10 L.F.	15 L.F.	"
8" S	27 L.F.	262 L.F.	300, 36" J.M. MANUFACTURING
MANHOLES	3	3	ATLANTIC PRECAST
6" SHC	240 L.F.	259 L.F.	500, 30" J.M. MANUFACTURING

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert H. Beinger 8-8-86
DIRECTOR OF PUBLIC WORKS DATE

William E. Paparin 9-3-86
CHIEF, BUREAU OF ENGINEERING DATE

William E. Paparin 9-3-86
CHIEF, LAND DEVELOPMENT DIV. DATE

BOENDER ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3565 ELLICOTT MILLS DRIVE
ELLICOTT CITY, MARYLAND 21043
465-7777



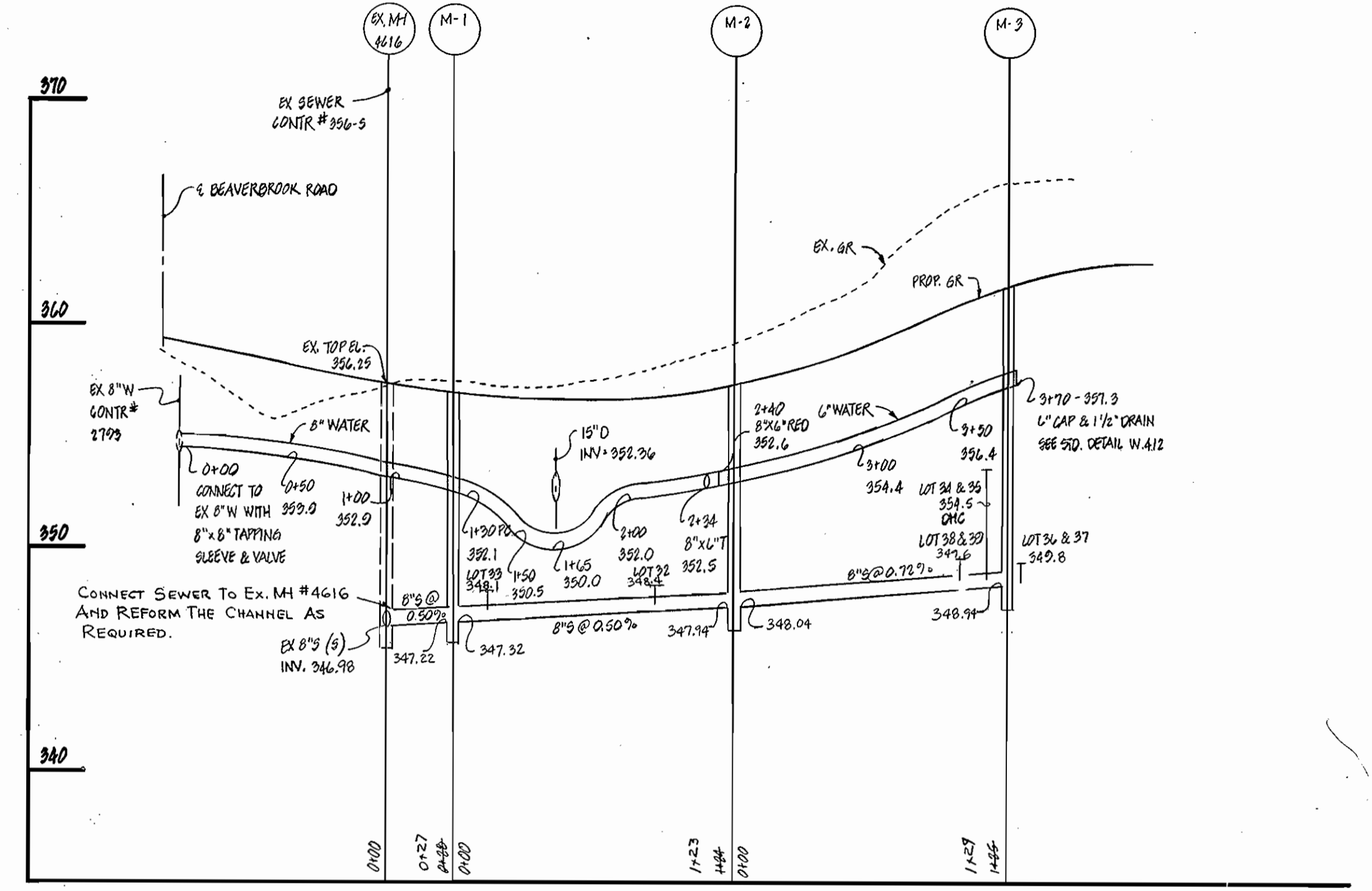
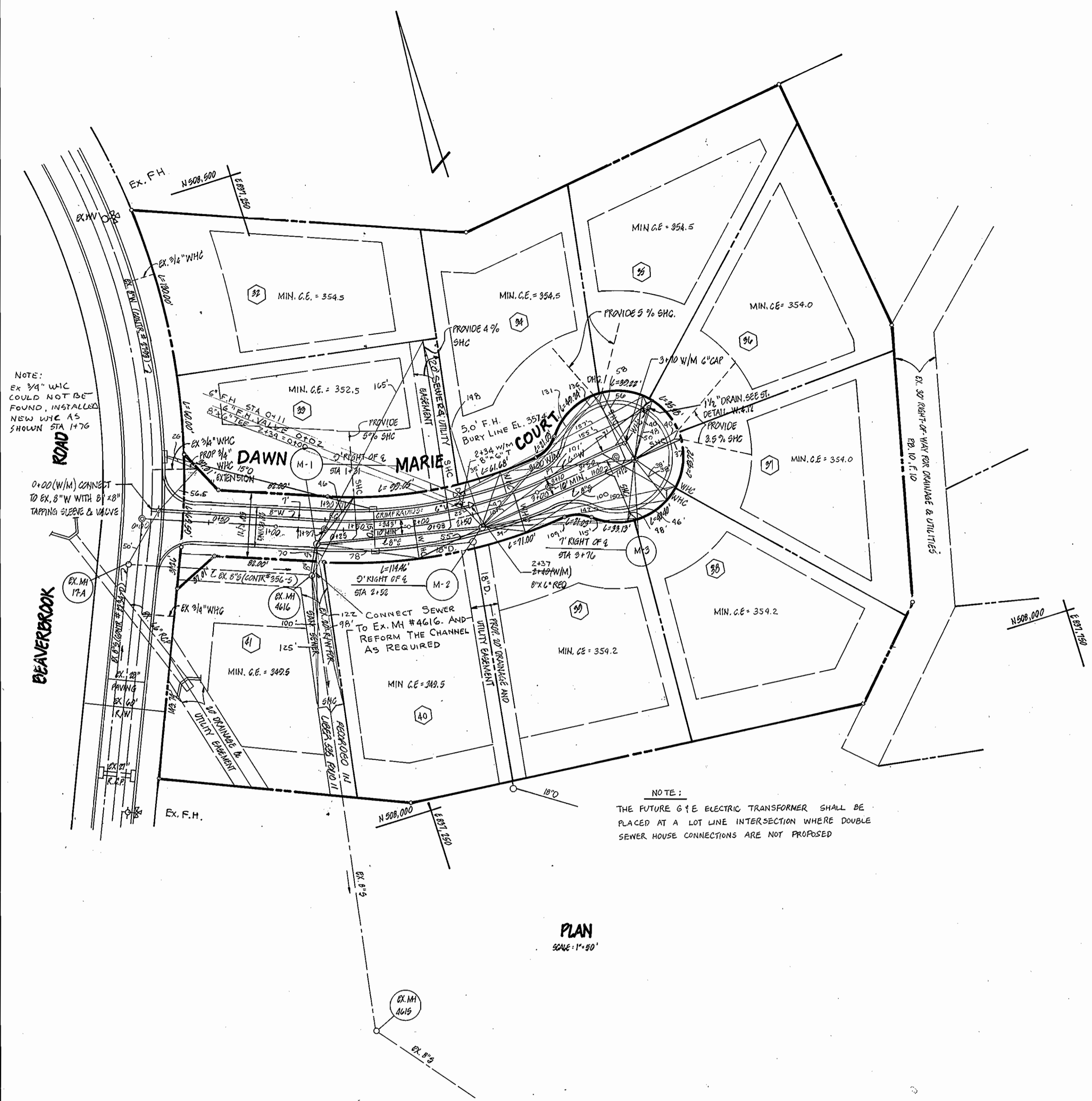
DES: W.N.				
DRN: D.R.				
CHK: W.N.				
DATE: MAY, 1986				
BY NO.		REVISION		DATE

TITLE SHEET

BEAVERBROOK - SECTION II, AREA 3
5TH ELECTION DISTRICT
CONTRACT NO. 24-1530-D

SCALE
AS SHOWN

SHEET
1 OF 2



SEWER HOUSE CONNECTIONS			
LOTS	INV @ E	INV. @ SEWER MANH.	SLOPE
37	348.4	347.8	4%
38	348.1	347.4	5%
M & 38	354.6 DMC	348.8	5%
38 & 39	349.8	349.0	2%
38 & 39	349.6	348.8	2%
40 & 41	345.6	345.4	2%

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. B... 9-8-86
DIRECTOR OF PUBLIC WORKS
DATE

Michael P. ... 9-8-86
CHIEF, BUREAU OF UTILITIES
DATE

BCFENDER ASSOCIATES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3565 ELLICOTT MILLS DRIVE
ELLICOTT CITY, MARYLAND 21043
465-7777

STATE OF MARYLAND
WALTER S. ...
PROFESSIONAL ENGINEER
S-19-86

DES: W.N.				
DRN: D.P.				
CHK: W.N.				
DATE: MAY, 1986	BY	NO	REVISION	DATE

PLAN AND PROFILES

BEAVERBROOK-SECTION II, AREA 3
5TH ELECTION DISTRICT
CONTRACT NO. 24-1530-D

SCALE AS SHOWN
SHEET 2 OF 2