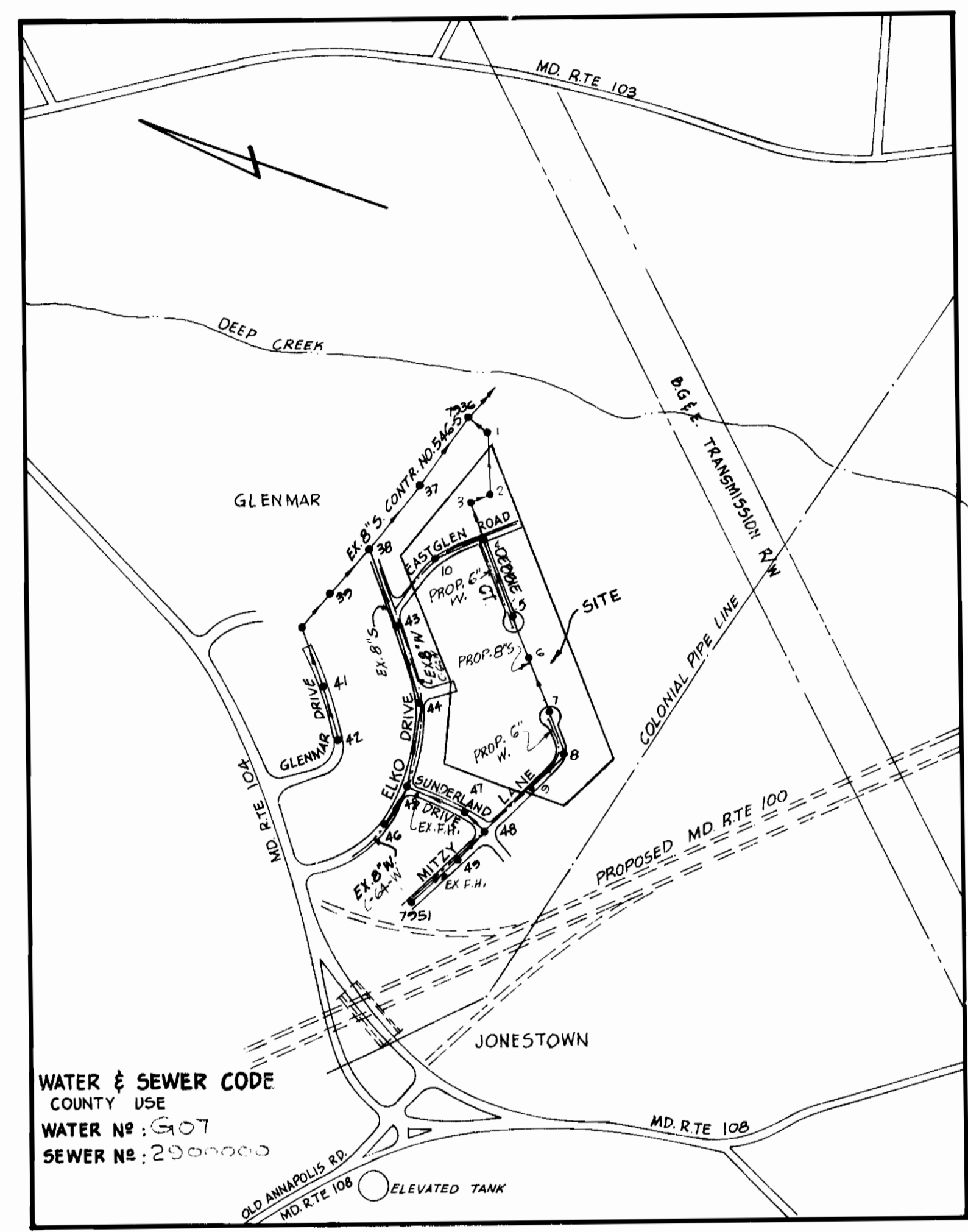
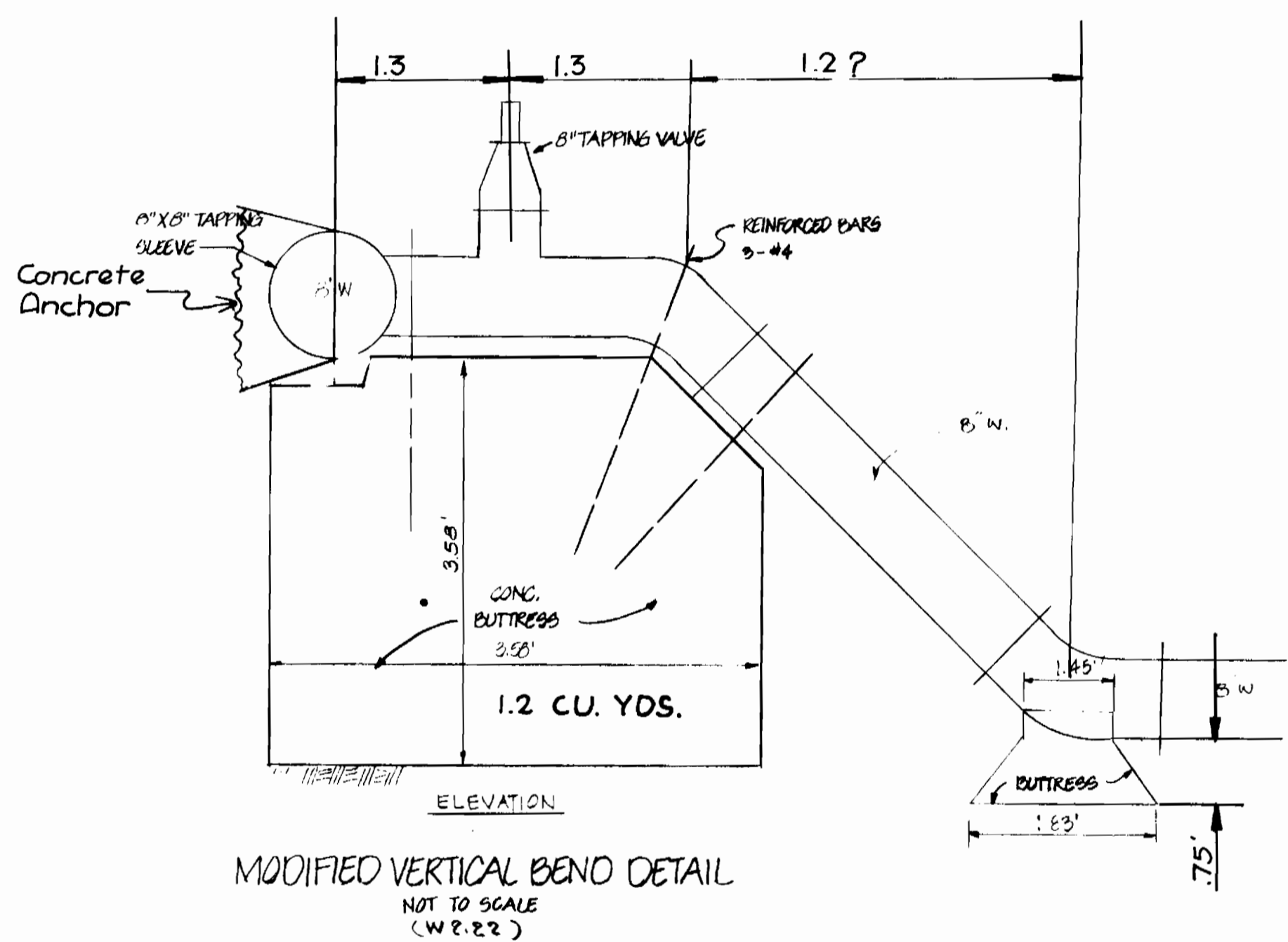
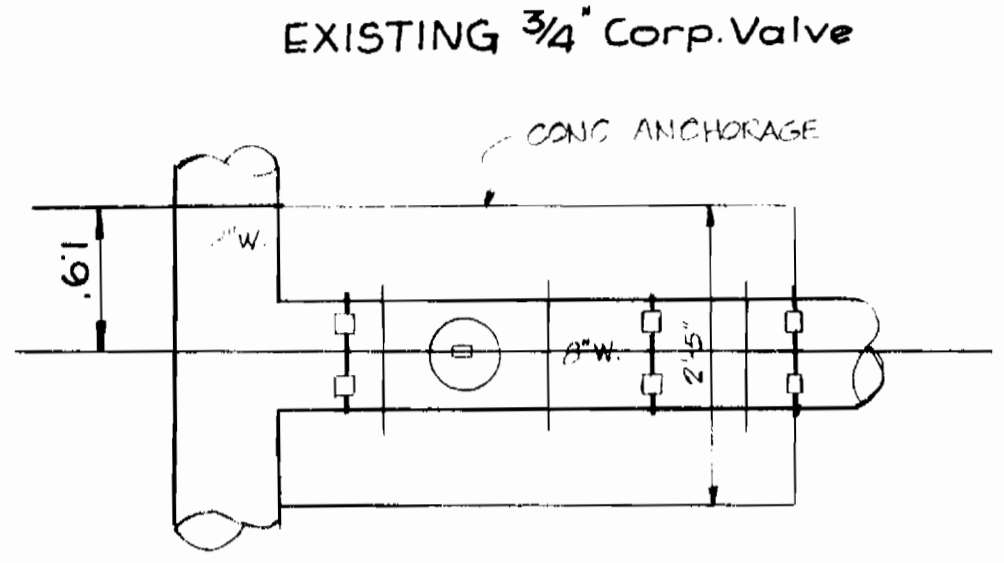


TYPE OF BUILDING	RESIDENTIAL/SFD
NUMBER OF LOTS	44
NUMBER OF S.H.C.'s	44
NUMBER OF W.H.C.'s	44
DRAINAGE AREA	PATAPSCO



**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 PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 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 MIN. 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 - 534-5233
  - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE - 605-0123
  - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE - 605-0123
  - ENGINEERING - "DAMAGE CONTROL" - 294-5621
  - "MIBS UTILITY" - 1-855-0100
  - CHEBAPEAKE & POTOMAC (C & P) TELEPHONE COMPANY - 725-9976
  - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 908-3593
  - COLONIAL PIPELINE COMPANY - 781-4641
  - BUREAU OF UTILITIES HOWARD COUNTY - 202-2366
- 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 ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "HEAVY 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 2" I.P. OR 2" 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 TREES SHALL BE STRAPPED TO TREES.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- 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 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEMS.
- ALL SEWER MAINS SHALL BE C.S.P., R.C.S.P., V.C.P.X., A.C.P. CLASS 3300 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 COVER, STANDARD DETAIL 8552 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CAN NOT BE SERVED.
- FOR ALL COPPER HOUSE CONNECTIONS UTILIZE FLARED TYPE FITTINGS ONLY.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE NO. 15 OF THE SPECIFICATIONS AND ROAD CONSTRUCTION PLAN P-84-200.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.  
*James Helm* 10-4-84  
 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...*  
 HOWARD S.C.D. DATE

**CONTRACT NO. 14-1258 -D  
 GLENMAR SECTION II  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS**

QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL / SUPPLIER
8" WATER	800 L.F.	784 L.F.	D.I. / O.S.P. SUPPLY / Atlantic States Pipe
6" WATER	1140 L.F.	1192 L.F.	" " " " " "
1" W.H.C.	331 L.F.	361 L.F.	Soft Copper / Municipal & Contr. Sales / Cambridge Le
3/4" W.H.C.	680 L.F.	662 L.F.	" " " " " "
8" SAN.	2434 L.F.	2458 L.F.	PVC / ITT Grinnell / Extrusion Tech. Inc.
6" S.H.C.	1,040 L.F.	790 L.F.	" " " " " "
Saddle 8x6	1 EA.	1 EA.	" " " " " "
8" V.	1 EA.	1 EA.	C.I. / Municipal & Contr. Sales / M.L.I.
FIRE HYDR.	4 EA.	4 EA.	" " " " " "
6" V-EXCL.F.H.	2 EA.	2 EA.	" " " " " "
BLOW-OFF - 1 1/2"	1 EA.	1 EA.	Soft Copper / Municipal & Contr. Sales / Cambridge Le
8x8" TAP SLEEVE	1 EA.	1 EA.	C.I. / Municipal & Contr. Sales / Clow
MANHOLE	9 EA.	10 EA.	Precast Concrete / Atlantic Precast Conc. Corp.

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

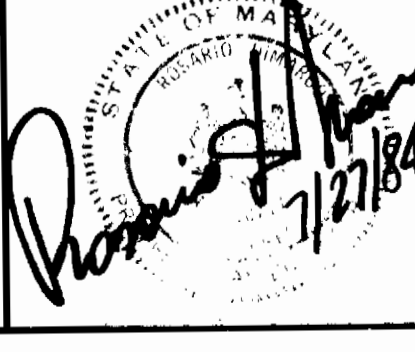
*James F. Newmyer* 10-22-84  
 DIRECTOR OF PUBLIC WORKS DATE

*Robert M. Brinson* 10-3-84  
 CHIEF, BUREAU OF UTILITIES DATE

*William S. R. DeWitt* 10/27/84  
 CHIEF, BUREAU OF ENGINEERING DATE

*Melissa...* 10/22/84  
 CHIEF, LAND DEVELOPMENT DIV. DATE

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



DES: WHN.	
DRN: D.M.P.	
CHK:	
DATE: MAY 84	
BY: NO.	
REVISION	
DATE	

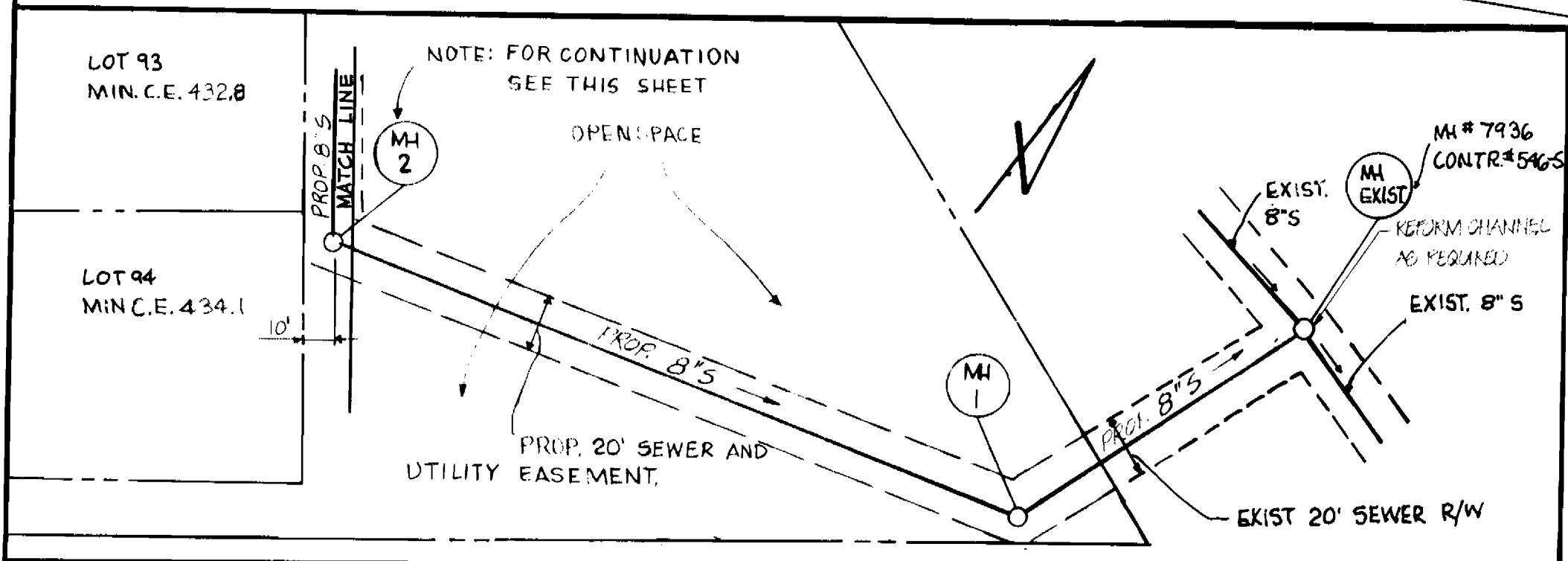
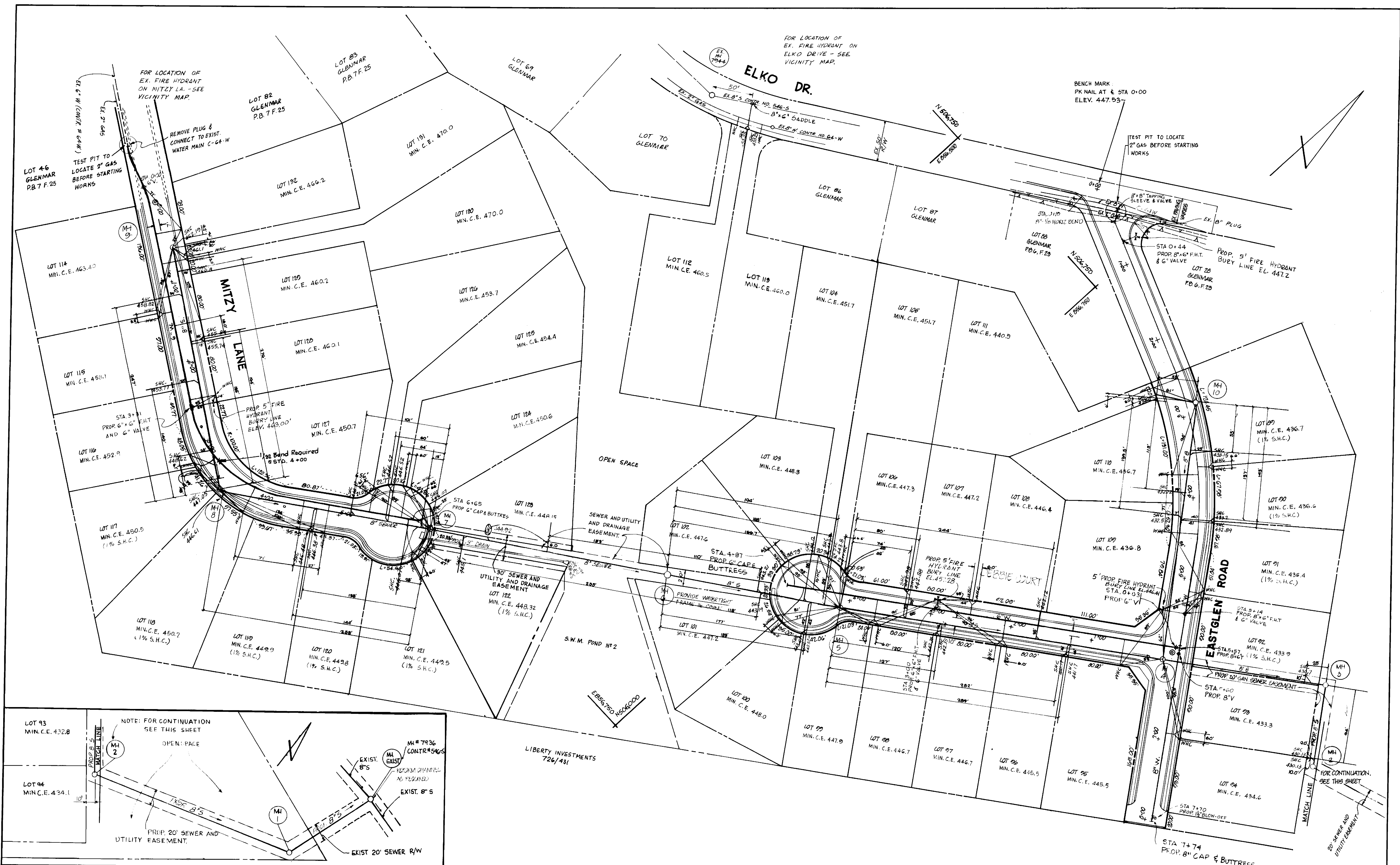
**LOCATION MAP**

600' SCALE MAP NO. 31 BLOCK NO.

**GLENMAR SECTION II  
 CONTRACT NO. 14-1258-D**

SCALE  
**1"=600'**

SHEET  
 1 OF 3



**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

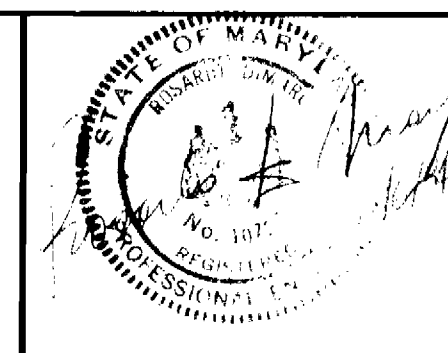
*John F. Williams* 10-22-84  
 DIRECTOR OF PUBLIC WORKS DATE

*Ruth Baugh* 10-3-84  
 CHIEF, BUREAU OF UTILITIES DATE

*Michael J. ...* 2/20/84  
 CHIEF, BUREAU OF ENGINEERING DATE

*...* 10-20-84  
 CHIEF, LAND DEVELOPMENT DIV. DATE

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

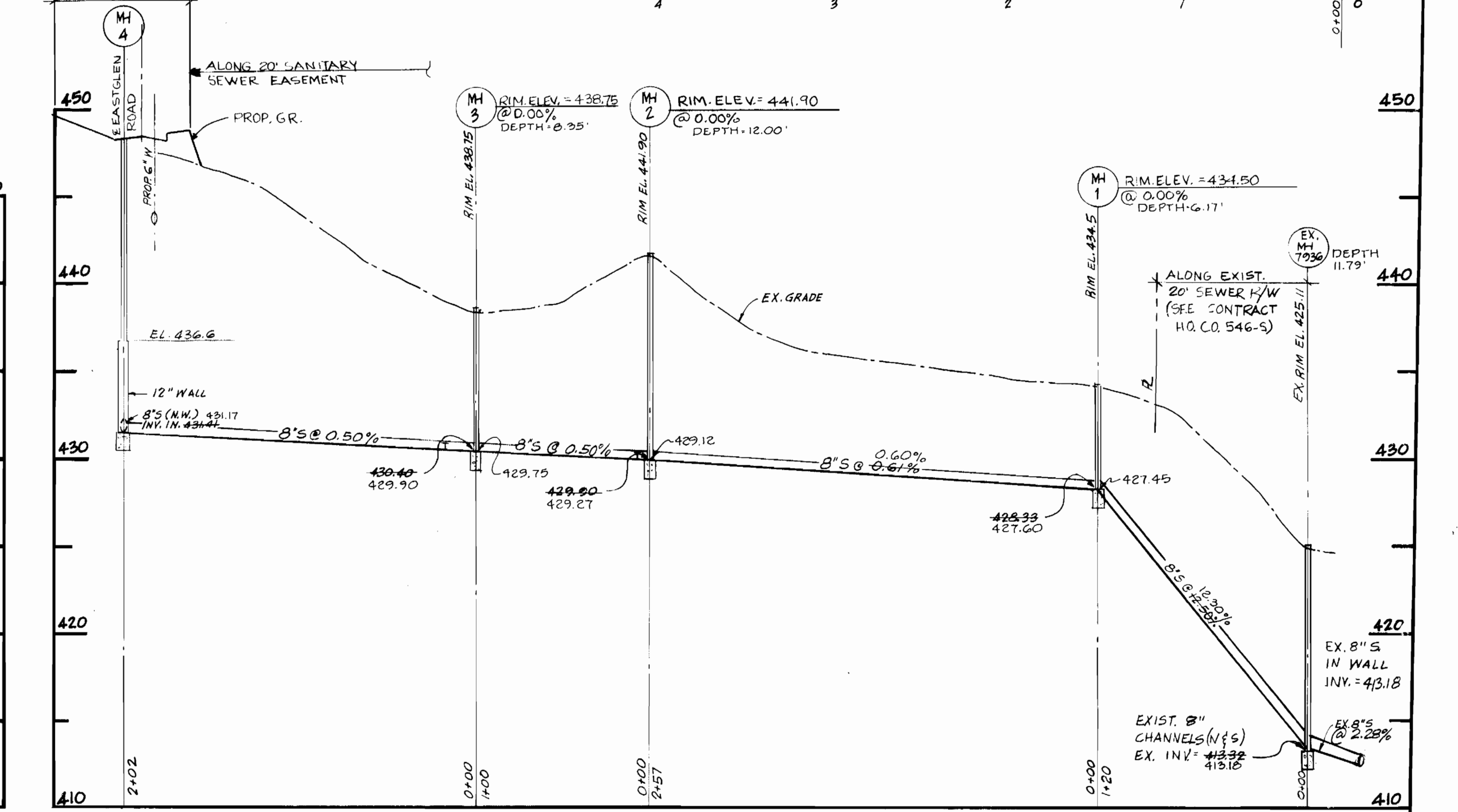
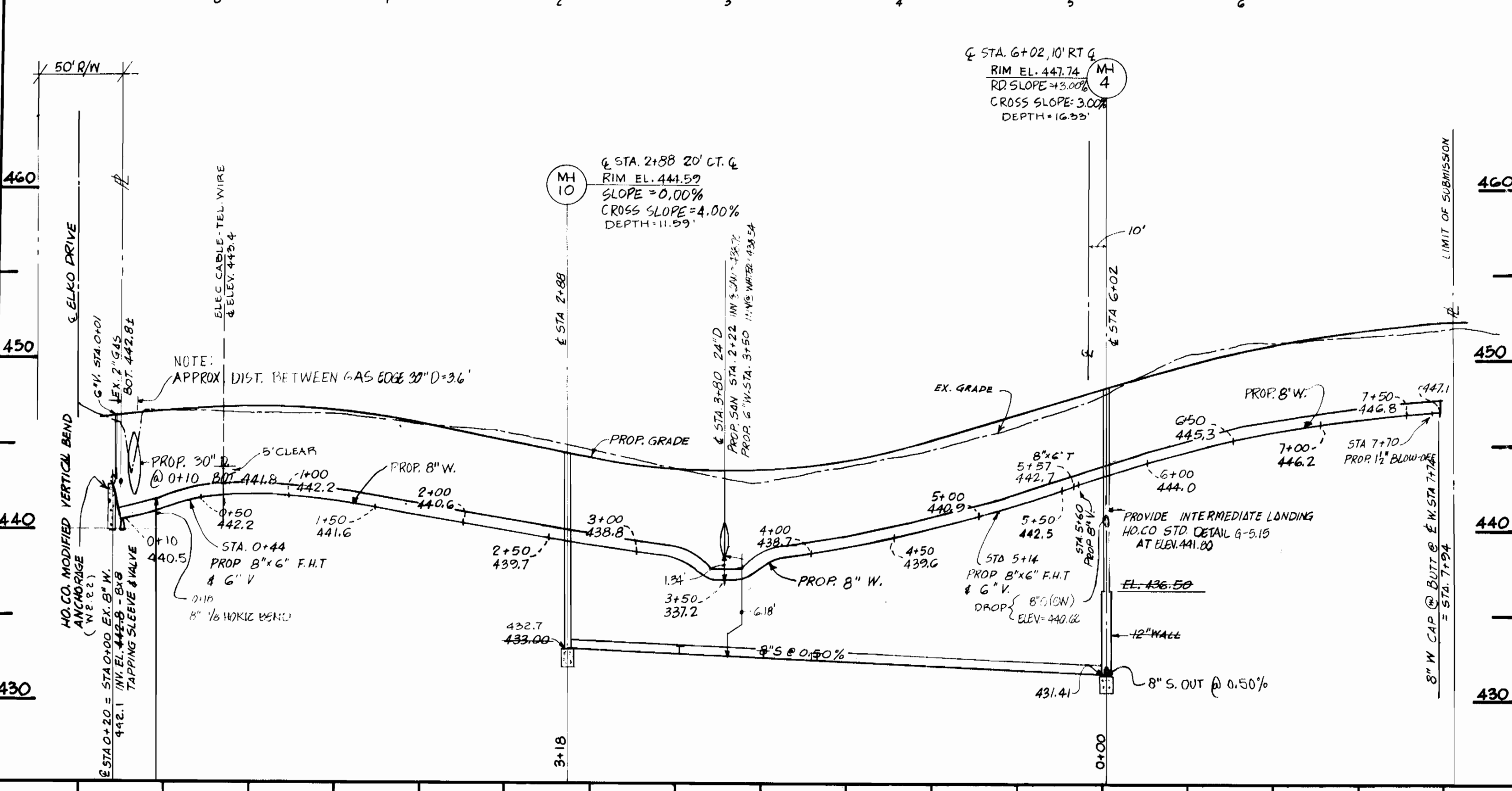
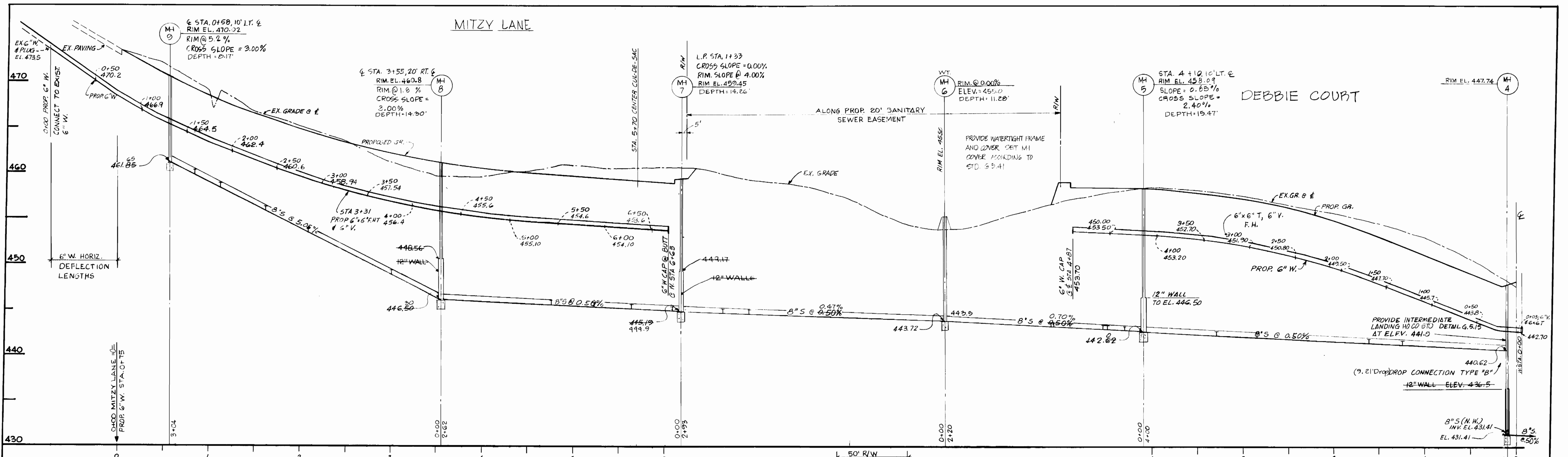


DES: WHN					
DRN: DMP					
CHK:					
DATE: MAY '84	BY:	NO.	REVISION	DATE	

**PLAN**

**GLENMAR-SECTION 2**  
**1ST ELECTION DISTRICT**  
 CONTRACT NO. - 14-1258-D

SCALE: 1" = 50'  
 SHEET: 2 OF 3



NOTE: SEWER PIPES LAID OVER 12" BELOW GRADE SHALL BE PVC "SPR 35" ENCASED IN GRAVEL CLASS 3000 A.C.P., D.I.P. CLASS 52 MH TO MH OR LOW CRADLE Y.C.P.X. OR C.S.P.X

PROFILES  
HORIZ. 1"=50'  
VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: *W. I. Neuma* 10-22-84  
Chief, Bureau of Engineering: *Robert S. Ryan* 10/21/84  
Chief, Bureau of Utilities: *Robert S. Ryan* 10-3-84  
Chief, Land Development Div.: *William J. Ryan* 10/22/84

BOENDER ASSOCIATES, INC.  
ENGINEERS - PLANNERS - SURVEYORS  
3665 ELLICOTT MILLS DRIVE  
ELLCOTT CITY, MARYLAND 21043  
465-7777



DES: W.H.N.					
DRN: R.D.M.					
CHK:					
DATE: MAY 84	BY:	NO.:	REVISION:	DATE:	

PROFILES

GLENMAR - SECTION 2  
1ST ELECTION DISTRICT  
CONTRACT NO. 14-1258-0

SCALE: AS SHOWN  
SHEET: 3 OF 3