
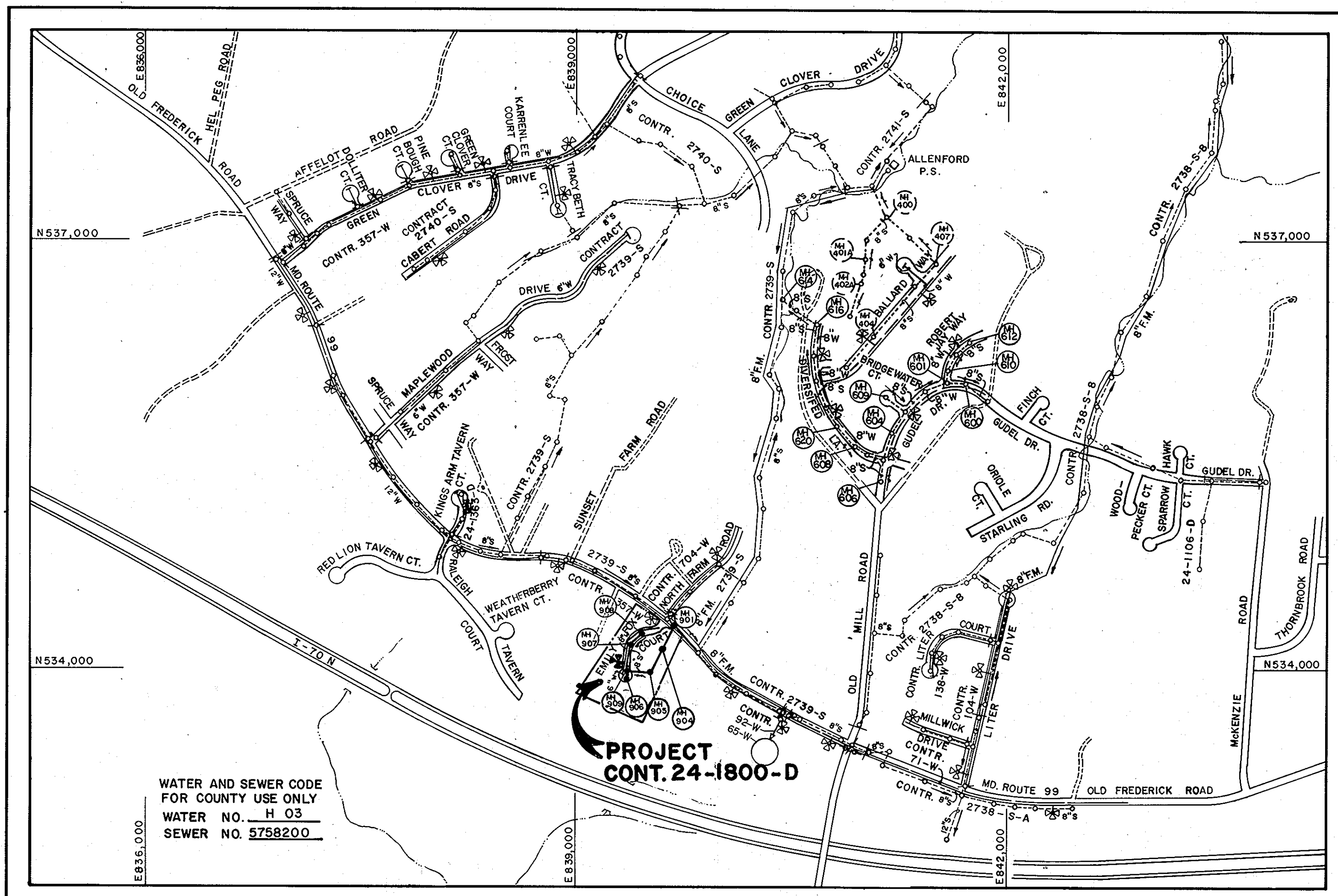


**GENERAL NOTES**

- 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 MINIMUM OF 6".
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION : 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES: 850-4620
  - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL: 859-9004
  - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING: 298-9001
  - MISS UTILITY: 1-559-0100
  - COLONIAL PIPELINE COMPANY: 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
  - C & P TELEPHONE COMPANY: 1-800-257-7777
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS 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. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE 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 SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. (STD. DETAIL W.3.21).
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS STANDARD DETAIL G5.52 WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. 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 FOR BRICK MANHOLES ONLY.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G5.51.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153: DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER & OTHER LIQUIDS.



WATER AND SEWER CODE FOR COUNTY USE ONLY  
 WATER NO. H 03  
 SEWER NO. 5758200

TYPE OF BUILDING	RESIDENTIAL
NUMBER OF LOTS (16 BUILDABLE)	17
NO. OF WATER HOUSE CONNECTIONS	16
NO. OF SEWER HOUSE CONNECTIONS	14
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	(PATAPSCO VIA ROUTE 108 PUMPING STA)

SCALE: 1" = 600'

# CONTRACT NO. 24-1800-D

## FOXWOOD

### LOTS 1-17

## WATER AND SEWER MAIN EXTENSIONS

# HOWARD COUNTY, MARYLAND

## DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL APPROVAL BETWEEN EX. MH # 366 AND MH # 902 IS PREDICATED ON DAILY BACKFILLING AND CAPPING OF THE TRENCH. THE CONTRACTOR SHALL PROVIDE DAILY CLEAN-UP OF ANY SEDIMENT WHICH ACCUMULATES ON THE PUBLIC RIGHT-OF-WAY.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F 88-232

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*James M. Helm* 7/22/88  
 U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:  
*Stephen L. Goble* 7/22/88  
 HOWARD SOIL CONSERVATION DISTRICT DATE

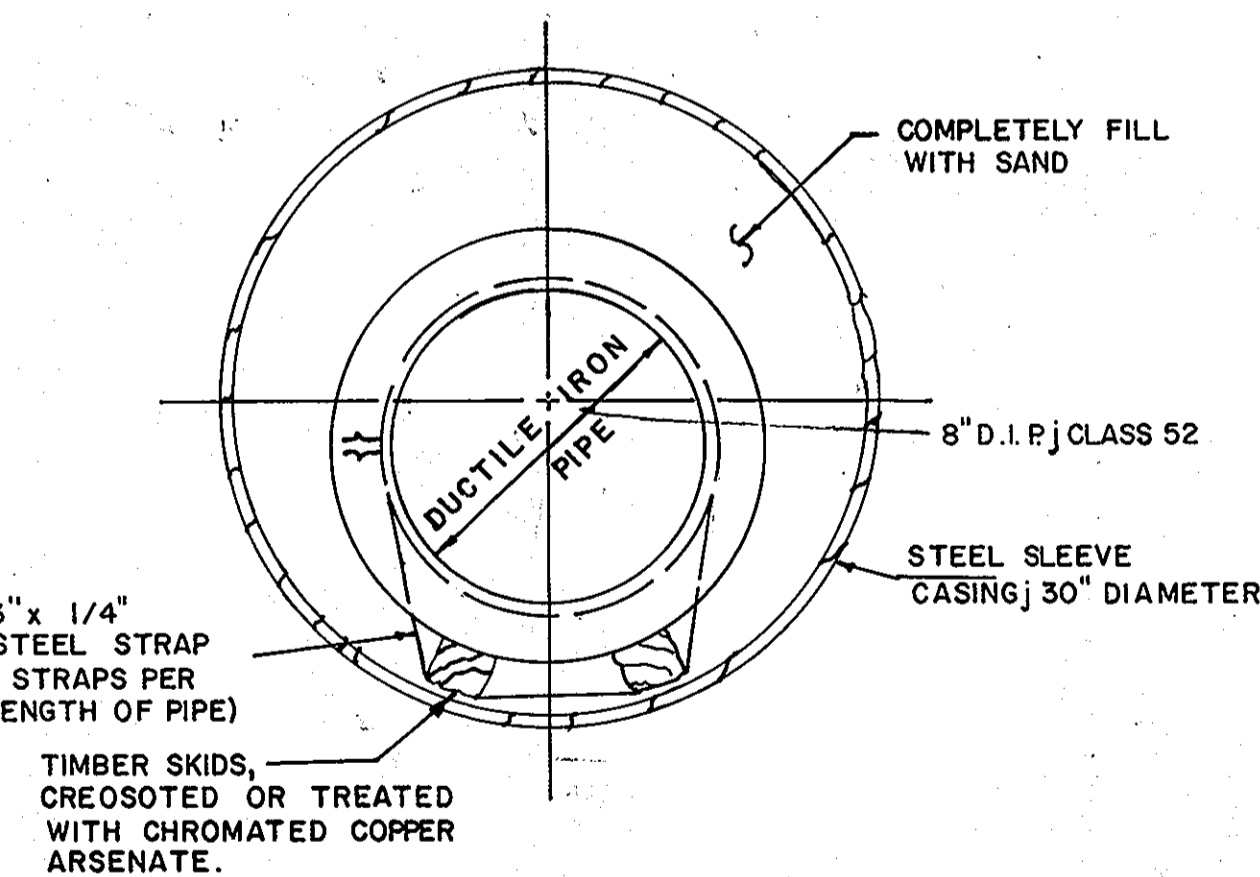
PLAN REFERENCE NUMBERS	
S	88-07
P	88-41
F	88-232

CONTRACT NO. 24-1800-D  
 FOXWOOD  
 LOTS 1-17  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James M. Helm</i> 7/22/88 DIRECTOR OF PUBLIC WORKS DATE <i>Robert W. Bennett</i> 7-19-88 CHIEF, BUREAU OF UTILITIES DATE	FISHER, COLLINS AND CARTER, INC. 9757 CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 <i>Terrell A. Fisher</i> TERRELL A. FISHER	CES: P.W.K. DRN: S.B. CHK: E.D.C. DATE: 4/2/88 G.W. BY NO. REVISION DATE: 9-12-88	TITLE SHEET 600' SCALE MAP NO. 17 BLOCK NO. 8
FOXWOOD LOTS 1-17 CONTRACT NO. 24-1800-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND			SCALE AS SHOWN SHEET 1 OF 3

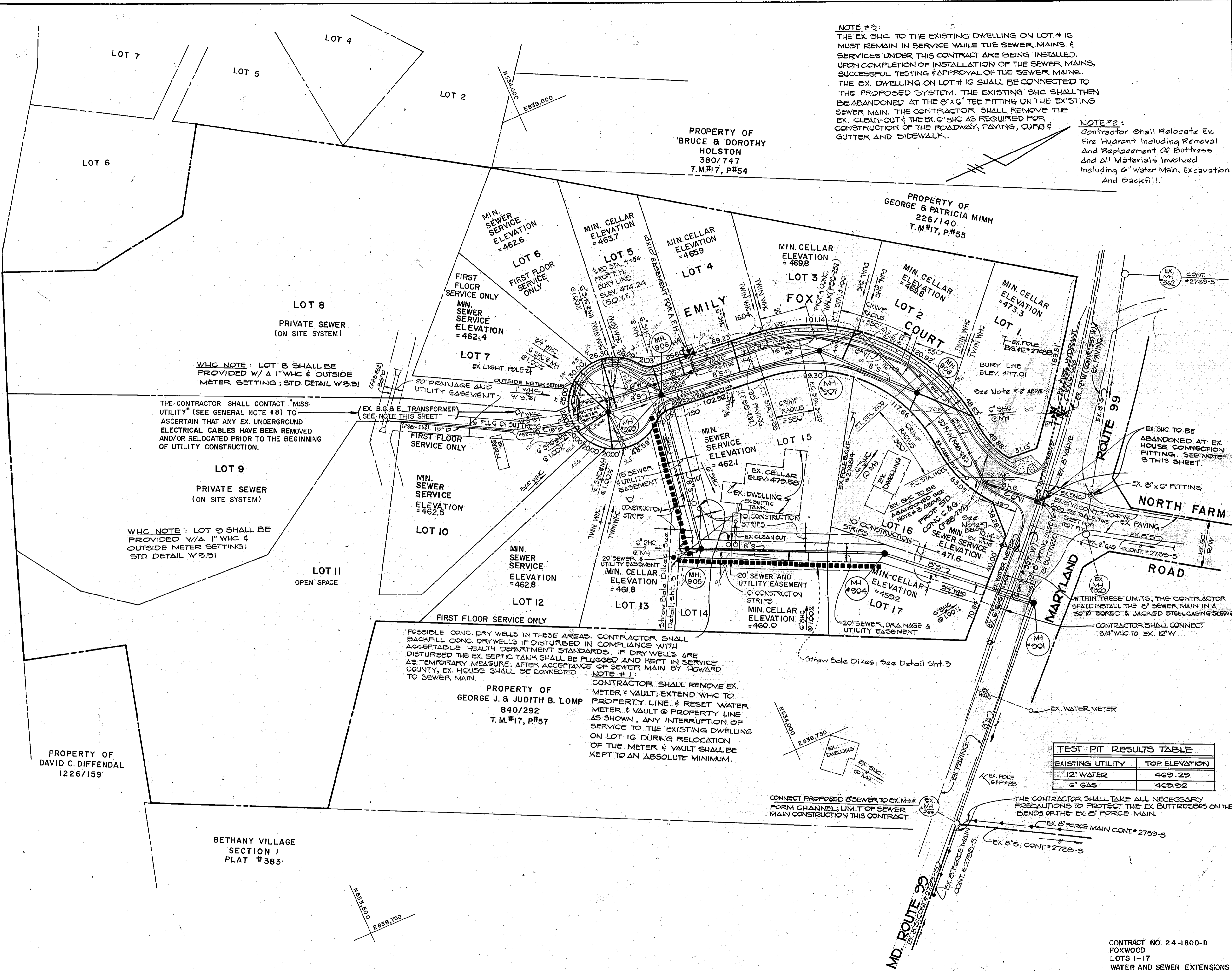
SEWER HOUSE CONNECTION INVERT ELEVATIONS AT PROPERTY LINE		
STATION	LOT	ELEVATION
MH # 201 TO MH # 204		
0+65 LT.	LOT 17 (1%)	454.95 (1%)
MH # 204 TO MH # 205		
0+62 LT.	LOT 14 (1%)	455.89 (1%)
1+58	LOT 16	456.30
MH # 205	LOT 15	456.94
MH # 205 TO MH # 206		
MH # 205 LEFT	LOT 13	456.94
MH # 206	LOT 5	457.99
MH # 206 TO MH # 207		
MH # 206 LEFT	LOT 5	457.99
0+89 LEFT	LOT 4	460.69
MH # 207 TO MH # 208		
0+86 LEFT	LOT 2 & 3	464.11
MH # 208 LEFT	LOT 1	467.49
MH # 208 RIGHT	LOT 16	466.55
MH # 208 TO MH # 209		
MH # 208 RIGHT	LOT 5	457.99 (1%)
0+50 RIGHT	LOT 6 (1%)	458.18 (1%)
MH # 209 RIGHT	LOT 7 (1%)	458.26 (1%)
MH # 209	LOT 10 (1%)	458.15 (1%)
MH # 209 LEFT	LOT 12 (1%)	458.16 (1%)

MANHOLE TABULATION				
NO.	CRD. STA.	DIST.	RIM	SLOPE
901	SET RIM	FLUSH W/ EXISTING GROUND		
904	SET RIM	FLUSH W/ EXISTING GROUND		
905	SET RIM	FLUSH W/ EXISTING GROUND		
906	IN COURT	7' LT.	471.50	-5.00 %
907	3+16	3' LT.	479.52	-4.00 %
908	1+97	5' LT.	480.66	+2.40 %
909	IN COURT	6' LT.	467.85	



**DETAIL**  
BORING & JACKING INSTALLATION  
FOR 8" SEWER MAIN @ MD. ROUTE 99

INTERSTATE 70



**NOTE #2:**  
THE EX. SHC TO THE EXISTING DWELLING ON LOT # 16 MUST REMAIN IN SERVICE WHILE THE SEWER MAINS & SERVICES UNDER THIS CONTRACT ARE BEING INSTALLED. UPON COMPLETION OF INSTALLATION OF THE SEWER MAINS, SUCCESSFUL TESTING & APPROVAL OF THE SEWER MAINS, THE EX. DWELLING ON LOT # 16 SHALL BE CONNECTED TO THE PROPOSED SYSTEM. THE EXISTING SHC SHALL THEN BE ABANDONED AT THE 6" X 6" TEE FITTING ON THE EXISTING SEWER MAIN. THE CONTRACTOR SHALL REMOVE THE EX. CLEAN-OUT & THE EX. SHC AS REQUIRED FOR CONSTRUCTION OF THE ROADWAY, PAVING, CURB & GUTTER AND SIDEWALK.

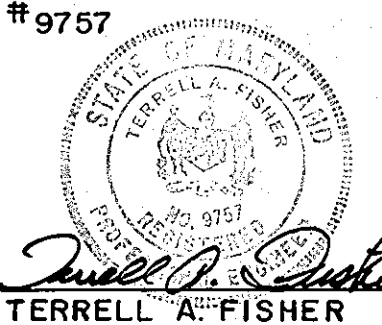
**NOTE #2:**  
Contractor shall Relocate Ex. Fire Hydrant Including Removal and Replacement of Buttress and All Materials Involved Including 6" Water Main, Excavation and Backfill.

TEST PIT RESULTS TABLE	
EXISTING UTILITY	TOP ELEVATION
12" WATER	469.29
6" GAS	469.92

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EX. BUTTRESSES ON THE BENDS OF THE EX. 6" FORCE MAIN.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043



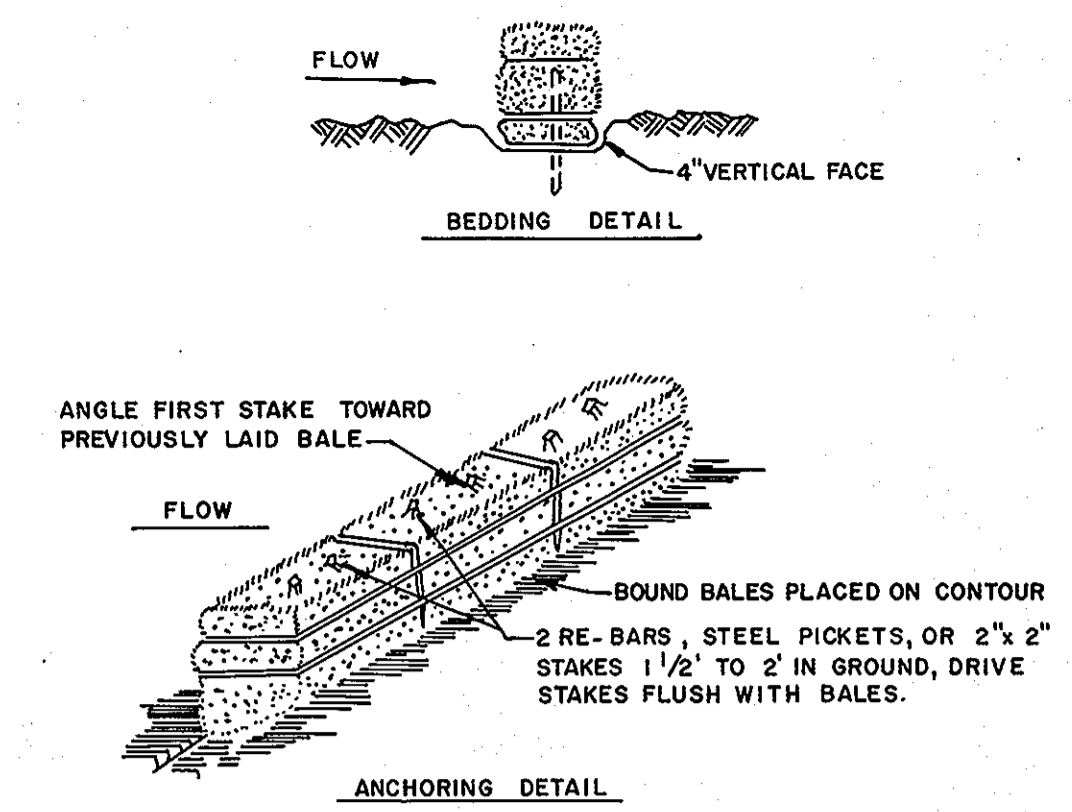
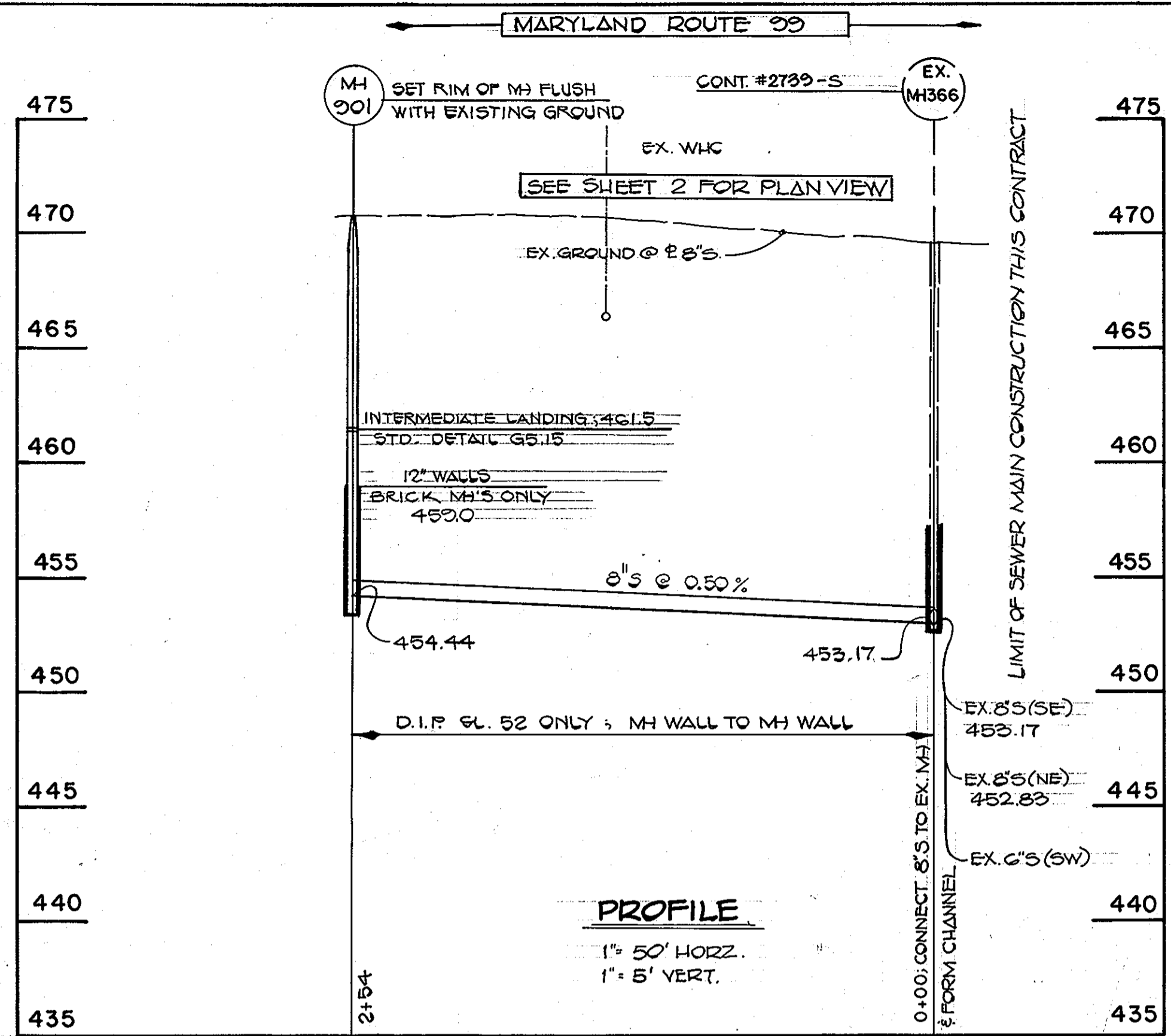
DES: P.W.K.	
DRN: J.O./S.B.	
CHK: T.A.F.	
DATE: 4/20/88	
REVISE SHC & MANHOLE TABLE AND SEWER MAIN ALIGNMENT	01/2/88
BY NO.	REVISION

**PLAN**  
WATER AND SEWER MAINS

**FOXWOOD**  
LOTS 1-17  
CONTRACT NO. 24-1800-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

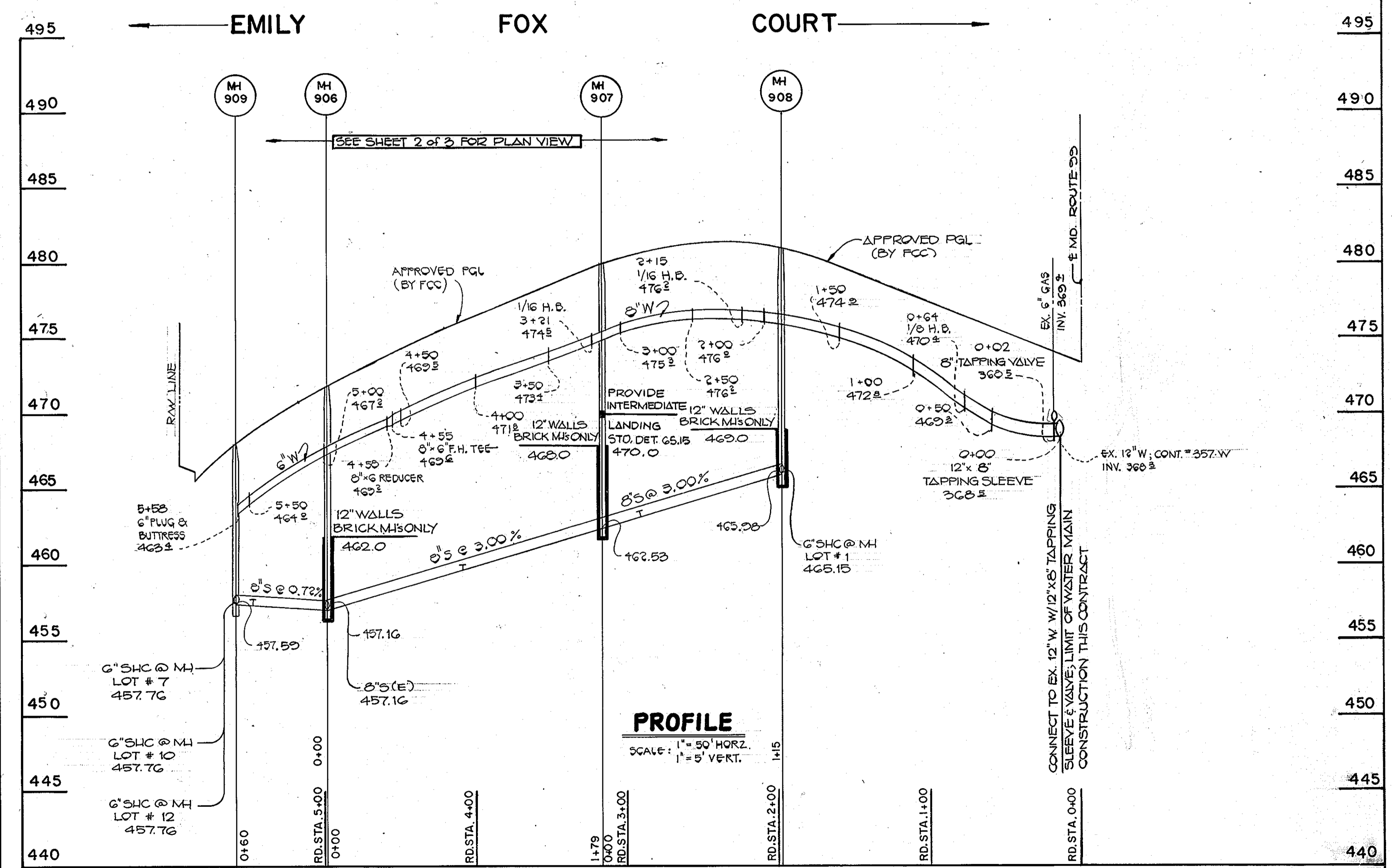
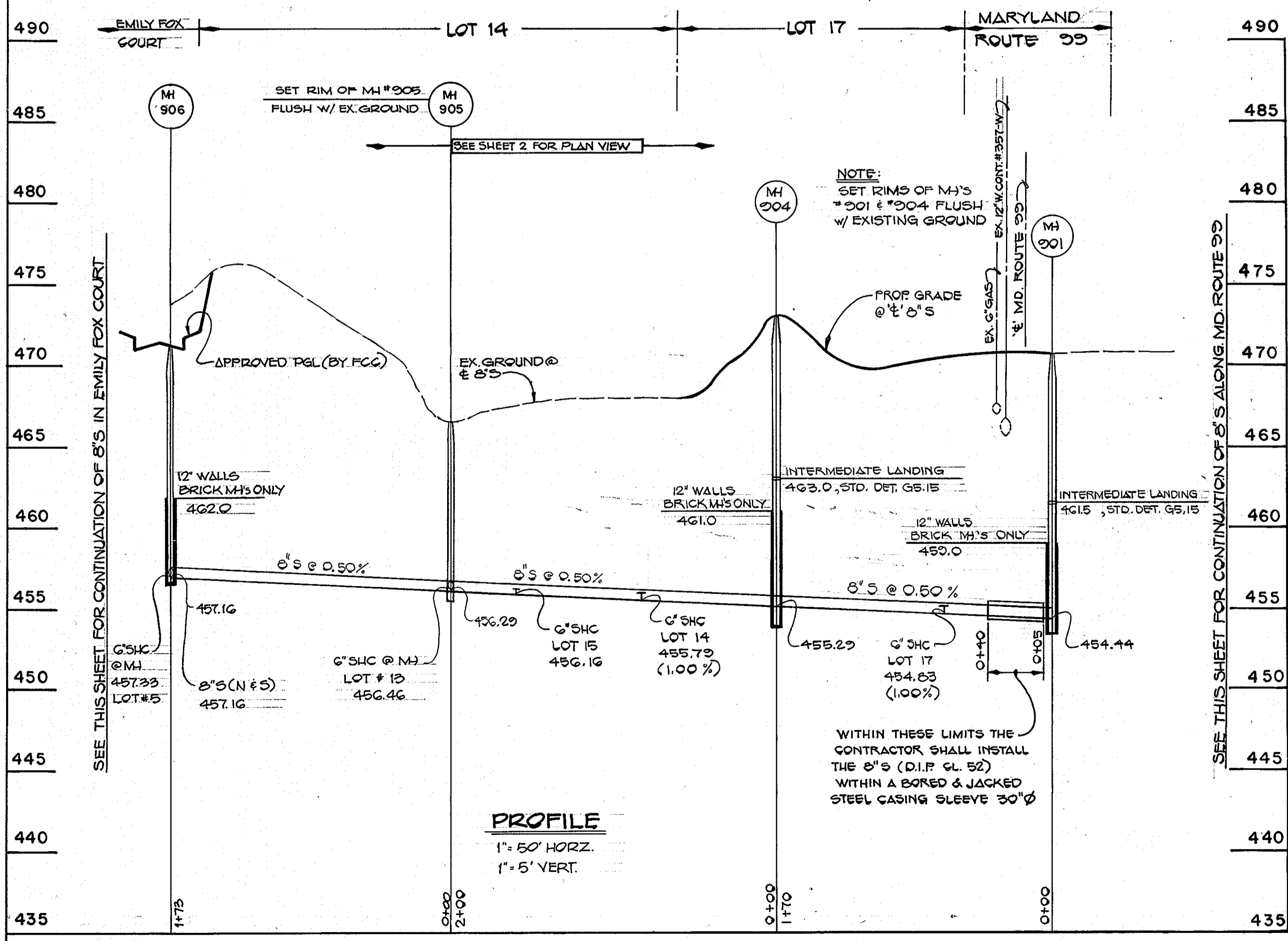
SCALE AS SHOWN  
SHEET 2 OF 3

CONTRACT NO. 24-1800-D  
FOXWOOD  
LOTS 1-17  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND



**STRAW BALE DIKE**

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



CONTRACT NO. 24-1800-D  
 FOXWOOD  
 LOTS 1-17  
 WATER AND SEWER EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *James M. Shaw* 7/26/88  
 Chief, Bureau of Engineering: *William P. Ray* 7/26/88  
 Chief, Bureau of Utilities: *Richard W. Bennett* 7-19-88  
 Chief, Land Development Division: *Michael J. Egan* 7/25/88

FISHER, COLLINS AND CARTER, INC. #9757  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043  
 Terrell A. Fisher

DES: J.O.	
DRN: J.O./S.B.	
CHK: T.A.F.	
DATE: 4/29/88	
G.W. BY	NO.
REVISION	DATE
REVISION	DATE

PROFILES  
 WATER AND SEWER MAINS  
 600' SCALE MAP NO. 17 BLOCK NO. 2

FOXWOOD  
 LOTS 1-17  
 CONTRACT NO. 24-1800-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 2 OF 2