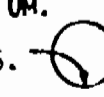
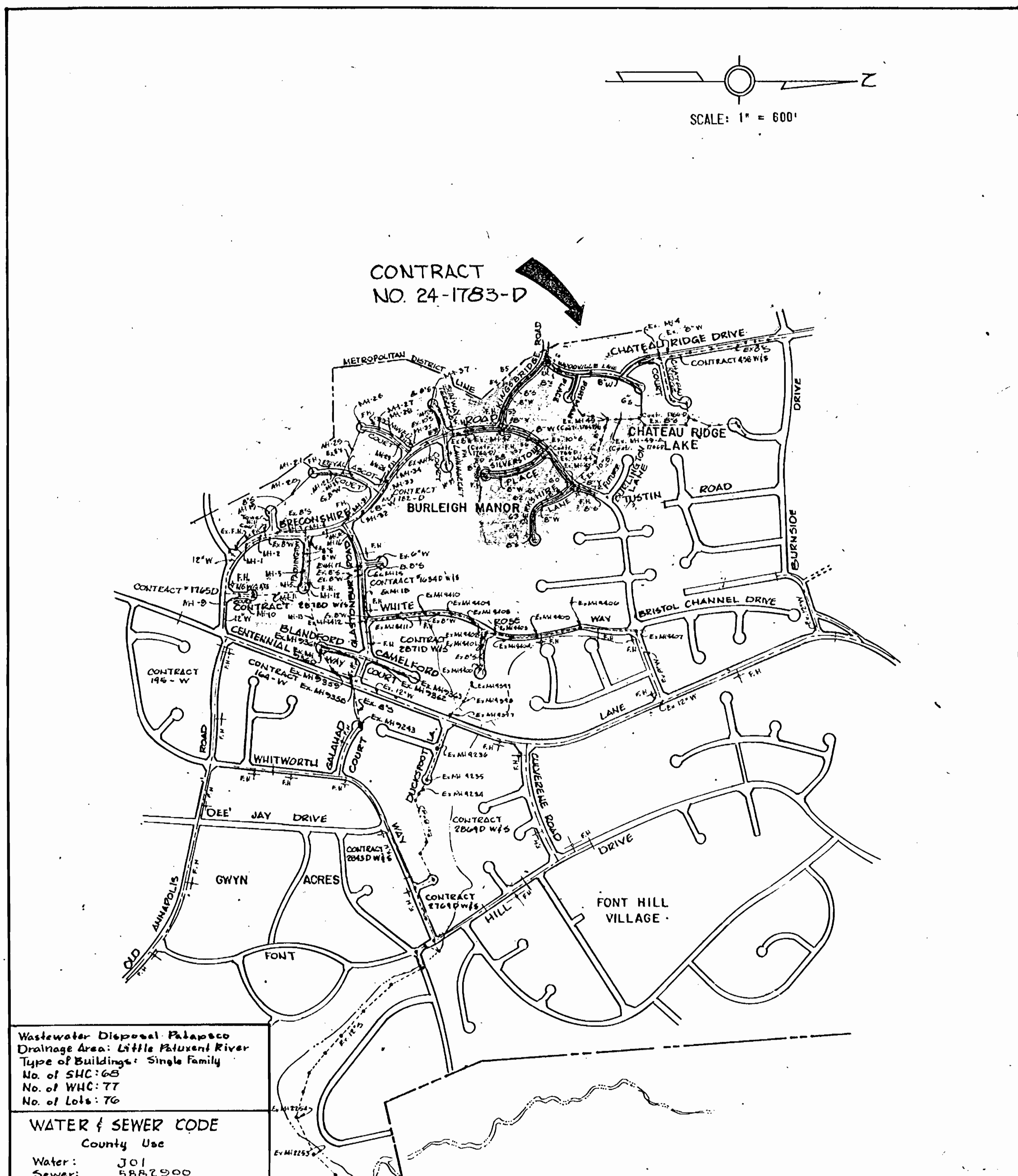


- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL 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". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USED 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 AND ELECTRIC CO. - CONTRACTOR SERVICES 850-4620
  - BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004
  - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
  - MISS UTILITY - 1 - 559-0100
  - COLONIAL PIPELINE CO. - 795-1890/C&P TELEPHONE CO. - 1-800-257-7777
  - BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2866
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A 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.
- 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 DRY 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 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 SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.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 DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- DIP FITTINGS IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
Sediment Control	480		
8" Sewer L.F.	3,402	1476	SJM Manufacturing / Below Supply
Sewer Manholes	20	10	Atlantic Concrete
8" Water L.F.	4,443	1234	Atlantic Concrete
6" Water L.F.	267	231	Atlantic States
Fire Hydrants	6	2	Mueller Co. / Below Supply
8" Valve Ea	6	3	Mueller Co. / Below Supply
6" V(Except H.H.)	1	3	Mueller Co. "
1" W.H.C. L.F.	280	106	Howell Mfg. Co. / Below Supply
3/4" W.H.C. L.F.	2,100	737	" " " "
6" SHC L.F.	1,950	837	VAM MANUF. / Below Supply
3" Blow Off	1	1	Mueller Co. "
4" W.	32	42	" " " "
4"x3" REDUCER	1	1	" " " "
4" VALVE	1	1	" " " "



Wastewater Disposal Patuxent  
 Drainage Area: Little Patuxent River  
 Type of Buildings: Single Family  
 No. of SHC: 65  
 No. of W.H.C.: 77  
 No. of Lots: 76

WATER & SEWER CODE  
 County Use  
 Water: J01  
 Sewer: 5882900

# CONTRACT NO. 24-1783-D

## BURLEIGH MANOR

### HOWARD COUNTY, MARYLAND

#### DEPARTMENT OF PUBLIC WORKS

NOTE: THIS SHEET SUPERCEDES SHEET 1 OF 7 DATED 8-22-88 AS APPROVED BY DIRECTOR OF PUBLIC WORKS.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

*James M. Helm* 6/13/89  
 SIGNATURE DATE  
 U.S. SOIL CONSERVATION SERVICE

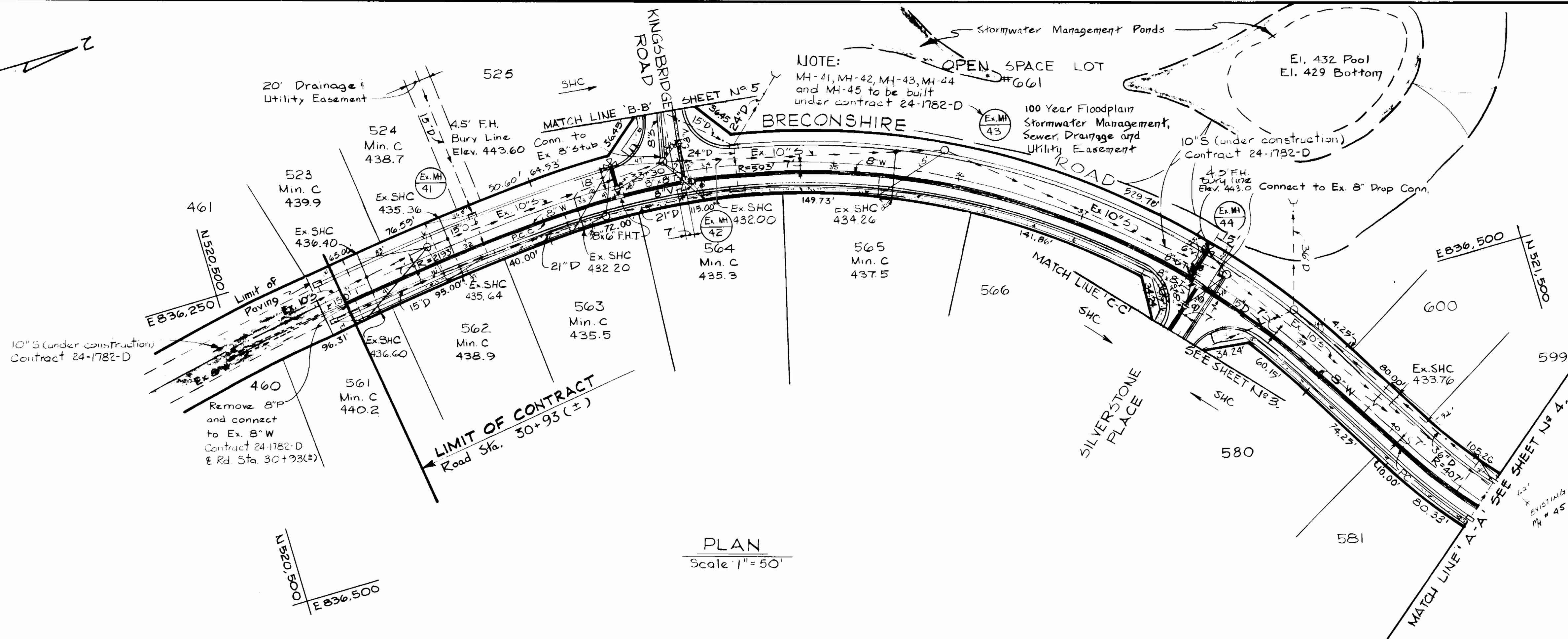
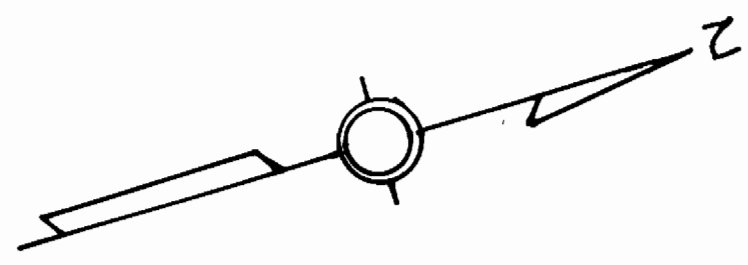
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District

APPROVED

*Stephen L. Fisher* 6/13/89  
 HOWARD S.C.D. DATE

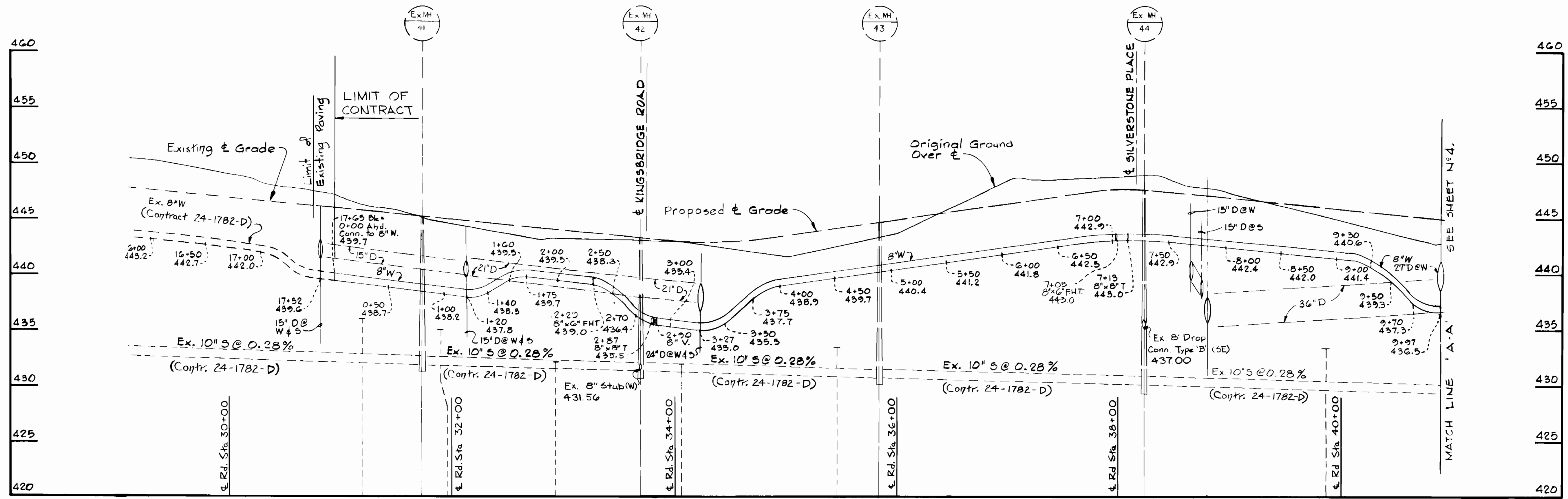
Sediment Control Measures for this Contract will be implemented in accordance with Section 2M of the Standard Specifications and Road Construction Drawings F-59-1844-F-66-240

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS - DATE <i>Robert M. Bevinger</i> 6-9-89 CHIEF - BUREAU OF UTILITIES - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND CHIEF - BUREAU OF ENGINEERS - DATE <i>Robert M. Bevinger</i> 6/14/89 CHIEF - BUREAU OF ENGINEERS - DATE	DES. S.J.G. PRY R.L.R. CHK R.B.N. DATE: 4/25/88	VICINITY MAP AND GENERAL NOTES 600' SCALE MAP NO. 24 BLOCK NO.	BURLEIGH MANOR SECTION 3 AREA 5 LOTS 523-600 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1783-D	SCALE 1"=600' SHEET 1 OF 7
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PLAN  
Scale 1" = 50'

**BENCH MARKS**  
 W.R. & A. B.M. #1 EL. 483.76  
 B Bolt on F.H. 18'± North of E Sta. 10+30± Glastonbury Road  
 W.R. & A. B.M. W-332 EL. 449.16  
 Iron Pipe 140'± West of E Sta. 29+35± Breconshire Rd.



PROFILES  
Scale: H 1" = 50'  
V 1" = 5'

BRECONSHIRE ROAD

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director: *[Signature]* 8-1-88  
 Chief - Bureau of Engineering: *[Signature]* 8-1-88  
 Chief - Bureau of Utilities: *[Signature]* 8-1-88  
 Chief - Land/Development Division: *[Signature]* 8-1-88

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST PAUL ST  
 BALTIMORE, MARYLAND

DES	JWB				
DRN	EBJ				
CHK	RBN				
DATE	4/29/88	BY	NO.	REVISION	DATE

PLAN & PROFILE OF  
 WATER & SEWER MAINS

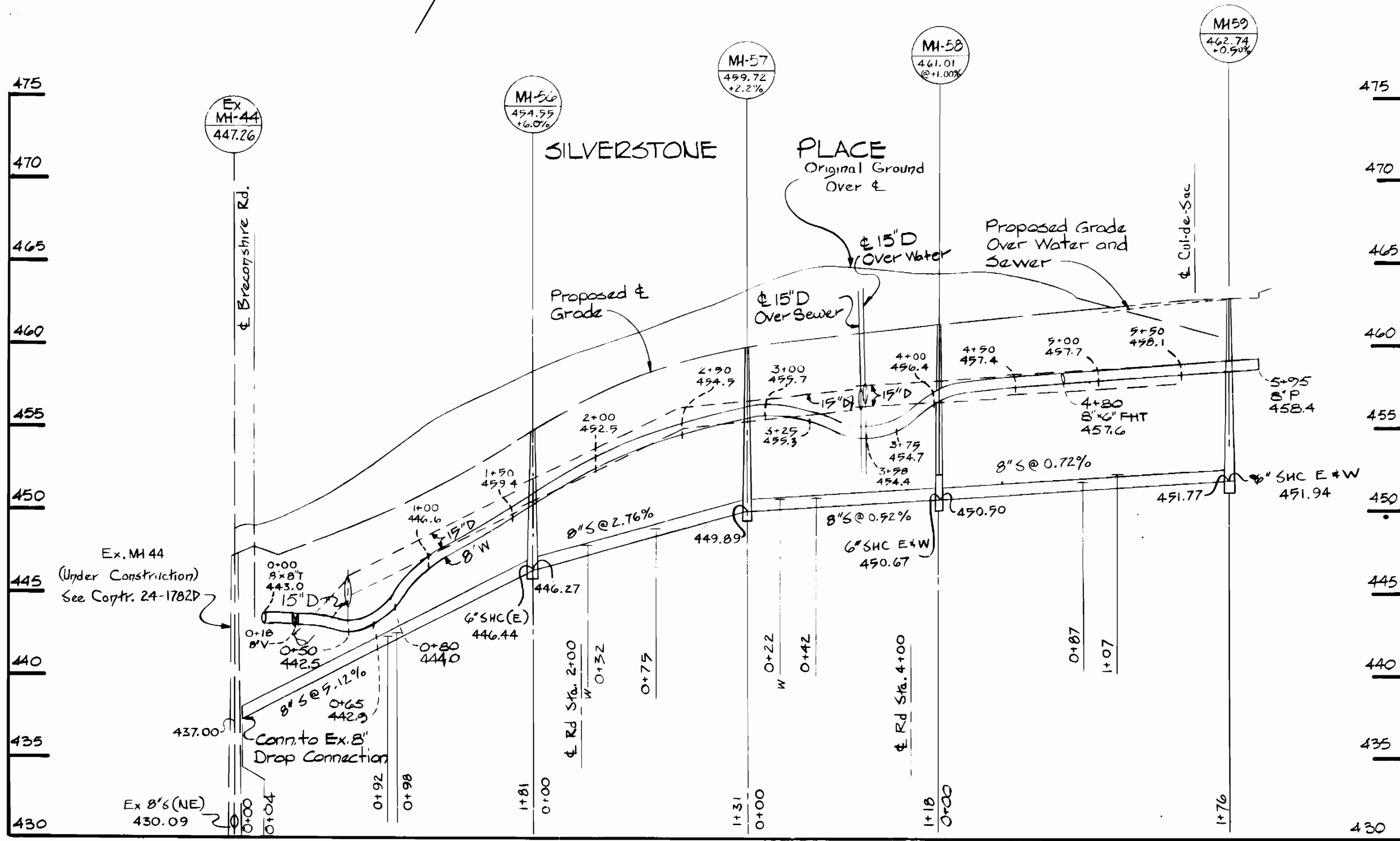
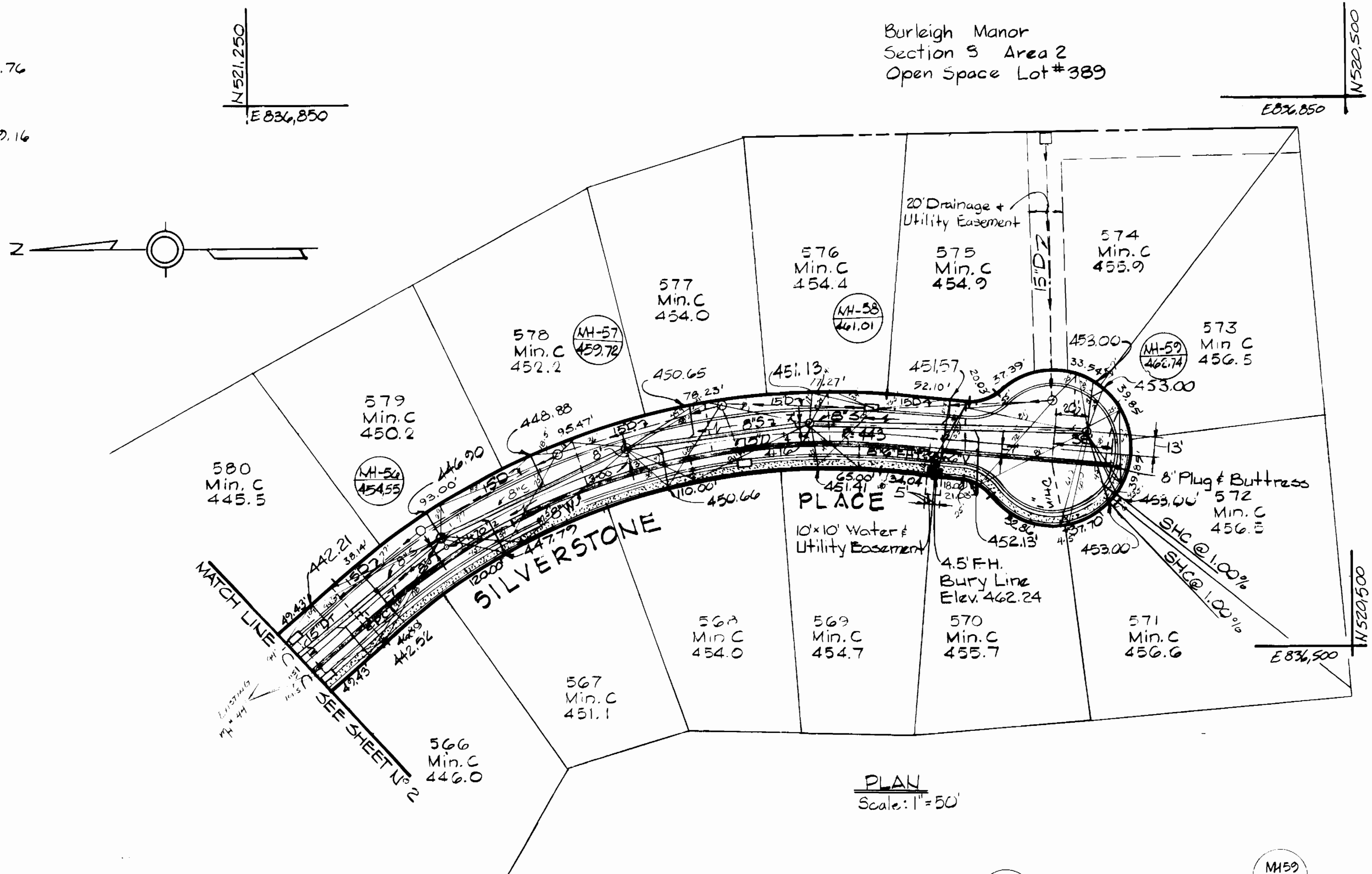
BURLEIGH MANOR  
 SECTION 3 AREA 5  
 LOTS 523-600  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO. 24-1783-D

SCALE  
 AS  
 SHOWN  
 SHEET  
 2 OF 7

**BENCH MARKS**

W.R. & A. B.M. #1 EL. 483.76  
 B. Bolt on F.H. 18' ± North of &  
 Sta. 10+30± Glastonbury Road.  
 W.R. & A. B.M. W-352 EL. 449.16  
 Iron Pipe 140± West of & Sta 29+35±  
 Breconshire Rd.

Burleigh Manor  
 Section 3 Area 2  
 Open Space Lot #389



24, 520-887.5  
 24, 521-837.5

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 James H. Shaw, Director of Public Works  
 Chief - Bureau of Engineering  
 Chief - Bureau of Utilities

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST PAUL ST  
 BALTIMORE, MARYLAND

DRN E.B.J.	
CHK: RBN	
DATE 4/29/88	
BY NO.	REVISION
	DATE

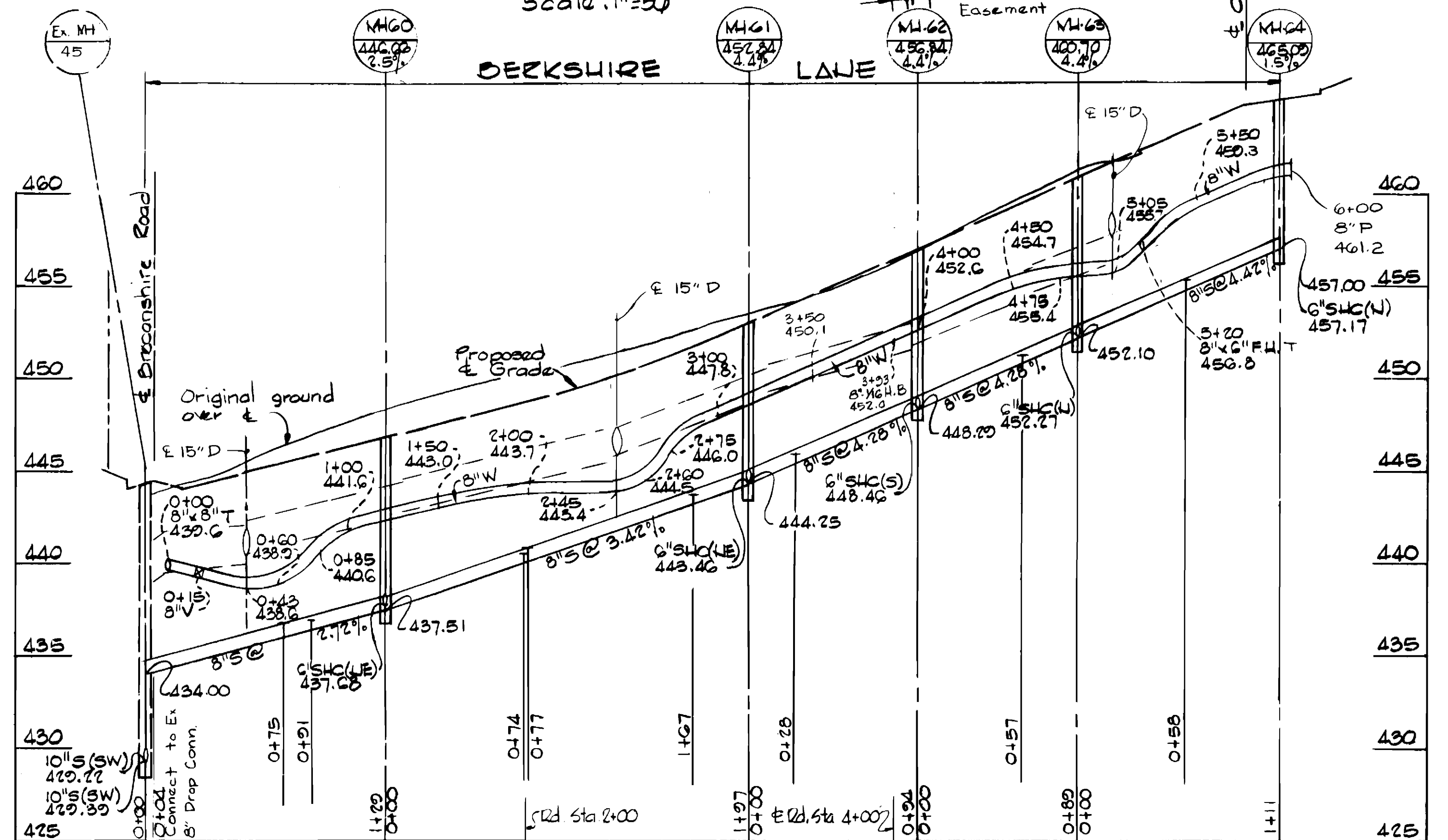
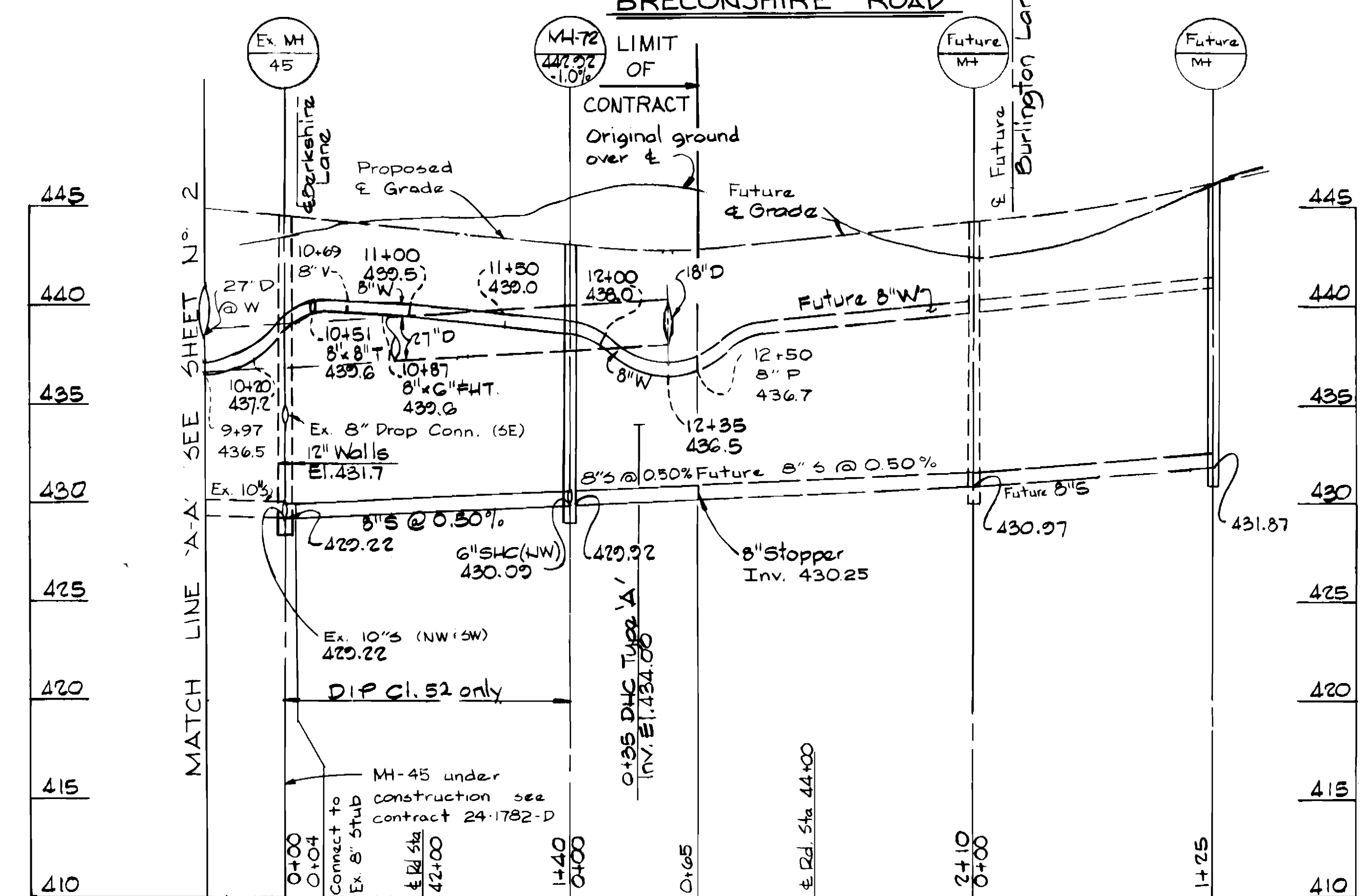
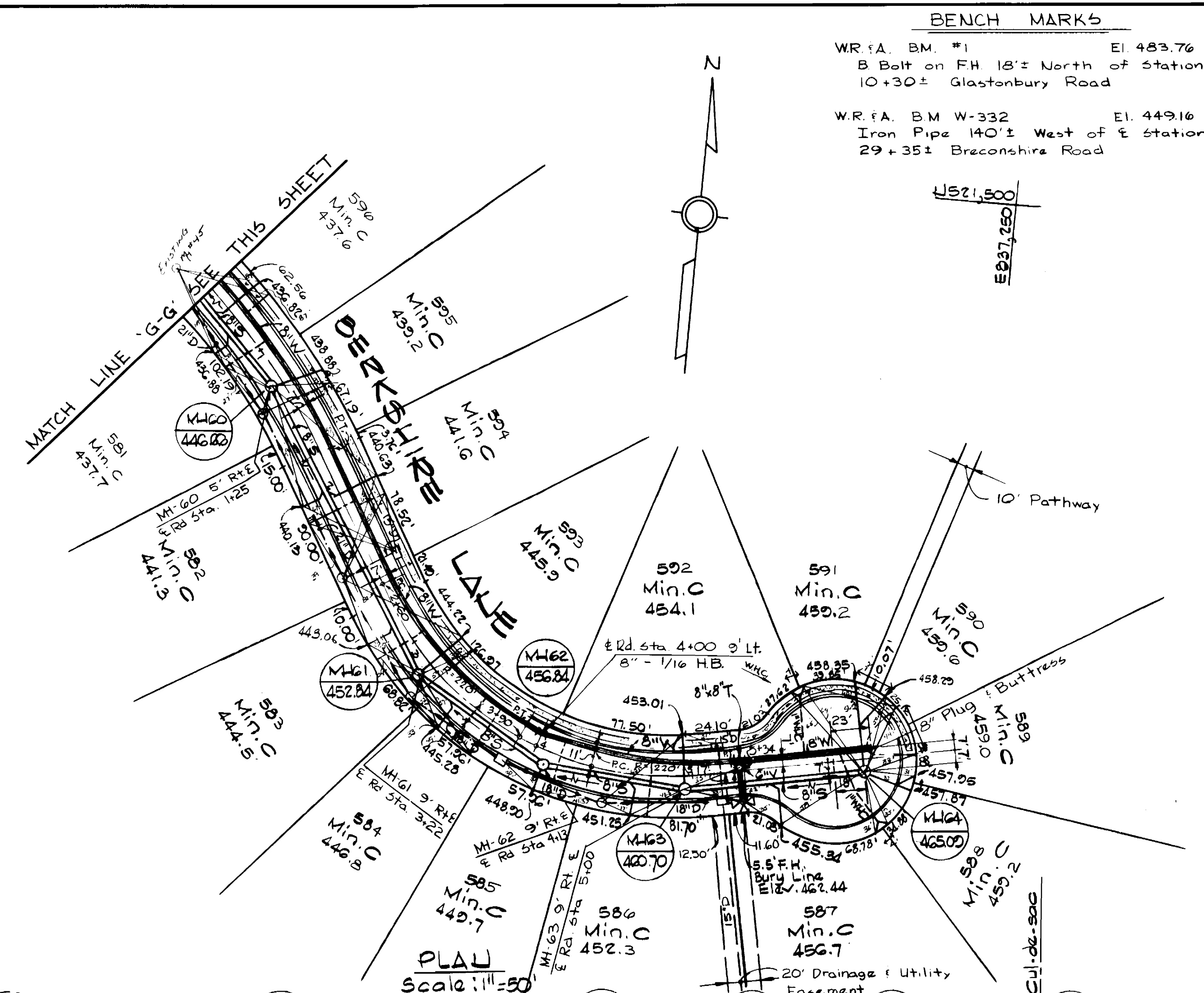
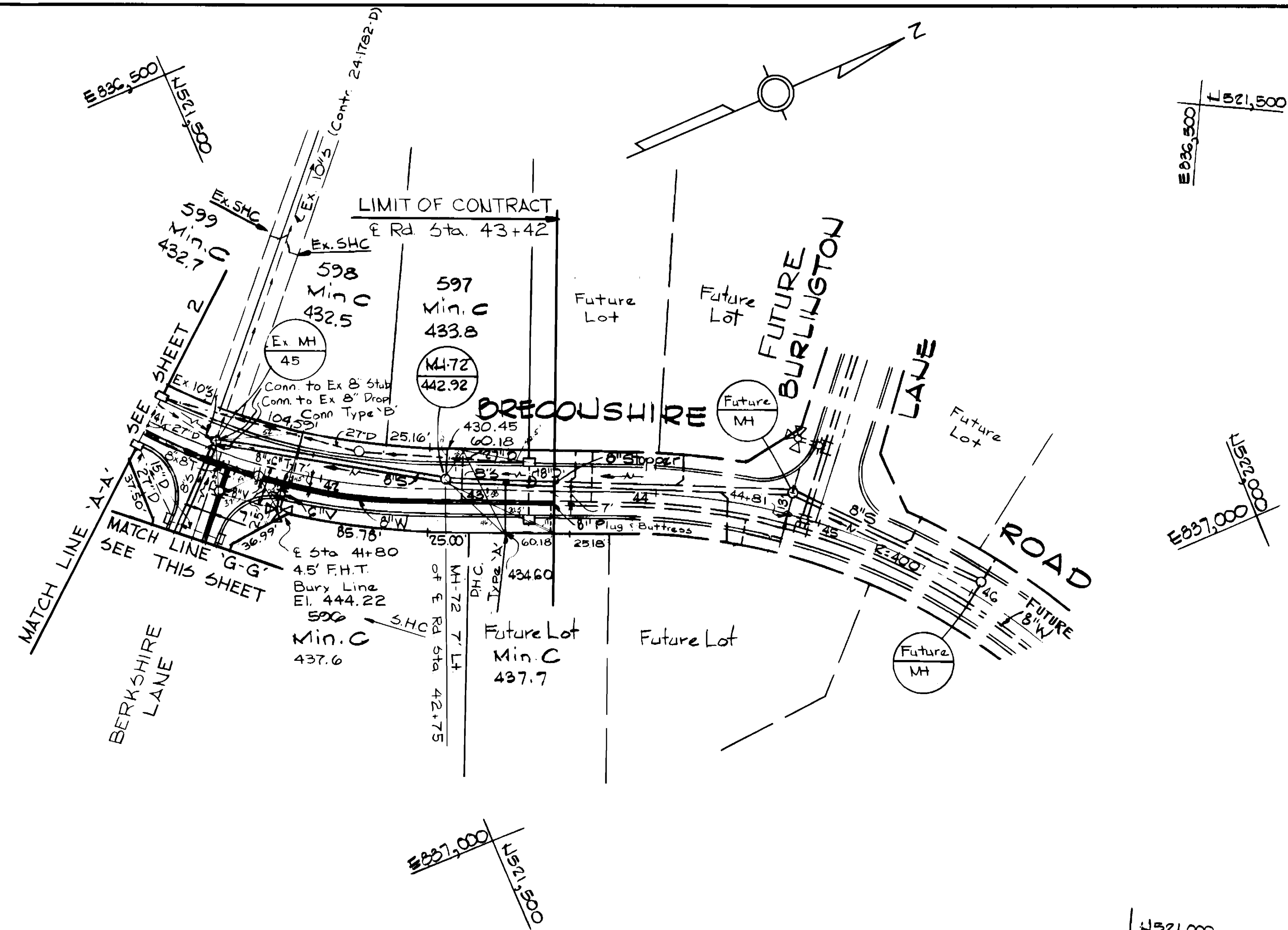
PLAN & PROFILE OF  
 WATER & SEWER MAINS  
 600' SCALE MAP NO. 24 BLOCK NO.

BURLEIGH MANOR  
 SECTION 3 AREA 5  
 LOTS 523-600  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO.24-1783-D

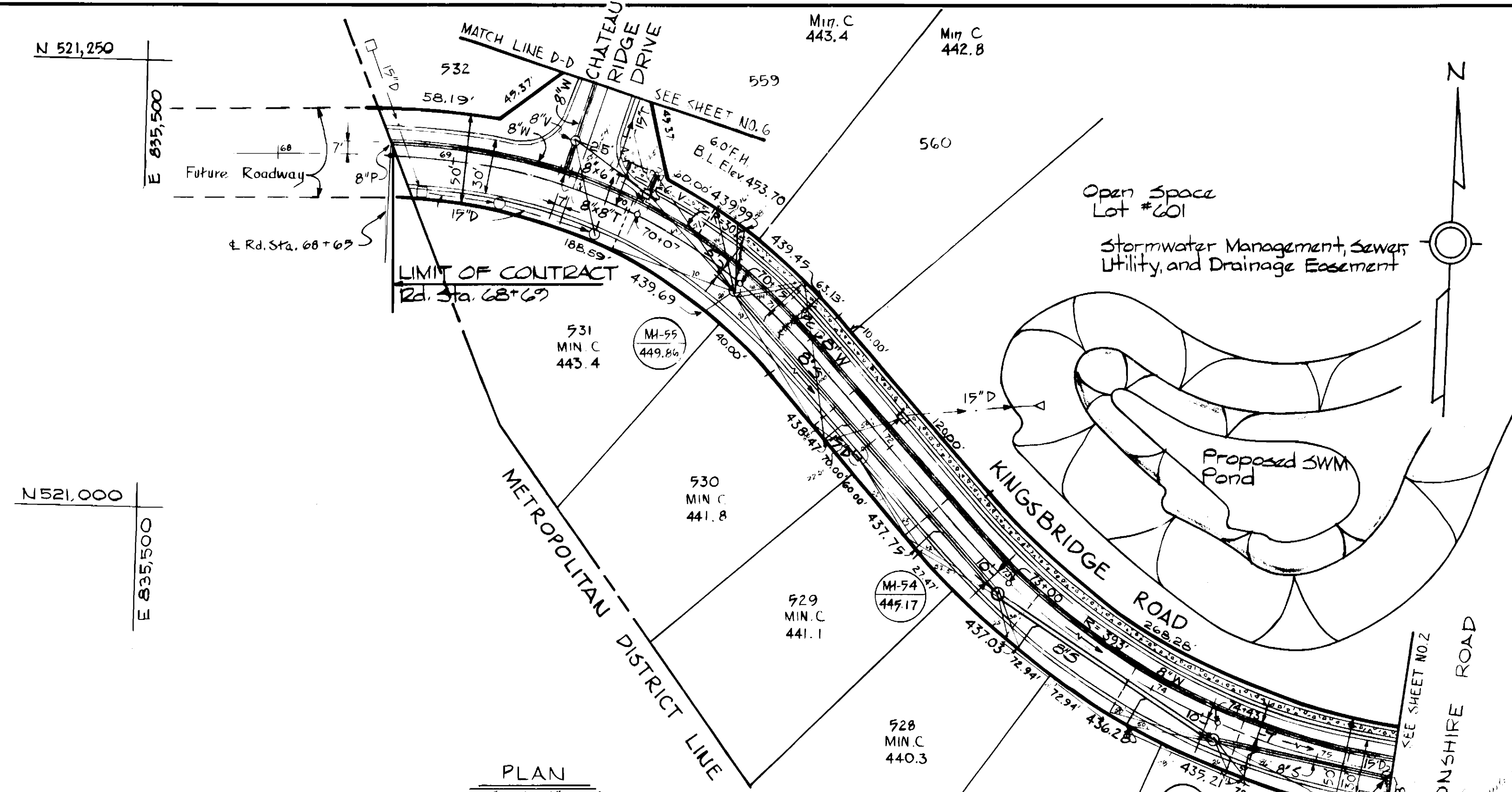
SCALE AS SHOWN  
 SHEET 3 OF 7

BENCH MARKS

W.R.F.A. B.M. #1 El. 483.76  
 B Bolt on FH 18'± North of Station  
 10+30± Glastenbury Road  
 W.R.F.A. B.M. W-332 El. 449.16  
 Iron Pipe 140'± West of E Station  
 29+35± Breconshire Road



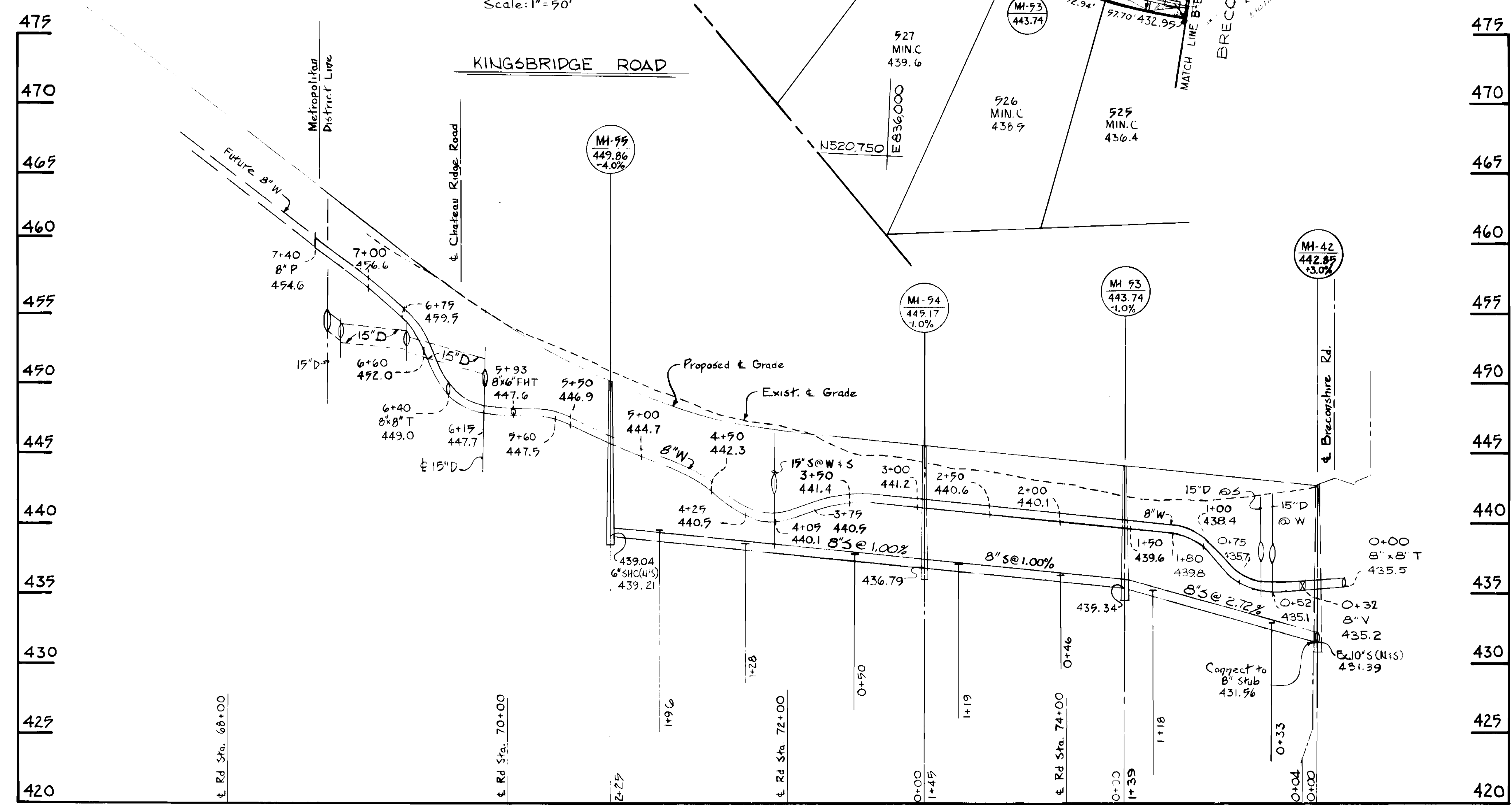
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND		DES: JWB DRN: E.B.J. CHK: R.B.N. DATE: 4/29/88		PLAN & PROFILE OF WATER & SEWER MAINS 600' SCALE MAP NO. 24 BLOCK NO.		BURLEIGH MANOR SECTION 3 AREA 5 LOTS 523 - 600 ELECTION DISTRICT NO.2 CONTRACT NO. 24-1783-D		SCALE AS SHOWN SHEET 4 OF 7
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**BENCH MARKS**

W.R. & A B.M. #1 EL. 483.76  
 D. Bolt on F.H. 18'± North of &  
 Sta. 10+30± Glasstonbury Road

W.R. & A B.M. W-332 EL. 449.16  
 Iron Pipe 140'± West of & Sta. 29+35±  
 Breconshire Rd.



**PROFILE**

Scale: Hor: 1" = 90'  
 Ver: 1" = 5'

23,521-836  
 23,520-836  
 24,520-837.5

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James W. ...*  
 DIRECTOR OF PUBLIC WORKS - DATE

*Robert ...*  
 CHIEF - BUREAU OF UTILITIES - DATE

*Whitman, Requardt and Associates*  
 CHIEF - BUREAU OF ENGINEERING - DATE

*Frank ...*  
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

**WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS**  
 2315 ST PAUL ST.  
 BALTIMORE, MARYLAND

DES: SJG  
 DRN: A.P.C.  
 CHK: RBN  
 DATE: 4/29/88

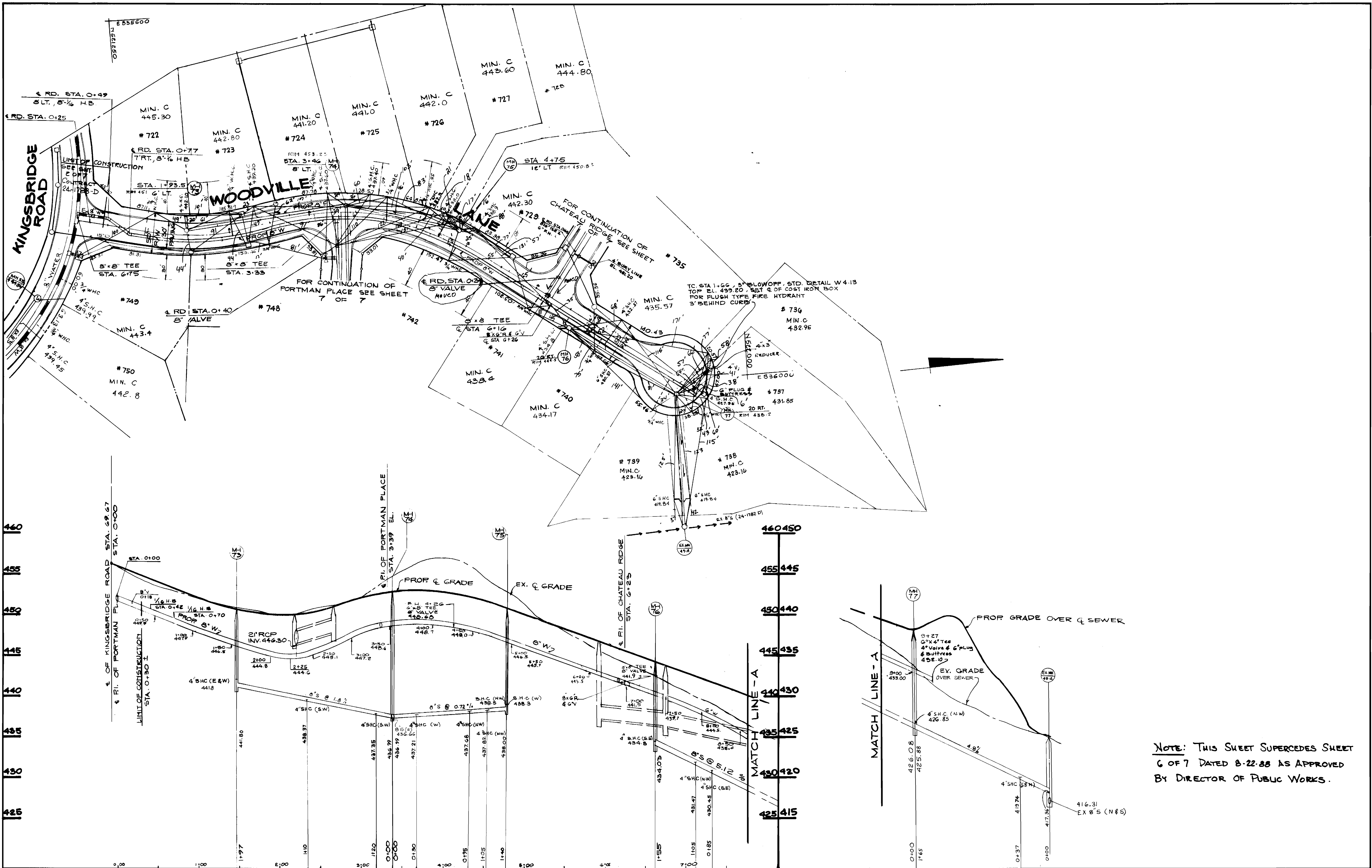
BY NO.	REVISION	DATE

**PLAN & PROFILE OF WATER & SEWER MAINS**

60' SCALE MAP NO. 24 BLOCK NO.

**BURLEIGH MANOR SECTION 3 AREA 5**  
 LOTS 523-600  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO. 24-1783-D

SCALE AS SHOWN  
 SHEET 5 OF 7



NOTE: THIS SHEET SUPERCEDES SHEET  
6 OF 7 DATED 8-22-88 AS APPROVED  
BY DIRECTOR OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James P. [Signature]* 6-9-89  
DIRECTOR OF PUBLIC WORKS - DATE

*William B. [Signature]* 6-14-89  
CHIEF - BUREAU OF ENGINEERING - DATE

*Robert M. [Signature]* 6-9-89  
CHIEF - BUREAU OF UTILITIES - DATE

*[Signature]* 6/14/89  
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS

2315 ST. PAUL ST  
BALTIMORE, MARYLAND

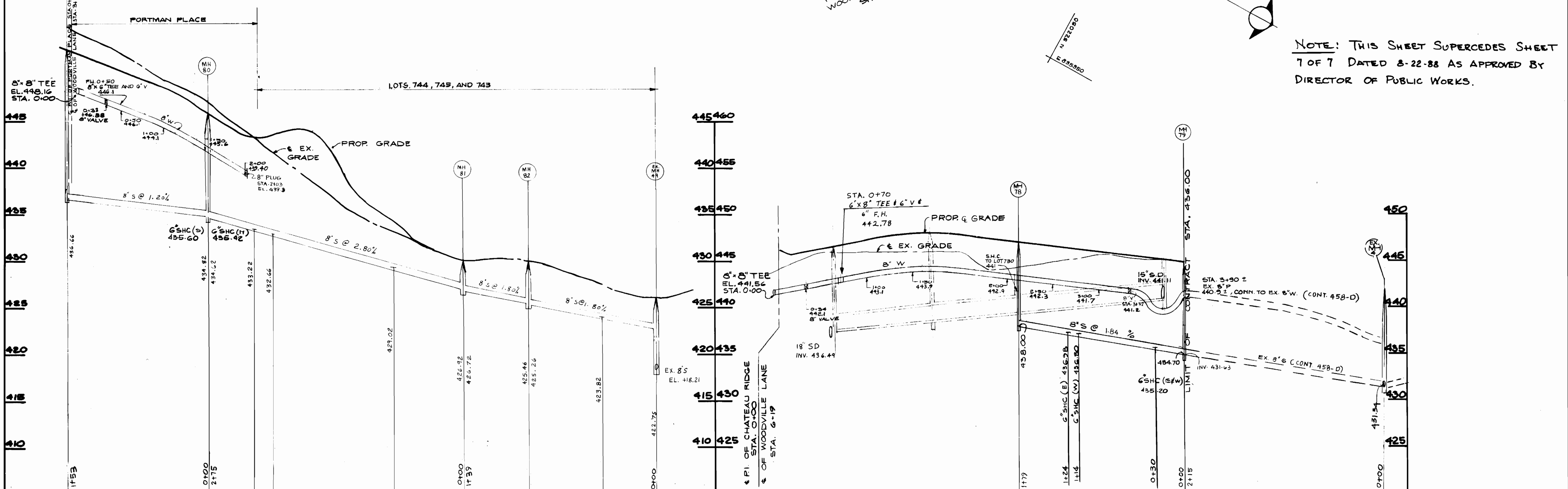
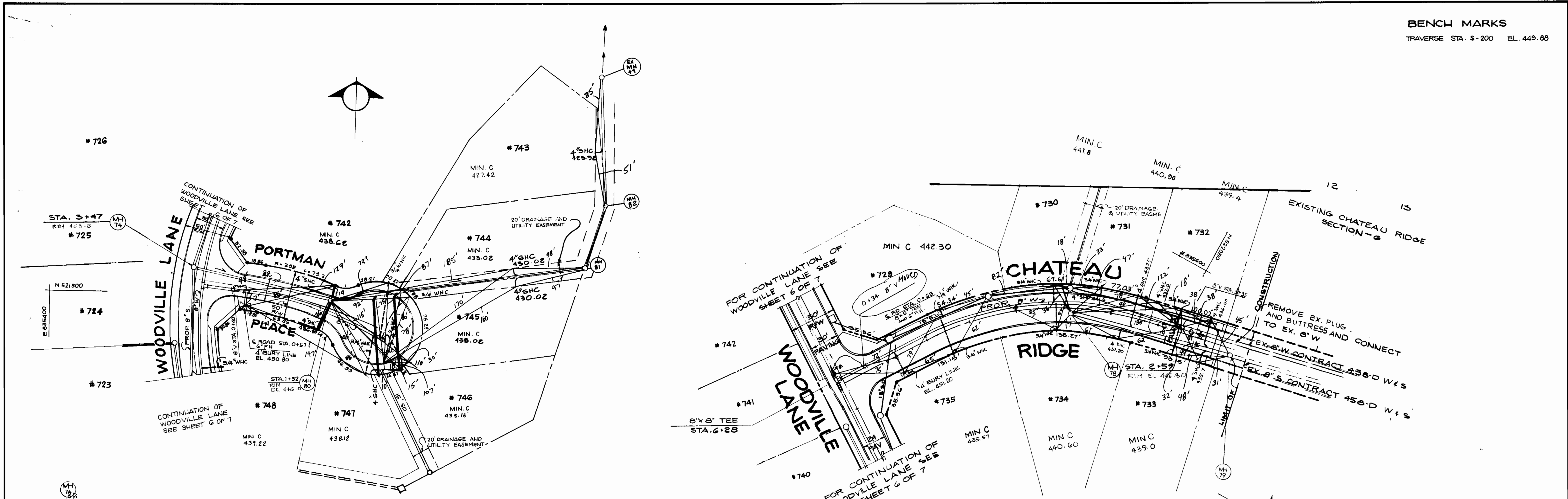
DES. T.R.	
DRN. T.R.	
CHK.	
DATE 12-20-84	BY NO.
REVISION	DATE

PLAN & PROFILE OF  
WATER & SEWER MAINS

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

**BURLEIGH MANOR**  
LOTS 723 TO 748  
SECTION 3 AREA 5  
ELECTION DISTRICT NO. 2  
CONTRACT NO. 24-1783 -D

SCALE AS SHOWN  
SHEET 6 OF 7



NOTE: THIS SHEET SUPERCEDES SHEET 7 OF 7 DATED 8-22-88 AS APPROVED BY DIRECTOR OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND James J. ... 6/16/89 DIRECTOR OF PUBLIC WORKS - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND ... 6/14/89 CHIEF - BUREAU OF ENGINEERING - DATE		DES. T. R. DRN. T. R. CHK. DATE 12-20-88		PLAN & PROFILE OF WATER & SEWER MAINS BURLEIGH MANOR LOTS 723 TO 748 SECTION 3 AREA 5 ELECTION DISTRICT NO. ... CONTRACT NO. 24-1783-D		SCALE AS SHOWN SHEET 7 OF 7
				DATE 12-20-88		600' SCALE MAP NO. ... BLOCK NO. ...		

AS-BUILT 2/28/90