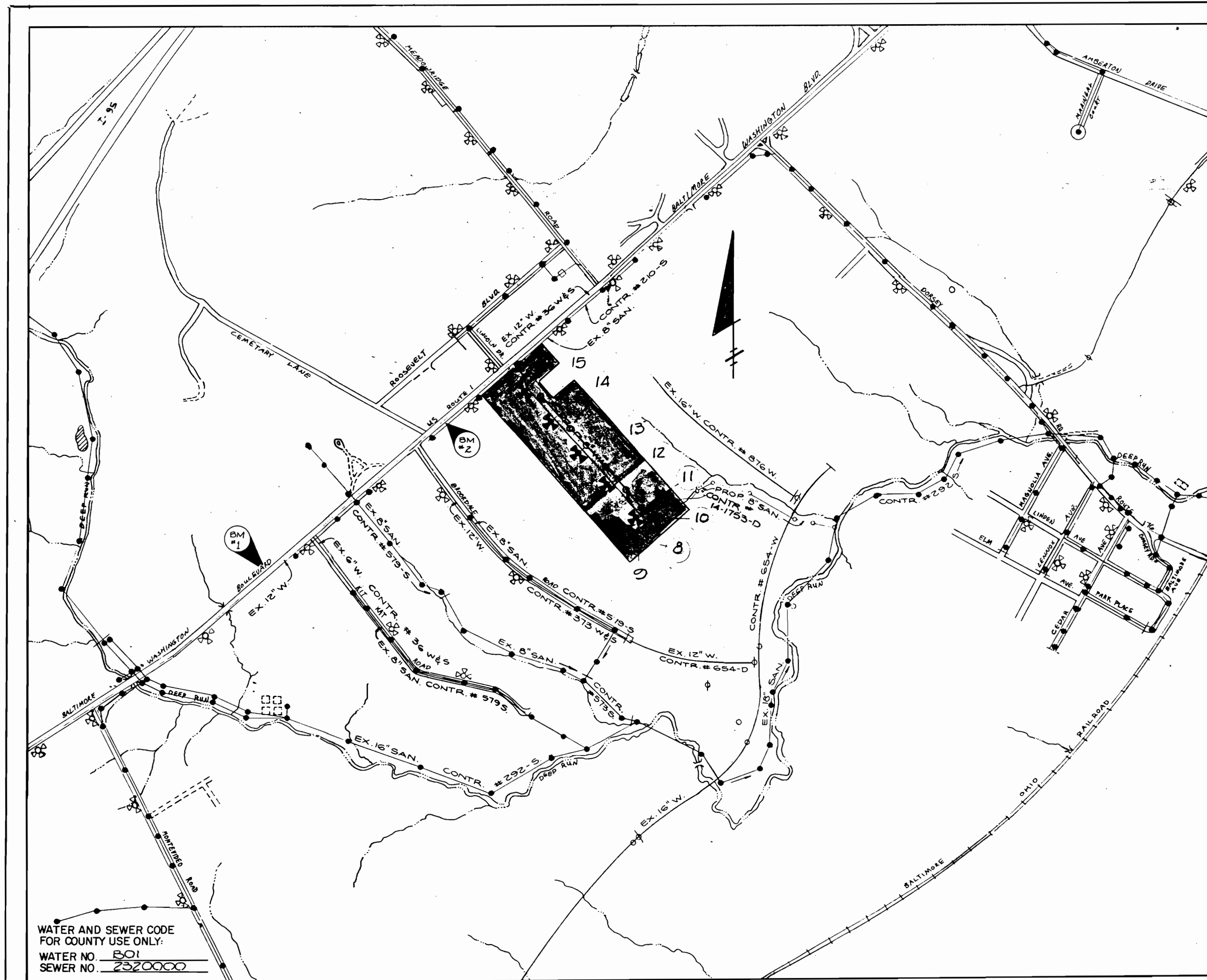


QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
8" WATER	1513 L.F.		
6" WATER	75 L.F.		
6" W.H.C.	110 L.F.		
FIRE HYDRANTS	5		
8" SEWER	1232 L.F.		
8" SEWER (D.I.P.)	—		
MANHOLES			
6"			
8" VALVES	3		
6" VALVES	11		
6" F.H. VALVES	5		



WATER AND SEWER CODE FOR COUNTY USE ONLY.  
 WATER NO. 501  
 SEWER NO. 2320000

VICINITY MAP  
 SCALE: 1" = 600'

BENCH MARK #1 = COUNTY #2345006 ELEV. = 210.611  
 CONC. MON. FLUSH IN ISLAND 51.3' WEST OF & ENTRANCE ISLAND TO LUSHINGS (0.6 MILES SOUTHWEST OF MEADOW RIDGE ROAD 37' LEFT OF & ROUTE 1)  
 N 48° 05' 47" E 804.447.106  
 BENCH MARK #2 = COUNTY #2345002 ELEV. = 209.665  
 CONC. MON. FLUSH IN ISLAND IN FRONT OF "EPES" 46.5' NORTHEAST OF C&P POLE #100 AND 80.6' SOUTHWEST OF G & E POLE #334778 N 470,905.937 E 809,797.940

# CONTRACT NO. 14-1753-D

# BALTIMORE-WASHINGTON

# COMMERCE PARK

## WATER AND SEWER MAIN EXTENSIONS

## HOWARD COUNTY, MARYLAND

## DEPARTMENT OF PUBLIC WORKS

### 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". 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 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 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 AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE 685-0123
  - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE 685-0123
  - ENGINEERING - "DAMAGE CONTROL" 234-5611
  - "MISS UTILITY" 1-559-0100
  - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY 725-9976
  - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION 393-3533
  - COLONIAL PIPELINE COMPANY 795-1390
  - 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 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 OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE
- ALL WATER MAINS TO BE D.I.P. CLASS 52 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.
- ALL BURKY 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 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., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR PVC UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- 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 CAN NOT BE SERVED.
- ALL DIP FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THRU 12-INCH FOR WATER AND OTHER LIQUIDS.
- ALL S.H.C.'S ARE TO BE LAID AT 2% SLOPE.
- ALL CONSTRUCTION IS TO BE DONE AS PER THIS PLAN AND HOWARD COUNTY DESIGN MANUAL VOL. IV.
- A 20' WIDE EASEMENT CONCENTRIC ABOUT THE 8" PUBLIC WATER LINE LOCATED IN THE PRIVATE DRIVE, SHALL BE PROVIDED.
- ALL WATER METERS SHALL BE 1" AND SHALL BE LOCATED INSIDE EACH BUILDING. EACH METER SHALL HAVE AN OUTSIDE REMOTE READOUT.
- INSIDE DETECTOR CHECKS SHALL BE PROVIDED FOR THE SPRINKLER SYSTEM FOR EACH BUILDING.
- PUBLIC WHC LIMIT SHALL BE AT THE PUBLIC EASEMENT LINE.
- ALL 6 INCH WHC SHALL BE PER STD. DETAIL W. 3-24 WITH 6 INCH VALVE WITHIN THE EASEMENT.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 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 9DP-86-205

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

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Atkin* 3-29-89  
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED:  
*Robert W. Ziehm* 3-29-89  
 HOWARD SOIL CONSERVATION DISTRICT DATE



FOR REVISION Δ ONLY.

CONTRACT NO. 14-1753-D  
 BALTIMORE-WASHINGTON COMMERCE PARK  
 WATER AND SEWER MAIN EXTENSION  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James M. Atkin* 3/30/89  
 DIRECTOR OF PUBLIC WORKS DATE

*Robert W. Ziehm* 3/30/89  
 CHIEF, BUREAU OF ENGINEERING DATE

*Richard M. ...* 3/30/89  
 CHIEF, BUREAU OF UTILITIES DATE

*...* 3/30/89  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

DEWBERRY & DAVIS  
 ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

3300 N. RIDGE ROAD  
 SUITE 100  
 ELLICOTT CITY, MD. 21043  
 (301) 461-7478



DES: ORR.	DR: 1	ADD SIZES & CONTR. #S TO VICINITY MAP	4/10/88
	2	ADD NOTE 21, DELETE NOTE 20, REV. NOTE 13	4/10/88
DRN: KAF WDS	3	INCORPORATE SITE PLAN REVISIONS	10-4-89
CHK: BDB	E.S. Δ	CONVERT PRIVATE SEWER TO PUBLIC	4/13/97
DATE: 2-26-88	BY NO.	REVISION	DATE

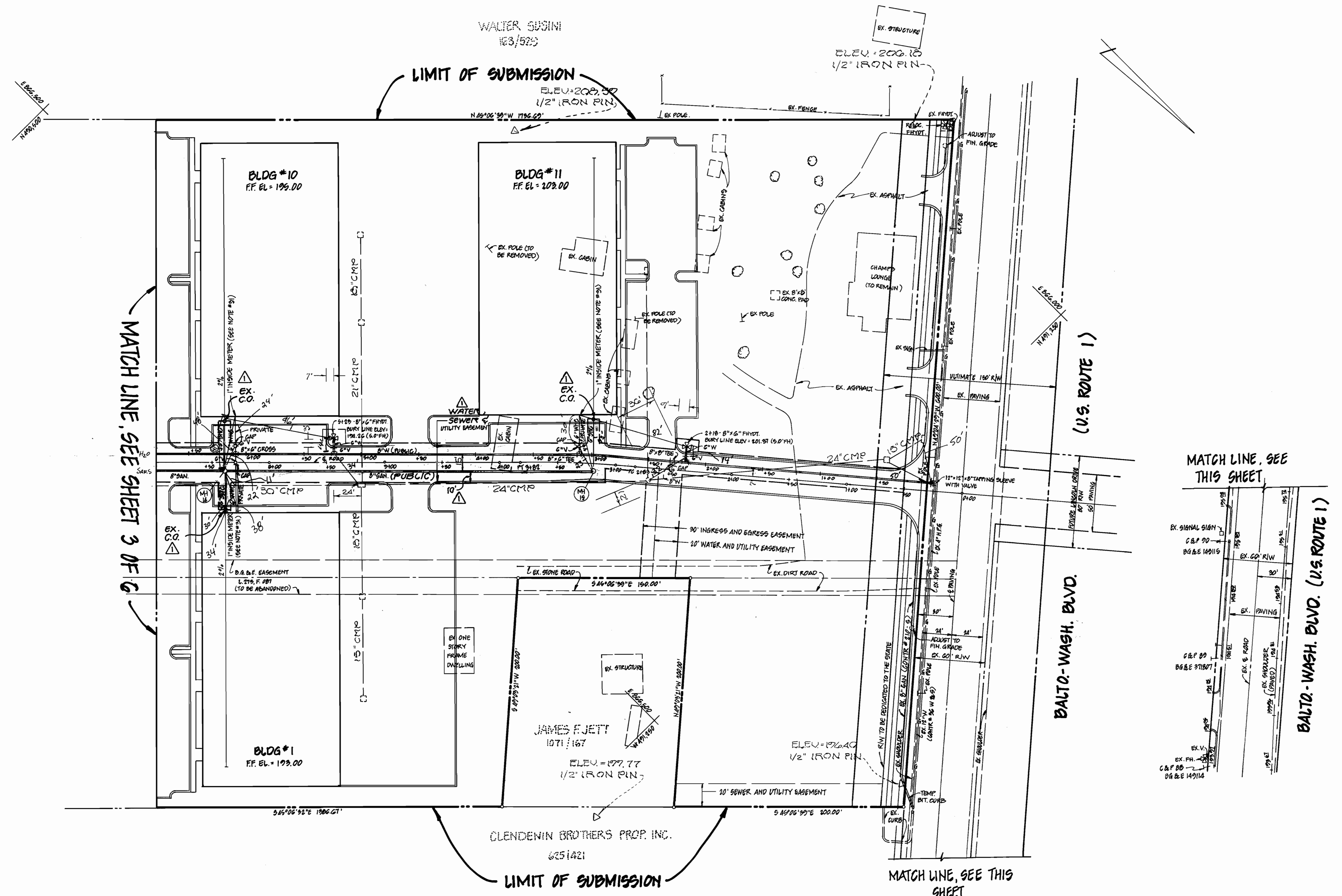
TITLE SHEET

600 SCALE MAP NO. 43 BLOCK NO. 5

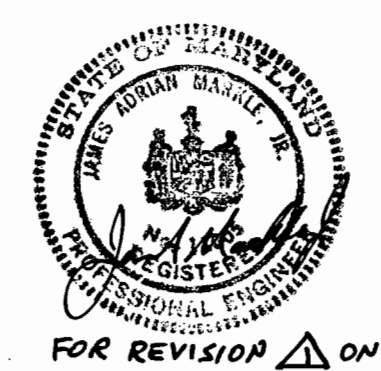
BALTIMORE-WASHINGTON COMMERCE PARK, U.S. ROUTE 1  
 TAX MAP: 43 BLOCK: 5 PARCEL: 62  
 1<sup>ST</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 14-1753-D FILE # V6002-EC

SCALE AS SHOWN  
 SHEET 1 OF 6





SCALE: 1" = 50'



FOR REVISION  $\Delta$  ONLY.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James E. Davis* 3/30/89  
DIRECTOR OF PUBLIC WORKS DATE

*Richard M. Berry* 3-22-89  
CHIEF, BUREAU OF UTILITIES DATE

DEWBERRY & DAVIS  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

3300 N. RIDGE ROAD  
SUITE 100  
ELLCOTT CITY, MD. 21043  
(301) 461-7478



DES:	E.S. $\Delta$ CONVERT PRIVATE SEWER TO PUBLIC 01/3/87
DRN:	
CHK:	
DATE:	
BY:	
NO.:	
REVISION:	
DATE:	

PLAN VIEW  
WATER AND SEWER MAINS

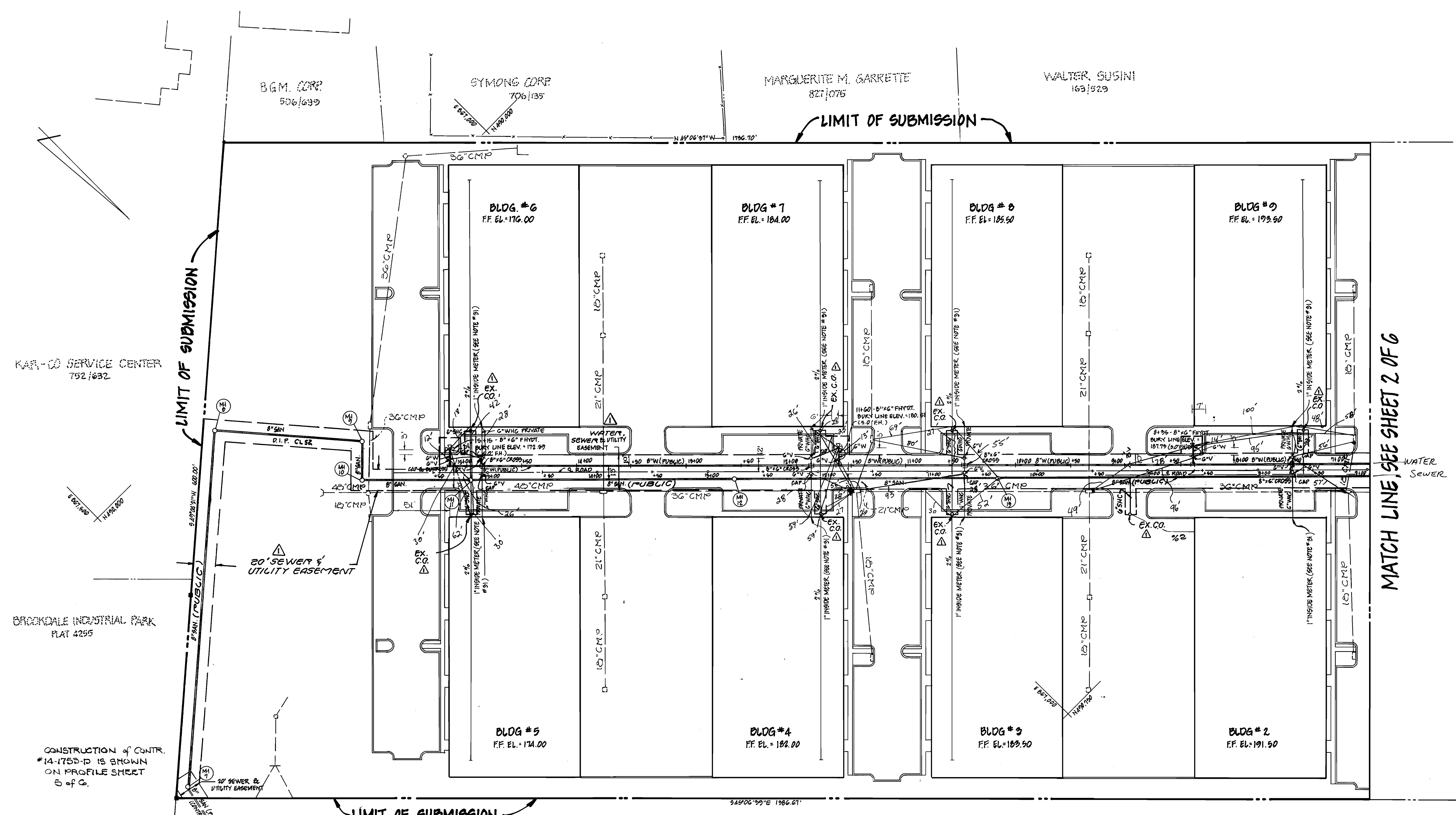
600' SCALE MAP NO. 49 BLOCK NO. 5

AS-BUILT 12/27/89

WATER AND SEWER PLAN  
BALTIMORE-WASHINGTON COMMERCE PARK,  
U.S. ROUTE 1  
TAX MAP: 43 BLOCK: 5 PARCEL: 62  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 14-1753-D

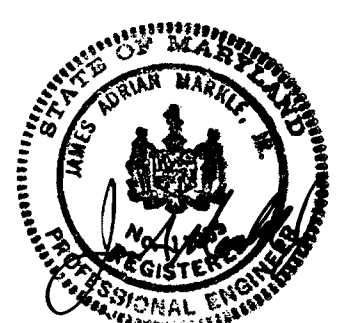
SCALE AS SHOWN  
SHEET 2 OF 6

BRUNING 44 132 89 150



CLENDENIN BROTHERS PROP. INC.  
#251421

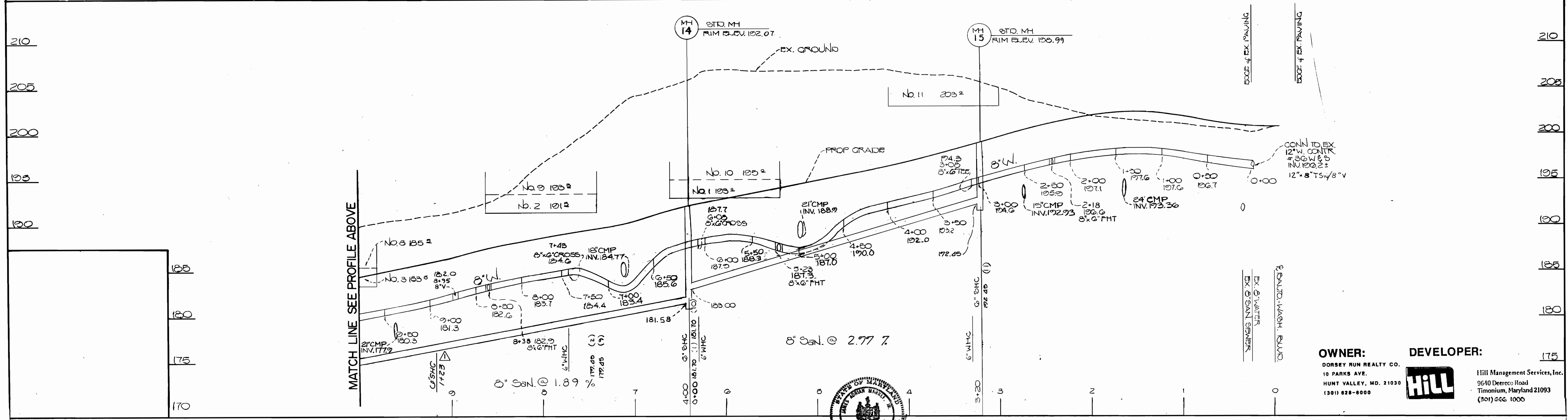
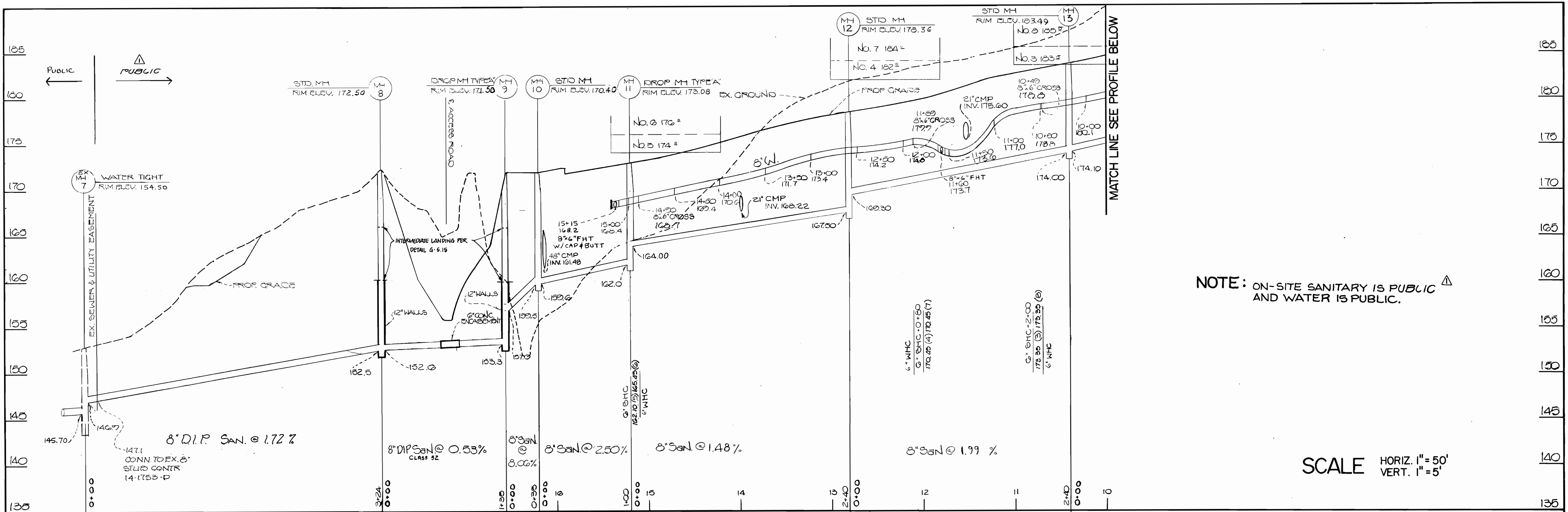
PLAN  
SCALE: 1"=60'



FOR REVISION  $\Delta$  ONLY.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: James P. ... 3/20/89 Chief, Bureau of Utilities: Robert ... 3-22-89	DEWBERRY & DAVIS ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS 3300 N. RIDGE ROAD SUITE 100 ELLICOTT CITY, MD. 21043 (301) 461-7478		DES: E.S. $\Delta$ CONVERT PRIVATE SEWER TO PUBLIC 01/30/89	PLAN VIEW WATER AND SEWER MAINS	WATER AND SEWER PLAN BALTIMORE - WASHINGTON COMMERCE PARK, U.S. ROUTE 1 TAX MAP: 43 BLOCK: 5, PARCEL: 62 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-1753-D	SCALE AS SHOWN
			DATE: BY NO. REVISION DATE 600' SCALE MAP NO. 49 BLOCK NO. 5			SHEET 3 OF 6

AS-BUILT 12/27/89



**OWNER:**  
DORSEY RUN REALTY CO.  
10 PARKS AVE.  
HUNT VALLEY, MD. 21030  
(301) 628-8000

**DEVELOPER:**  
**HILL**  
Hill Management Services, Inc.  
9640 Deereco Road  
Timonium, Maryland 21093  
(301) 566-1000



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

Robert M. Reinger 3/22/89  
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Reinger 3/22/89  
CHIEF, BUREAU OF UTILITIES DATE

**DEWBERRY & DAVIS**  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

3300 N. RIDGE ROAD  
SUITE 100  
ELLICOTT CITY, MD. 21043  
(301) 461-7478



DES:	WEO	REVISIONS AS PER RED LINE COMMENTS TO HOWARD CO.	DATE
	ES.	CHANGE PRIVATE SEWER TO PUBLIC	0/3/97
DRN:			
CHK:			
DATE:	BY	NO.	REVISION

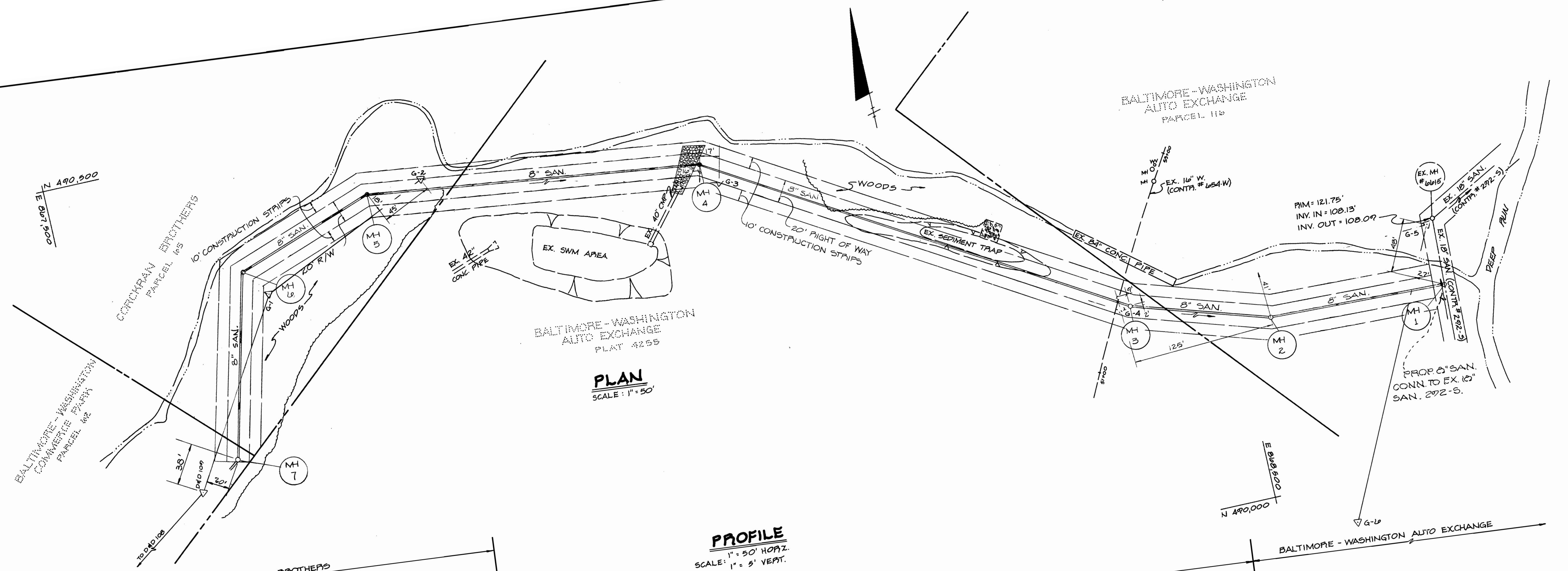
**PROFILES**  
WATER AND SEWER MAINS

600' SCALE MAP NO. 43 BLOCK NO. 5

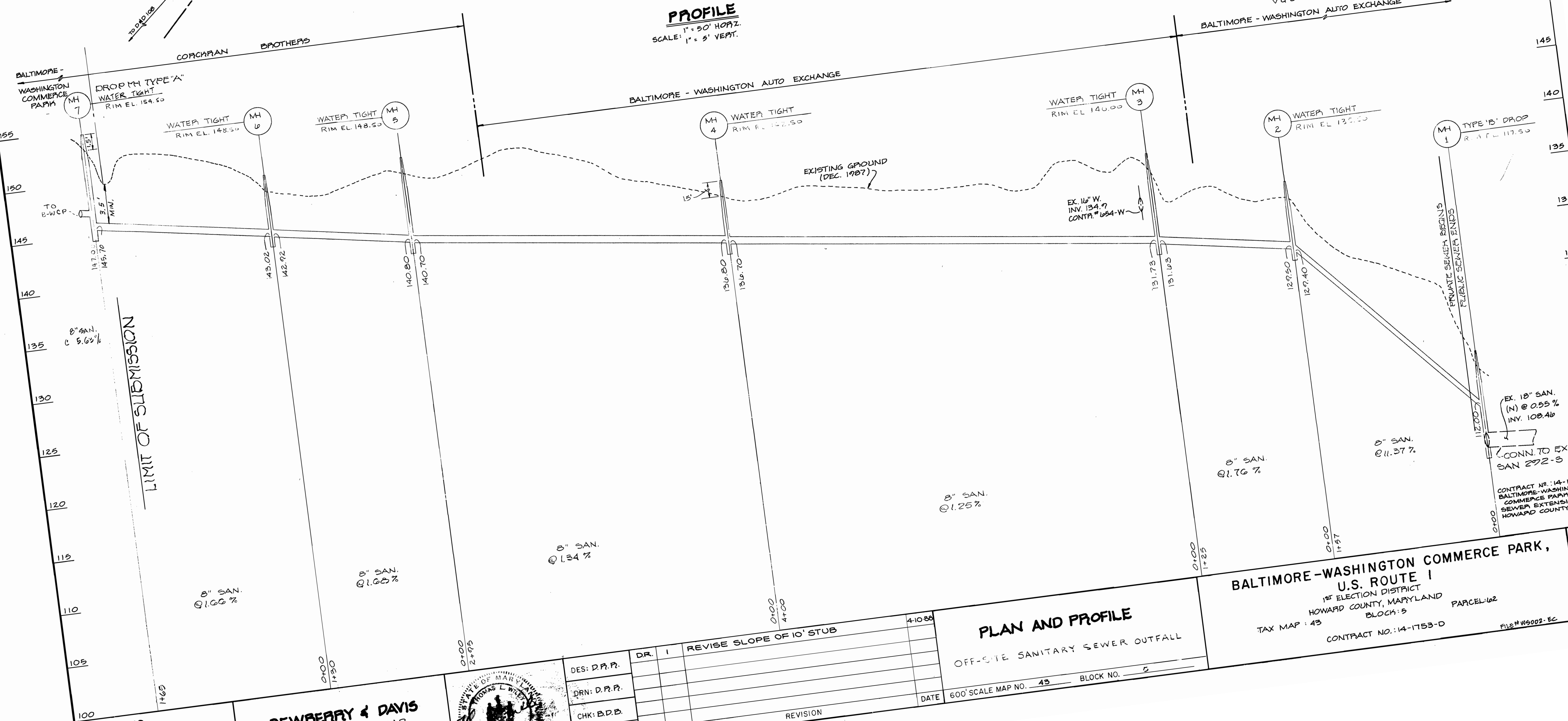
**WATER & SEWER PROFILES**  
BALTIMORE WASHINGTON COMMERCE PARK,  
U.S. ROUTE 1  
1ST ELECTION DISTRICT HOWARD COUNTY, MD.  
TAX MAP 43 PARCEL 62  
SCALE: AS SHOWN SHEET 4 OF 6  
DATE: REV. 9/88

SCALE AS SHOWN  
SHEET 4 OF 6





**PLAN**  
SCALE: 1" = 50'



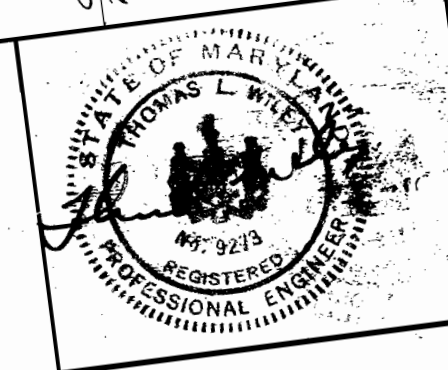
**PROFILE**  
SCALE: 1" = 50' HORIZ.  
1" = 5' VERT.

**PLAN AND PROFILE**  
OFF-SITE SANITARY SEWER OUTFALL

**BALTIMORE-WASHINGTON COMMERCE PARK,**  
U.S. ROUTE 1  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
PARCEL 62  
TAX MAP: 43  
CONTRACT NO.: 14-1753-D

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DATE: 3-30-88

**DEWBERRY & DAVIS**  
3300 NORTH RIDGE ROAD  
ELLCOTT CITY, MARYLAND  
(301) 461-7478

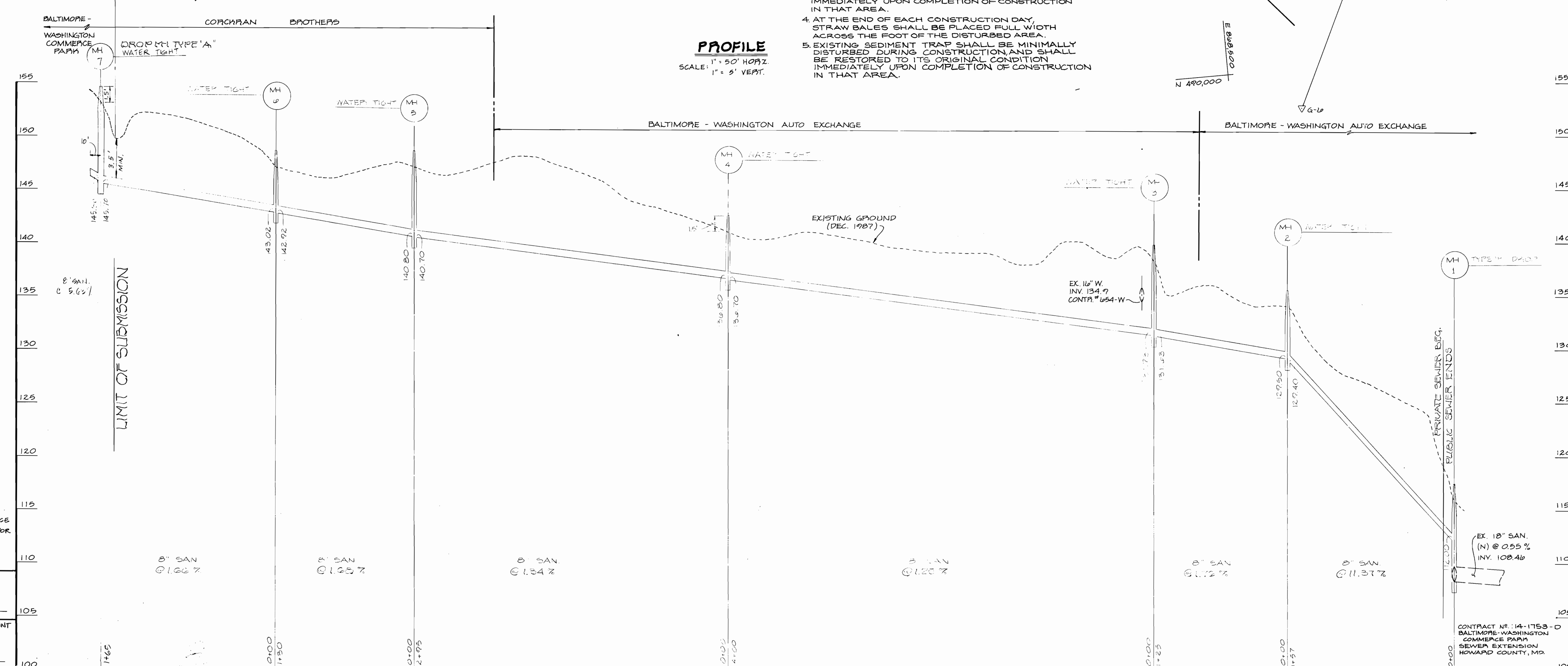
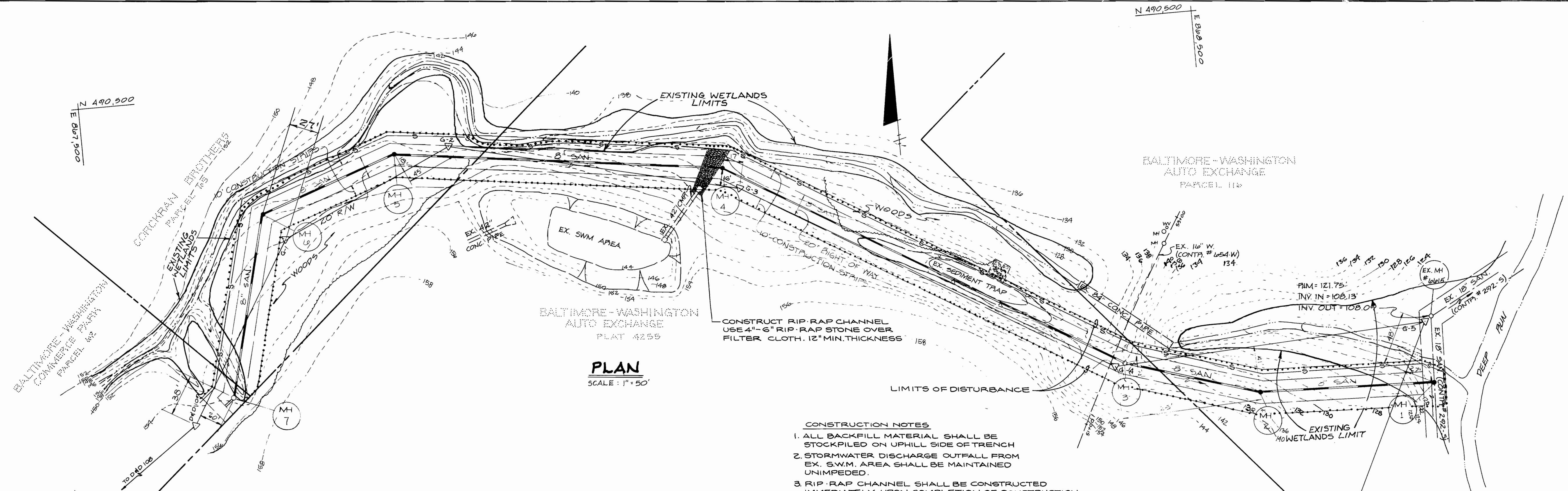


DES: D.P.P.	DR: I	REVISE SLOPE OF 10' STUB	4-10-88
DRN: D.P.P.			
CHK: B.D.B.			
DATE: 2-26-88	BY: NO.		
REVISION			

DATE: 600' SCALE MAP NO. 43 BLOCK NO. 5

CONTRACT NO.: 14-1753-D  
BALTIMORE-WASHINGTON COMMERCE PARK SEWER EXTENSION HOWARD COUNTY, MD

FILE # W9002-8C



SEDIMENT CONTROL MEASURE WILL BE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY CODE FOR SEDIMENT CONTROL, AND AS SHOWN ON THIS PLAN.

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

U.S. SOIL CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

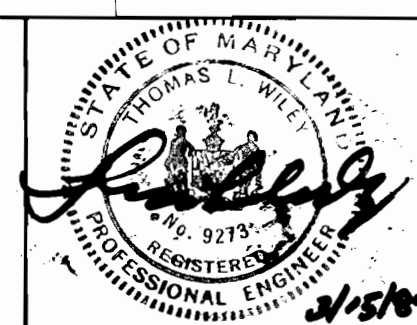
*James P. Lewis* 3/30/89  
DIRECTOR OF PUBLIC WORKS DATE

*Robert W. Reimer* 3-22-89  
CHIEF, BUREAU OF UTILITIES DATE

*William S. Davis* 3-30-89  
CHIEF, BUREAU OF ENGINEERING DATE

*Paul M. Ryan* 3/23/89  
CHIEF, LAND DEVELOPMENT DIVISION DATE

**DEWBERRY & DAVIS**  
3300 NORTH RIDGE ROAD  
ELLICOTT CITY, MARYLAND  
(301) 461-7478



DES: D.P.P.	DR. 1	REVISE SLOPE OF 10' STUB	4-10-88
DRN: D.P.P.	MS/WG 2	ADD CONTOURS, WETLANDS, & SED. CONTROL	6-88
CHK: B.D.B.			
DATE: 2-26-88	BY NO.	REVISION	DATE

SEDIMENT CONTROL PLAN  
OFF-SITE SANITARY SEWER OUTFALL

600' SCALE MAP NO. 43 BLOCK NO. 5

**BALTIMORE WASHINGTON COMMERCE PARK, U.S. ROUTE 1**  
18<sup>TH</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TAX MAP: 43 BLOCK: 5 PARCEL: 62  
CONTRACT NO.: 14-1753-0

SCALE AS SHOWN  
SHEET 6 OF 6