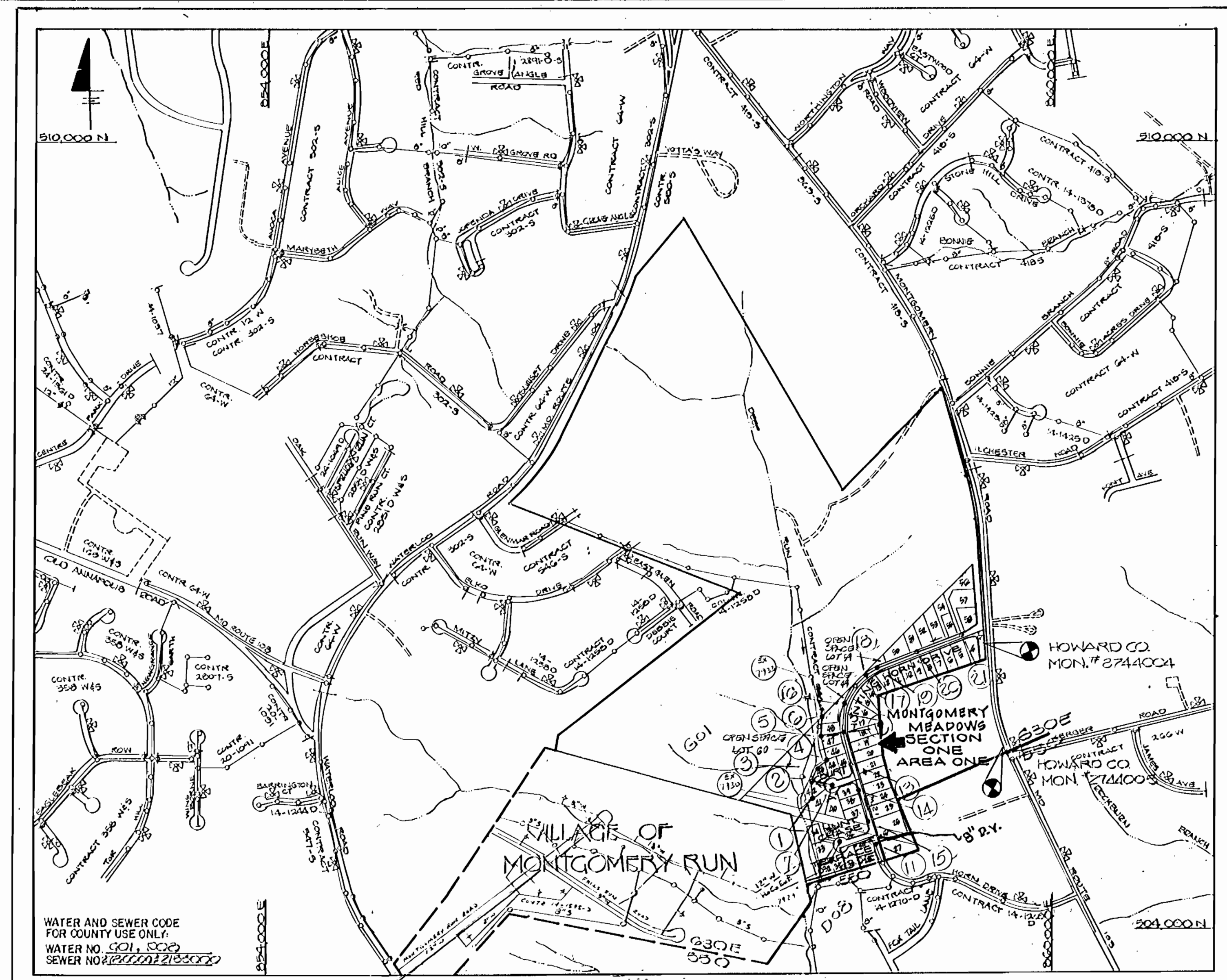


**GENERAL NOTES**

- 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.
- BURYLENE ELEVATIONS ON ALL 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 10.00 AND 03.19 OF THE STANDARD SPECIFICATIONS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED.
- 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 WITHIN 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.
- ALL SEWER HOUSE CONNECTIONS ARE AT 2% SLOPE.
- 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 CONSTRUCTION TO BE DONE AS PER THIS PLAN AND HOWARD COUNTY DESIGN MANUAL VOL. IV.

QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
12" WATER	3102 L.F.	3127 L.F.	ATLANTIC STATES CAST IRON PIPE
6" WATER	305 L.F.	219 L.F.	ATLANTIC STATES CAST IRON PIPE
3/4" W.H.C.	1276 L.F.	1305 L.F.	HOWELL METALS
1" W.H.C.	200 L.F.	285 L.F.	HOWELL METALS
FIRE HYDRANTS	0	6 EA.	MUELLER COMPANY
8" SEWER	2172 L.F.	2575 L.F.	I-M MANUFACTURING CORPORATION
8" SEWER (D.I.P.)		0	
MANHOLES	16	21 EA.	ATLANTIC CONCRETE PRODUCTS
6" S.H.C.	1112 L.F.	1540 L.F.	I-M MANUFACTURING CORPORATION
12" VALVES	5	5 EA.	MUELLER COMPANY
8" VALVES (EXCLUDING F.H.)	1	1 EA.	MUELLER COMPANY
6" F.H. VALVES	0	6 EA.	MUELLER COMPANY
BLOW-OFF ASSEMBLY	2	1 EA.	MUELLER COMPANY
12" 6" F.H. TEES	5	5 EA.	GRAFFEN PIPE PRODUCTS
10" SEWER	774 L.F.	1013 L.F.	I-M MANUFACTURING CORPORATION
8" WATER	204 L.F.	200 L.F.	ATLANTIC STATES CAST IRON PIPE
OUTSIDE METERS	3	3 EA.	WESTAL MANUFACTURING
8" VALVES	1	1 EA.	MUELLER COMPANY
8" 6" F.H. TEES	1	1 EA.	GRAFFEN PIPE PRODUCTS
4" VALVES	1	1 EA.	MUELLER COMPANY



WATER AND SEWER CODE FOR COUNTY USE ONLY:  
 WATER NO. 601, 602  
 SEWER NO. 603, 604, 605, 606

LOCATION MAP  
 SCALE: 1" = 600'

**BENCHMARKS**

HOWARD COUNTY MON. # 2741004 ELEV. 413.967  
 3/4" REBAR 0.8' BELOW SURFACE 7'±(W) OF ROUTE 103 AND 100'±(S) OF INTERSECTION WITH LUCHESTER ROAD.

HOWARD COUNTY MON. # 2741003 ELEV. 413.825  
 3/4" REBAR 0.8' BELOW SURFACE 10'±(W) EDGE OF ROUTE 103 AND 80'±(N) OF 1/2 OF KENGER ROAD.

# CONTRACT NO. 14-1868-D

# MONTGOMERY MEADOWS

## SECTION ONE AREA ONE

## WATER AND SEWER MAIN EXTENSIONS

## HOWARD COUNTY, MARYLAND

## DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 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-89-53

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

REVISED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*Joseph M. Helms* 5-8-89  
 S.S. SOIL CONSERVATION SERVICE DATE

APPROVED:  
*Stephen L. Parks* 5/10/89  
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James M. ...* 5/11/89  
 DIRECTOR OF PUBLIC WORKS DATE

*Robert H. ...* 5-8-89  
 CHIEF, BUREAU OF UTILITIES DATE

*Paul ...* 5/13/89  
 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: W.E.C.	
DRN: W.E.C.	
CHK:	
DATE: July, 1989	
BY: GRC	REVISED AS PER COMMENTS
NO.:	REVISION

TITLE SHEET

600' SCALE MAP NO. 31 BLOCK NO. 14

MONTGOMERY MEADOWS  
 SECTION ONE AREA ONE  
 CONTRACT NO. 14-1868-D  
 2nd ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

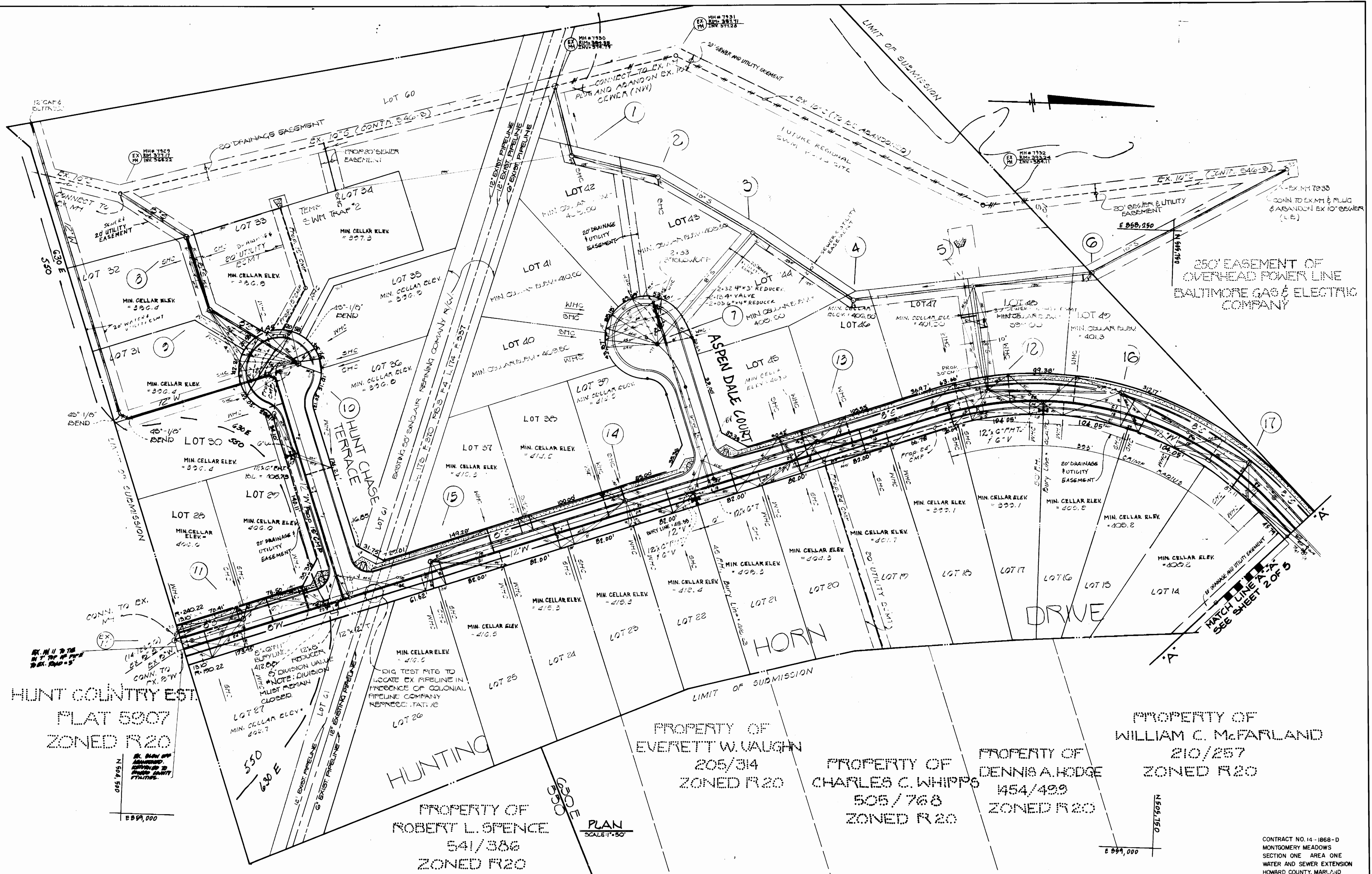
SCALE AS SHOWN

SHEET 1 OF 6

CONTRACT NO. 14-1868-D  
 MONTGOMERY MEADOWS  
 SECTION ONE AREA ONE  
 WATER & SEWER MAIN EXTENSIONS

AS-BUILT 11/22/1990 F-89-53





HUNT COUNTRY EST.  
FLAT 5907  
ZONED R20

PROPERTY OF  
ROBERT L. SPENCE  
541/386  
ZONED R20

PROPERTY OF  
EVERETT W. VAUGHN  
205/314  
ZONED R20

PROPERTY OF  
CHARLES C. WHIPPS  
505/768  
ZONED R20

PROPERTY OF  
DENNIS A. HODGE  
454/499  
ZONED R20

PROPERTY OF  
WILLIAM C. McFARLAND  
210/257  
ZONED R20

PLAN  
SCALE 1"=50'

MATCH LINE A-A  
SEE SHEET 2 OF 5

CONTRACT NO. 14-1868-D  
MONTGOMERY MEADOWS  
SECTION ONE - AREA ONE  
WATER AND SEWER EXTENSION  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James H. Disher*  
DIRECTOR OF PUBLIC WORKS  
DATE: 5-8-89

*Robert J. Disher*  
CHIEF, BUREAU OF UTILITIES  
DATE: 5-8-89

*Robert J. Disher*  
CHIEF, LAND DEVELOPMENT DIVISION  
DATE: 5-8-89

DEWBERRY & DAVIS  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

3300 N. RIDGE ROAD  
SUITE 100  
ELLCOTT CITY, MARYLAND  
21043



DES:	W.L.D.				
DRN:	W.L.D.				
CHK:	W.C.O.				
DATE:	7/88				
REVISED AS PER COMMENTS					
BY NO.					
REVISION					
DATE					

**PLAN**

WATER & SEWER MAIN  
WATER & SEWER AS BUILT

600' SCALE MAP NO. 31 BLOCK NO. 14

MONTGOMERY MEADOWS

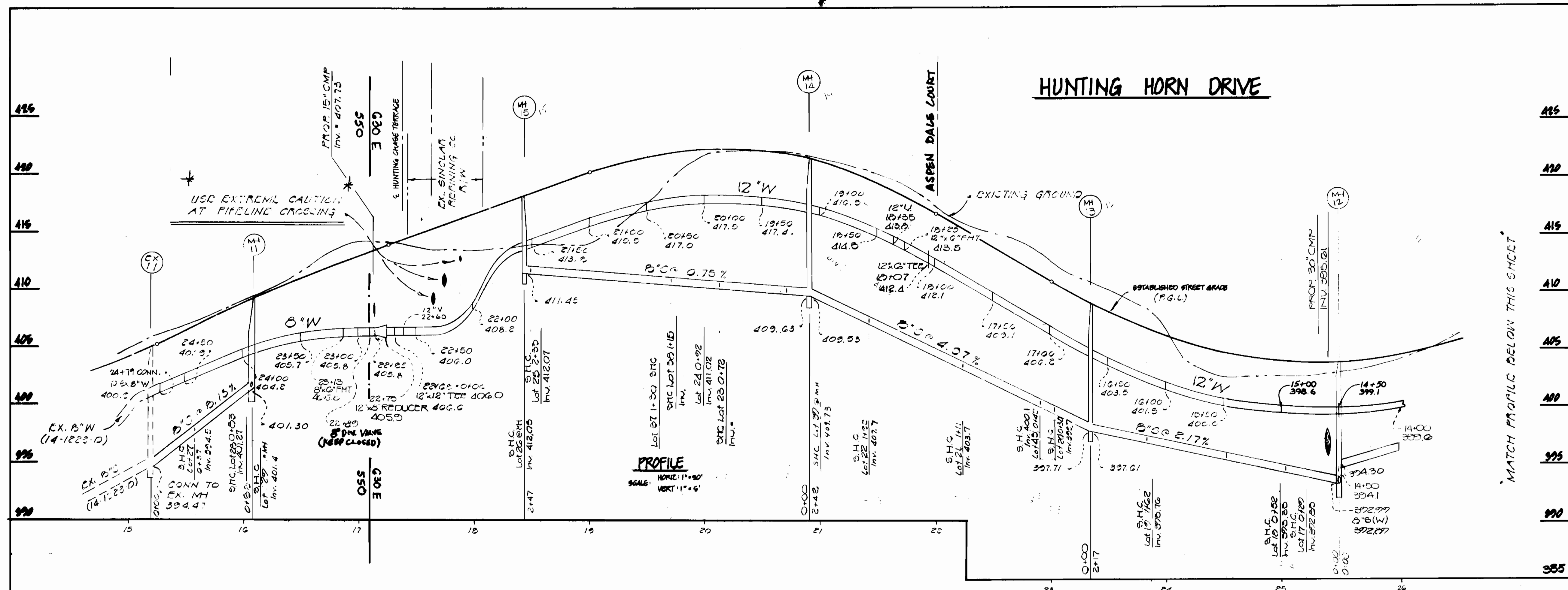
SECTION ONE - AREA ONE  
CONTRACT NO. 14-1868-D  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

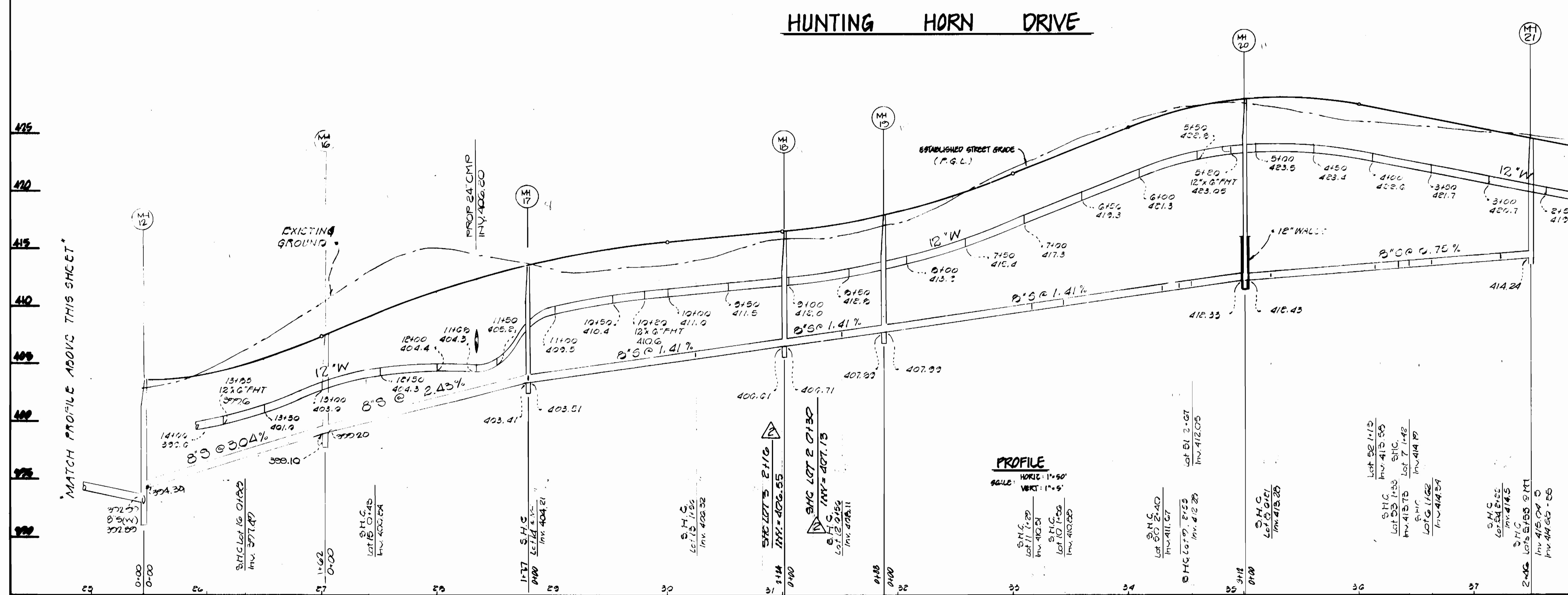
SHEET 3 OF 5

AS-BUILT MARCH 20, 1990 F-87-53

WS012 GC



MATCH PROFILE BELOW THIS SHEET



MATCH PROFILE ABOVE THIS SHEET

0.00 CONNECT TO EX  
12\"/>

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature]  
Date: 5-12-27

Chief, Bureau of Engineering: [Signature]  
Date: [Signature]

Chief, Bureau of Utilities: [Signature]  
Date: [Signature]

DEWBERRY & DAVIS  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

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



DES: D/D			
DRN: W/L/B			
CHK: W/L/B	W/L/B	ADD W/L/B TO LOTS 2 & 3	7-20-27
DATE: JULY 1988	BY: NO.	REVISION	DATE
		REVISED AS PER COMMENTS	8/10/88

**PROFILES**

**WATER & SEWER MAIN**

600' SCALE MAP NO. 51 BLOCK NO. 14

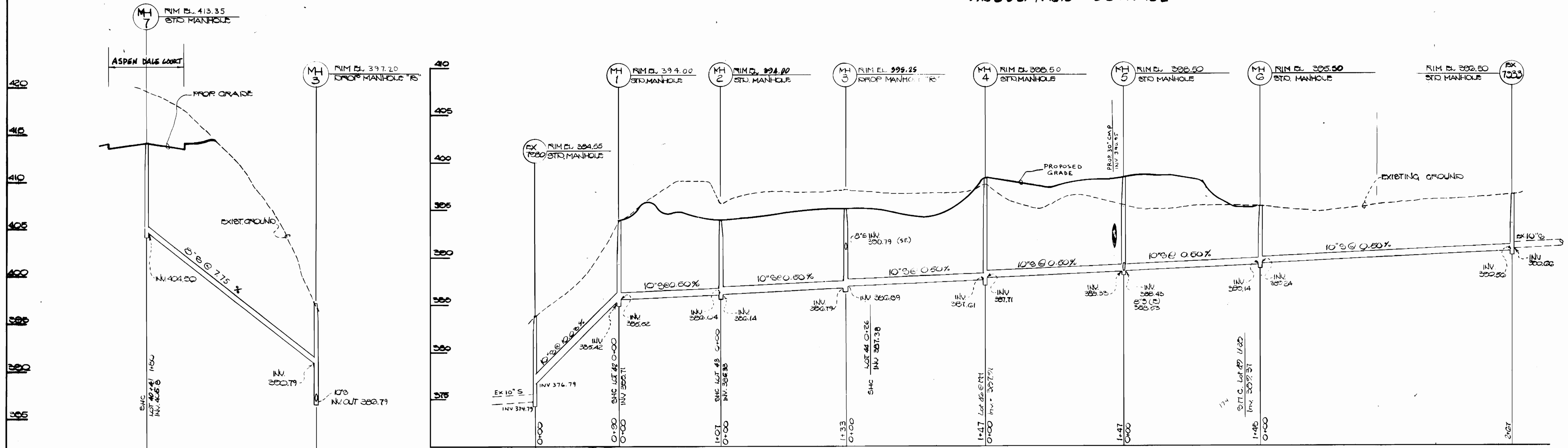
**MONTGOMERY MEADOWS**

SECTION ONE AREA ONE  
CONTRACT NO. 14-1868-D  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

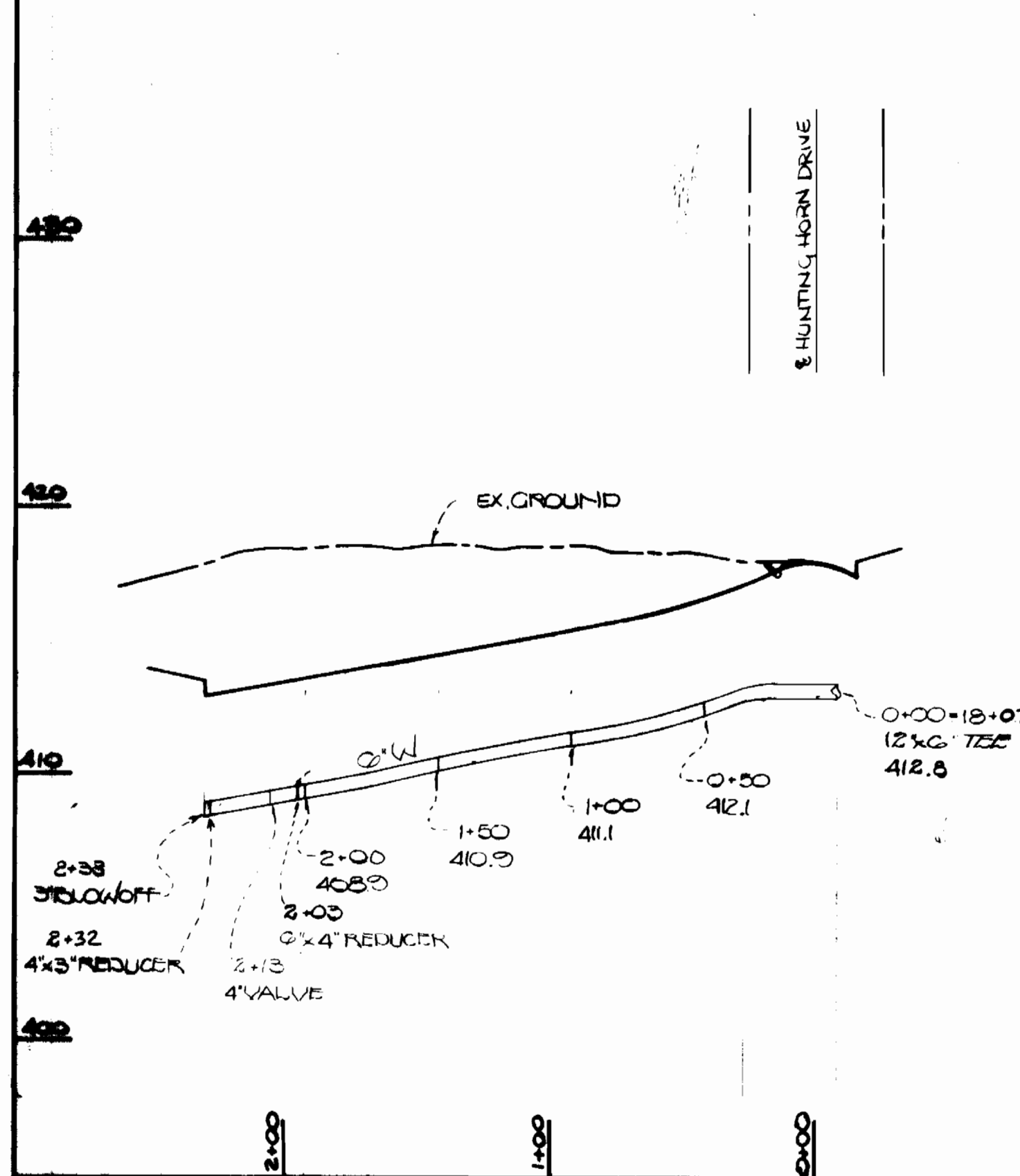
SHEET 4 OF 6

RELOCATED OUTFALL

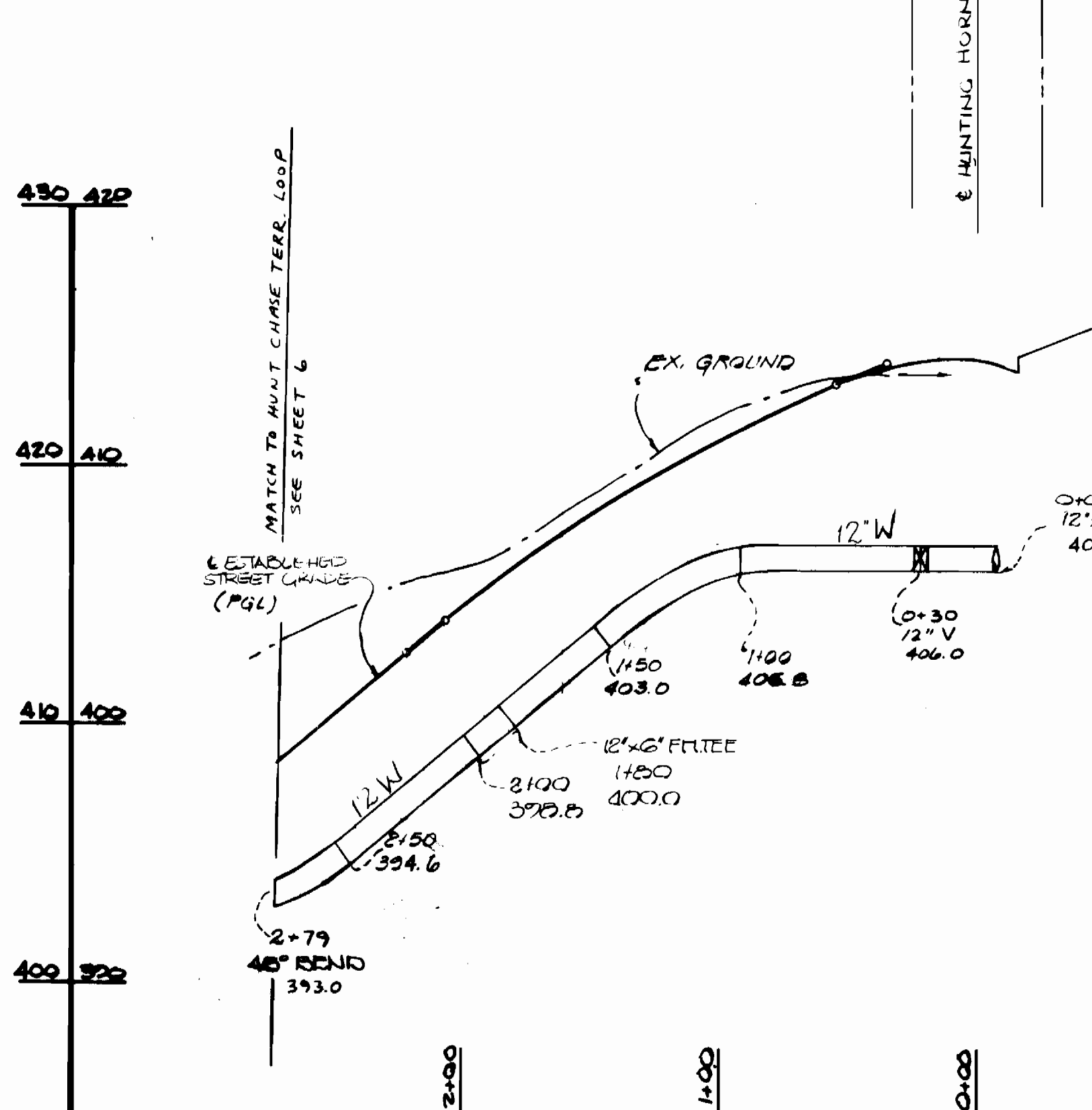


PROFILE: HORIZ. 1" = 50'  
SCALE: VERT. 1" = 5'

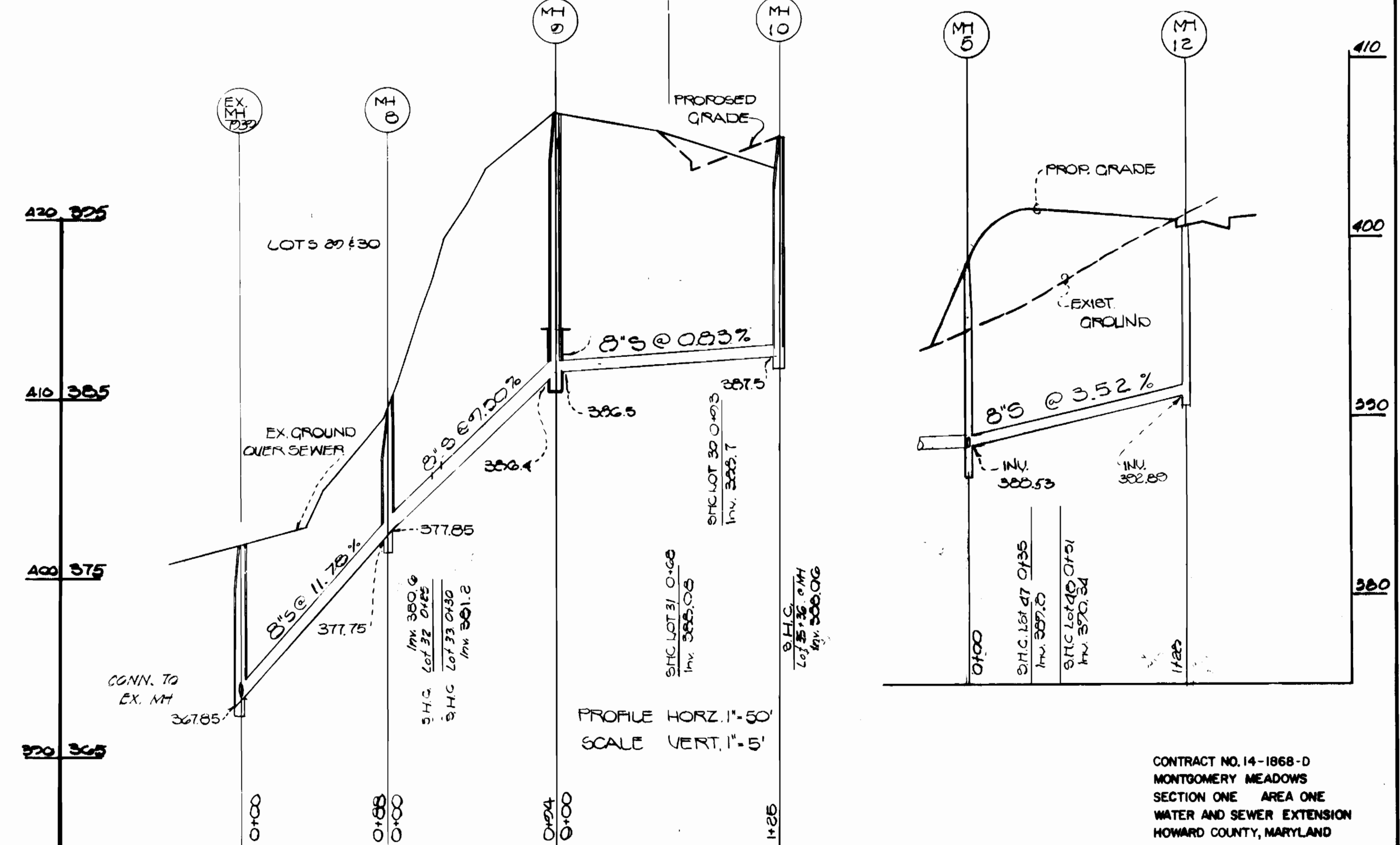
ASPEN DALE COURT



HUNT CHASE TERRACE



HUNT CHASE TERRACE



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

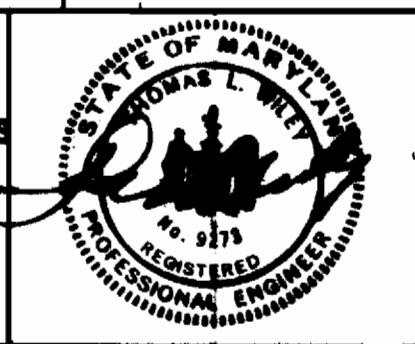
CONTRACT NO. 14-1868-D  
MONTGOMERY MEADOWS  
SECTION ONE AREA ONE  
WATER AND SEWER EXTENSION  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DATE: 5-12-87  
DATE: 5-12-87

DEWBERRY & DAVIS  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

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



DES: WLB	
DRN: WLB	
CHK: WED	
DATE: July 1988	BY: NO.
REVISION	REVISION

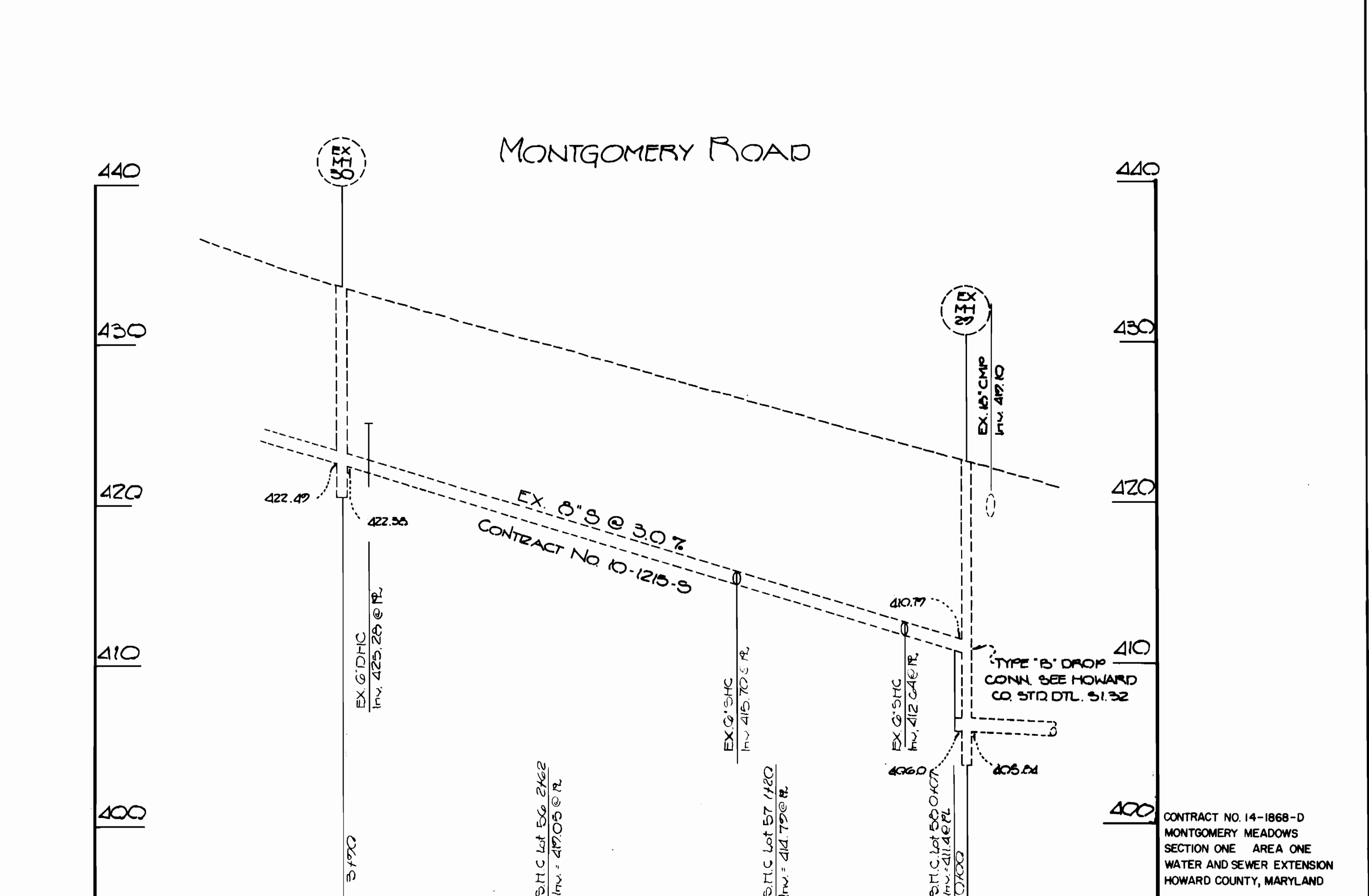
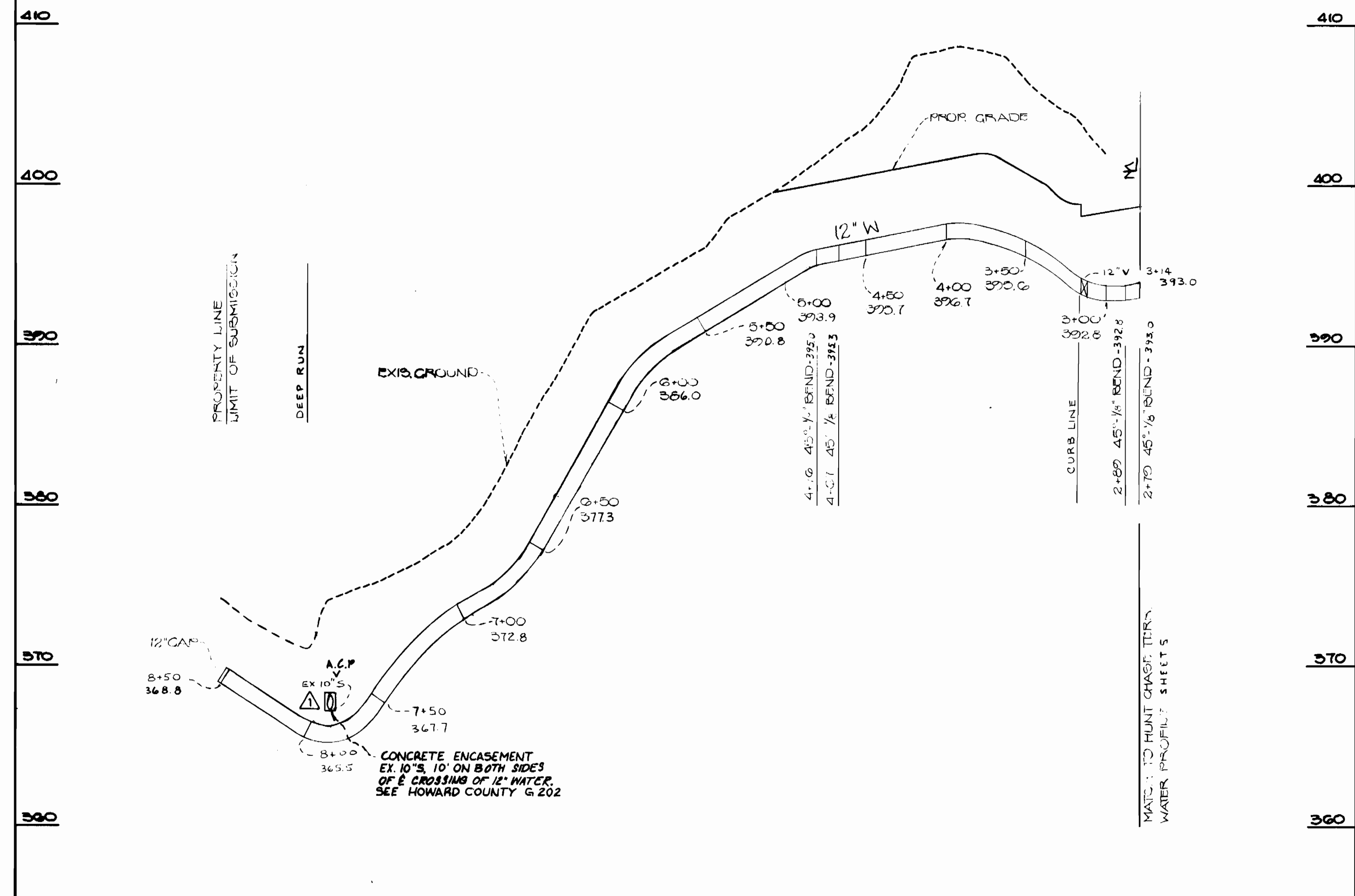
PROFILES  
WATER & SEWER MAIN

600' SCALE MAP NO. 31 BLOCK NO. 14

MONTGOMERY MEADOWS  
SECTION ONE AREA ONE  
CONTRACT NO. 14-1868-D  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 5 OF 5

HUNT CHASE TERR. LOOP



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: *James R. Staley*  
Date: 5-8-49

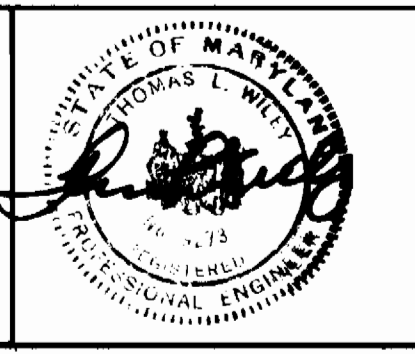
Chief, Bureau of Engineering: *Raymond S. Ray*  
Date: 5-12-49

Chief, Bureau of Utilities: *Robert D. Smith*  
Date: 5-8-49

Chief, Land Development Division: *Raymond S. Ray*  
Date: 5-12-49

DEWBERRY & DAVIS  
ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS

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



DES:	
DRN:	
CHK:	
DATE:	2-14-50
BY:	W.A.J.
NO.:	1
REVISION:	CONCRETE ENCASEMENT FOR EX 10" ACP 6" S.H.C. PIPE PROVIDED AS PER COMMENTS FROM LAND DEVELOPMENT ENGINEER
DATE:	2-14-50

PROFILES  
WATER & SEWER MAIN

600' SCALE MAP NO. 31 BLOCK NO. 14

MONTGOMERY MEADOWS  
SECTION ONE AREA ONE  
CONTRACT NO. 14-1868-D  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MD.

SCALE AS SHOWN  
SHEET 2 OF 6