

WATER AND SEWER CODE:
 Water No. F11
 Sewer No. 5752500 AND 5752600

Wastewater Treatment	Savage
No. of S.H.C.'s	111
No. of W.H.C.'s	105
Type of Lots	Single Family
No. of Lots	105

CONTRACT NO. 2884D-W&S

DORSEY HALL

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" S	11,185 L.F.	10,967.02 L.F.	JOHNS MANVILLE
Manholes Δ	440 V.F.	396.94 L.F.	ATLANTIC PRE-CAST
12" Water	1825 L.F.	1823.00 L.F.	U.S. FOUNDRY
8" Water Δ	660 L.F.	666.16 L.F.	" "
6" Water Δ	4015 L.F.	3982.10 L.F.	" "
12" Valves	2	2	M&H
8" Valves	3	3	M&H
6" V. (Excluding F.M.V.)	8	8	M&H
Fire Hydrants	8	8	M&H
8" Sewer		3018.25 L.F.	JOHNS MANVILLE
8" Sewer		40 L.F.	IRON DUCTILE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
James J. Blair, Chief 2-6-80
 CHIEF-BUREAU OF UTILITIES—DATE CHIEF-BUREAU OF ENGINEERING—DATE
WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Henry F. Neuman 2-7-80
 DIRECTOR OF PUBLIC WORKS DATE

NO.	DATE	REVISION
Δ	2-17-80	sewer pipe replacement & steam channel stabilization
Δ	3-2-80	Revised Bright Rocket Way and Quantities
U.C.		

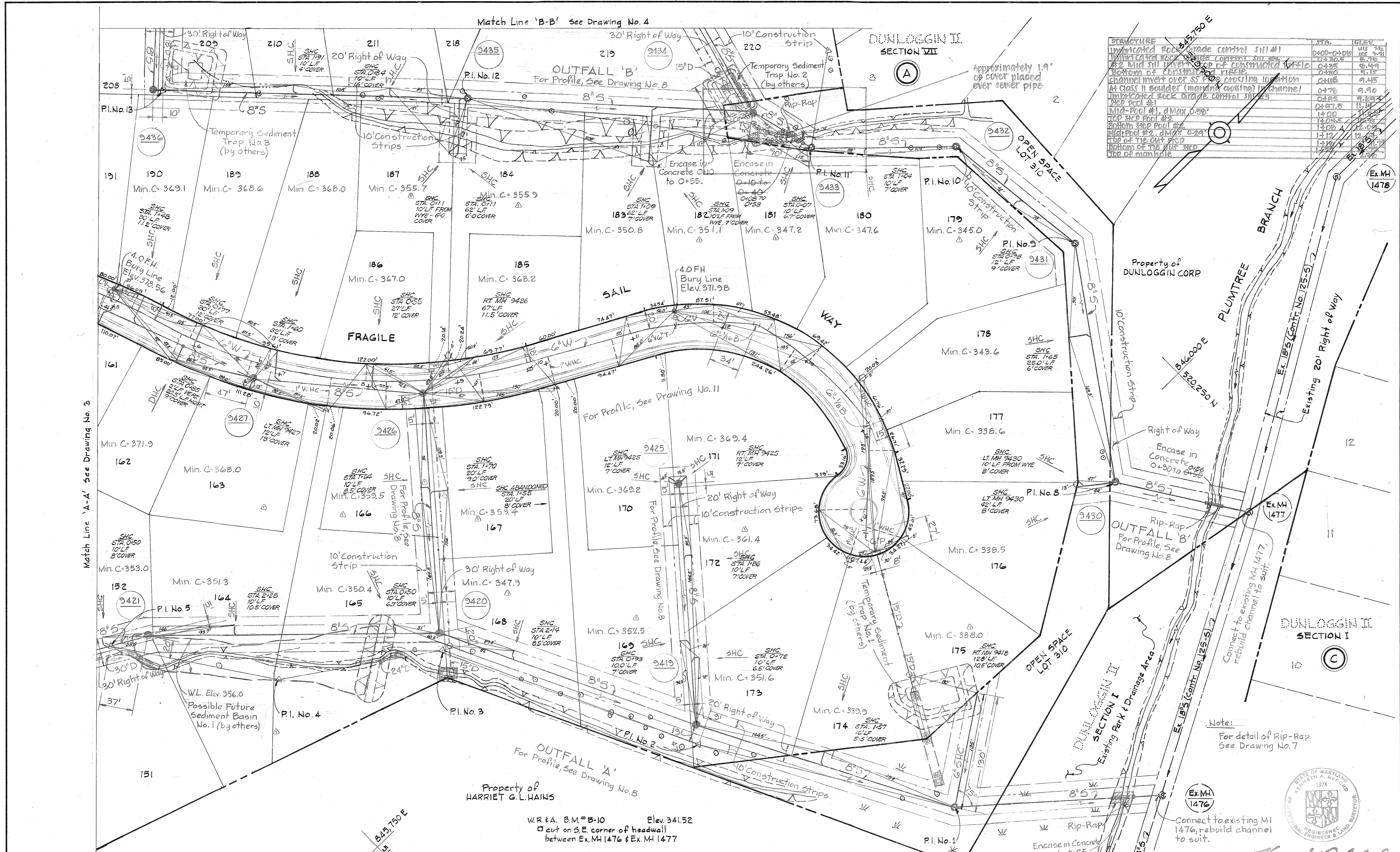
CONTRACT NO. 2884D-W&S	LOCATION MAP OF WATER & SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY NO.2	DRAWING NO. 1 OF 11	SCALE 1"=600'
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W. O. 7423

May 5, 1980

AS-BUILT AUG. 20, 1980

WS 884-W&S/1



STRUCTURE	STA.	ELEV.
Unimproved Rock Grade Control Sill #1	0400-0400	8.75
Unimproved Rock Grade Control Sill #2	0400-0400	8.75
Top of 30" dia. pipe	0400	8.45
Bottom of 30" dia. pipe	0400	8.15
Channel invert over SS pipe crossing location	0405	9.45
At Class II Boulder (manhole crossing) location	0475	9.90
Unimproved Rock Grade Control Sill #3	0485	9.85
SDP Pool #1	0497.5	11.15
Mid-Pool #1, dmax 0.50'	13.00	11.25
Top of 30" dia. pipe	13.05	11.25
Bottom of 30" dia. pipe	13.05	11.25
Mid-Pool #2, dmax 0.25'	13.05	12.05
Top of the out step	13.12	12.05
Bottom of the out step	13.12	12.05
Top of manhole	13.12	12.05

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 James L. Glavin, Chief-Bureau of Utilities - DATE
 Whitman, Engineers & Associates, Inc., Chief-Bureau of Engineering - DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works, DATE

No.	DATE	REVISIONS
1	3-2-80	Revised Min. Cellar Elevations, lot lines, SHC's for lots 166 & 167

CONTRACT NO. 2884D-W&S

PLAN OF WATER & SEWER MAINS

ELECTION DISTRICT ELLICOTT CITY NO. 2

DRAWING NO. 2 OF 11 SCALE 1" = 50'

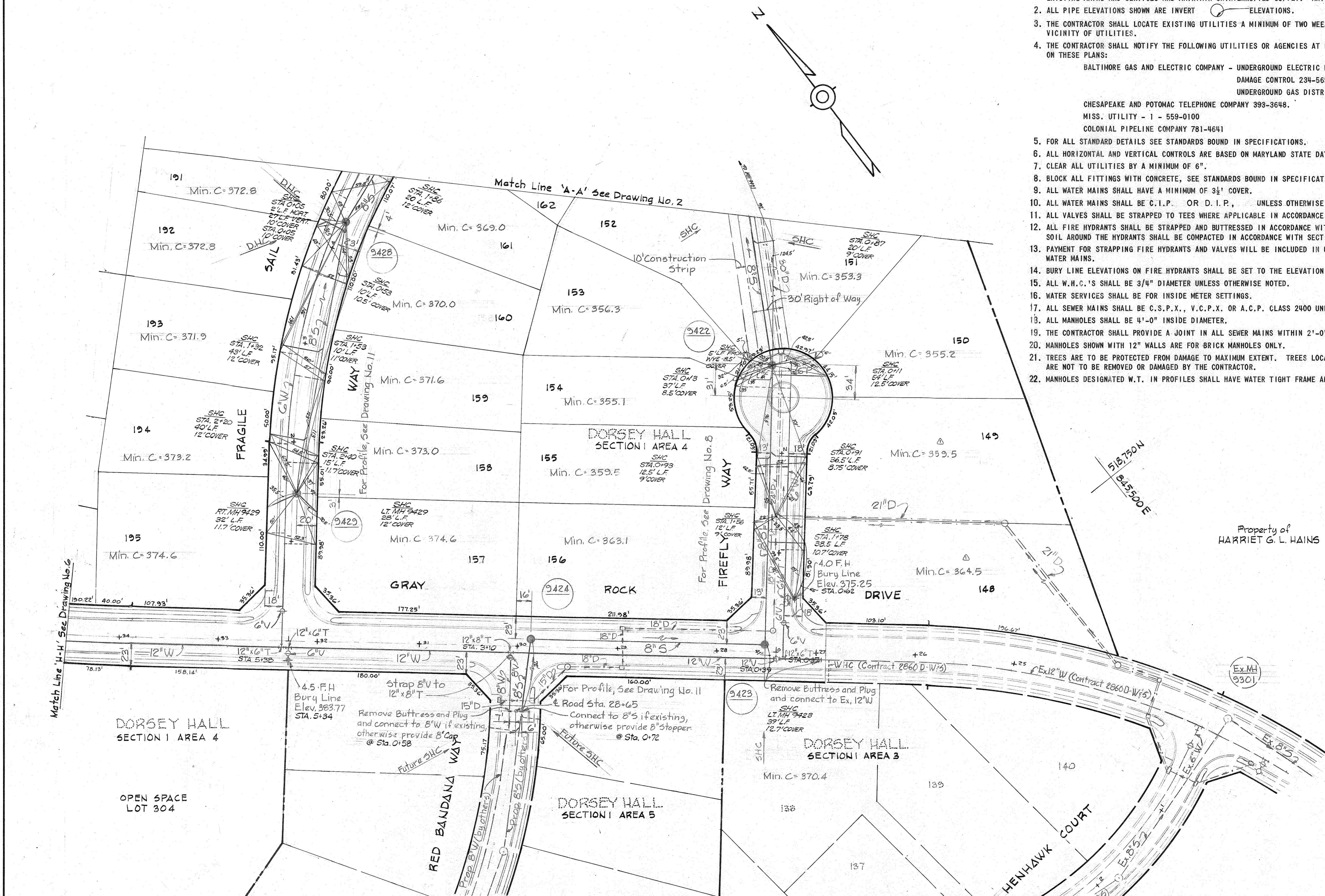
W. O. 7423

May 5, 1980

AS-BUILT AUG. 20, 1980

GENERAL NOTES

1. 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.
2. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
3. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES.
4. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING
DAMAGE CONTROL 234-5631
UNDERGROUND GAS DISTRIBUTION ENGINEERING 234-5621
CHESAPEAKE AND POTOMAC TELEPHONE COMPANY 393-3648.
MISS. UTILITY - 1 - 559-0100
COLONIAL PIPELINE COMPANY 781-4641
5. FOR ALL STANDARD DETAILS SEE STANDARDS BOUND IN SPECIFICATIONS.
6. ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE DATUM.
7. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
8. BLOCK ALL FITTINGS WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.
9. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2' COVER.
10. ALL WATER MAINS SHALL BE C.I.P. OR D.I.P., UNLESS OTHERWISE NOTED.
11. ALL VALVES SHALL BE STRAPPED TO TEES WHERE APPLICABLE IN ACCORDANCE WITH THE STANDARD DETAILS.
12. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED IN ACCORDANCE WITH THE STANDARD DETAILS. SOIL AROUND THE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 5-15 OF THE STANDARD SPECIFICATIONS.
13. PAYMENT FOR STRAPPING FIRE HYDRANTS AND VALVES WILL BE INCLUDED IN UNIT PRICE BID FOR FURNISHING AND LAYING WATER MAINS.
14. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATION SHOWN ON THE DRAWINGS.
15. ALL W.H.C.'S SHALL BE 3/4" DIAMETER UNLESS OTHERWISE NOTED.
16. WATER SERVICES SHALL BE FOR INSIDE METER SETTINGS.
17. ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
18. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
19. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
20. MANHOLES SHOWN WITH 12" WALLS ARE FOR BRICK MANHOLES ONLY.
21. 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.
22. MANHOLES DESIGNATED W.T. IN PROFILES SHALL HAVE WATER TIGHT FRAME AND COVERS.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James L. Blair, Chief-Bureau of Utilities - DATE
W. O. P. 7423, Chief-Bureau of Engineering - DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Revised Min. Cover Elevations
REVISIONS
No. DATE
1 2-2-80
2 7-7-80

CONTRACT NO. 2884D-W8S
PLAN OF WATER & SEWER MAINS

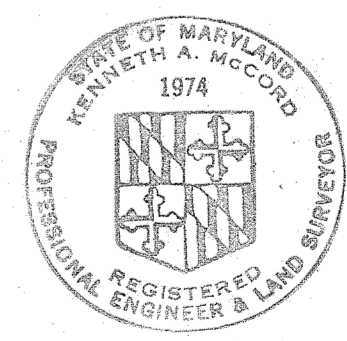
ELECTION DISTRICT
ELLICOTT CITY NO. 2

Dorsey Hall-Phase III
Section I Area 4
Contract No. 2884D-W8S
DRAWING NO. 3 OF 11
SCALE 1" = 50'

W.O. 7423

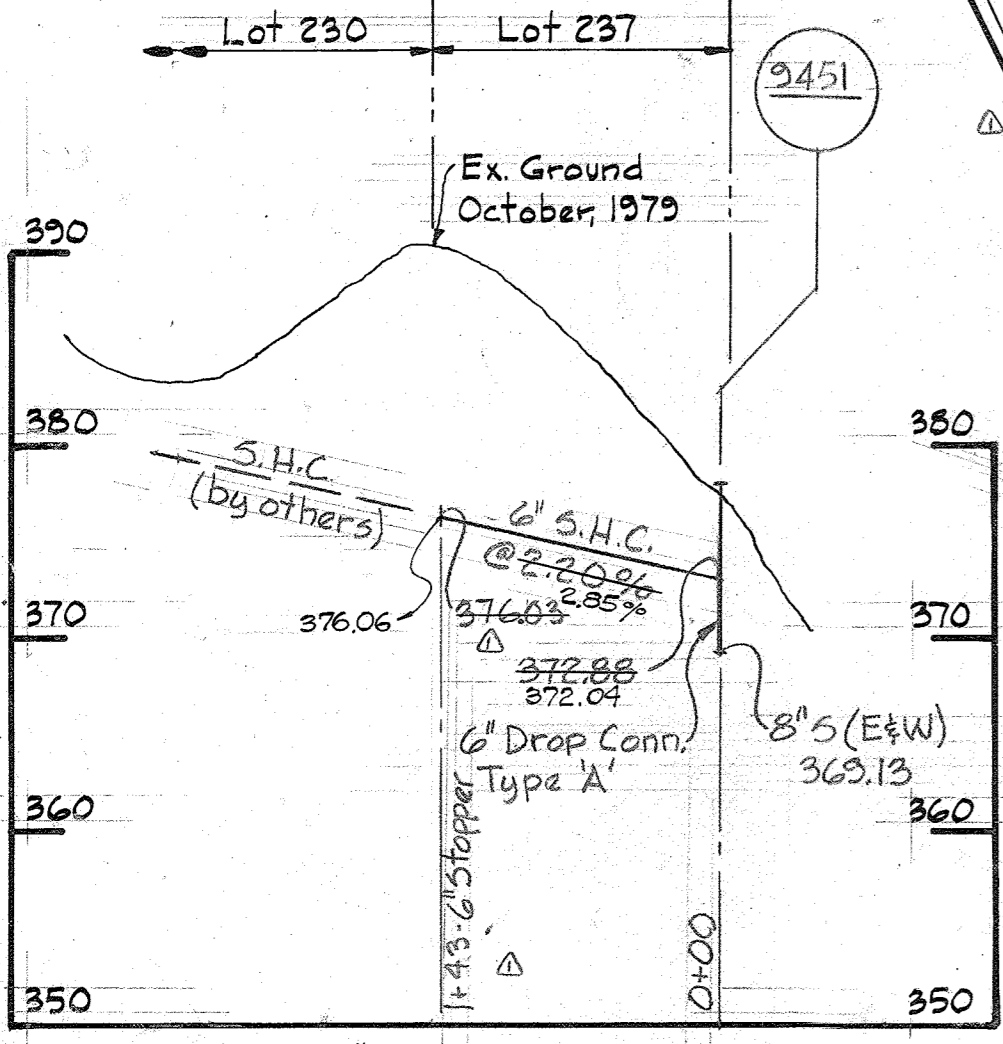
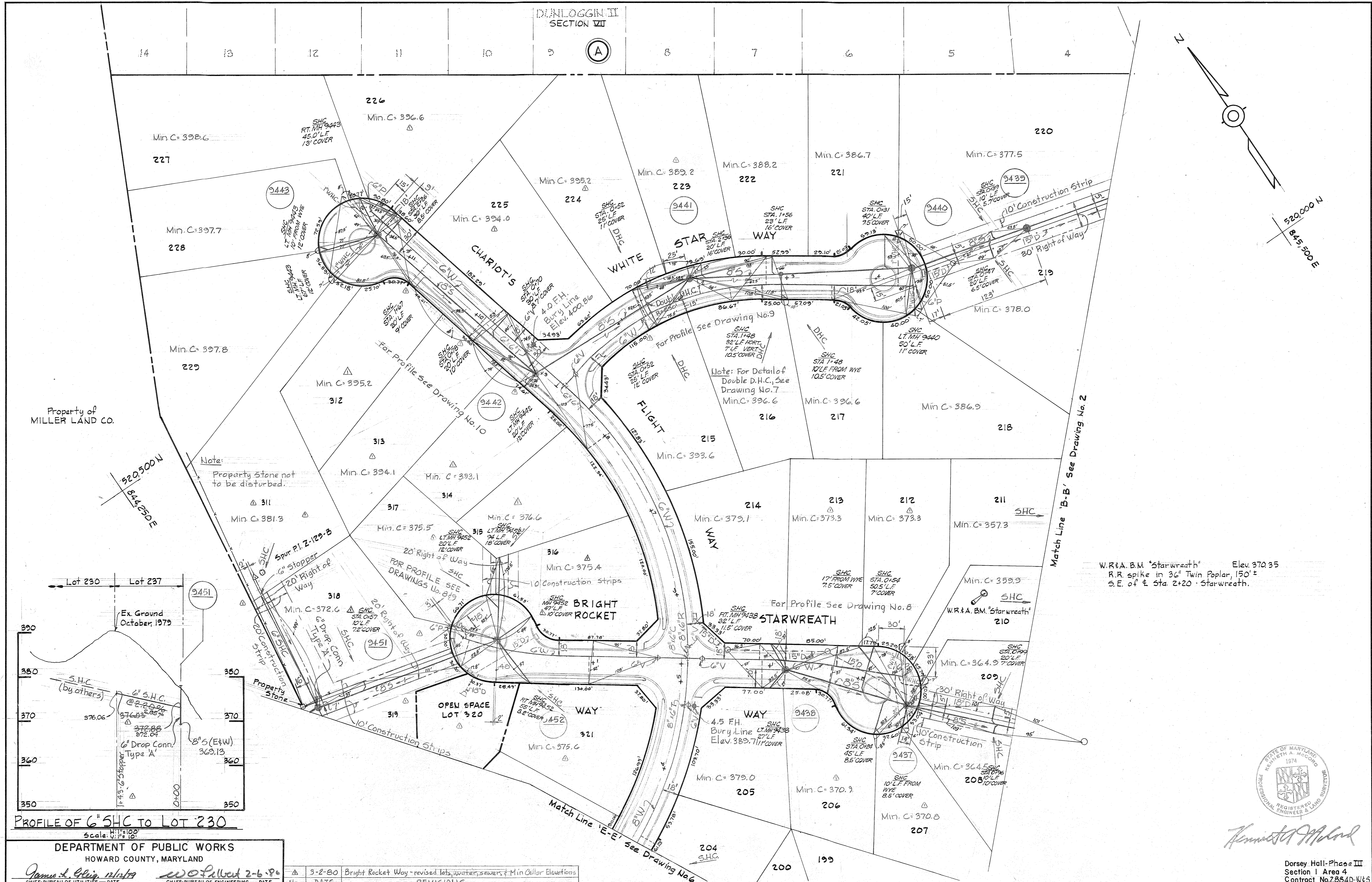
May 5, 1980

AS-BUILT AUG. 20, 1980



Kenneth A. McLeod

W.O. 7423



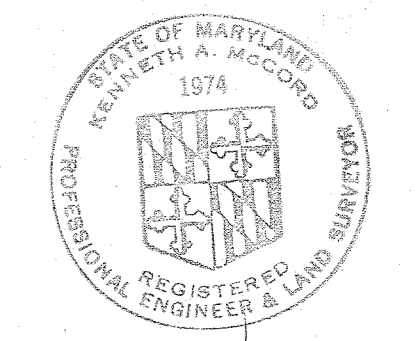
PROFILE OF 6" S.H.C. TO LOT 230
Scale: V. 1"=10' H. 1"=10'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND James L. Blair, Chief-Bureau of Utilities 2-6-80 Chief-Bureau of Engineering		DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Steve F. Neumier, Director of Public Works 2-7-80		CONTRACT NO. 2884D-W8S		PLAN OF WATER & SEWER MAINS		ELECTION DISTRICT ELLICOTT CITY NO.2		DRAWING NO. 4 OF 11 SCALE AS SHOWN	
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND		DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Steve F. Neumier, Director of Public Works 2-7-80		CONTRACT NO. 2884D-W8S		PLAN OF WATER & SEWER MAINS		ELECTION DISTRICT ELLICOTT CITY NO.2		DRAWING NO. 4 OF 11 SCALE AS SHOWN	

W.O. 7423

May 5, 1980

AS-BUILT AUG. 20, 1980

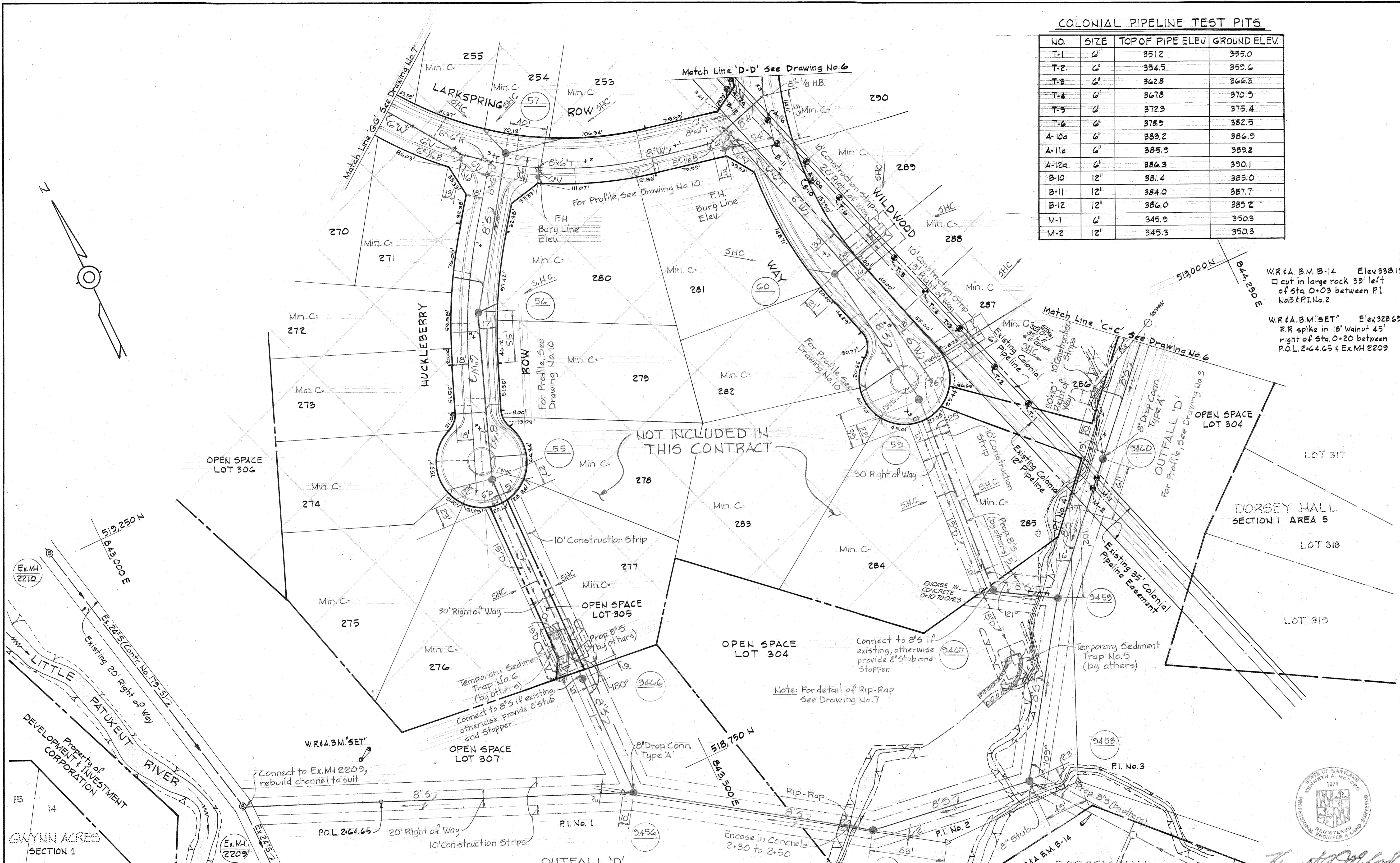


Kenneth A. McCord
 Registered Professional Engineer & Land Surveyor

Dorsey Hall-Phase III
 Section I Area 4
 Contract No. 2884D-W8S

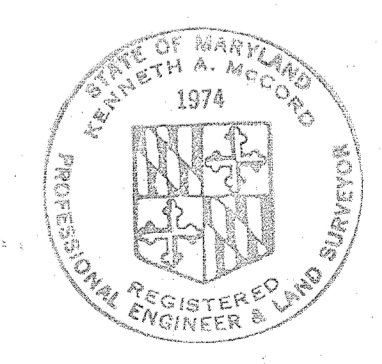
COLONIAL PIPELINE TEST PITS

NO.	SIZE	TOP OF PIPE ELEV.	GROUND ELEV.
T-1	6"	351.2	355.0
T-2	6"	354.5	359.6
T-3	6"	362.8	366.3
T-4	6"	367.8	370.9
T-5	6"	372.9	375.4
T-6	6"	378.9	382.5
A-10a	6"	389.2	386.9
A-11a	6"	385.9	389.2
A-12a	6"	386.3	390.1
B-10	12"	381.4	385.0
B-11	12"	384.0	387.7
B-12	12"	386.0	389.2
M-1	6"	345.9	350.3
M-2	12"	345.3	350.3



W.R.#A. B.M. B-14 Elev. 338.19
 □ cut in large rock 39' left of Sta. 0+03 between P.I. No. 3 & P.I. No. 2

W.R.#A. B.M. "SET" Elev. 328.69
 R.R. spike in 18" Walnut 45' right of Sta. 0+20 between P.O.L. 2+64.65 & Ex. MH 2209



Kenneth A. McLeod
 REGISTERED ENGINEER & SURVEYOR

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 James L. Quinn 12/1/79 CHIEF-BUREAU OF UTILITIES—DATE
 W.D. Bellard 2-1-80 CHIEF-BUREAU OF ENGINEERING—DATE

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Steve F. Neimey 2-7-80 DIRECTOR OF PUBLIC WORKS—DATE

CONTRACT NO. 2884D-W8S

PLAN OF
 WATER & SEWER MAINS

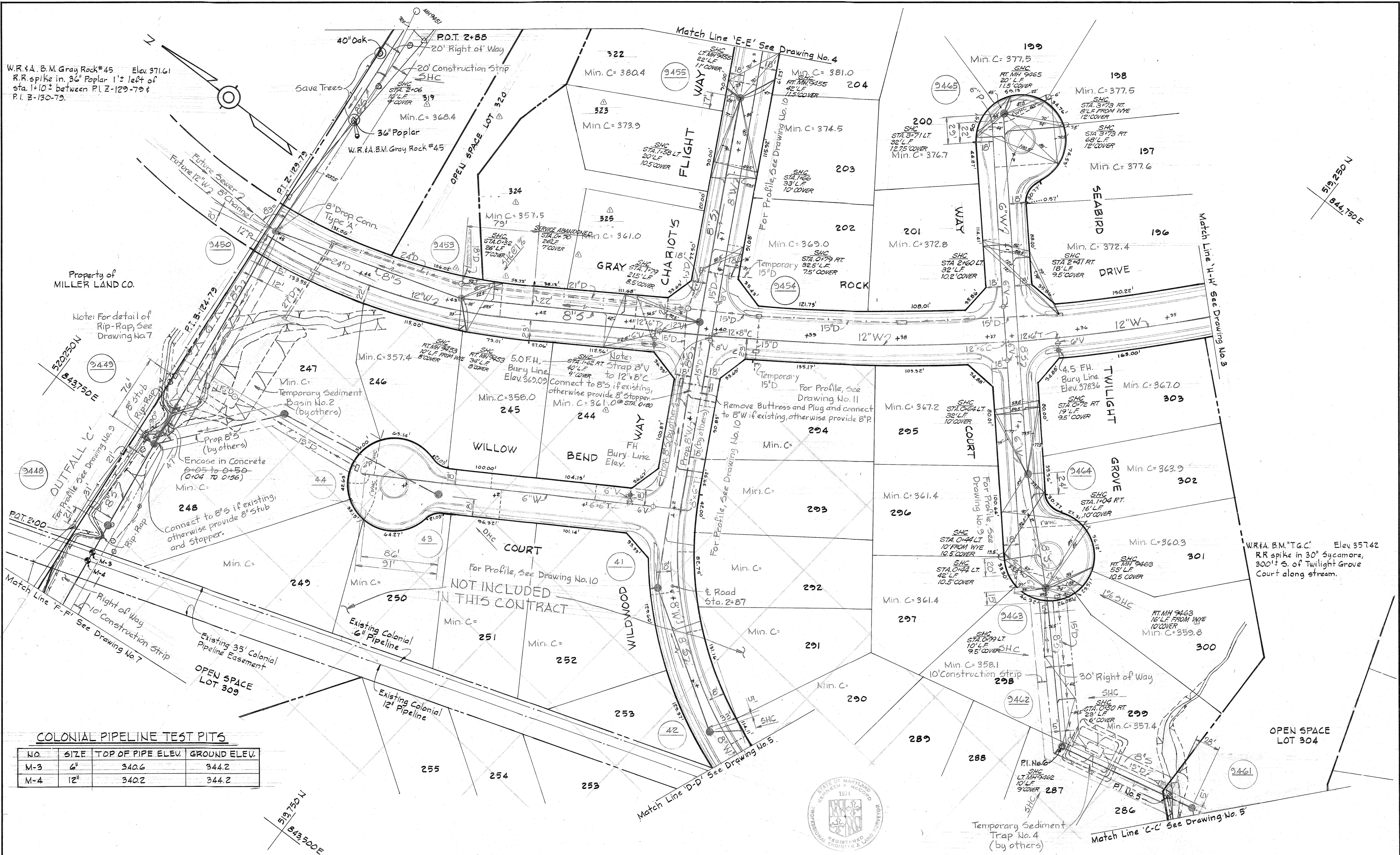
ELECTION DISTRICT
 ELLICOTT CITY NO. 2

DORSEY HALL-Phase III
 Section 1 Area 4
 Contract No. 2884D-W15

W.O. 7423

December 7, 1979

AS-BUILT AUG. 20, 1980



W.R. & A. B.M. Gray Rock #45 Elev. 371.61
 R.R. spike in 36" Poplar 1'± left of
 sta. 1+10± between P.I. 2-129-79 &
 P.I. 2-130-79.

Note: For detail of
 Rip-Rap, See
 Drawing No. 7

Encase in Concrete
 0+05 to 0+50
 (0+04 to 0+56)
 Min. C=

5.0 F.H.
 Bury Line
 Elev. 369.09
 Connect to 8"± if existing,
 otherwise provide 8" Stopper
 Min. C= 361.0 @ STA. 0+80

NOT INCLUDED
 IN THIS CONTRACT

W.R. & A. B.M. "T.G.C." Elev. 357.42
 R.R. spike in 30" Sycamore,
 300'± S. of Twilight Grove
 Court along stream.

COLONIAL PIPELINE TEST PITS

NO.	SIZE	TOP OF PIPE ELEV.	GROUND ELEV.
M-3	6"	340.6	344.2
M-4	12"	340.2	344.2

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
James A. Ellis, Jr. 2-6-80
 CHIEF-BUREAU OF UTILITIES-DATE CHIEF-BUREAU OF ENGINEERING-DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
George F. Nemmy 2-7-80
 DIRECTOR OF PUBLIC WORKS DATE

CONTRACT NO. 2884D-W8S
 PLAN OF WATER & SEWER MAINS

ELECTION DISTRICT
 ELLICOTT CITY NO. 2

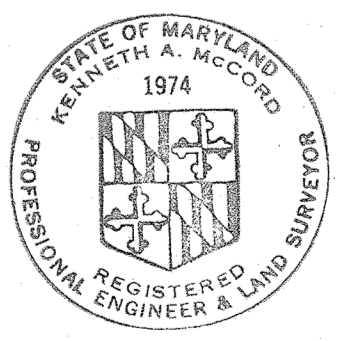
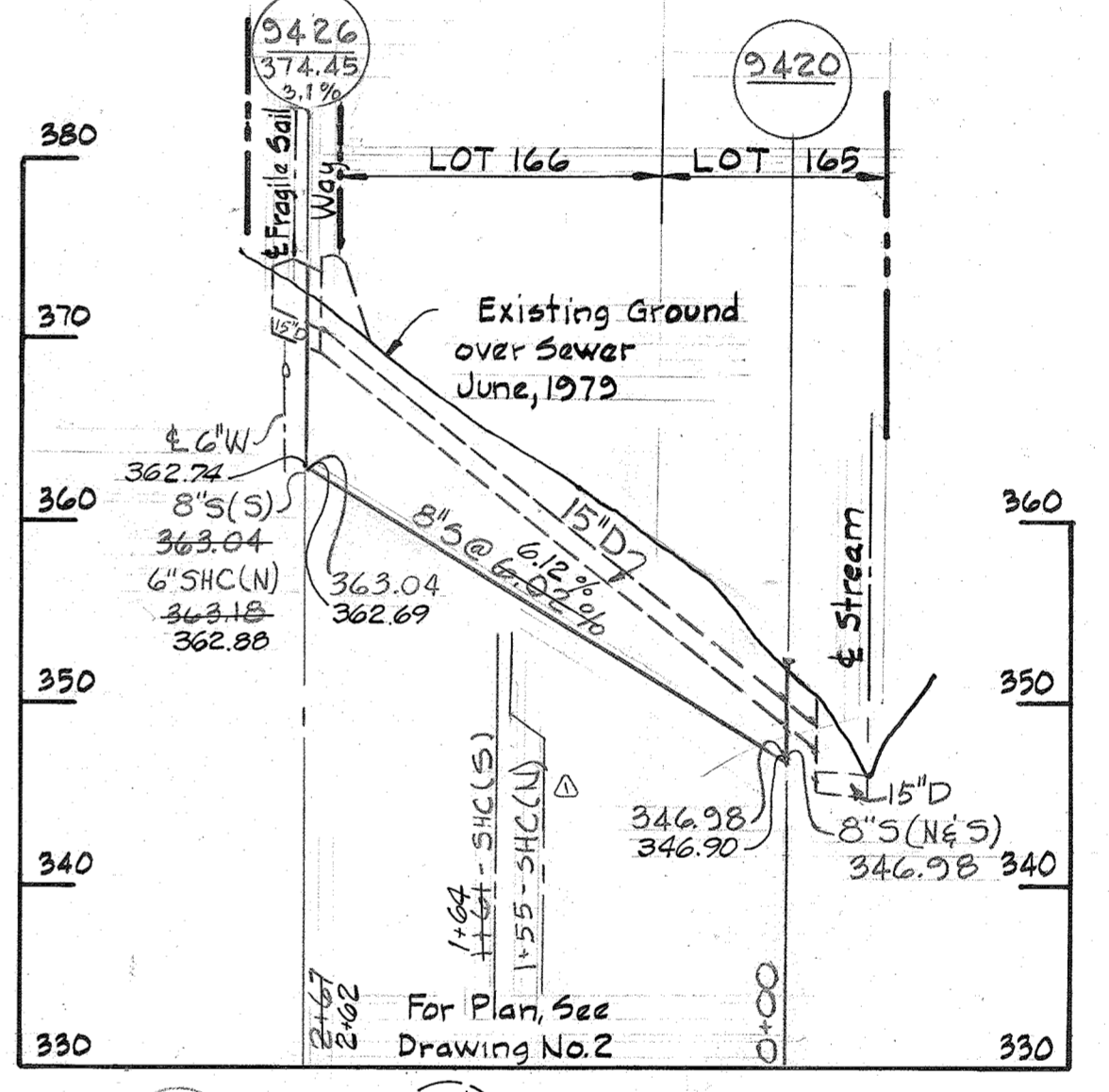
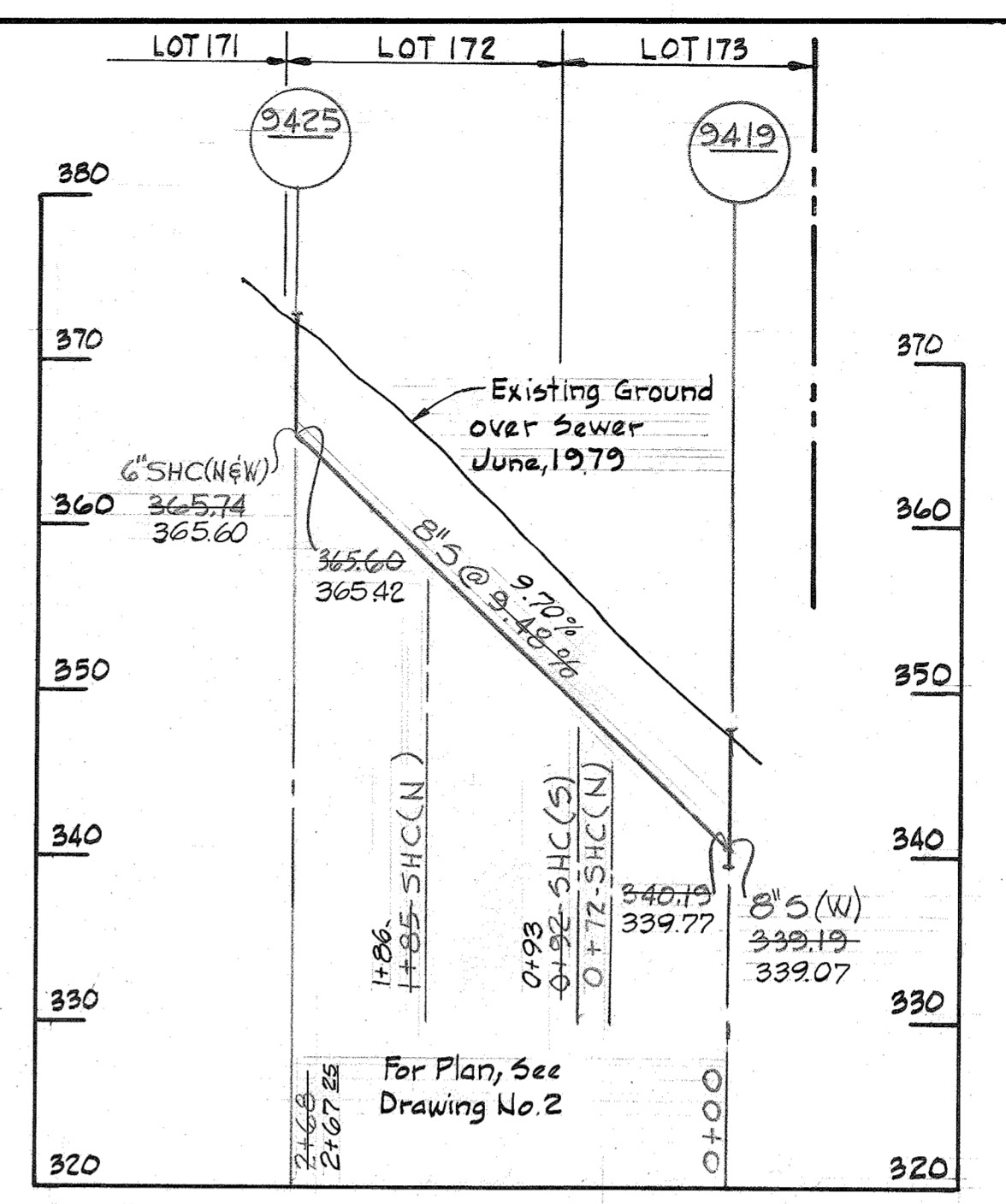
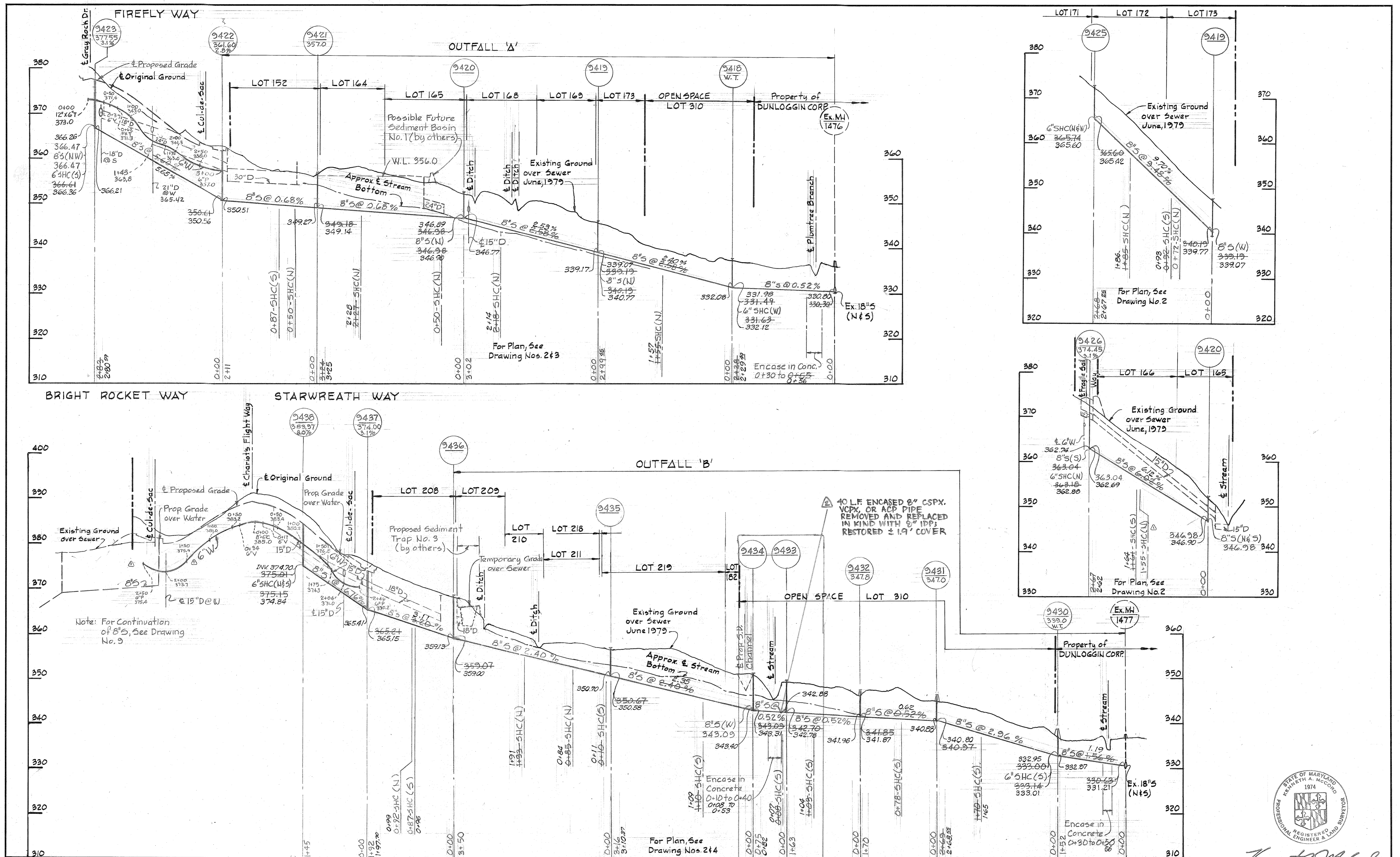
DRAWING NO. 6 OF 11
 SCALE 1" = 50'

Dorsey Hall-Phase III
 Section I Area 4
 Contract No. 2884D-W15

W.O. 7423

May 5, 1980

AS-BUILT AUG. 20, 1980



Kenneth A. McCord

Dorsey Hall - Phase III
Section I - Area 4
Contract No. 2884D-W45

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James L. Glavin 12/2/89
CHIEF-BUREAU OF UTILITIES - DATE
W. O. Faller 2-6-80
CHIEF-BUREAU OF ENGINEERING - DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Henry F. Neumann
DIRECTOR OF PUBLIC WORKS
2-7-80
DATE

No.	DATE	REVISION
1	3-2-80	Revised Bright Rocket Way, relocated SHC between M&S 9420 & 9426

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CONTRACT NO. 2884D-W8S

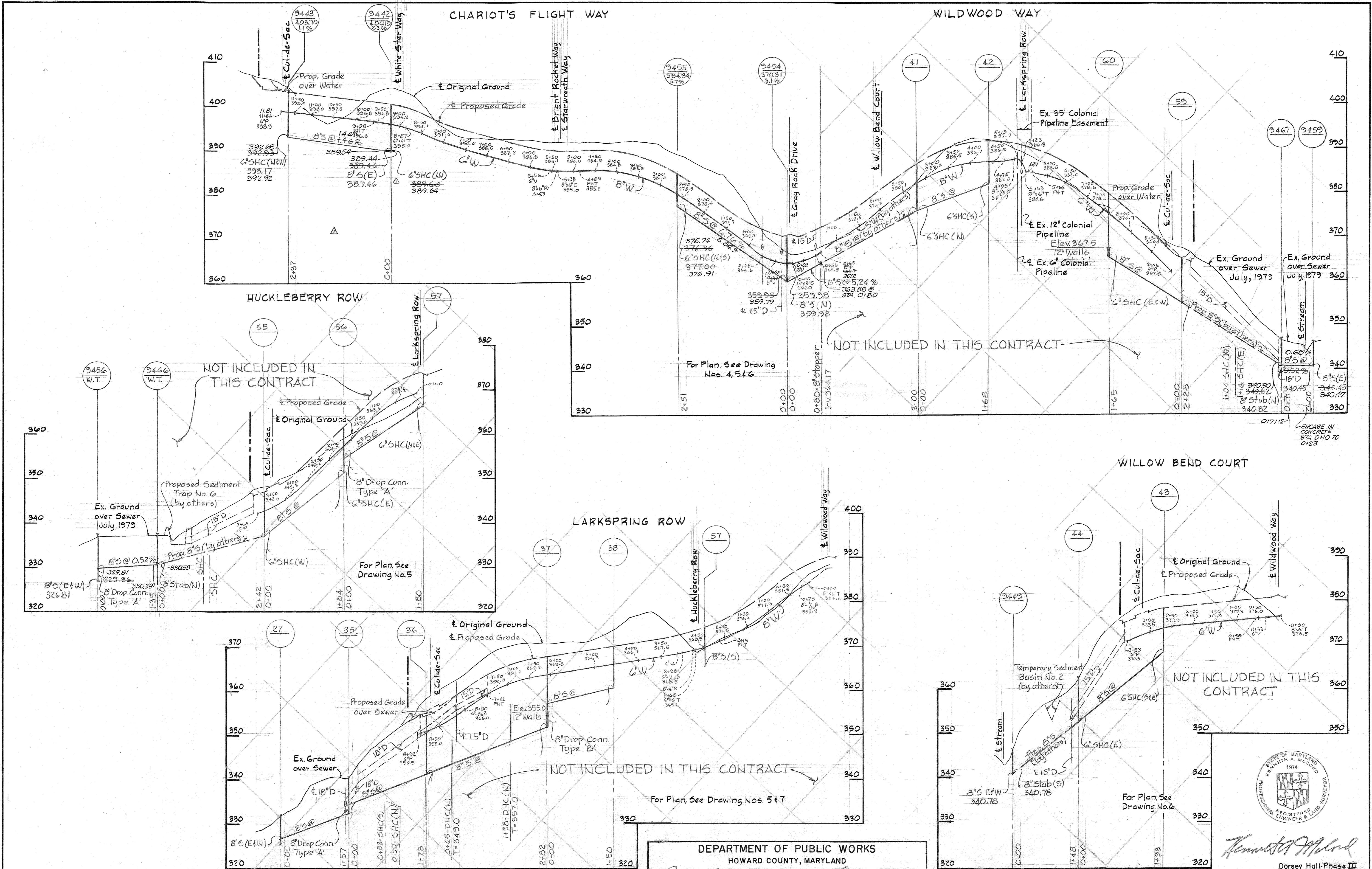
PROFILE OF
WATER & SEWER MAINS

ELECTION DISTRICT
ELLCOTT CITY NO. 2

DRAWING NO. 8 OF 11
SCALE H-1"=100 V-1"=10

W.O. 7423

May 5, 1980



No.	DATE	REVISIONS
1	3-2-80	Revised 8' in Chariot's Flight Way

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 James J. Glick, 12/1/79 CHIEF-BUREAU OF UTILITIES—DATE
 W. O. P. 2-6-80 CHIEF-BUREAU OF ENGINEERING—DATE

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 W. F. Nemmer, 1-7-80 DIRECTOR OF PUBLIC WORKS DATE

CONTRACT NO. 2884D-W8S

PROFILE OF
 WATER & SEWER MAINS

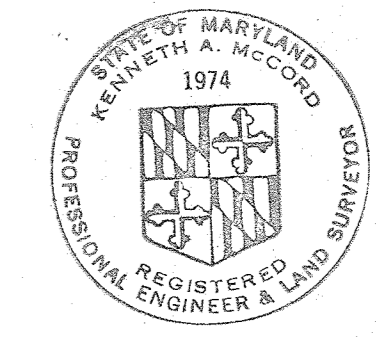
ELECTION DISTRICT
 ELLICOTT CITY NO. 2

DRAWING NO. 10 OF 11 SCALE H=1"=100 V=1"=10

W. O. 7423

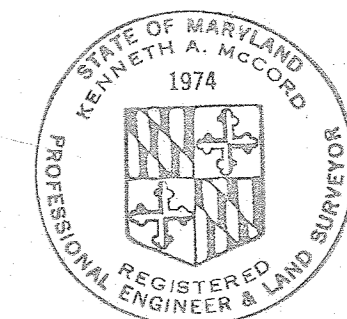
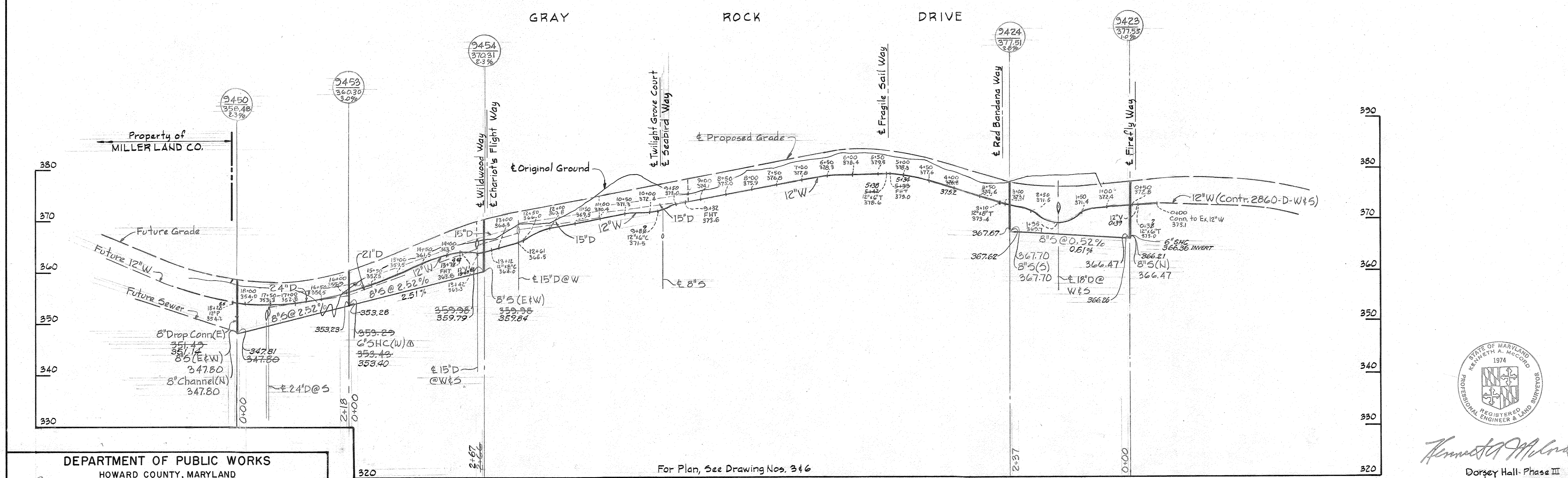
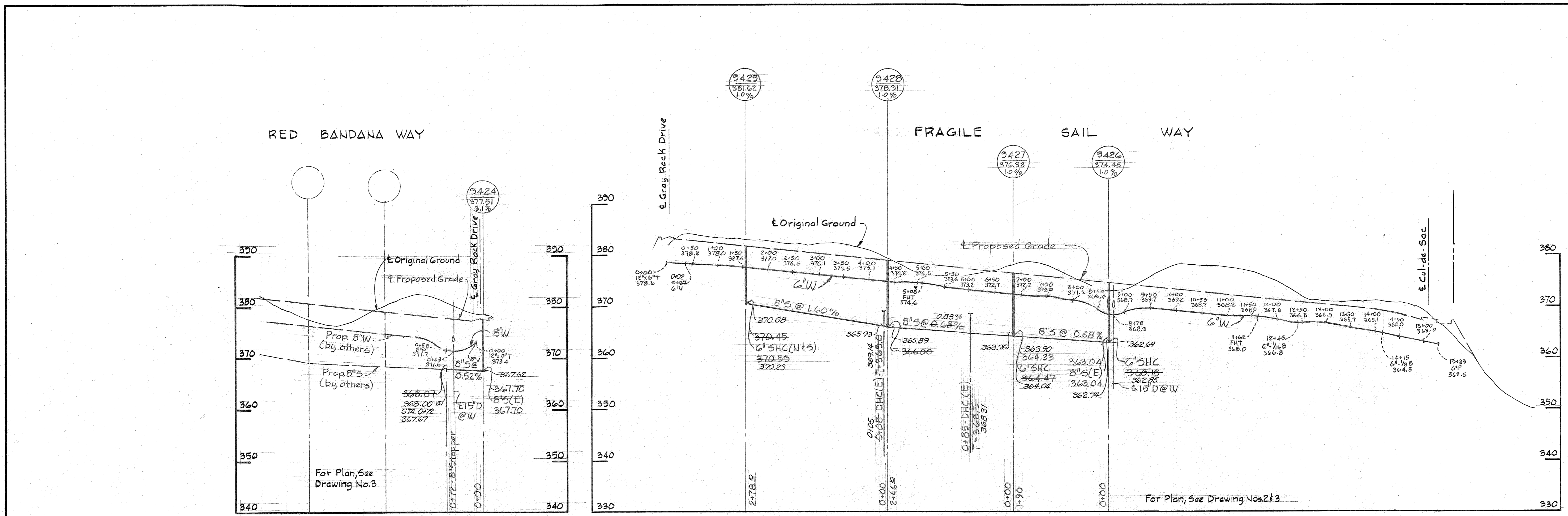
May 5, 1980

AS-BUILT AUG. 20, 1980



Kenneth A. McCord
 Registered Professional Engineer & Land Surveyor

Dorsey Hall-Phase III
 Section 1 Area 4
 Contract No. 2884D-W8S



Kenneth A. McLeod
 Dorsey Hall - Phase III
 Section I Area 4
 Contract No. 2884D-W45

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 James L. Ellis, 12/1/79
 CHIEF-BUREAU OF UTILITIES - DATE
 200 Kellard 2-6-80
 CHIEF-BUREAU OF ENGINEERING - DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Frank F. Neumann
 DIRECTOR OF PUBLIC WORKS
 2-7-80
 DATE

For Plan, See Drawing Nos. 346
 Δ 3-2-80
 No. DATE
 Revised SHC direction at MH 9453

PROFILE OF
 WATER & SEWER MAINS
 ELECTION DISTRICT
 ELLICOTT CITY NO. 2

DRAWING NO. 11 OF 11
 SCALE H=1"=10' V=1"=10'

W.O. 7423

May 5, 1980

AS-BUILT AUG. 20, 1980

WS 884-WS/11