

CONTRACT NO. 14-1976-D

ASHTON WOODS

WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

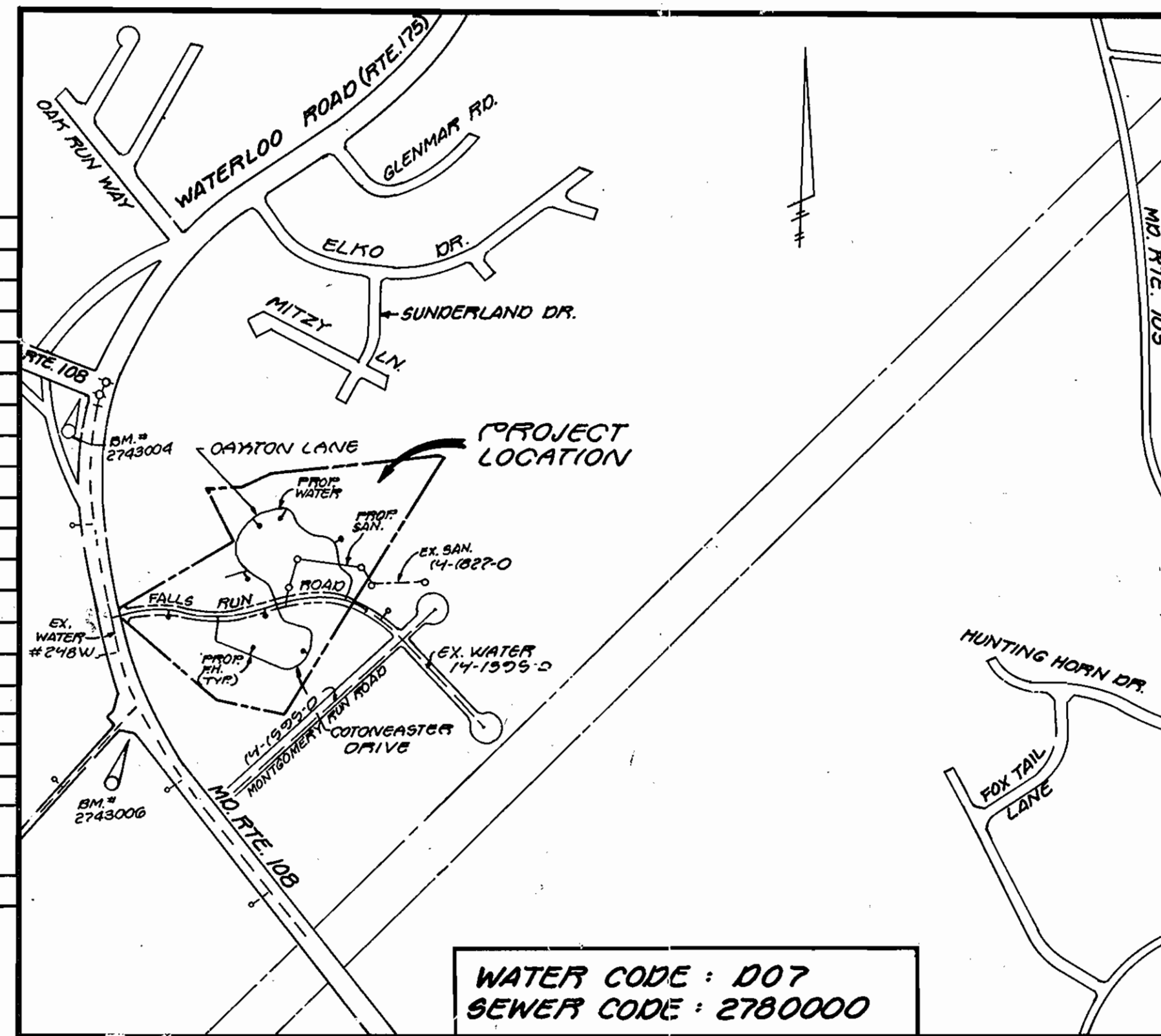
1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON THE MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. 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.
6. FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD CO. STANDARD SPECIFICATIONS, VOLUME II: 1987 AMENDMENTS.
7. FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD CO. STANDARD SPECIFICATIONS.
8. CONTRACTOR SHALL LOCATE EXISTING UTILITIES IN AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK. SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531 5533
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC - G85-0123
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS - G85-0123
 - ENGINEERING - "DAMAGE CONTROL" - 234-5621
 - "MISS UTILITY" - 1-999-0100
 - CHEESAPEAKE AND POTOMAC (C.F.P.) TELEPHONE COMPANY - 725-9571
 - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 393-3553
 - COLONIAL PIPELINE COMPANY - 705-1330
 - BUREAU OF UTILITIES HOWARD COUNTY - 992 2566
9. 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.
10. 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.
11. 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 OPERATIONS.
12. ALL WATER MAINS SHALL BE D.I.P. CL. 52, UNLESS OTHERWISE NOTED.
13. TOP OF ALL WATER MAINS SHALL HAVE MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
14. VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
15. BLOCK ALL FITTINGS WITH CONCRETE.
16. BURY 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 3701 AND 3705 OF THE STANDARD SPECIFICATIONS.
17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
18. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
19. ALL SEWER MAINS SHALL BE C.S.F.P., V.C.F.P., OR C.V.C. EQUIVALENT UNLESS OTHERWISE NOTED.
20. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
21. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
22. ALL D.I.C. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3" THROUGH 12" FOR WATER AND OTHER LIQUIDS.

NOTE: CONTRACTOR SHALL VERIFY QUANTITIES TO HIS OWN SATISFACTION PRIOR TO BIDDING.

QUANTITIES				
ITEM	EST'D	AS BUILT	SUPPLIER	MANUFACTURER
8" D.I.P. WATER	2280 LF.	2790 LF.	Belair Rd. Supplier	Griffin Pipe Prod.
12" D.I.P. "	1300 LF.	1200 LF.	"	"
4" D.I.P. "	140 LF.	1056 LF.	"	"
8" SEWER PVC	1348 LF.	497 LF.	"	J.M. Manufacturing
MANHOLES	8 EA.	8 EA.	Atlantic Conc. Prod.	Atlantic Conc. Prod.
FIRE HYD.	10 EA.	8 EA.	Belair Rd. Supplier	Mueller Co.
8" VALVES	6 EA.	7 EA.	"	"
4" VALVES	14 EA.	14 EA.	"	"
6" VALVES	10 EA.	7 EA.	"	"
8" X 6" TEE	10 EA.	9 EA.	"	Griffin Pipe Prod.
8" X 8" TEE	1 EA.	1 EA.	"	"
12" X 8" TEE	2 EA.	2 EA.	"	"
12" X 8" CROSS	1 EA.	1 EA.	"	"
8" X 4" TEE	14 EA.	14 EA.	"	"
3" BLOW-OFF	3 EA.	3 EA.	"	Mueller Co.
8" 1/2" H.B.	1 EA.	1 EA.	"	Griffin Pipe Prod.
8" 1/4" H.B.	7 EA.	11 EA.	"	"
8" 1/8" H.B.	10 EA.	14 EA.	"	"
12" X 12" TEE	1 EA.	1 EA.	"	Mueller Co.
5" GLOBE VALVE & ROADWAY BOX	1 EA.	1 EA.	"	Mueller Co.
6" D.I.P. WATER		92 LF.	"	Griffin Pipe Prod.

TYPE OF BUILDING: APARTMENTS
 NUMBER OF UNITS: 202
 NO. OF WATER HOUSE CONN.: 14
 NO. OF SEWER HOUSE CONN.: 7
 DRAINAGE AREA: DEEP RUN TO PATAPSCO

	SUPPLIER	MANUFACTURER
8" D.I.P. SEWER	Belair Rd. Supplier	Griffin Pipe Prod.
6" D.I.P. SEWER	"	"
12" X 6" TEE	"	"
12" VALVES	"	Mueller Co.



WATER CODE: 007
 SEWER CODE: 2780000

VICINITY MAP
 SCALE: 1" = 600'

SHEET INDEX	
SHT. No.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PLAN
4	WATER PROFILE - FALLS RUN ROAD
5	WATER PROFILE - ASHTON LANE
6	WATER PROFILE - COTONEASTER DRIVE
7	SANITARY SEWER PROFILE & DETAILS

PLAN REFERENCE NUMBER: SDP-89-254

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, SDP-89-254 & ROAD CONSTRUCTION DWGS. (F-90-11)

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

[Signature] 11-29-89
 SOIL CONSERVATION SERVICE DATE

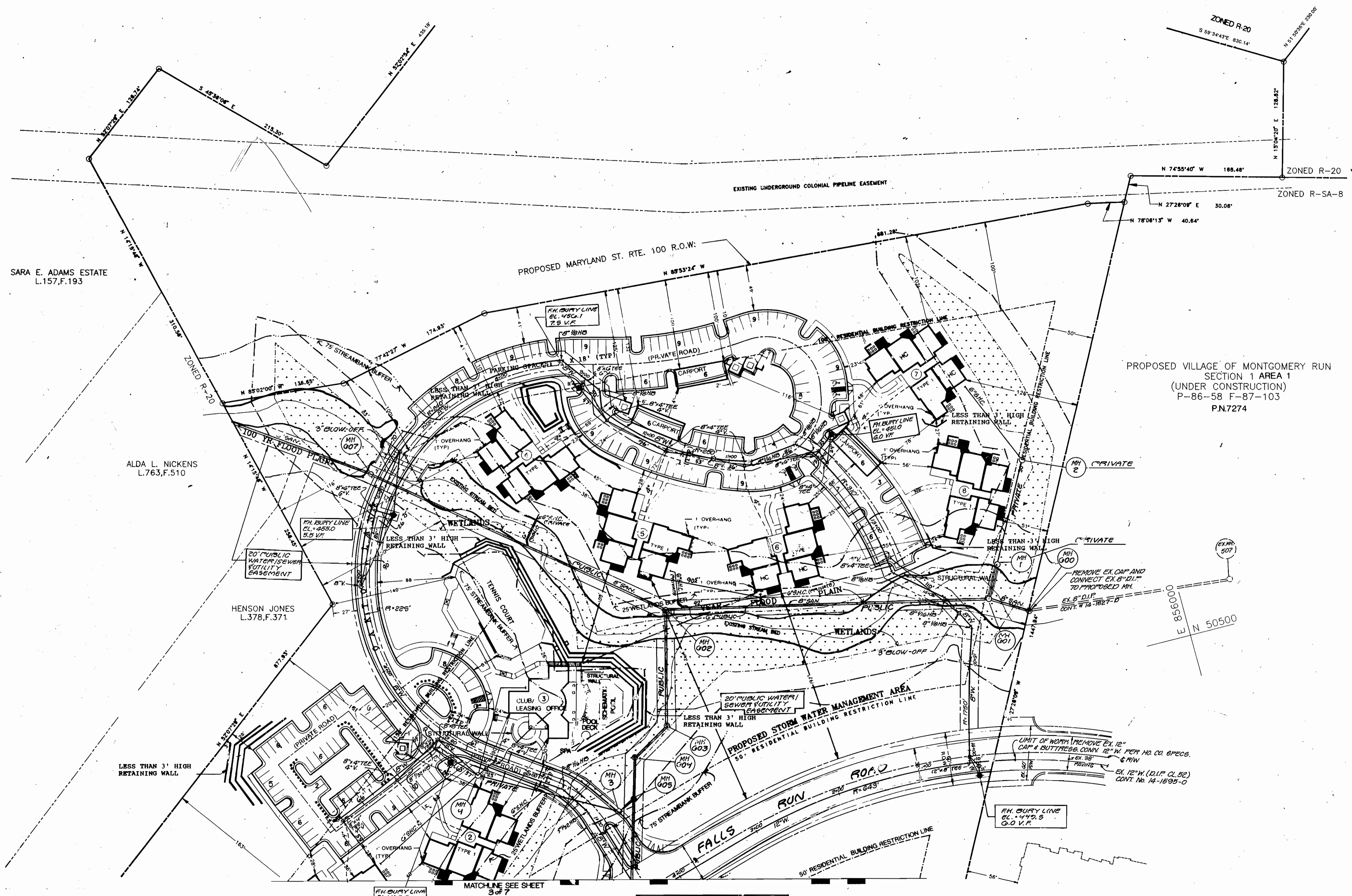
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY
 HOWARD SOIL CONSERVATION DISTRICT.

APPROVED
[Signature] 11/29/89
 HOWARD SOIL CONSERVATION DISTRICT DATE

BENCHMARKS:
 HOWARD CO. B.M. No. 2743006
 CONC. MON. 0.1' BELOW SURFACE AT
 TOP OF BANK W. SIDE OF RT. 108, 100' ±
 S. OF 100/18 P.C.
 HOWARD CO. B.M. No. 2743004
 3/4" REBAR 0.1' BELOW SURFACE
 15' ± FROM B.M. COR. OF EDGE
 0' RT. 108 & 0.10 RT. 175.

CONT. NO. 14-1976-D

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 12/1/89 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>[Signature]</i> 11-27-89 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>STV/LYON ASSOCIATES. ENGINEERS, ARCHITECTS & PLANNERS.</p> <p>21 GOVERNOR'S COURT BALTIMORE, MARYLAND 21207-2722 301-944-9112</p> <p><i>[Signature]</i> 11/29/89 PROFESSIONAL ENGINEER</p>	<p>OWNER / DEVELOPER SUMMIT PROPERTIES 203 KEY HIGHWAY BALTIMORE, MARYLAND 21230 301-234-0070</p>	<p>TITLE SHEET</p> <p>ASHTON WOODS</p> <p>1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP No. 31 PARCEL No. 432</p>
<p>DATE: 6/27/85</p>		<p>REVISION</p>	



PROPOSED VILLAGE OF MONTGOMERY RUN
SECTION 1 AREA 1
(UNDER CONSTRUCTION)
P-86-58 F-87-103
P.N.7274

ALL WATER HOUSE CONNECTIONS
ARE FOR INSIDE METERS.

CONT. NO. 14-1976-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. ... 12/1/89
DIRECTOR OF PUBLIC WORKS DATE

Robert V. ... 11/27/89
CHIEF, BUREAU OF UTILITIES DATE

William S. ... 11/30/89
CHIEF, BUREAU OF ENGINEERING DATE

Paul ... 11/30/89
CHIEF, LAND DEVELOPMENT DIVISION DATE

STV/LYON ASSOCIATES.
ENGINEERS, ARCHITECTS & PLANNERS.

21 GUYLOR'S COURT
BALTIMORE, MARYLAND 21207-2722
301.944.9110



DATE	BY	NO.	REVISION
12/1/89	E.A.G.	1	REV. PER 8-14-89 COMMENTS
	E.A.S.	2	REV. PER 8-18-89 COMMENTS
	W.H.C.	3	" " 10-19-89
	E.A.S.	4	" " 11-20-89
	T.L.S.	5	8/6/90

OWNER/DEVELOPER
SUMMIT PROPERTIES
203 KEY HIGHWAY
BALTIMORE, MARYLAND 21230
301-234-0074

WATER & SEWER PLAN

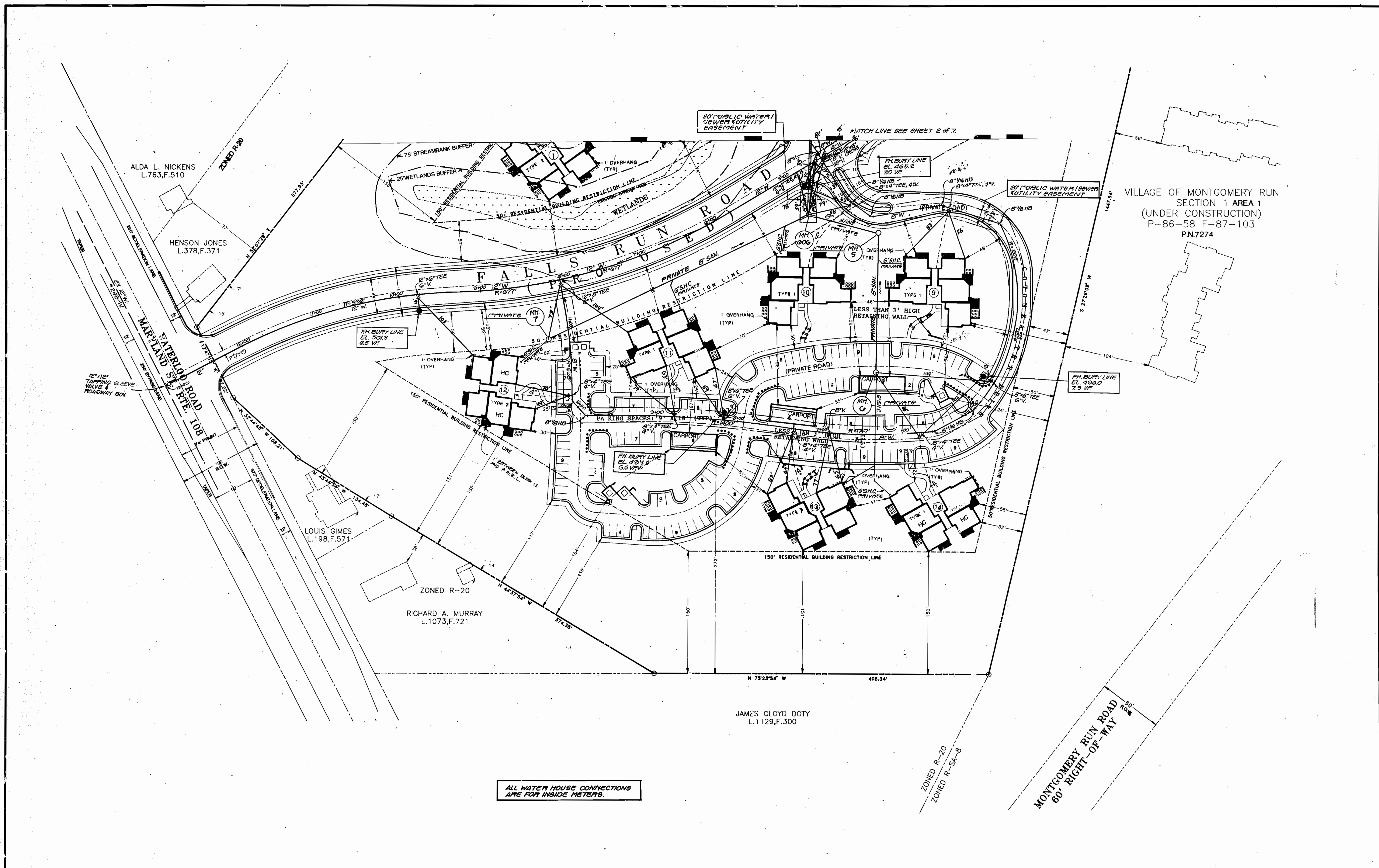
ASHTON WOODS

2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP NO. 31 PARCEL NO. 432

AS-BUILT 3-13-91

SCALE
AS SHOWN

SHEET
2 of 7



VILLAGE OF MONTGOMERY RUN
SECTION 1 AREA 1
(UNDER CONSTRUCTION)
P-86-58 F-87-103
P.N.7274

ALL WATER HOUSE CONNECTIONS
ARE FOR INSIDE METERS.

CONT. NO. 14-1976-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James W. Smith 12/1/89
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Dennis 11-27-89
CHIEF, BUREAU OF UTILITIES DATE

William B. Riley 11-20-89
CHIEF, BUREAU OF ENGINEERING DATE

Donald E. Ryan 11/30/89
CHIEF, LAND DEVELOPMENT DIVISION DATE

STV/LYON ASSOCIATES.
ENGINEERS, ARCHITECTS & PLANNERS.

21 GOVERNOR'S COURT
BALTIMORE, MARYLAND 21207-2722
301-844-9112

Professional Engineer Seal

DES: E.A.S.	E.A.S. 1	REV. PER 8-14-89 COMMENTS
E.A.S. C	E.A.S. 2	REV. PER 9-10-89 COMMENTS
DRN: E.A.S.	E.A.S. 3	" " 1-10-89
CHK: P.C.F.	T.L.S. 4	8/6/90
DATE: 6/27/89	BY NO.	REVISION

OWNER/DEVELOPER
SUMMIT PROPERTIES
203 KEY HIGHWAY
BALTIMORE, MARLAND 21230
301-234-0074

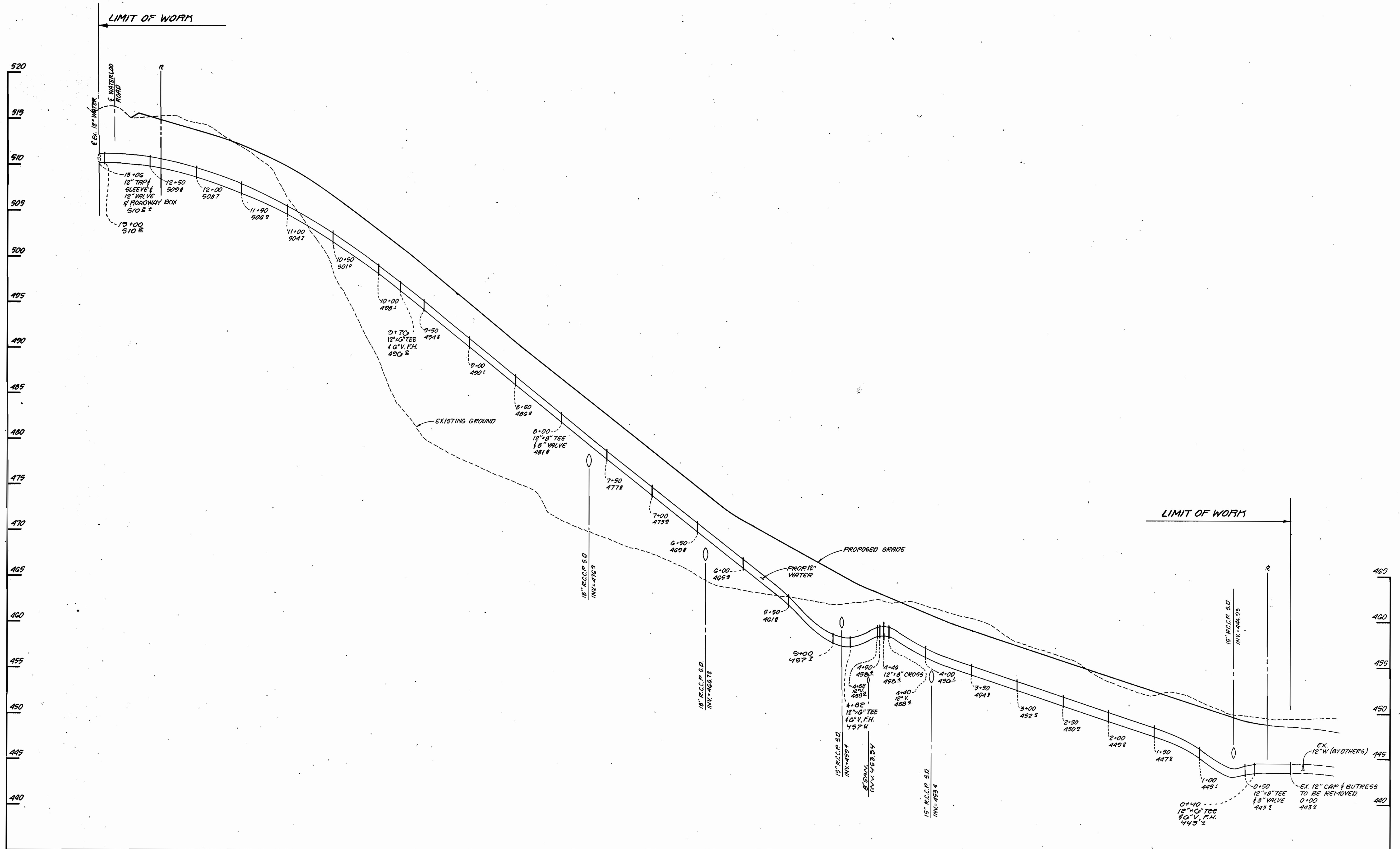
WATER & SEWER PLAN

ASHTON WOODS

2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP NO. 31 PARCEL NO. 432

SCALE AS SHOWN
SHEET 3 of 7

AS-BUILT 3-13-91



FALLS RUN ROAD
 SCALE: 1" = 50' HOR.
 1" = 5' VERT.

CONT. NO. 14 - 1976 - D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Shan 12/1/89
 DIRECTOR OF PUBLIC WORKS DATE

William E. P. ... 11/30/89
 CHIEF, BUREAU OF ENGINEERING DATE

Robert ... 11/27/89
 CHIEF, BUREAU OF UTILITIES DATE

... 11/30/89
 CHIEF, LAND DEVELOPMENT DIVISION DATE

STV/LYON ASSOCIATES.
 ENGINEERS, ARCHITECTS & PLANNERS.

21 GOVERNOR'S COURT
 BALTIMORE, MARYLAND 21207-2722
 301-944-9112



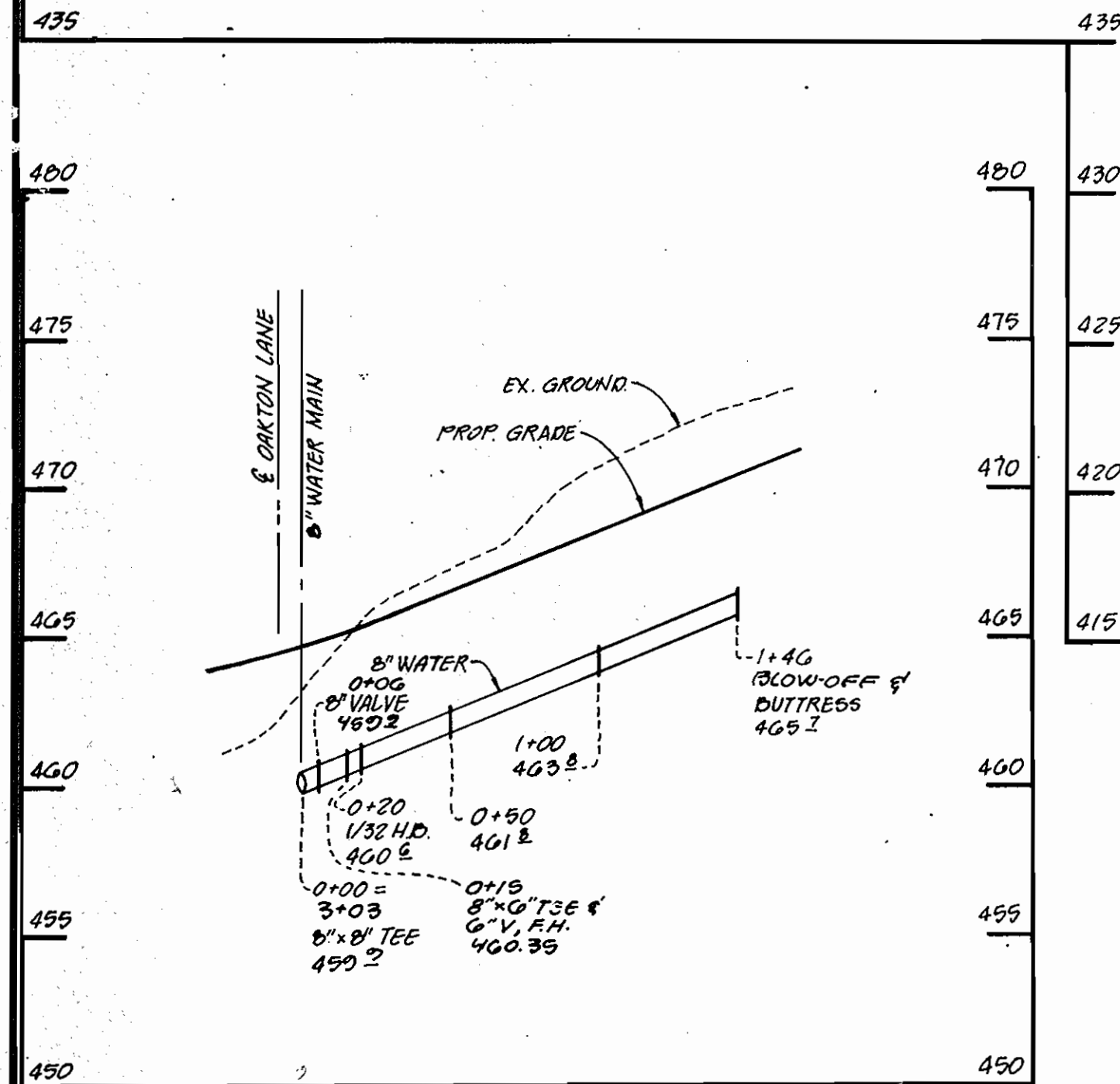
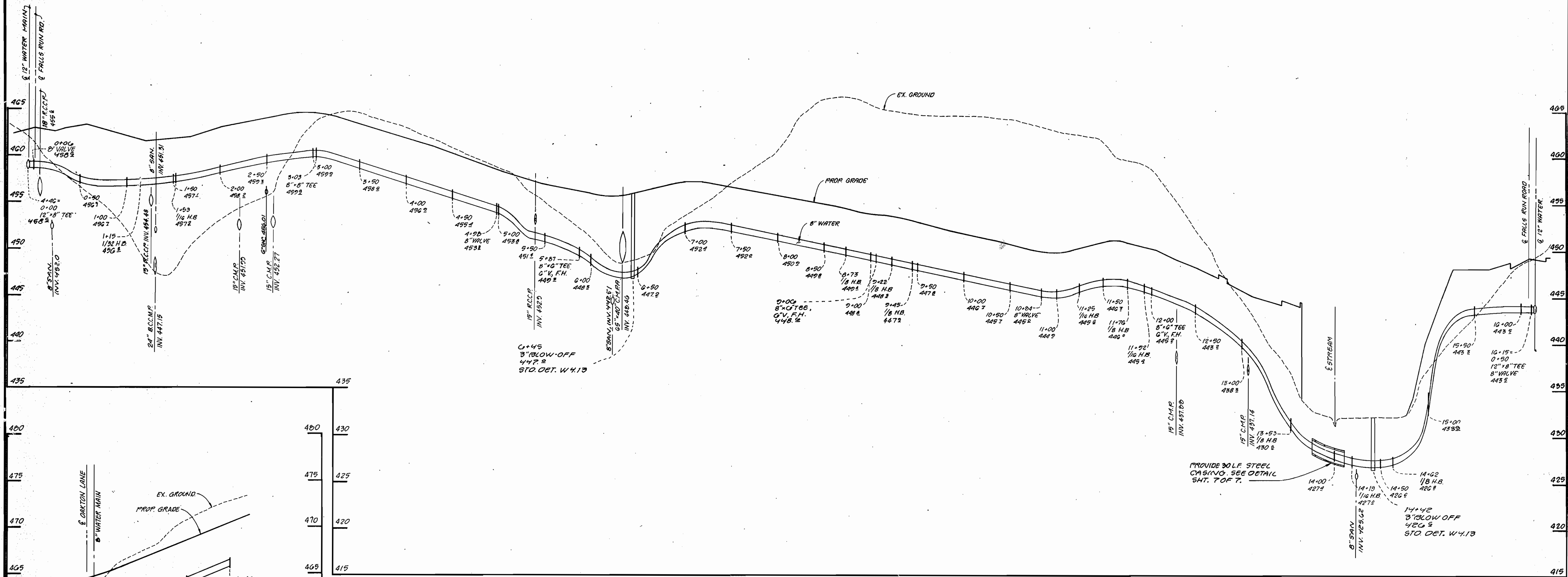
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DRN: W.K.C.	TLB 3	B/G 190
CHK: P.C.R.		
DATE: 6/27/89	BY NO.	REVISION

OWNER / DEVELOPER
 SUMMIT PROPERTIES
 203 KEY HIGHWAY
 BALTIMORE, MARYLAND 21230
 301 - 234 - 0070

WATER PROFILE - FALLS RUN ROAD

ASHTON WOODS
 1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 31 PARCEL No. 432

SCALE AS SHOWN
 SHEET 4 of 7



OAKTON LANE
SCALE: 1"=50' HOR.
1"=5' VERT.

OAKTON LANE
SCALE: 1"=50' HOR.
1"=5' VERT.

CONT. NO. 14-1976-D

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND			
<i>[Signature]</i> DIRECTOR OF PUBLIC WORKS	12/1/89 DATE	<i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING	11/30/89 DATE
<i>[Signature]</i> CHIEF, BUREAU OF UTILITIES	11-27-89 DATE	<i>[Signature]</i> CHIEF, LAND DEVELOPMENT DIVISION	11/30/89 DATE

STV/LYON ASSOCIATES.
ENGINEERS, ARCHITECTS & PLANNERS.

21 GUYMONS COURT
BALTIMORE, MARYLAND 21201-2122
301-944-9112

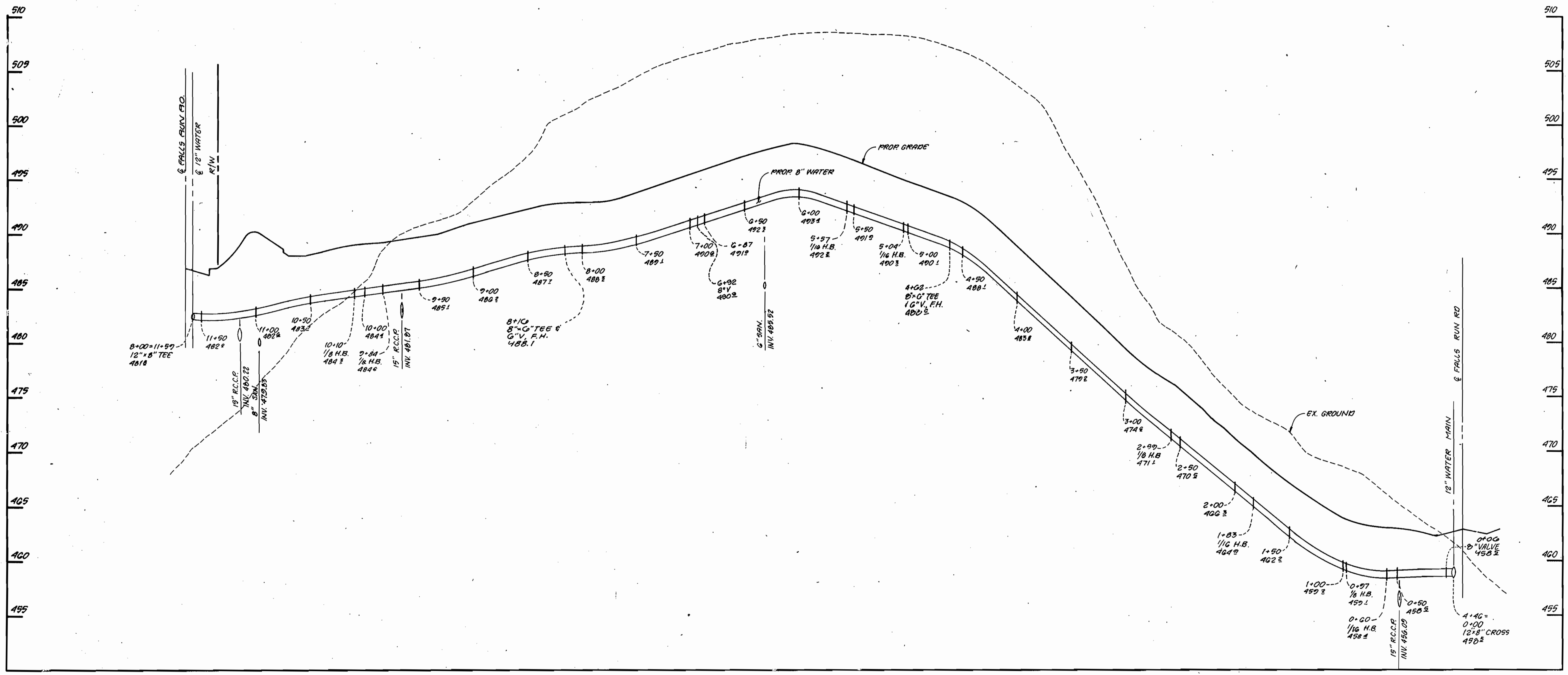
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	E.A.S. 2	REV. PER 9-18-88 COMMENTS	
DRN: W.K.C.	W.K.C. 3	REV. PER 4-4-90 COMMENTS	5/1/90
CHK: P.C.R.			
DATE: 6/27/89	BY	NO.	REVISION

OWNER / DEVELOPER
SUMMIT PROPERTIES
203 KEY HIGHWAY
BALTIMORE, MARYLAND 21230
301-234-0070

WATER PROFILE- OAKTON LANE

ASHTON WOODS
1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP No.31 PARCEL No. 432

SCALE AS SHOWN
SHEET 5 of 7



COTONEASTER DRIVE
 SCALE: 1" = 50' HOR.
 1" = 5' VERT.

CONT. NO. 14-1976-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

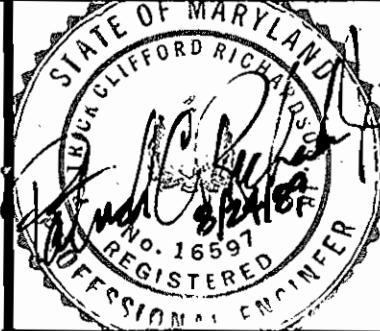
James H. [Signature] 12/1/89
 DIRECTOR OF PUBLIC WORKS DATE

Robert W. [Signature] 11/27/89
 CHIEF, BUREAU OF UTILITIES DATE

Richard [Signature] 11/30/89
 CHIEF, LAND DEVELOPMENT DIVISION DATE

STV/LYON ASSOCIATES.
 ENGINEERS, ARCHITECTS & PLANNERS.

21 GOVERNOR'S COURT
 BALTIMORE, MARYLAND 21207-2722
 301-944-9112



DES: E.A.S.	E.A.S. 1	REVISED PER 8-14-80 COMMENTS	
DRN: W.K.C.	E.A.S. 2	REVISED PER 8-18-80 COMMENTS	
CHK: P.C.R.	T.L.S. 3	REVISED PER 4-4-90 COMMENTS	5/1/90
DATE: 6/27/89	BY NO.	REVISION	

OWNER / DEVELOPER
 SUMMIT PROPERTIES
 203 KEY HIGHWAY
 BALTIMORE, MARYLAND 21230
 301-234-0070

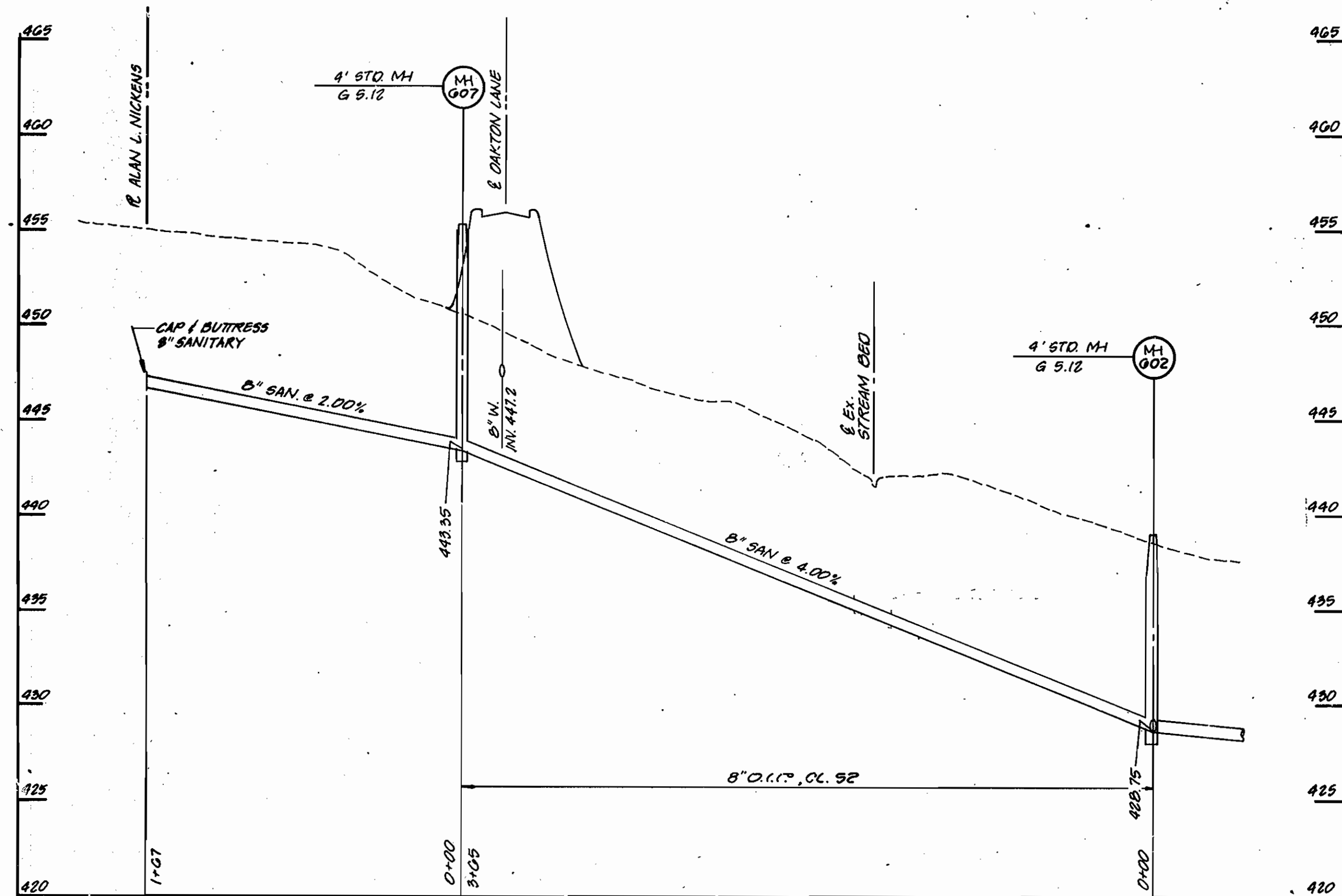
WATER PROFILE-- COTONEASTER DRIVE

ASHTON WOODS

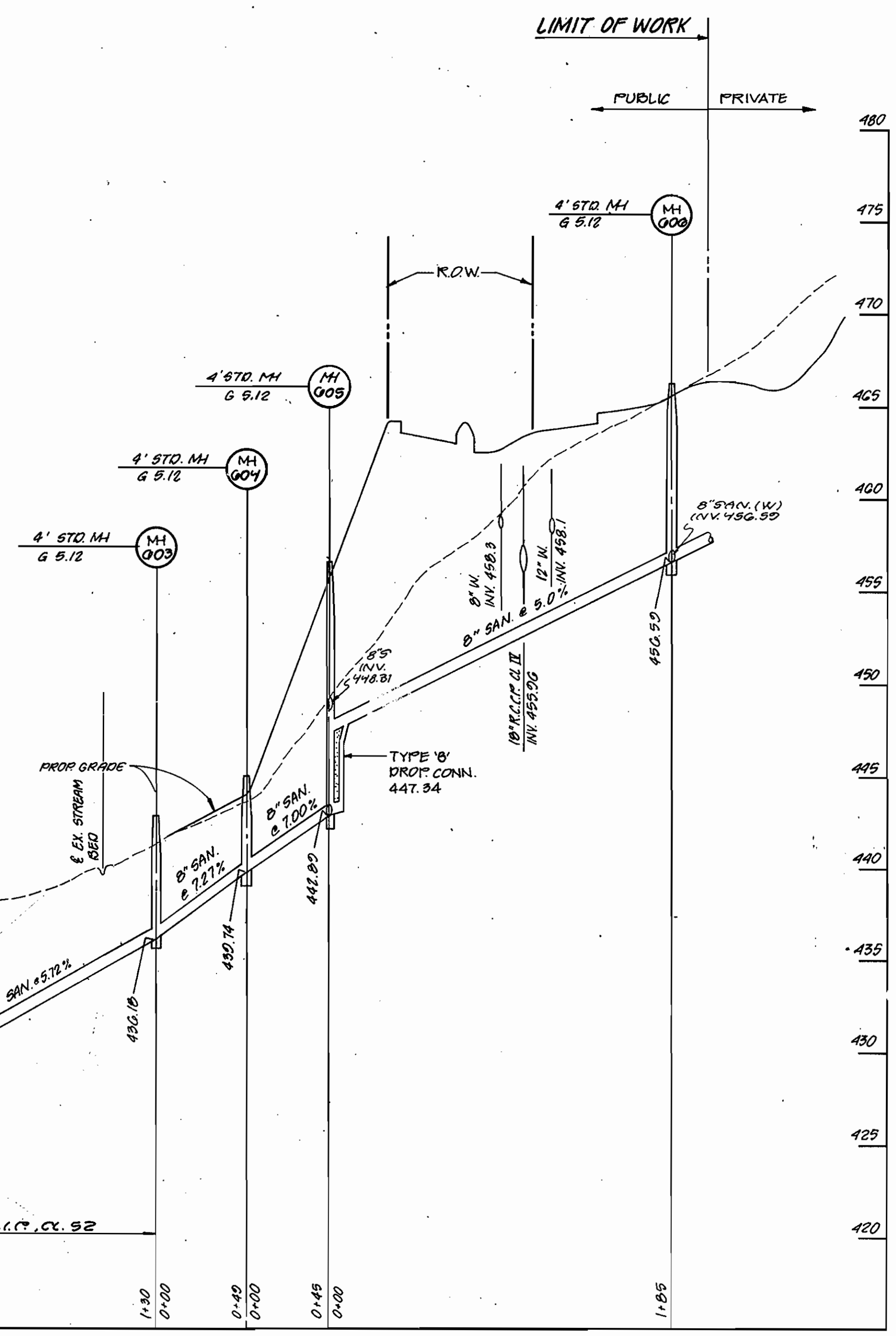
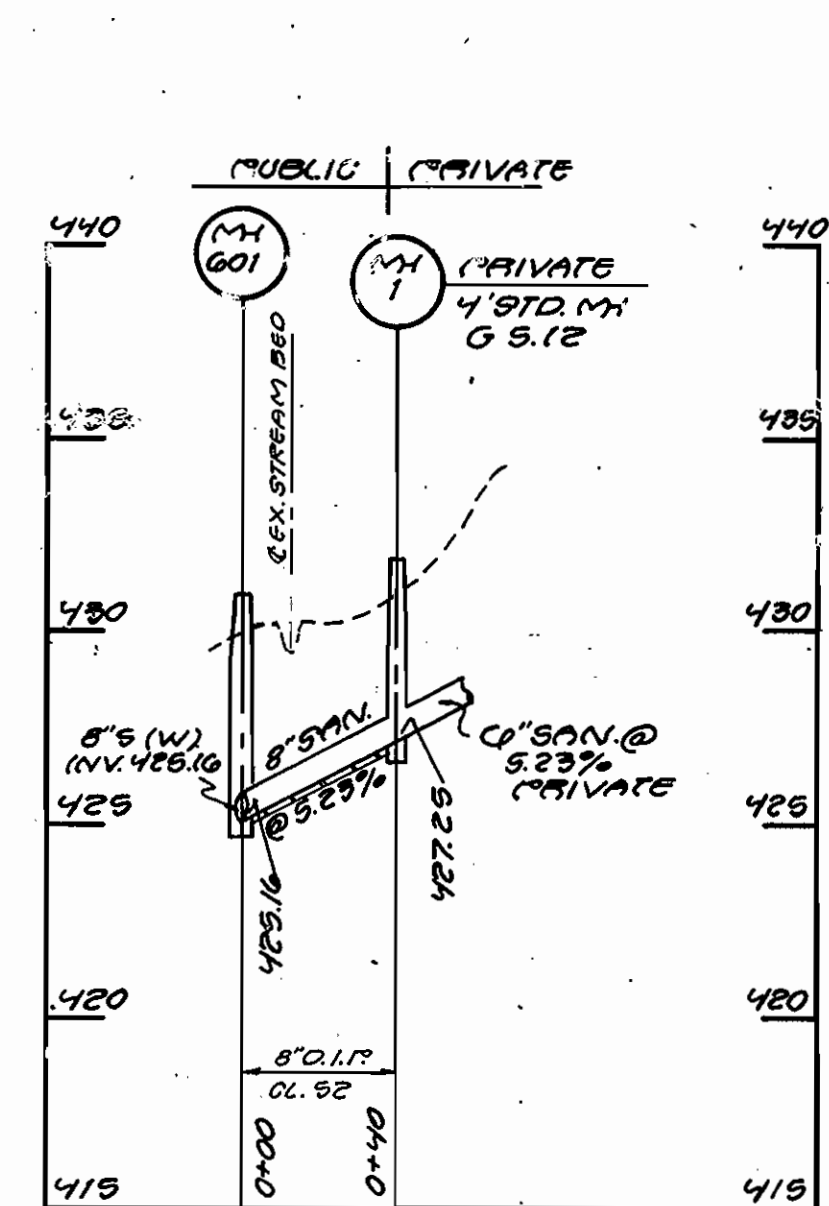
1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 31 PARCEL No. 432

SCALE AS SHOWN

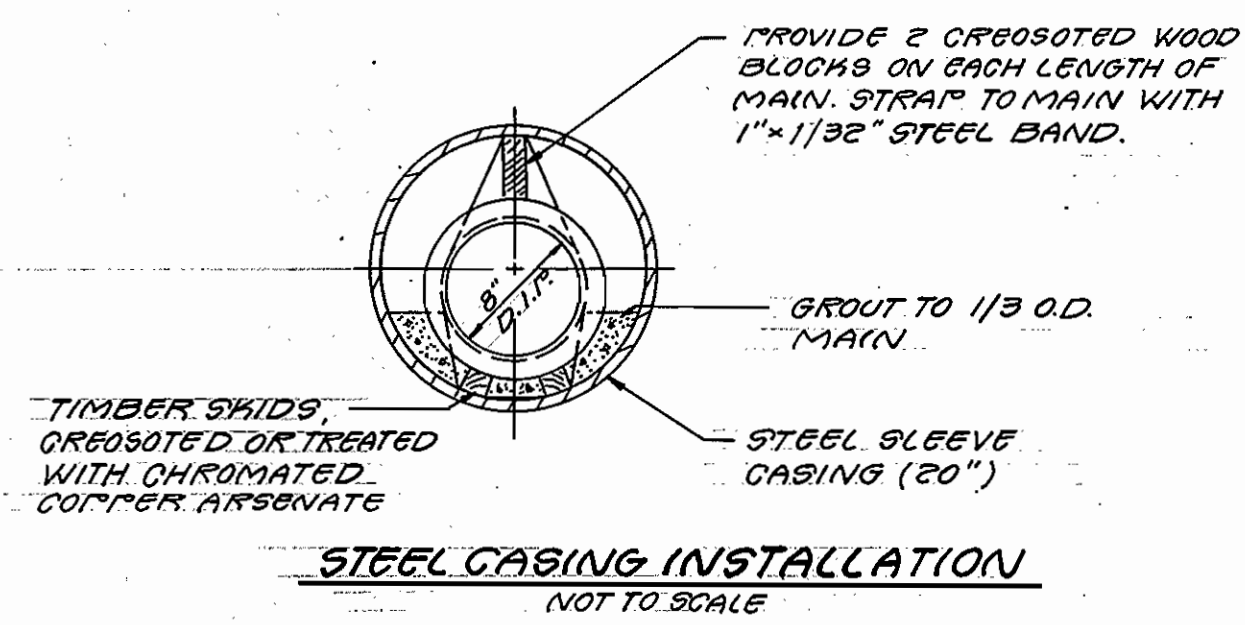
SHEET 6 of 7



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



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



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James H. [Signature] 12/1/89
DIRECTOR OF PUBLIC WORKS DATE

Robert M. [Signature] 11/27/89
CHIEF BUREAU OF UTILITIES DATE

Richard E. [Signature] 11/30/89
CHIEF LAND DEVELOPMENT DIVISION DATE

STV/LYON ASSOCIATES.
ENGINEERS, ARCHITECTS & PLANNERS.

21 GOVERNOR'S COURT
BALTIMORE, MARYLAND 21207-2722
301-944-9112



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E.A.S. 2	REVISED PER 7-18-80 COMMENTS	
DRN: W.K.C.	E.A.S. 3	" " 10-10-80
E.A.S. 4	" " 11-20-80	
CHK: P.C.R.	T.L.S. 5	8/6/90
DATE: 6/27/89	BY NO.	REVISION

OWNER / DEVELOPER
SUMMIT PROPERTIES
203 KEY HIGHWAY
BALTIMORE, MARYLAND 21230
301-234-0070

SANITARY SEWER PROFILE AND DETAILS

ASHTON WOODS
1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP No. 31 PARCEL No. 432

SCALE AS SHOWN
SHEET 7 of 7