QUANTITIES							
ITEM	QUANTITIES ESTIMATED	LOT A-10	LOT A-11	LOT A-12			
8" WATER	1015'	465'	550'				
6" WATER	119′	17'	15'	87'			
6" VALVES	4	1	2	1			
8" x 6" TEE	3	1	2				
8" CAP	3	1	2				
8" 1/8BEND	4	3	1				
FIRE HYDRANT	4	1	2				
8" SLEEVE & SPACER	2	1	1				
8" VALYE	3	1	2				
12" x 6" TAP. SLEEVE	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	١			
12" x 8" TAP. SLEEVE	,		1				
NAME OF UTIL	TY CONTRACT	OR					
SURVEY AND E	DRAFTING DIV	SION AS-BUI	LT DATE				

CONTRACT NO. 44-3914-D

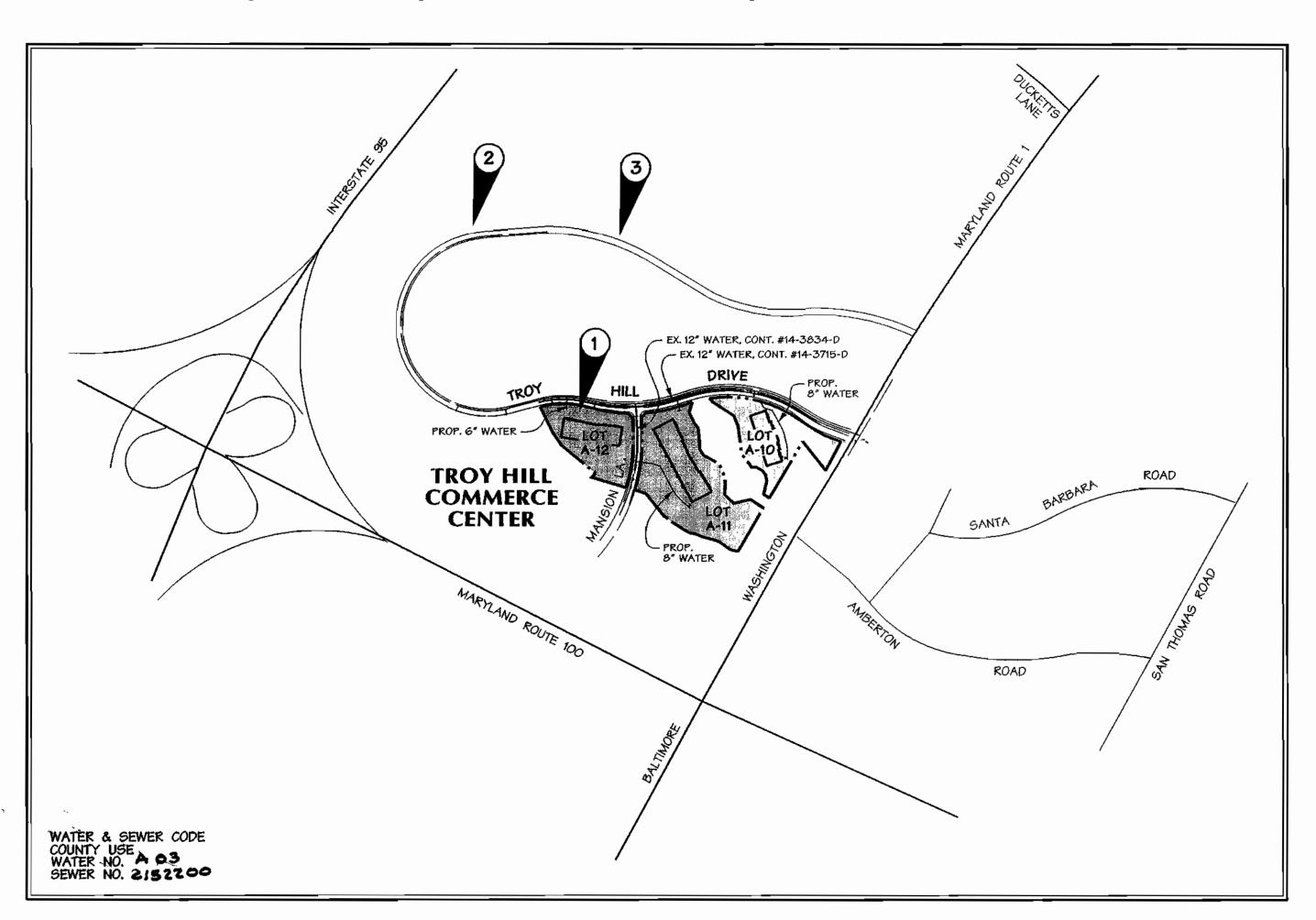
TROY HILL COMMERCE CENTER

Lots A-10, A-11, and A-12

WATER CONSTRUCTION PLANS

Howard County, Maryland

Department of Public Works



SHEET INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	WATER PLAN - LOT A-10
3	WATER PLAN - LOT A-11
4	WATER PROFILES - LOTS A-10 AND A-11

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

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

(COORDINATES BASED ON NAD27, AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS No. 2445004 AND No. 2445005.)

SCALE: 1"=600'

TYPE OF BUILDINGS:	FLEX-WAREHOL
NO. OF LOTS / PARCELS	3
NO. OF WATER CONNECTIONS:	3
NO. OF SEWER CONNECTIONS:	3
DRAINAGE AREA:	SHALLOW RU
TREATMENT PLANT:	
PATAPSCO	

VICINITY MAP

TROY HILL BUSINESS PARK PARTNERSHIP

OWNER / APPLICANT

CIO MANEKIN CORPORATION

COLUMBIA, MARYLAND 21046

BENCHMARK No. 1

DESCRIPTION

IRON PIN 1066

ELEV. 175.92

N 496501.3597 E 869134.4576

BENCHMARK No. 2

DESCRIPTION

IRON PIN 1061

ELEV. 242.49

N 498036.6945 E 868791.1502

BENCHMARK No. 3

DESCRIPTION

IRON PIN 1034

ELEV. 214.85 N 497636.7437 E 869835.6586

> SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP 01-30

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

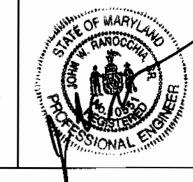
AND MEETS TECHNICAL REQUIREMENT

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND



Landscape Architects, Golf Course Architects, Towson, Maryland 21286 (410) 296-3333 Engineers, Surveyors &



DESIGN BY:					
DFM					
DRAWN BY:					
MSS					TITLE
CHECKED BY:					
oneoneo on					
DATE:					
8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. 37

TITLE SHEET

BLOCK NO. 18

Troy Hill Commerce Center

Lots A-10, A-11, and A-12

GENERAL NOTES

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to

2. All horizontal controls are based on Maryland state coordinates. [North American Datum of 1983(NAD 83)]

3. All vertical controls are based on U.S.G.S. data. 4. All pipe elevations shown are invert elevations.

poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the

of construction operations at his own expense.

8. Contractor shall notify the following utility companies or agencies at least five working days before starting work

BG&E CO. Under Ground Damage Control Miss Utility 1-800-257-7777

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the

construction strip are not to be removed or damaged by the

10. Contractor shall remove trees, stumps, and roots along

included in the unit price bid for construction of the main.

howard County, at (410) 513-2450 at least five working as before any open cut of any county road or boring/jacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 18.114(A) of the Howard County code.

11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days

1. All water main to be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains to have a minimum of 3-1/2' cover

3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete

lin accordance with the standard details unless otherwise provided for on the drawings.

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and

buttressed with concrete in accordance with standard details. Soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the standard

6. The contractor shall not operate any water main valves

7. All water house connections shall be for inside meter

8. Sprinkler system for all townhomes or multi-family

dwelling units should have a minimum of 1" connection with a 3/4" meter. Twin house connections will be 1 1/2" from

2. All manholes shall be 4'-0" inside diameter unless otherwise

3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick

5. Manholes designated W.T. in plan and profile shall have

watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on

6. House(s) with the symbol "C.N.S." indicates that cellar

watertight frame and covers, standard detall G5.52. Where

setting unless otherwise noted on plans or in

1. All sewer mains shall be DIP AND P.Y.C.

line of excavation. Payment for such removal shall be

Howard County Department of Public Works
Bureau of Utilities

State Highway Administration BG&E CO. Contractor Services

Colonial Pipeline CO. 795-1390

the contractor's expense.

shown on these plans:

PART II - WATER

specifications.

specifications.

main to "Y" fitting.

PART III - SEWER

unless otherwise noted.

unless otherwise noted.

on the existing water system.

protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the engineer at

minimum or tunnel as required. The owner has contracted the utility companies and has made arrangements for

bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional

6. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a

copy of Volume IV on the job.
7. 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 located by the contractor two weeks in advance

5. Clear all utilities by a minimum of 6". Clear all poles by 2' - 0"

Election District No. 1 Howard County, Maryland

CONTRACT NO. 44-3914-D

Thu Oct 12 11:08:04 2000 n:\99058\99058.wt

SCALE:

As Shown

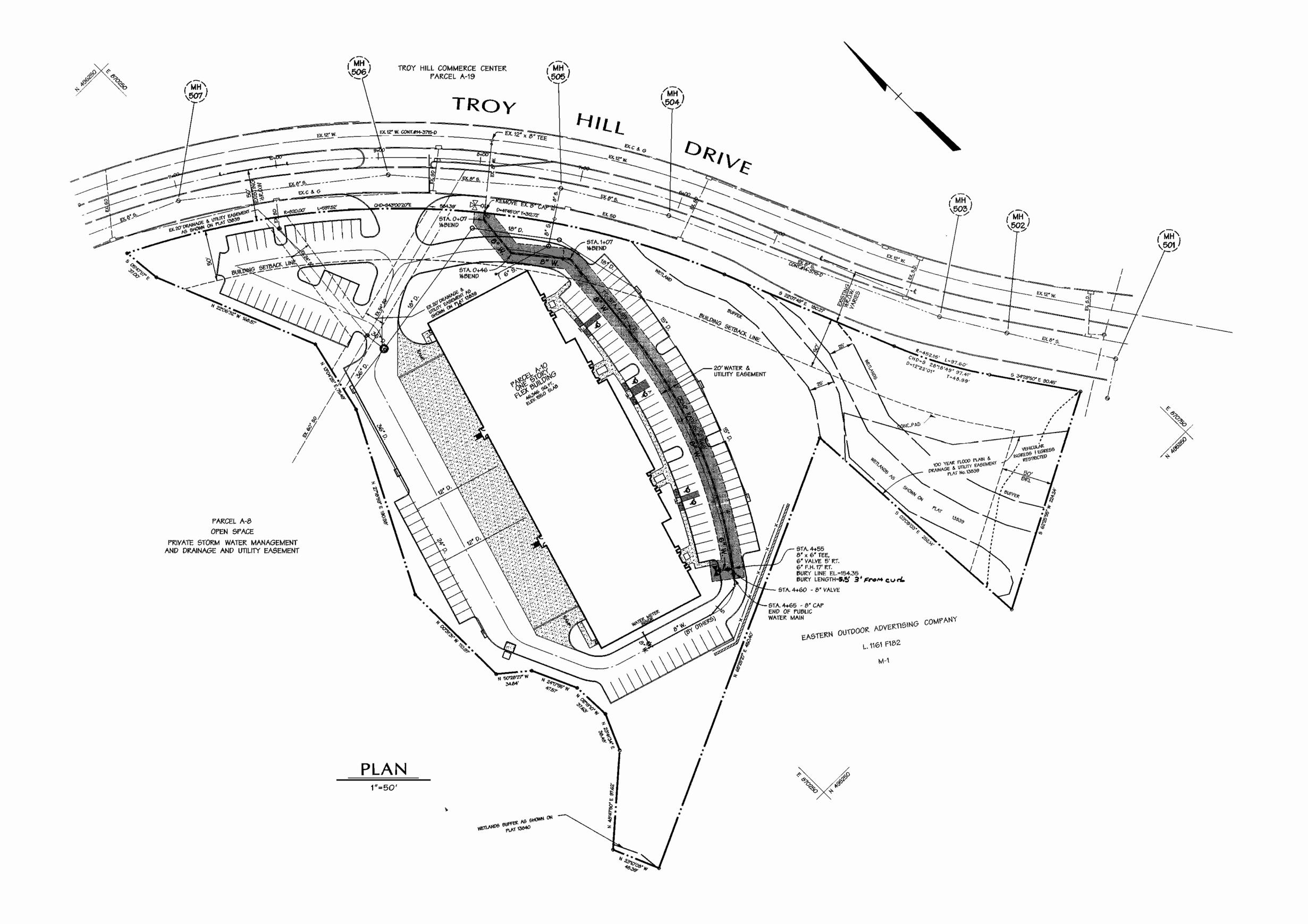
SHEET

850-4620

795-1390

787-9068 1-800-257-7777

OIZVOO 11:07:58 AM //PDCNTSERV/MSTATION/CADNETN/OCF/day.qcf Mark Smith c:/hpm/Wi.hpm



WATER MA	IN STRU	JCTURE S	CHEDULE
ITEMS	COOR!	DINATES EAST	STATION
8" 1/8 BEND	495,882.1	870,411.5	0+07
8" 1/8 BEND	495,840.2	870,407.4	0+46
8" 1/8 BEND	495,795.5	870,444.1	1+07
PC 8" WATER	495,704.3	870,435.1	1+99
8" x 6" TEE	495,468.1	870,342.3	4+55
8" CAP			4+65
8" YALVE	495,464.2	870,339.2	4+60
6" YALYE	495,471.2	870,338.3	
6" FIRE HYDRANT	495,478.4	870,328.9	

CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296–3333 Fax 296–4705

MSS CHECKED BY: 8/22/00 BY NO.

DATE 600 SCALE MAP NO. 37 REVISION

WATER PLAN

BLOCK NO. 18

Troy Hill Commerce Center Lot A-10

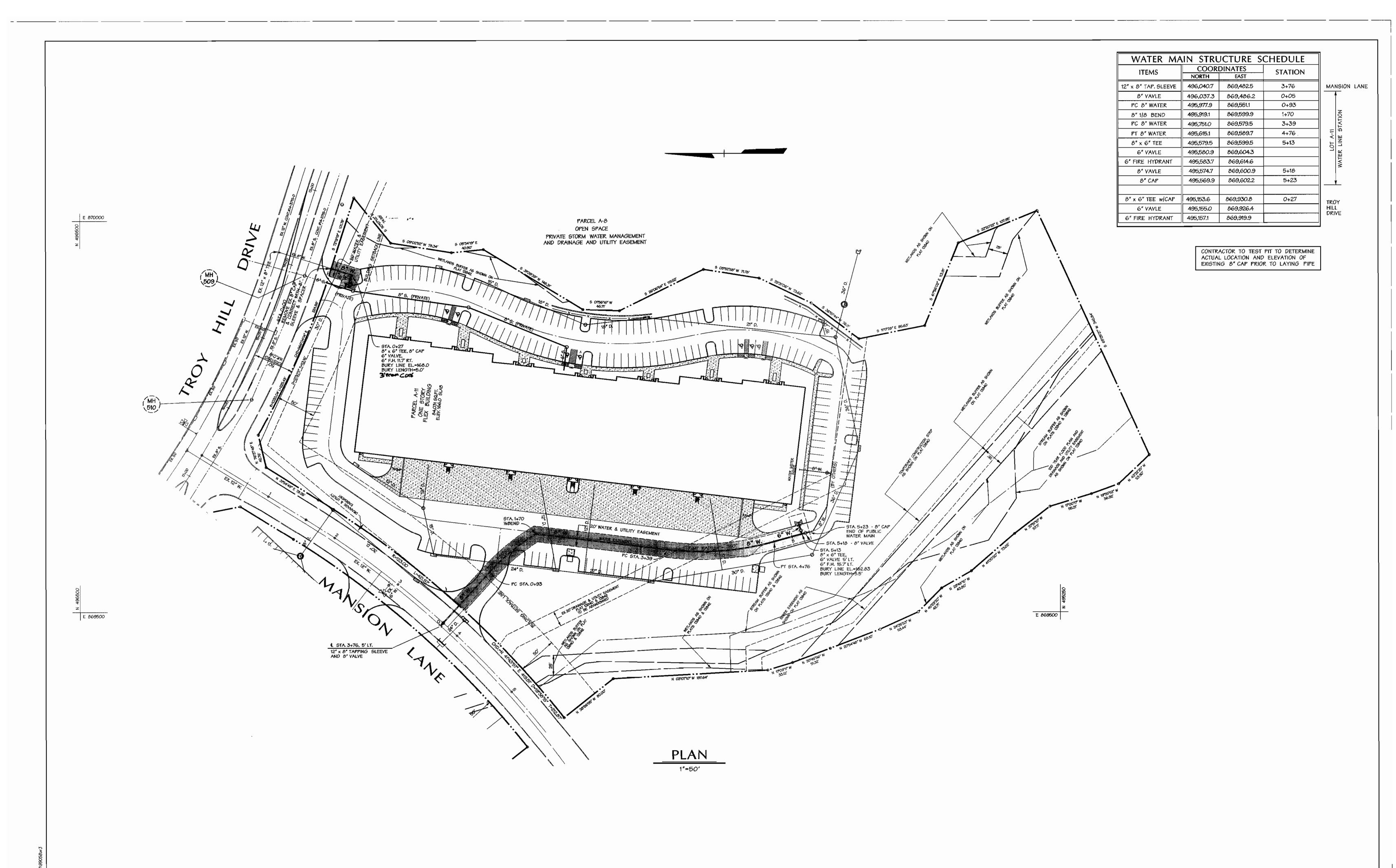
Election District No. 1 Howard County, Maryland

2 of 5 CONTRACT NO. 44-3914-D

SCALE: 1"=50'

SHEET

Thu Oct 12 09:56:09 2000 n:\99058\99058w2



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Landscape Architects,
Golf Course Architects,
Engineers, Surveyors &
Environmental Professionals

DESIGN BY:					
DFM					
DRAWN BY:					3.4.4.7
MSS					WATI
CHECKED BY:					
DATE:					
8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. 37

Troy Hill Commerce Center WATER PLAN

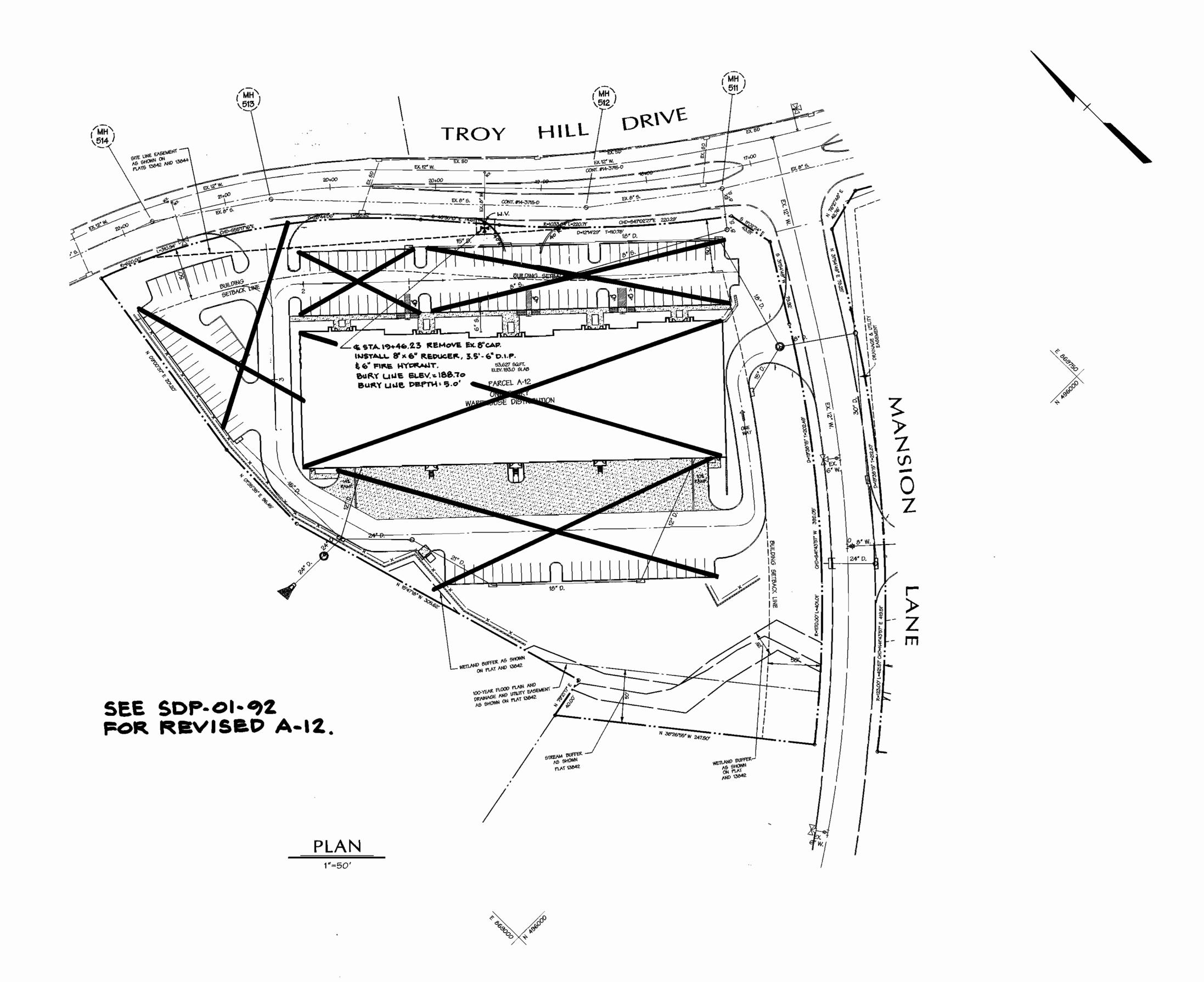
_BLOCK NO. <u>18</u>

Lot A-11

Election District No. 1 Howard County, Maryland CONTRACT NO. 44-3914-D

3 of 5 Thu Oct 12 09:56:50 2000 n:\99058\99058.w3

SCALE: 1"=50'



WATER MAIN STRUCTURE SCHEDULE COORDINATES
NORTH EAST 8" × 6" REDUCER 19+46.23-35.5°LT. 6" FIRE HYDRANT 19+46.23-37' LT.

CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

DESIGN BY:	Rw/to		Elimo vete de 12 From Set	8-1-01	
DFM	RW/DM	2	REHOVE 8"M., ADD 6" F.H. STA. 19+46.23 LOTA - 12	10.8.01	
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CHECKED BY:					
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DATE:					
8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. <u>37</u>

Troy Hill Commerce Center

WATER PLAN

_BLOCK NO. <u>18</u>

Election District No. 1 Howard County, Maryland

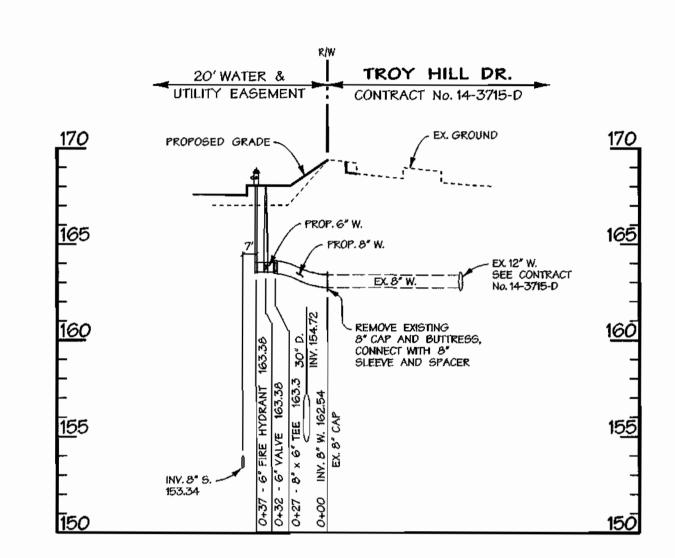
CONTRACT NO. 44-3914-D

Thu Oct 12 11:40:46 2000 n:\99058\99058w4

SCALE: 1"=50'

SHEET

4 of 5



FIRE HYDRANT - LOT A-11

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

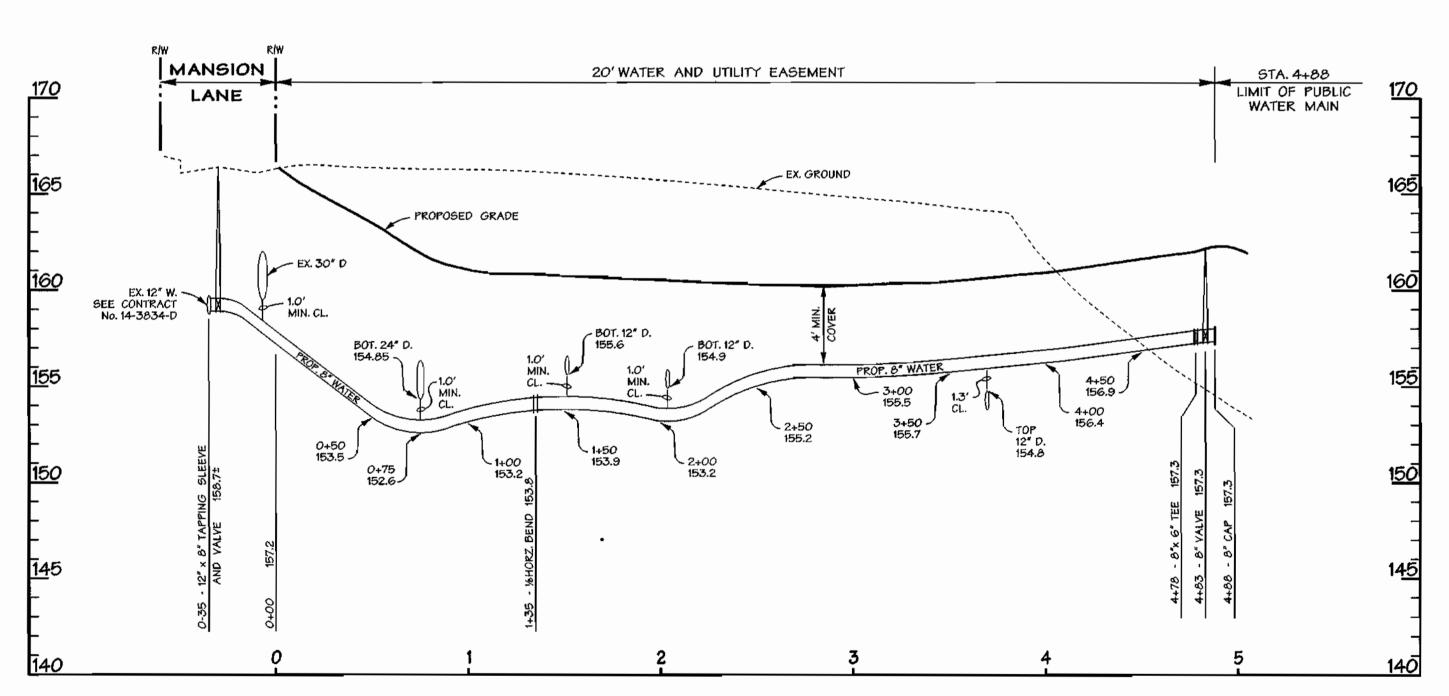
STA. 4+65 LIMIT OF PUBLIC WATER MAIN

PUBLIC WATER TO LOT A-10 PROFILE SCALE: HORIZ. 1"=50' VERT. 1"=5'

20' WATER AND UTILITY EASEMENT

EX. GROUND

NICHOLAS J. BRADER, III PE 18558 ARENSION BY: MATIS WARFIELD INC 10540 YORK RD., SUITE M HUNT VALLEY, MD 21030



PUBLIC WATER TO LOT A-11

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

_BLOCK_NO._<u>18</u>

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

TROY HILL DR.

REMOVE EXISTING 8" CAP / & BUTTRESS, CONNECT WITH 8" SLEEVE & SPACER

18° D. 80 144.15 4

CONTRACT No. 14-3715-D

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

PROPOSED GRADE

Team of Land Planners, Landscape Architects, Golf Course Architects,

Engineers, Surveyors & Environmental Professionals

4+50 148.9

. 4.	The san market	DESIGN BY:	MATIS WARFIELD	$\overline{\mathbb{W}}$	CHANGE PROFILE LOT A-10 STA 0+00 TO 1+50 DUE TO REVISED ENTRANCES	12/22/00	
,,,	E OF WHOLE STATE OF	DFM	RW/FB		Eliminate. A-12 Fronset	8:1.01	
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L	of Charles	8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. <u>37</u>

WATER PROFILES

Troy Hill Commerce Center Lots A-10 and A-11

Election District No. 1 Howard County, Maryland CONTRACT NO. 44-3914-D

As Shown SHEET 5 of 5

SCALE:

Thu Oct 12 09:57:52 2000 n:\99058\99058.w5

QUANTITIES QUANTITIES LOT A-10 LOT A-11 **ESTIMATED** 6" VALVES 8" x 6" TEE 8" 16BEND FIRE HYDRANT 8" SLEEVE & SPACER 8" VALVE 12" x 6" TAP. SLEEVE 12" x 8" TAP. SLEEVE NAME OF UTILITY CONTRACTOR SURVEY AND DRAFTING DIVISION AS-BUILT DATE

CONTRACT NO. 44-3914-D

TROY HILL COMMERCE CENTER

Lots A-10 and A-11

WATER CONSTRUCTION PLANS

Howard County, Maryland

Department of Public Works

£ . . 9.



DESCRIPTION

IRON PIN 1066 ELEY. 175.92 N 496501.3597 E 869134.4576

BENCHMARK No. 2

DESCRIPTION

IRON PIN 1061 ELEV. 242.49 N 498036.6945 E 868791.1502

BENCHMARK No. 3

DESCRIPTION

IRON PIN 1034 ELEV. 214.85 N 497636.7437 E 869835.6586

SHEET INDEX

	SHEET	DESCRIPTION
	1	COVER SHEET
	2	WATER PLAN - LOT A-10
	3	WATER PLAN - LOT A-11
,	4	WATER PROFILES - LOTS A-10 AND A-11

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

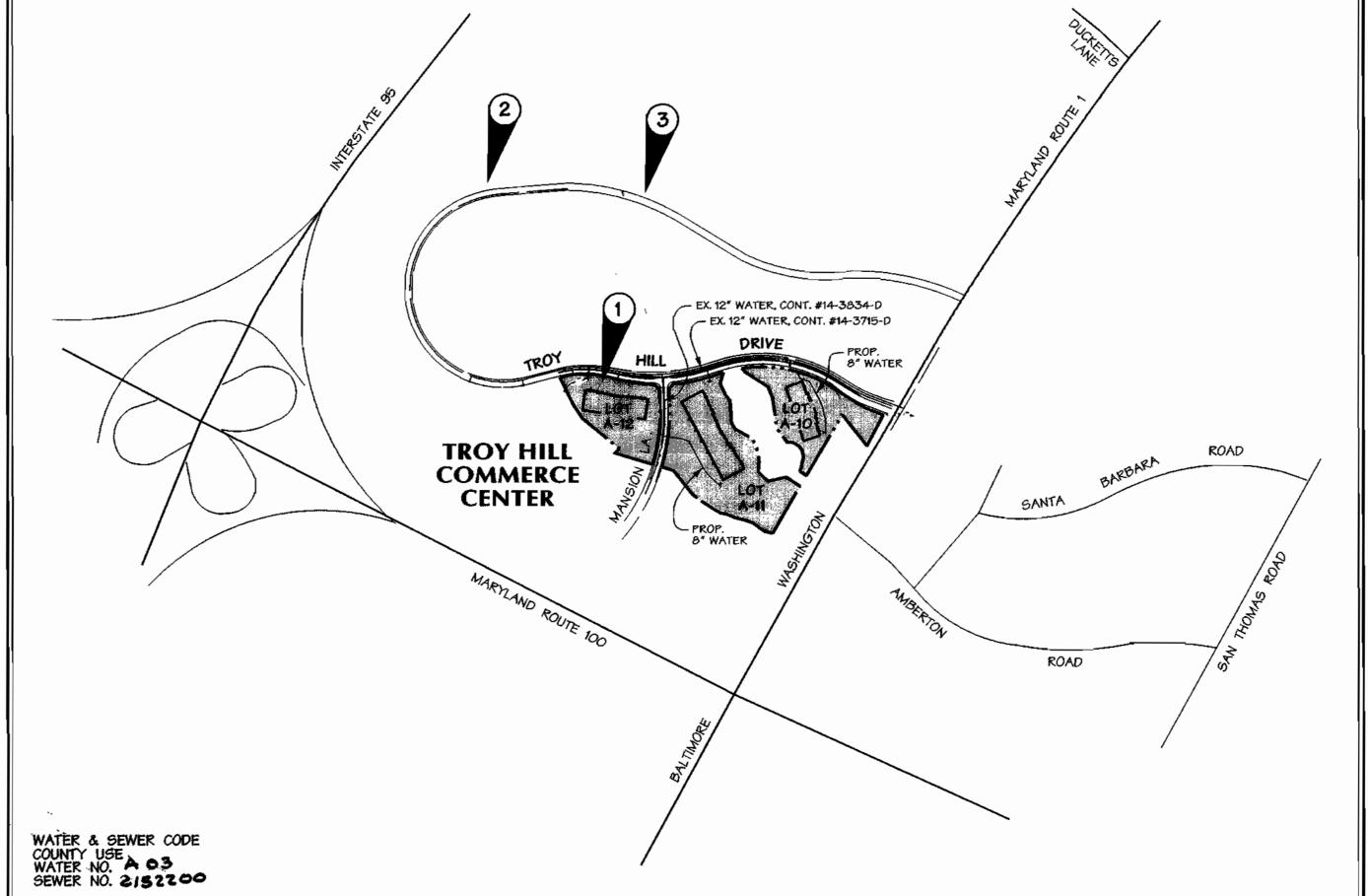
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT



OWNER/APPLICANT TROY HILL BUSINESS PARK PARTNERSHIP C/O MANEKIN CORPORATION 7165 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 290-1400

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP 01-30

(410) 296-3333



VICINITY MAP

SCALE: 1"=600"

(COORDINATES BASED ON NAD27, AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS No. 2445004 AND No. 2445005.)

TYPE OF BUILDINGS:	FLEX-WAREHOUSE
NO. OF LOTS / PARCELS	3
NO. OF WATER CONNECTIONS:	3
NO. OF SEWER CONNECTIONS:	3
DRAINAGE AREA:	SHALLOW RUN
TREATMENT PLANT:	
PATAPSCO	

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 Maryland state coordinates. (North American Datum of 1983 (NAD 83)) 3. All vertical controls are based on U.S.G.S. data. 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. The owner has contracted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the 6. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a copy of Volume IV on the job. 7. 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 dua shall be located by the contractor two weeks in advance of construction operations at his own expense. 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans: State Highway Administration BG&E CO. Contractor Services 787-9068 1-800-257-7777

BG&E CO. Under Ground Damage Control Miss Utility 1-800-257-7777 Colonial Pipeline CO. 795-1390 Howard County Department of Public Works

850-4620

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the 10. Contractor shall remove trees, stumps, and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main. 11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any county road or boringljacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 18.114(A) of the Howard County code.

PART II - WATER

1. All water main to be D.I.P. Class 52 unless otherwise noted. 2. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise noted. 3. Valves adjacent to tees shall be strapped to tees.4. All fittings shall be buttressed or anchored with concrete lin accordance with the standard details unless otherwise provided for on the drawings. 5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with standard details. Soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the standard 6. The contractor shall not operate any water main valves on the existing water system. 7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications. 8. Sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter. Twin house connections will be 1 1/2" from

PART III - SEWER

main to "Y" fitting.

1. All sewer mains shall be DIP AND P.V.C. unless otherwise noted. 2. All manholes shall be 4'-0" inside diameter unless otherwise 3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick 5. 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" - 6" above finished grade unless otherwise noted on 6. House(s) with the symbol "C.N.S." indicates that cellar

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

AND MEETS TECHNICAL REQUIREMENT

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Daft-McCune-Walker, Inc

Team of Land Planners, 200 East Pennsylvania Avenue Landscape Architects, Towson, Maryland 21286 Golf Course Architects, Engineers, Surveyors & Environmental Professionals



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TITLE SHEET

BLOCK NO. 18

Troy Hill Commerce Center

Lots A-10 and A-11

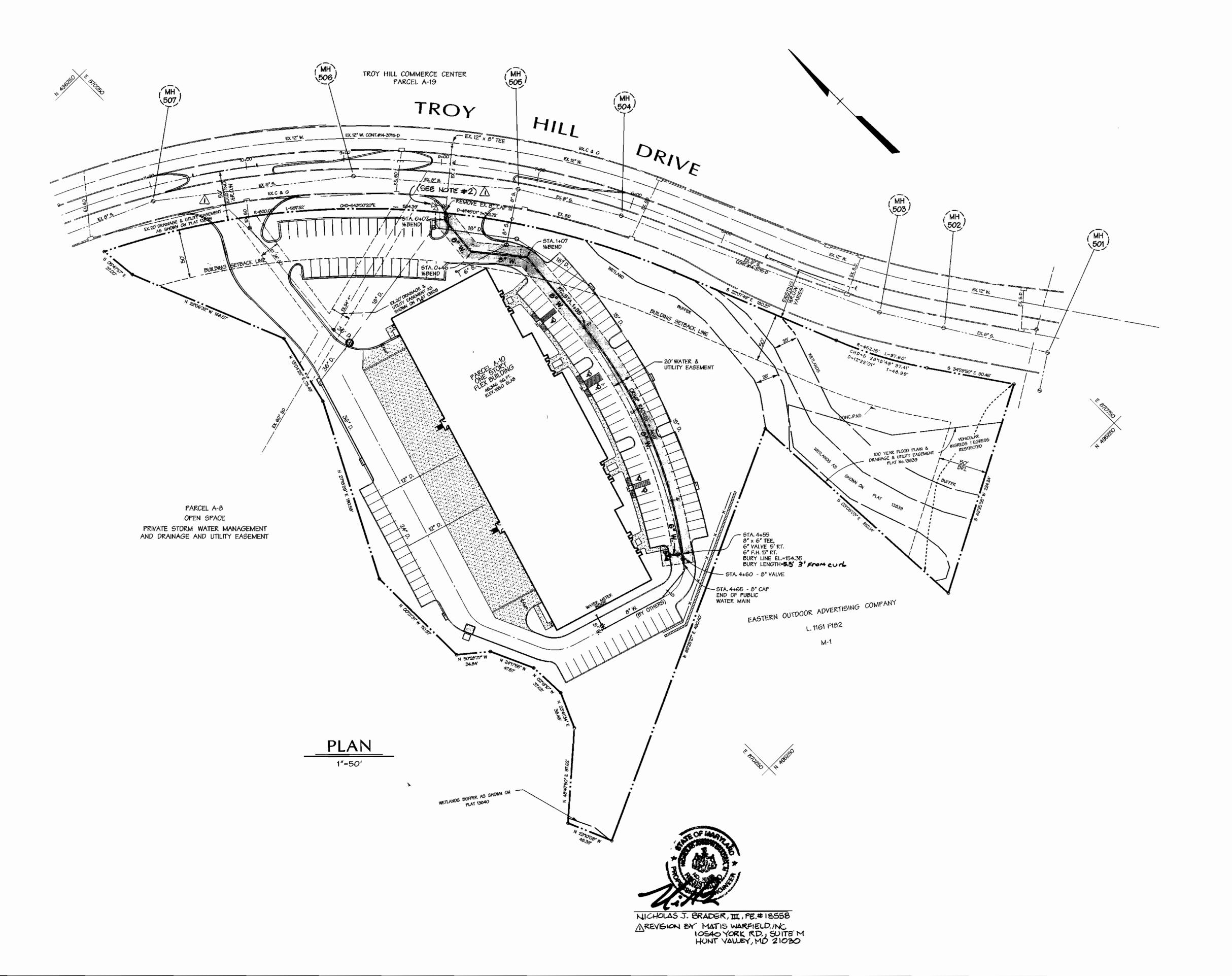
Election District No. 1 Howard County, Maryland

CONTRACT NO. 44-3914-D

SCALE: As Shown

SHEET

Thu Oct 12 11:08:04 2000 n:\99058\99058:wl



WATER MA	AIN STRU	JCTURE S	CHEDULE	
ITEMS	COOR NORTH	COORDINATES NORTH EAST		
8" 1/8 BEND	495,882.1	870,411.5	0+07	
8" 1/8 BEND	495,840.2	870,407.4	0+46	
8" 1/8 BEND	495,795.5	870,444.1	1+07	
PC 8" WATER	495,704.3	870,435.1	1+99	
8" x 6" TEE	495,468.1	870,342.3	4+55	
8" CAP			4+65	
8" YALVE	495,464.2	870,339.2	4+60	
6" VALYE	495,471.2	870,338.3		
6" FIRE HYDRANT	495,478.4	870,328.9		

NOTES:

CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

2. FIRE HYDRANT THREE (3) FEET BEHIND PROPOSED CURB

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

200 East Pennsylvania Avenu Towson, Maryland 21286 (410) 296–3333 Fax 296–4705 A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals ONAL EMILIA

ARVI M	DESIGN BY:	MATIS WARFEUD	Δ	SHOW CURRENT ENTRANCE CONFIGURATION, ADD NOTE #2-FOR EX. F.H.	12/22/00
OCCUPANT TO THE	DFM DRAWN BY:				
	MSS				
	CHECKED BY:				
(16%) 3					
AL THINK	DATE:				
	8 22 00	BY	NO.	REVISION	DATE

WATER PLAN

__BLOCK_NO._<u>18</u>

600 SCALE MAP NO. 37

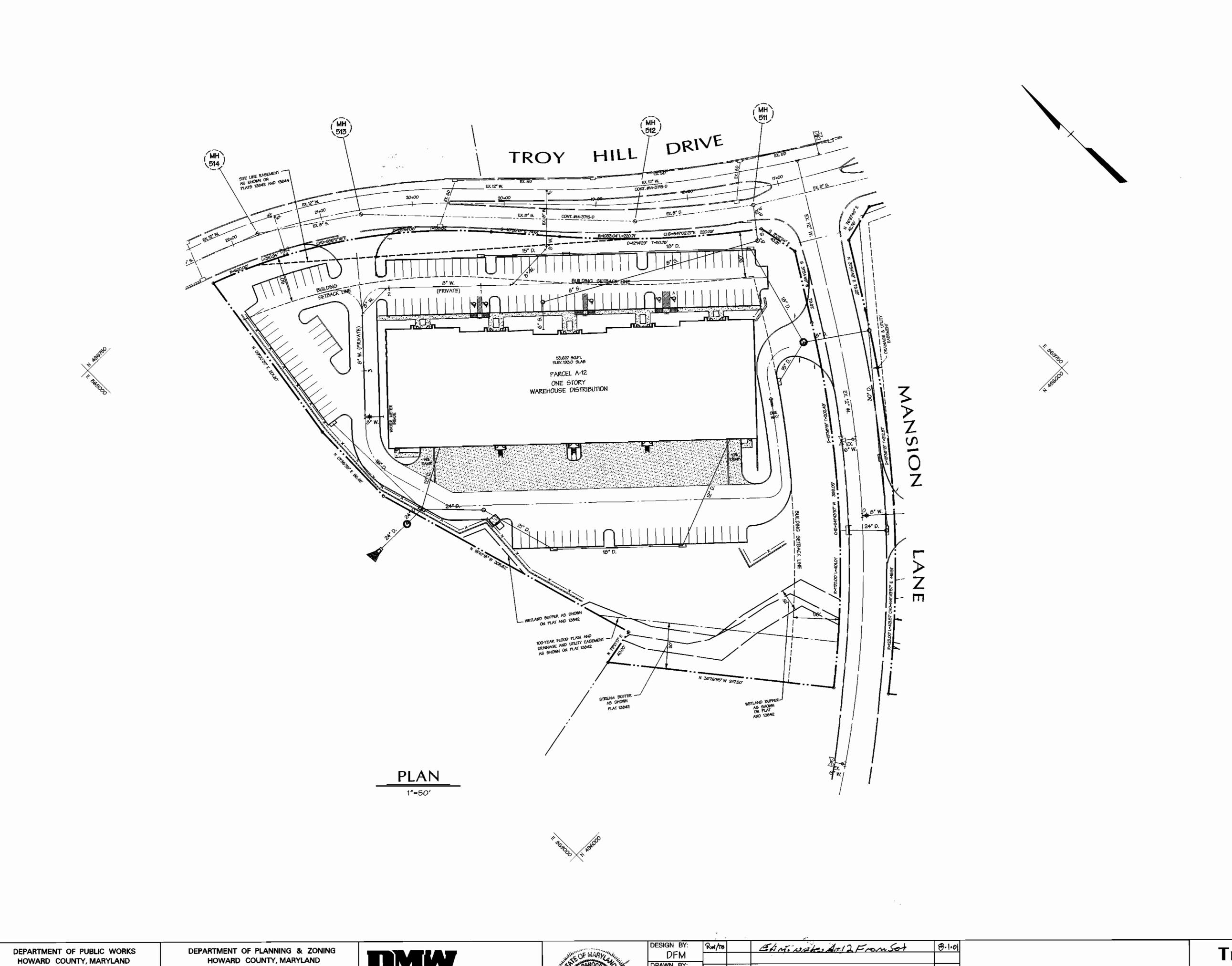
Troy Hill Commerce Center
Lot A-10

Election District No. 1 Howard County, Maryland CONTRACT NO. 44-3914-D

Z of 5

Thu Oct 12 09:56:09 2000 n:\99058\99058:w2

SCALE: 1"=50'



DRAWN BY:

Towson, Maryland 21286 (410) 296-3333 Fax 296-4705

MSS CHECKED BY:

8/22/00 BY NO.

REVISION

HOWARD COUNTY, MARYLAND

WATER MAIN STRUCTURE SCHEDULE COORDINATES NORTH EAST 496,668.5 6" VALYE 495,664.5 6" FIRE HYDRANT

CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

Troy Hill Commerce Center

Election District No. 1 Howard County, Maryland

WATER PLAN

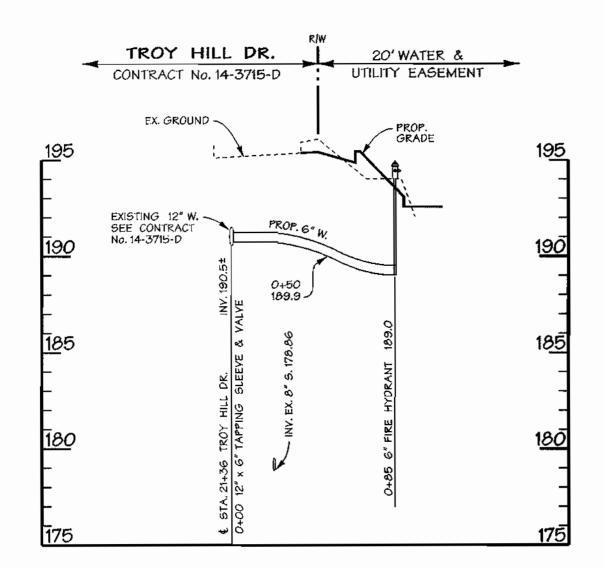
__ BLOCK NO. <u>18</u>

DATE 600 SCALE MAP NO. 37

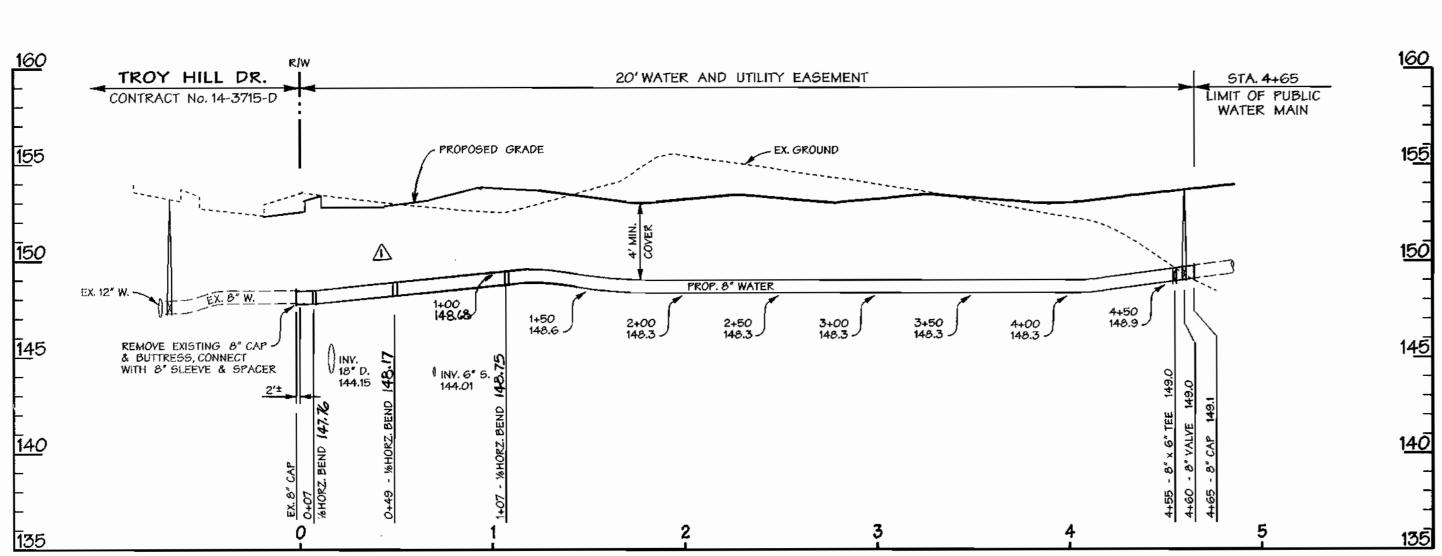
SHEET 4 of 5 CONTRACT NO. 44-3914-D

Thu Oct 12 11:40:46 2000 n:\99058\99058w4

SCALE: 1"=50'

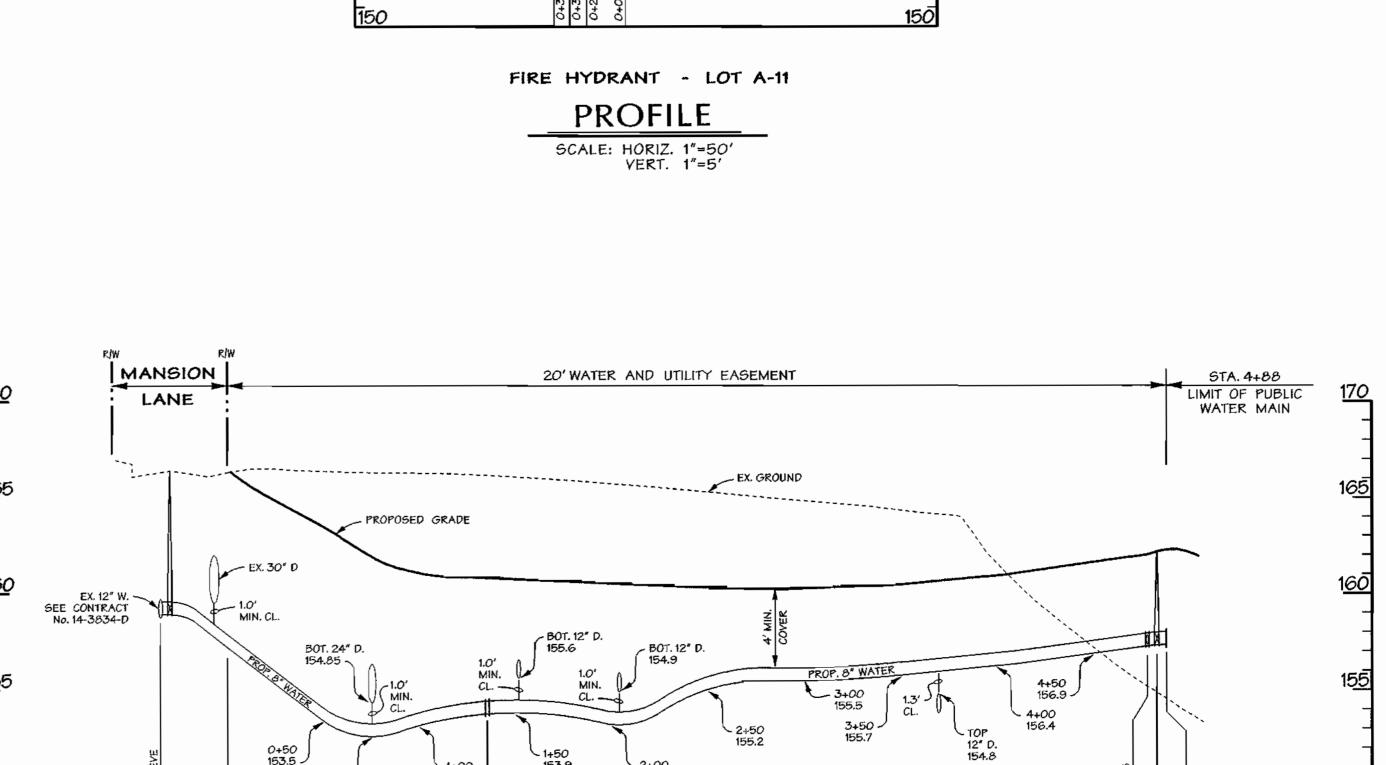


FIRE HYDRANT - LOT A-12 PROFILE SCALE: HORIZ. 1"=50' VERT. 1"=5'



PUBLIC WATER TO LOT A-10 **PROFILE** SCALE: HORIZ. 1"=50' VERT. 1"=5'

NICHOLAS J. BRADER, III PE 18558 ARBASION BY: MATIS WARFIELD INC. 10540 YORK RD., SUITE M HUNT VALLEY, MD 21030



CONTRACT No. 14-3715-D

REMOVE EXISTING 8" CAP AND BUTTRESS, CONNECT WITH 8" SLEEVE AND SPACER

UTILITY EASEMENT

PROPOSED GRADE -

PUBLIC WATER TO LOT A-11 **PROFILE** SCALE: HORIZ. 1"=50' VERT. 1"=5'

__BLOCK_NO._18

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & wironmental Professionals



DESIGN BY:	MATIS WARFIELD	$\overline{\mathbb{A}}$	CHANGE PROFILE LOT A-10 STA 0+00 TO 1+50 DUE TO REVISED ENTRANCES	12/22/00
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8 22 00	BY	NO.	REVISION	DATE

WATER PROFILES

600 SCALE MAP NO. 37

Troy Hill Commerce Center Lots A-10 and A-11

Election District No. 1 Howard County, Maryland

SHEET 5 of 5 CONTRACT NO. 44-3914-D

Thu Oct 12 09:57:52 2000 n:\99058\99058.w5

SCALE:

As Shown

		QUAN	TITIES		
ITEM	QUANTITIES ESTIMATED	LOT A-10	LOT A-11	LOT A-12	
8" WATER	1015'	465'	550'	TYTON DIP	GRIFFIN LINE
6" WATER	35,5'	17'	15′	t ''500	
6" VALVES	3	1	2	CATE SERIES	AMERICAN FLOW
8" x 6" TEE	3	1	2	M.J DIP	TYLER VIJION
8" CAP	3	1	2	(t **	tr 4
8" 16BEND	4	3	1	1. 11	4 4
FIRE HYDRANT	4	1	2	AMBRICAN B-84-B	AMERICAN FLOW
8" SLEEVE & SPACER	2	1	1	M.J.	TYLER/UNION
8" VALYE	4	1	2	SERIES GATE	CONTROL
8" x 6" Reducer	1			5ERIES 2800	AMERICAN FLOW CONTROL
12" x 8" TAP. SLEEVE	1		1	SERIES 2800 DIP	U 67
NAME OF UTIL	TY CONTRACT	OR CHERRY	HILL CON	STR. INC.	1

CONTRACT NO. 44-3914-D

TROY HILL COMMERCE CENTER

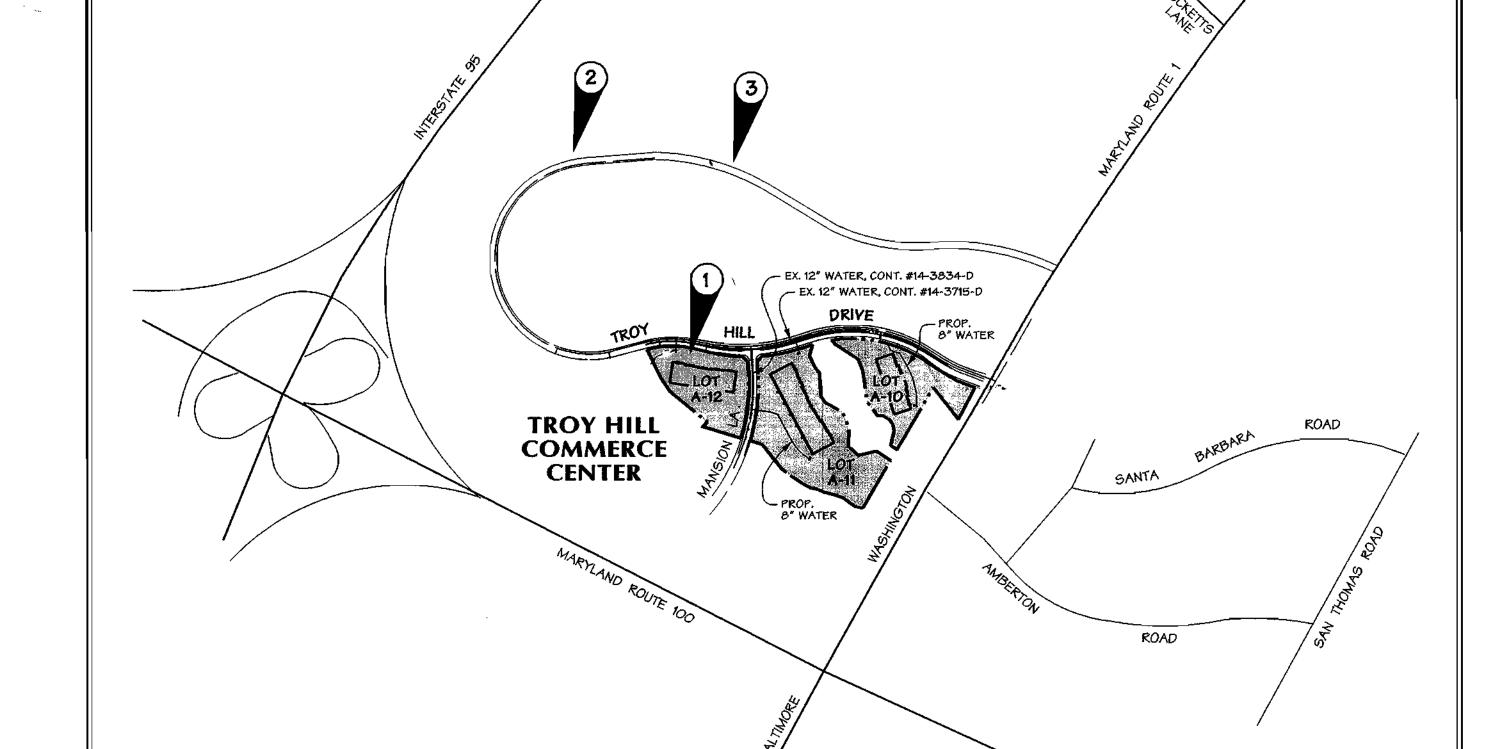
Lots A-10 and A-11

WATER CONSTRUCTION PLANS

Howard County, Maryland

Department of Public Works

£ . 9



BENCHMARK No. 1

DESCRIPTION IRON PIN 1066 ELEV. 175.92 N 496501.3597 E 869134.4576

BENCHMARK No. 2

DESCRIPTION

IRON PIN 1061 ELEV. 242.49 N 498036.6945 E 868791.1502

BENCHMARK No. 3

DESCRIPTION

OWNER/APPLICANT

CIO MANEKIN CORPORATION

COLUMBIA, MARYLAND 21046

SEDIMENT CONTROL MEASURES WILL

SITE DEVELOPMENT PLAN SDP 01-30

BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND

7165 COLUMBIA GATEWAY DRIVE

TROY HILL BUSINESS PARK PARTNERSHIP

IRON PIN 1034 ELEY. 214.85 N 497636.7437 E 869835.6586

SHEET INDEX

SHEET	DESCRIPTION							
1	COVER SHEET							
2	WATER PLAN - LOT A-10							
3	WATER PLAN - LOT A-11							
4	WATER PROFILES - LOTS A-10 AND A-11							

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

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

VICINITY MAP

(COORDINATES BASED ON NAD27, AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS No. 2445004 AND No. 2445005.)

TYPE OF BUILDINGS:	FLEX-WAREHOUSE
NO. OF LOTS / PARCELS	3
NO. OF WATER CONNECTIONS:	3
NO. OF SEWER CONNECTIONS:	3
DRAINAGE AREA:	SHALLOW RUN
TREATMENT PLANT:	
PATAPSCO	

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 Maryland state coordinates.{North American Datum of 1983(NAD 83)}
3. All vertical controls are based on U.S.G.S. data. 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. The owner has contracted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the

6. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a copy of Volume IV on the Job.
7. 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 located by the contractor two weeks in advance of construction operations at his own expense. 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

> State Highway Administration BG&E CO. Contractor Services BG&E CO. Under Ground Damage Control Miss Utility 1-800-257-7777 Colonial Pipeline CO. 795-1390 Howard County Department of Public Works

531-5533 850-4620

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the 10. Contractor shall remove trees, stumps, and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main. Included in the unit price bid for construction of the main.

11. The contractor shall notify the Bureau of Highways,
Howard County, at (410) 313-2450 at least five working days
before any open cut of any county road or boring/jacking
operation in county roads for laying water/sewer mains or
house connections. The approval of these drawings will
constitute compliance with DPW requirements per section
18.114(A) of the Howard County code.

PART II - WATER

1. All water main to be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.

3. Valves adjacent to tees shall be strapped to tees.4. All fittings shall be buttressed or anchored with concrete lin accordance with the standard details unless otherwise provided for on the drawings. 5. Fire hydrants shall be set to the bury line elevations shown

on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with standard details. Soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the standard specifications.

6. The contractor shall not operate any water main valves on the existing water system. 7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

8. Sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter. Twin house connections will be 11/2" from main to "Y" fitting.

PART III - SEWER

1. All sewer mains shall be DIP AND P.V.C. unless otherwise noted. 2. All manholes shall be 4'-0" inside diameter unless otherwise 3. Force mains shall be D.I.P. only.4. Manholes shown with 12" and 16" walls are for brick

manholes only. 5. 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" - 6" above finished grade unless otherwise noted on

6. House(s) with the symbol "C.N.S." Indicates that cellar cannot be served.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

APPROMED

AND MEETS TECHNICAL REQUIREMENT

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Fax 296-4705

A Team of Land Planners, Towson, Maryland 21286 Golf Course Architects, Engineers, Surveyors &

WATER & SEWER CODE

SEWER NO. 2/52200

COUNTY USE WATER NO. A 03



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,	DFM	RH/DM		ELIMINATE & PRIVATE W., ADD 6" F.H. STA. 19+46.23 LOTA-12	10-8-01	
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	CHECKED BY:	<u> </u>				
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	8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. <u>37</u>

TITLE SHEET

BLOCK NO. <u>18</u>

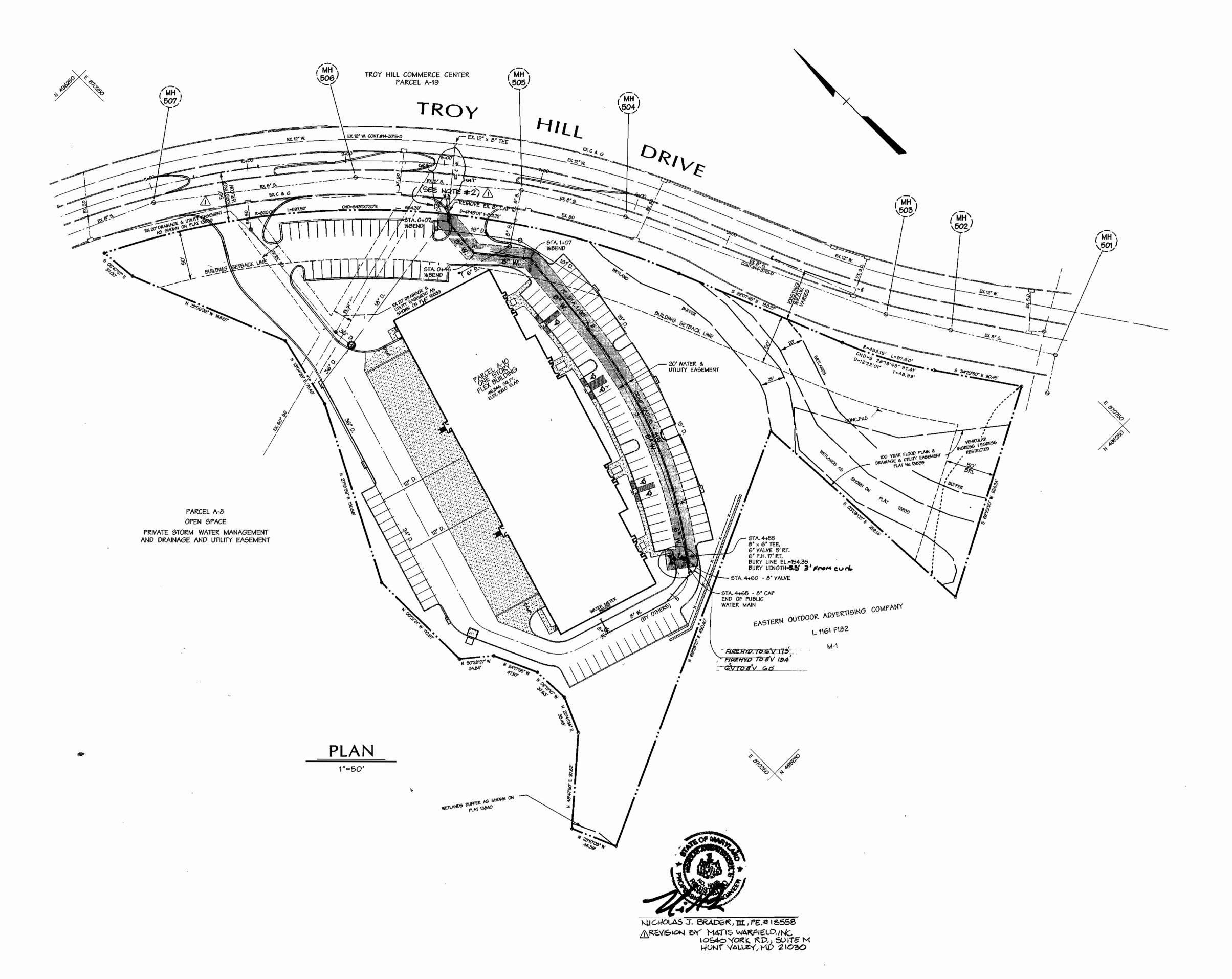
Troy Hill Commerce Center Lots A-10 and A-11

Election District No. 1 Howard County, Maryland

CONTRACT NO. 44-3914-D

SCALE:

As Shown



WATER MA	IN STRU	JCTURE S	CHEDULE
ITEMS		DINATES	STATION
	NORTH	EAST	31711.371
8" 1/8 BEND	495,882.1	870 ,4 11.5	0+07
8" 1/8 BEND	495,840.2	870,407.4	0+46
8" 1/8 BEND	495,795.5	870,444.1	1+07
PC 8" WATER	495,704.3	870,435.1	1+99
8" x 6" TEE	495,468.1	870,342.3	4+55
8" CAP			4+65
8" YALVE	495,464.2	870,339.2	4+60
6" YALVE	495,471.2	870 ,33 8.3	
6" FIRE HYDRANT	495,478.4	870,328.9	

NOTES:

CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

CONTRACTOR TO ROTATE AND MOVE EXISTING FIRE HYDRANT THREE (3) FEET BEHIND PROPOSED CURB

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

(410) 296–3333 Fax 296–4705

A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

	DESIGN BY:	Matis Warfeut	Φ	SHOW CORRENT ENTRANCE CONFIGURATION, 400 NOTE #2-FOR EX. F.H.	12/22/00	
	DFM					
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į	CHECKED BY:			-		
	DATE:			ASBUILT CONDITIONS ADDED TO PLAN	10/0-/	
	DATE:	K.C.I.	<u>1</u>	ASSOCIATION ACCOUNTS FUND	(2/20/01	
	8 22 00	BY	NO.	REVISION	DATE	600 SCALE MAP NO. <u>37</u>

Troy Hill Commerce Center Lot A-10

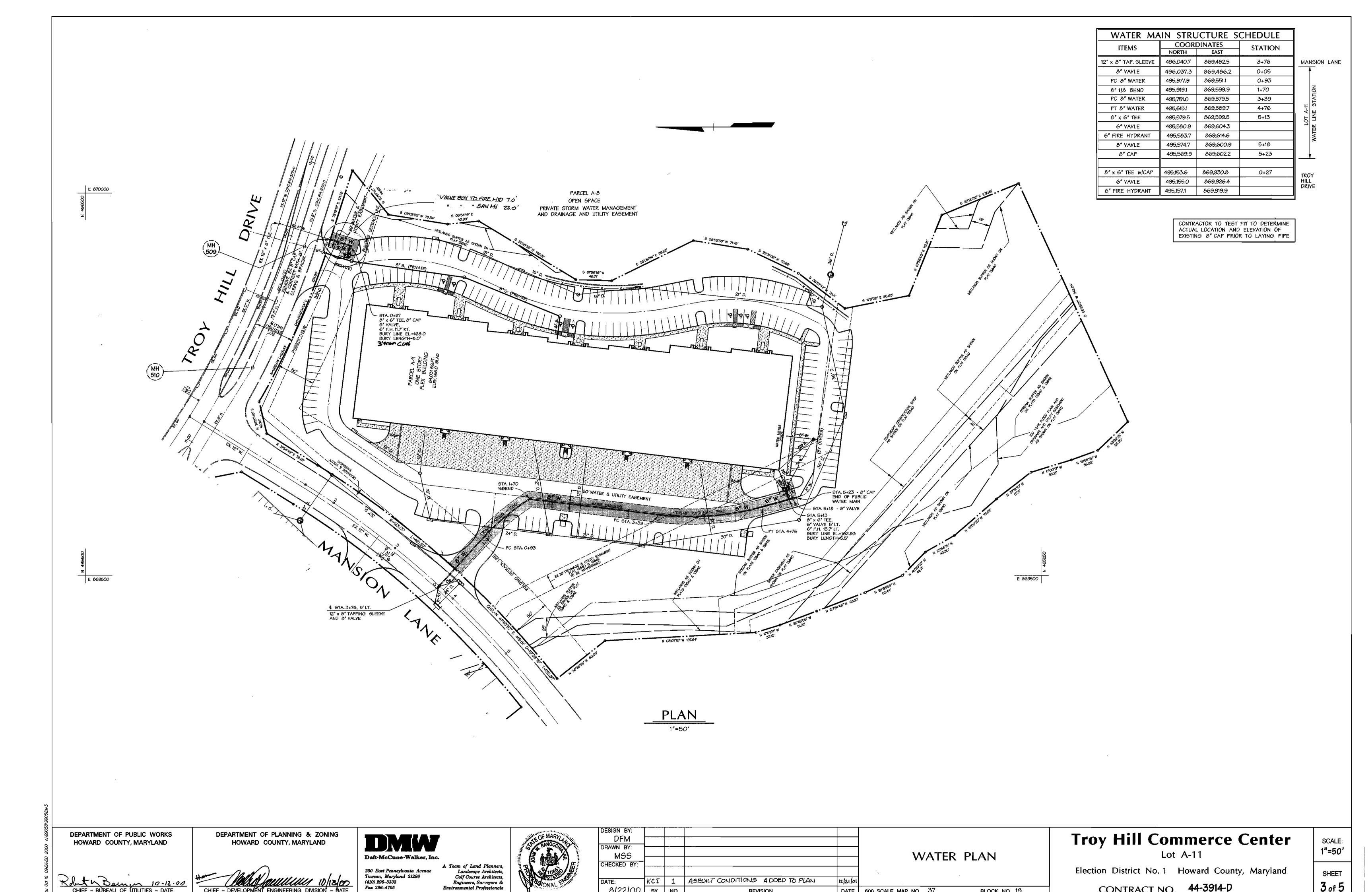
WATER PLAN

_BLOCK NO. <u>18</u>

Election District No. 1 Howard County, Maryland

2 of 5 CONTRACT NO. 44-3914-D

SCALE: 1"=50'



ASBULT CONDITIONS ADDED TO PLAN

DATE 600 SCALE MAP NO. 37

_BLOCK NO. <u>18</u>

8/22/00 BY NO.

(410) 296–3333 Fax 296–4705

3 of 5

Thu Oct 12 09:56:50 2000 n:\99058\99058.w3

CONTRACT NO. 44-3914-D

QUANTITIES QUANTITIES LOT A-12 ESTIMATED 35,5 **3**.5' 8" 16BEND FIRE HYDRANT 8" SLEEVE & SPACER 8" YALYE 8" x 6" REDUCER 12" x 8" TAP. SLEEVE NAME OF UTILITY CONTRACTOR SURVEY AND DRAFTING DIVISION AS-BUILT DATE

CONTRACT NO. 44-3914-D

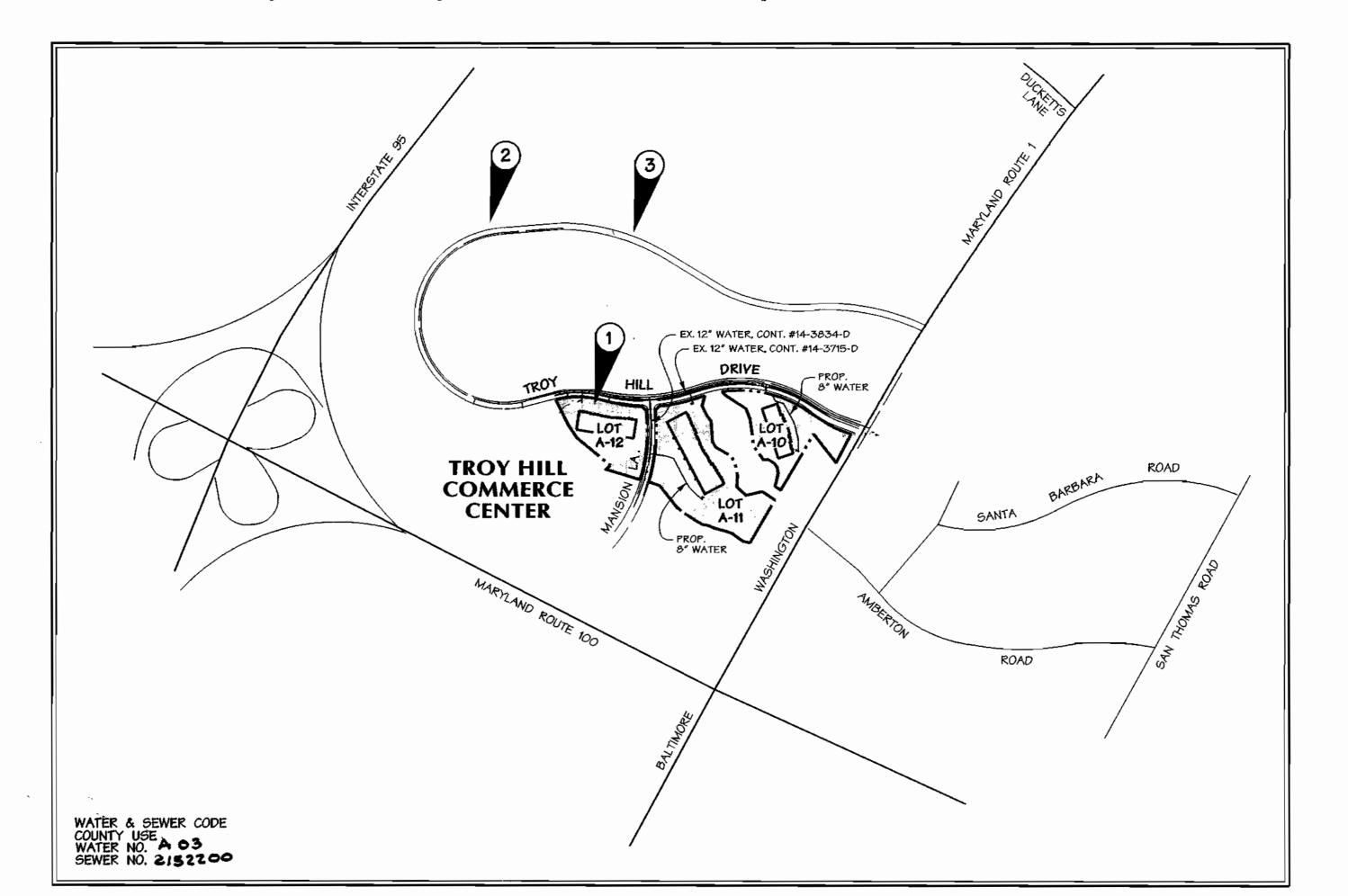
TROY HILL COMMERCE CENTER

Lots A-10 and A-11

WATER CONSTRUCTION PLANS

Howard County, Maryland

Department of Public Works



DESCRIPTION

BENCHMARK No. 1

IRON PIN 1066 ELEV. 175.92 N 496501.3597 E 869134.4576

BENCHMARK No. 2

DESCRIPTION

IRON PIN 1061 ELEV. 242.49 N 498036.6945 E 868791.1502

BENCHMARK No. 3

DESCRIPTION

IRON PIN 1034 ELEV. 214.85 N 497636.7437 E 869835.6586

SHEET INDEX

	SHEET	DESCRIPTION							
	1	COVER SHEET							
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SHEET	DESCRIPTION
1	COVER SHEET
2	WATER PLAN - LOT A-10
3	WATER PLAN - LOT A-11
4	WATER PROFILES - LOTS A-10 AND A-11

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT OWNER / APPLICANT C/O MANEKIN CORPORATION COLUMBIA, MARYLAND 21046

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

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND

TROY HILL BUSINESS PARK PARTNERSHIP 7165 COLUMBIA GATEWAY DRIVE

SITE DEVELOPMENT PLAN SDP 01-30

VICINITY MAP

SCALE: 1"=600'

(COORDINATES BASED ON NAD27, AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS No. 2445004 AND No. 2445005.)

TYPE OF BUILDINGS:	FLEX-WAREHOUSE
NO. OF LOTS / PARCELS	3
NO. OF WATER CONNECTIONS:	3
NO. OF SEWER CONNECTIONS:	3
DRAINAGE AREA:	SHALLOW RUN
TREATMENT PLANT:	
PATAPSCO	

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.

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850-4620 787-9068 1-800-257-7777

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the

10. Contractor shall remove trees, stumps, and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main. 11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any county road or borinaliacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 18.114(A) of the Howard County code.

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cannot be served.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Kohnt & Berner 10.12.00

CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Daft-McCune Walker, Inc.

Towson, Maryland 21286

Fax 296-4705

Team of Land Planners, Landscape Architects Golf Course Architects, Engineers, Surveyors &



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TITLE SHEET

BLOCK NO. 18

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DATE | 600 SCALE MAP NO. <u>37</u>

Troy Hill Commerce Center

Lots A-10 and A-11

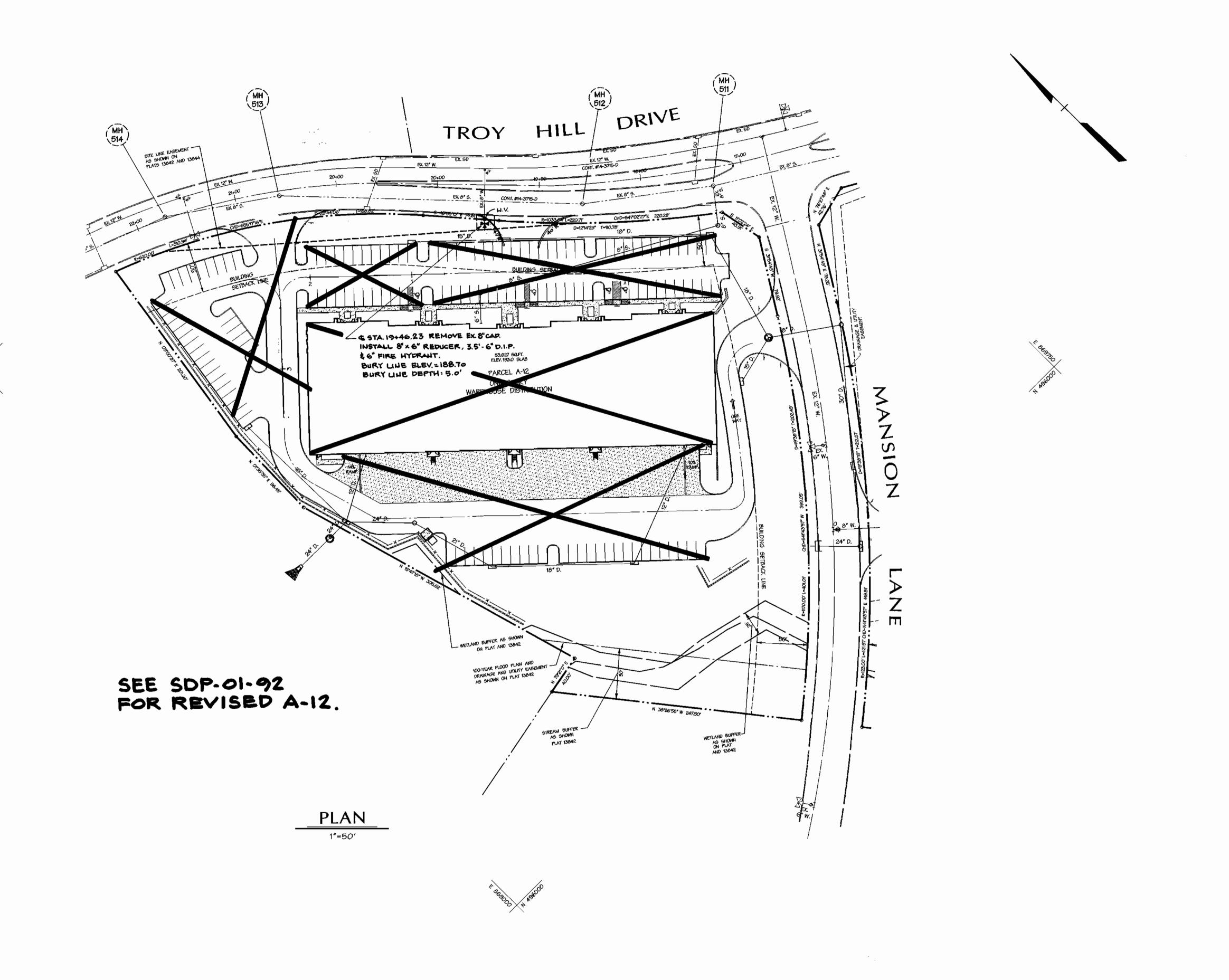
Election District No. 1 Howard County, Maryland

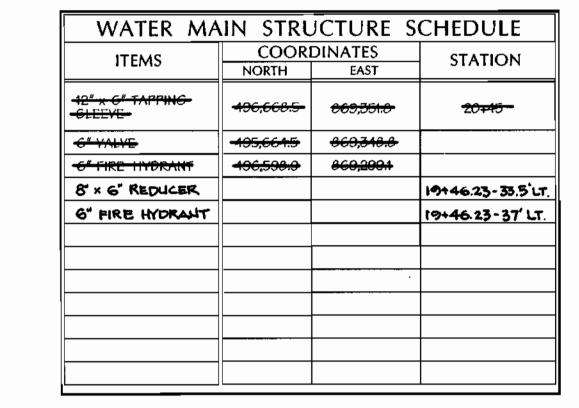
CONTRACT NO. 44-3914-D

SHEET

SCALE: As Shown

Thu Oct 12 11:08:04 2000 n:\99058\99058.wl





CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" CAP PRIOR TO LAYING PIPE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Hame Marine

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Daft-McCune-Walker, Inc.

A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals OF MARY

	DESIGN BY:	Rw/to		Eliminate A=12 From Set	8-1-01	
e e	DFM	RW/DM	2	REHOVE 8"H., ADD 6" F.H. STA 19+46.23 LOTA 12	10.8.01	
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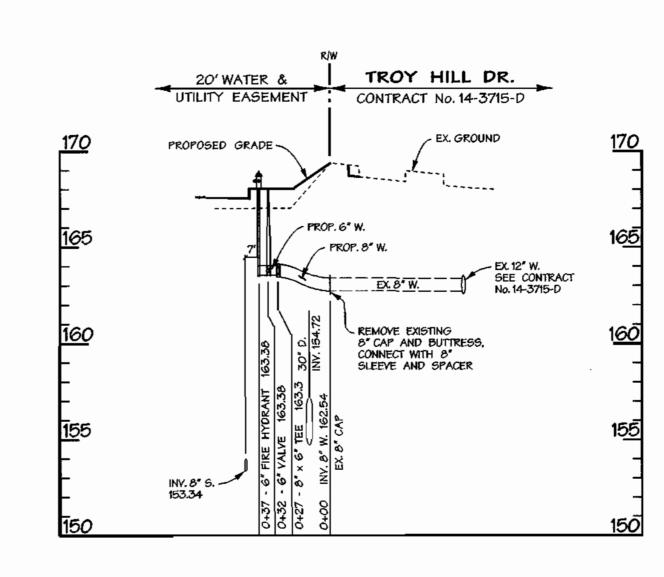
WATER PLAN

Troy Hill Commerce Center

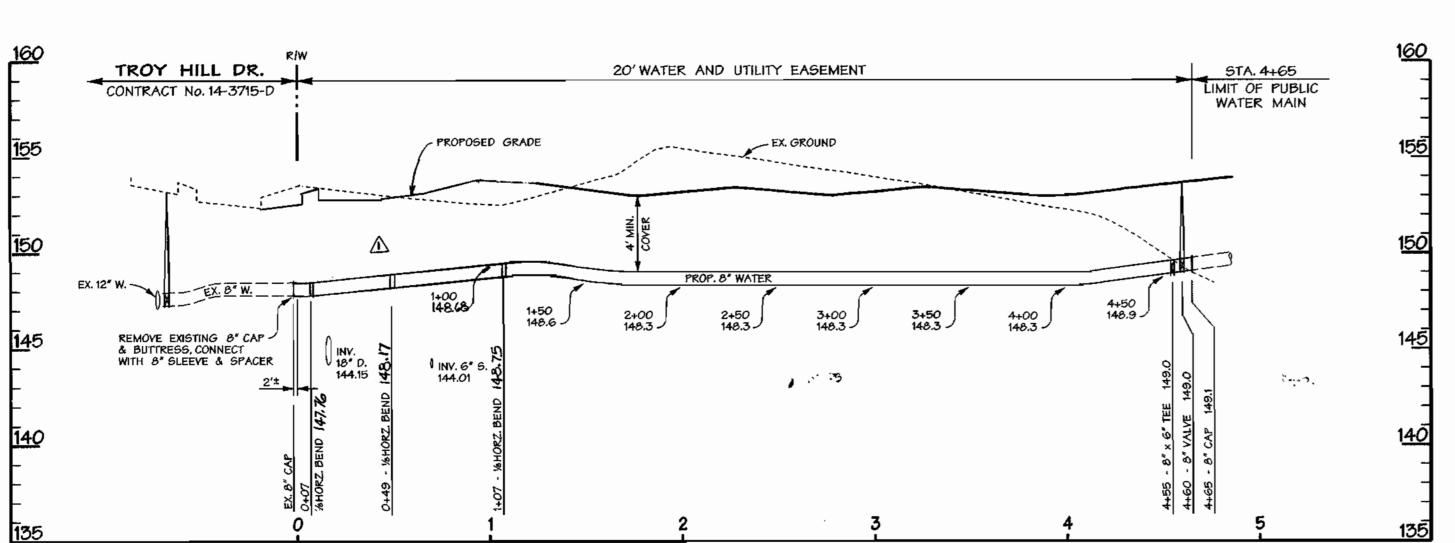
_BLOCK NO. <u>18</u>

Election District No. 1 Howard County, Maryland
CONTRACT NO. 44-3914-D

SCALE: 1"=50' SHEET



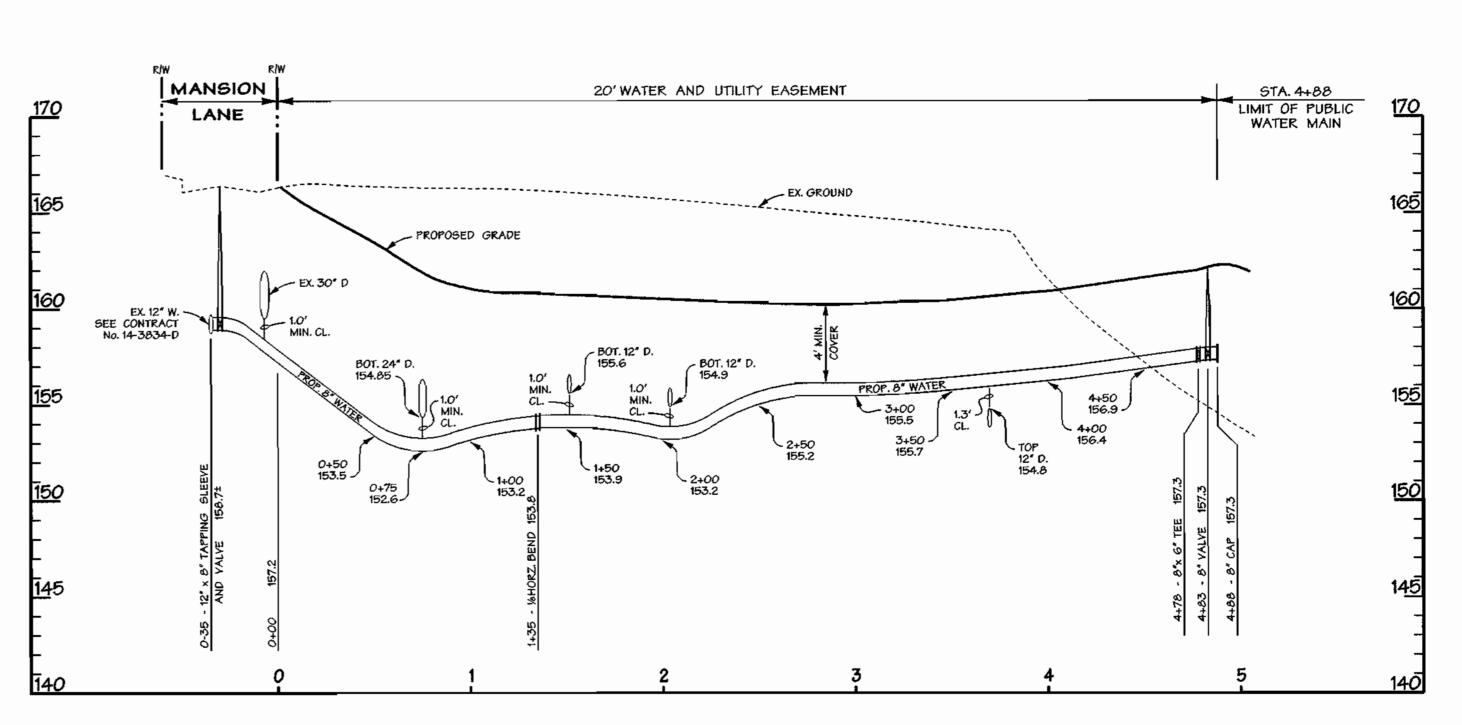
FIRE HYDRANT - LOT A-11



PUBLIC WATER TO LOT A-10

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

NICHOLAS J. BRADER, II PE 18558 AREASION BY: MATIS WARFIELD INC. 10540 YORK RD., SUITE M HUNT VALLEY, MD 21030



PUBLIC WATER TO LOT A-11

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

_BLOCK NO. <u>18</u>

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

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-	DESIGN BY:	MATIS WARFIELD	\triangle	CHANGE PROFILE LOT A-10 STA 0+00 TO 1+50 DUE TO REVISED ENTRANCES	12/22/00	
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	8122100	BY	NO.	REVISION	DATE	600 SCALE MAP NO. 37

WATER PROFILES

Troy Hill Commerce Center

Lots A-10 and A-11

Election District No. 1 Howard County, Maryland CONTRACT NO. 44-3914-D

Thu Oct 12 09:57:52 2000 n:\99058\99058.w5

SCALE:

As Shown