

QUANTITIES						
			A5-BUILT			
ITEM	ESTIMATED	QUANTITIES	TYPE	SUPPLIER		
8" SEWER	143 L.F.					
4" SEWER	57 L.F.					
MANHOLES	1 EACH					
O" WATER	64 L.F.					
1" WATER	40 L.F.					
12" X 0" TAPPING SLEEVE & VALVE	1 EACH					
Ø" PLUG & BUTTRESS	1 EACH					
NAME OF UTILITY C	NAME OF UTILITY CONTRACTOR:					
SURVEY & DRAFTING	SURVEY & DRAFTING DIVISION AS-BUILT DATE:					

MANHOLE TABULATION CHART						
NO.	NORTHING	EASTING	RIM ELEVATION			
700	593300.00	1367574.06	404.56			

SHC INVE	RT @ PROPERTY LINE	. CHART
STATION	LOT	ELEVATION
	EX. MH 2909 TO EX. MH 2990	
<i>0</i> +67 LT.	2	470.88
	EX. MH 2990 TO MH 700	
	3 (5HC @ MH @ 1.00%)	473.63

405

480

475

470

465

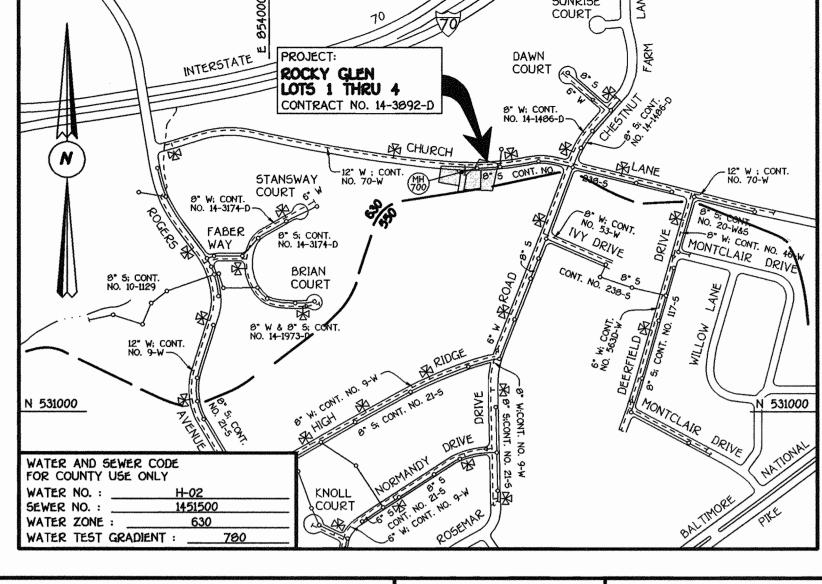
-EX. Θ" 5 (CONT.

NO. 238-5)

EX. 8" 5 (E)

INV.= 471.76

~EX. 6" SHC



TYPE OF BUILDING : RESIDENTIAL; SINGLE FAMILY DETACHED
NUMBER OF LOTS: 4 (3 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS :1
NO. OF SEWER HOUSE CONNECTIONS :2
DRAINAGE AREA: PATAPSCO
REATMENT PLANT : PATAPSCO WASTEWATER TREATMENT

PLANT; CITY OF BALTIMORE

PLAN REFERENCE NUMBERS: 599-19 F00-171 F00-172

VICINITY MAP

SCALE : 1" = 600"

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.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION - 531-5533 BALTIMORE GAS & ELECTRIC CO.. - CONTRACTOR SERVICES - 850-4620 BALTIMORE GAS & ELECTRIC CO., - UNDER GROUND DAMAGE CONTROL - 787-9068 MISS UTILITY - 1-000-257-7777

COLONIAL PIPELINE CO. - 795-1390 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900

- 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 CONTRACTOR 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE
- INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN. 11. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 13. T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52. 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. 19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS,
- STANDARD DETAIL G5.51. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- 21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED. 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE
- 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (WI.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS
- 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM
- 27. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- 28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (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.

CONTRACT NO. 14-3892-D ROCKY GLEN LOTS 1 THRU 4 WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS.

DEVELOPER'S CERTIFICATION

WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL

ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING

PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING

THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE

HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS

ENGINEER'S CERTIFICATION

" I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL

PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS

ARE DEEMED NECESSARY."

CONSERVATION DISTRICT."

FOR ROCKY GLEN L.L.C.

FOR ROCKY GLEN L.L.C.

& M Derman

CHIEF . BUREAU OF UTILITIES

HOWARD COUNTY, MARYLAND

INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF

" I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION

490 490 EX. PAVING -485 — EX. GROUND @ ஒ 8" W EX. 12" W (CONT. NO. 70 W); 480.00 - \ 0+31.27 @ 0 5 XING 480 479.03 -FUTURE 8° W 0+00 ----CONNECT TO EX. 12" W W/ 0+50 --475 475 478.34 12"XO" TAPPING SLEEVE & VALVE 6" PLUG & BUTTRESS 477.83 470 470 PROFILE 465 SCALE: HORZ. : 1" = 50' 460 460

8" WATER MAIN EXTENSION

8" SEWER MAIN EXTENSION

PROFILE

SCALE: HORZ. : 1" = 50'

CHURCH LANE

EX. GROUND

@ € 8" 5 —

8" 5 @ 0.72%

472.79

CONNECT TO EX.

MH AND REFORM

CHANNEL; 471.76

MH SET MH RIM FLUSH 700 W/ PROPOSED GRADE

MH @ 1.00% LOT 3

473.12

PROVIDE 3"

KNOCKOUT PANEL (SOUTH)

490

EX. PUBLIC R/W

Michael D. Trimble SIGNATURE OF DEVELOPER DEPARTMENT OF PLANNING AND ZONING DEPARTMENT OF PUBLIC WORKS

9-15-00

DATE

HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC. uare office park - 10272 Baltimore National P



J	AUGUST, 2000	BY	NO.	REVISION	DATE	FILE	NAME : _
١	DATE :						F
1	P.W.K.						600, 2C
4	CHECKED BY:						
1							•
	DRAWN BY : M.D.T.						ł AA V 1
	M.D.T.						WAT
	DESIGNED BY :						

WATER AND SEWER MAINS PLAN AND PROFILE

K:/30676 FINAL WATSEW PLAN VIEW

ROCKY GLEN LOTS 1 THRU 4 CONTRACT NO. 14-3892-D SECOND ELECTION DISTRICT 600' SCALE MAP NO. ______BLOCK NO. ____ HOWARD COUNTY, MARYLAND F.C.C. WORK ORDER NO. ____30676

SHOWN

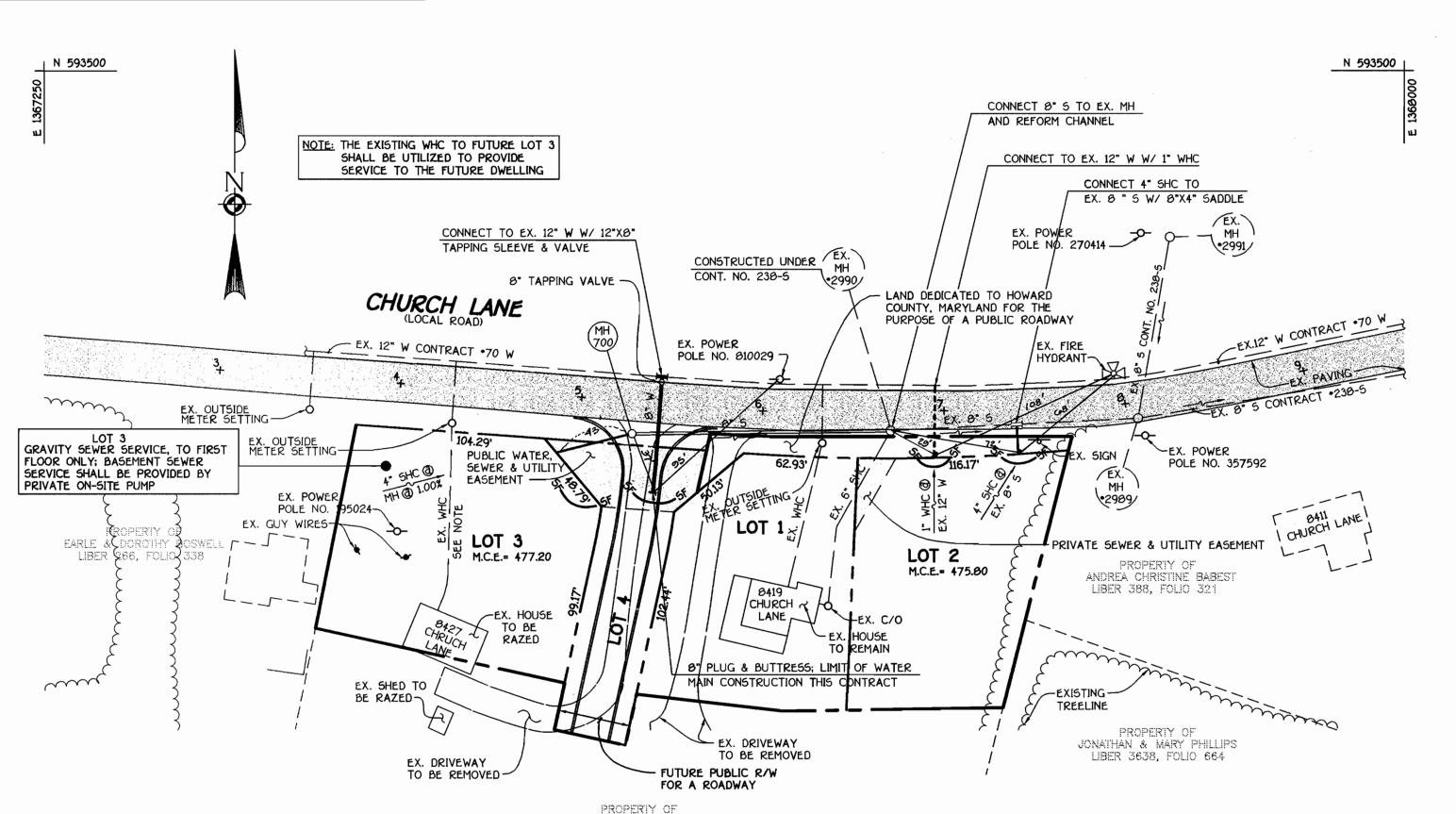
SHEET 1 of 1

IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

FOR ROCKY GLEN L.L.C.

Michael D. Timble

, BUREAU OF UTILITIES /



PLAN

SCALE: 1" = 50'

ROCKY GLEN, L.L.C.

EX. PAVING -

70 W); 480.00 - \

EX. 12" W (CONT. NO.

485

		QUANTITI	E 5			
		AS-BUILT				
ITEM	ESTIMATED	QUANTITIES	TYPE	SUP	PLIER	
0" SEWER	143 L.F.	143'	P. V.C.	BELAIR	RD. 5	UPPLY
4" SEWER	57 L.F.	57'	P.V.C.	u	٠	ų
MANHOLE5	1 EACH	1	PRE-CAST CONC.	t	(ı	le
O" WATER	64 L.F.	64'	OIP	•	4	4
1" WATER	40 L.F.	40'	COPPER	4	4	4
12" X Ø" TAPPING SLEEVE & VALVE	1 EACH	1		lı	4	4
Ø" PLUG & BUTTRESS	1 EACH	1		ų	. u	lı.
NAME OF UTILITY C	ONTRACTOR: (DUSCLIDATION C	ONTRACTING SERVICE	Œ		
SURVEY & DRAFTING	DIVISION AS-B	UILT DATE:				

MANHOLE TABULATION CHART						
NO.	NORTHING	EASTING	RIM ELEVATION			
700	593300.00	1367574.06	484.56			

SHC INVERT @ PROPERTY LINE CHART					
STATION	LOT	ELEVATION			
EX. MH 2909 TO EX. MH 2990					
0+67 LT.	2	470.88			
EX. MH 2990 TO MH 700					
@ MH 700 LT.	3 (5HC @ MH @ 1.00%)	473.63			

490

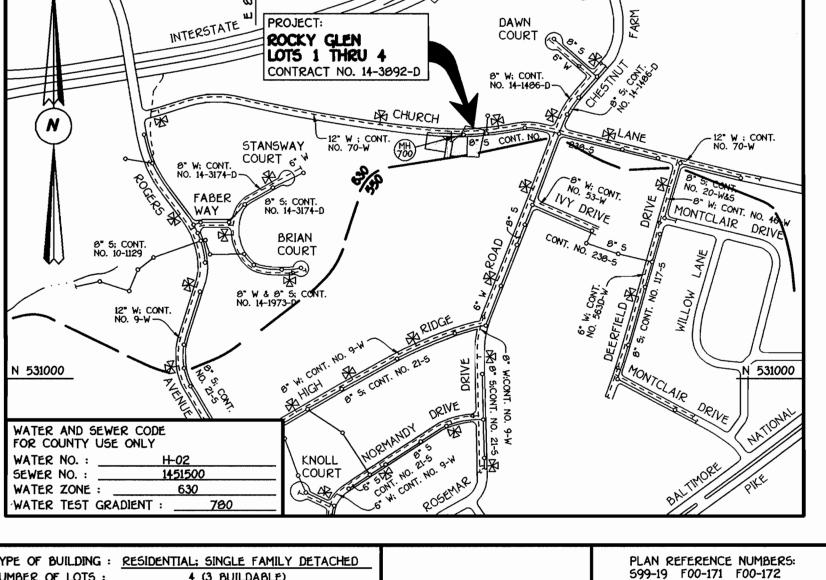
-EX. Θ" 5 (CONT.

NO. 238-5)

- EX. 8" 5 (E)

INV.= 471.76

EX. 6" 5HC INV.= 471.93



TYPE OF BUILDING : RESIDENTIAL; SINGLE FAMILY DETACHED NUMBER OF LOTS : 4 (3 BUILDABLE) NO. OF WATER HOUSE CONNECTIONS : NO. OF SEWER HOUSE CONNECTIONS

PLANT: CITY OF BALTIMORE

TREATMENT PLANT : PATAPSCO WASTEWATER TREATMENT

VICINITY MAP

SCALE : 1" = 600"

GENERAL NOTES

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STATE HIGHWAY ADMINISTRATION - 531-5533 BALTIMORE GAS & ELECTRIC CO.. - CONTRACTOR SERVICES - 050-4620 BALTIMORE GAS & ELECTRIC CO.. - UNDER GROUND DAMAGE CONTROL - 787-9068

MISS UTILITY - 1-000-257-7777

COLONIAL PIPELINE CO. - 795-1390 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE

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- 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND
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CONTRACT NO. 14-3892-D

ROCKY GLEN

WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

M.D.T. DRAWN BY M.D.T. CHECKED BY P.W.K. AS-BUILT CONDITIONS ADDED TO PLAN DATE : AUGUST, 2000 REVISION

~ 4**7**2.79

CHURCH LANE

EX. PUBLIC R/W

EX. GROUND

h-----

8" 5 @ 0.72%

PROFILE

8" SEWER MAIN EXTENSION

SCALE: HORZ. : 1" = 50"

VERT. : 1" = 5"

CONNECT TO EX.

MH AND REFORM

CHANNEL; 471.76 -

472.00

MH SET MH RIM FLUSH

----h

MH @ 1.00% LOT 3

473.12

PROVIDE 3" -

KNOCKOUT PANEL (SOUTH)

(700 W/ PROPOSED GRADE

WATER AND SEWER MAINS PLAN AND PROFILE

600' SCALE MAP NO. ____18___ BLOCK NO. ___

DATE FILE NAME :

F.C.C. WORK ORDER NO. ____30676_

K:/30676 FINAL WATSEW PLAN VIEW

ROCKY GLEN LOTS 1 THRU 4 CONTRACT NO. 14-3892-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE SHOWN SHEET

1 of 1

-0+31.27 **@** 8" 5 XING 480 479.03 FUTURE 8" W 0+00 ----CONNECT TO EX. 12" W W/ 0+50 - -475 12"X8" TAPPING 478.34 - 0+64 SLEEVE & VALVE 8" PLUG & BUTTRESS 477.83 470 PROFILE 465 SCALE: HORZ. : 1" = 50" VERT. : 1" = 5'

— EX. GROUND @ Ç છ" W

8" WATER MAIN EXTENSION

IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS. 09 07 00

SIGNATURE OF DEVELOPER DEPARTMENT OF PLANNING AND ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

9-15-00

DATE

09 07 00

9/W/w CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

IFISHER, COLLINS & CARTER, INC. L ENGINEERING CONSULTANTS & LAND SURVEYOR DUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PR ELLICOTT CITY, MARYLAND 21042



490

485

485

480

475

470

465

460