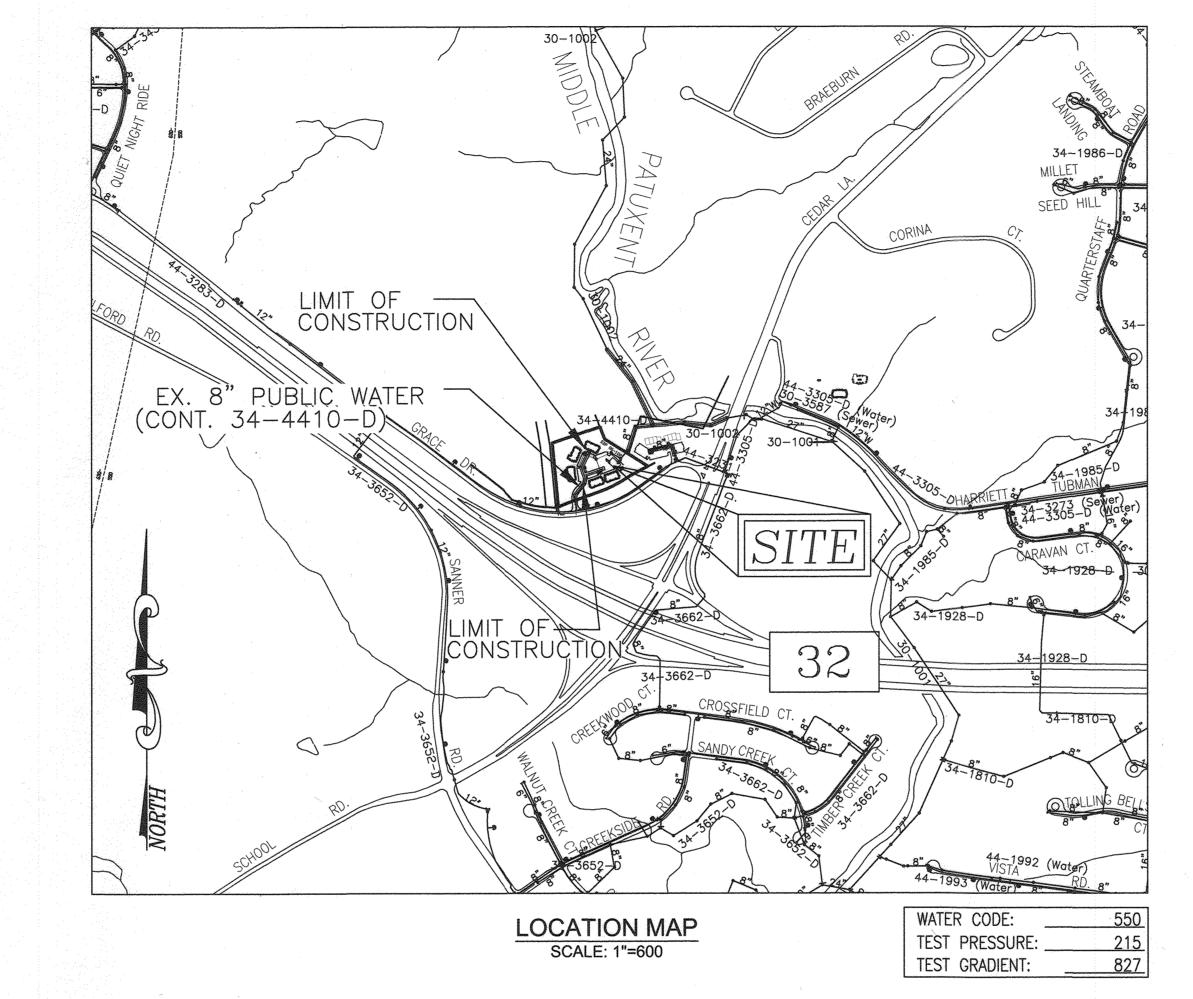
ROBINSON OVERLOOK

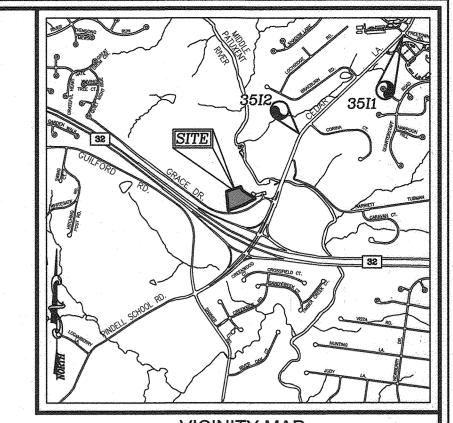
MULTIFAMILY APARTMENTS 7410 GRACE DRIVE COLUMBIA, MD. 21045

FINAL WATER PLAN CONT.NO.-44-5087-D



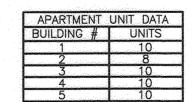
TYPE OF BUILDING :	RESIDENTIAL APARTMENT
NO. OF APARTMENT UNITS :	48
NO. OF LOTS/PARCELS :	1
NO OF SINGLE WATER HOUSE CONNECTIONS :	5
NO OF TWIN WATER HOUSE CONNECTIONS :	0
NO OF SEWER HOUSE CONNECTIONS :	5
SEWER SHED :	N/A
TREATMENT PLANT :	N/A

COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 13G1, 24C2. 35|1 N 557,110.367 E 1,344,893.647 ELEV. 400.068 35|2 N 555,100.814 E 1,342,733.092 ELEV. 329.743



	LEGEND	
	EXISTING TREELINE PROPOSED TREELINE	
	EXISTING WATER MAIN -	W
	PROPOSED WATER MAIN	
ζ.	FIRE HYDRANT PROPOSED VALVE	₩
	PROPOSED TEE PROPOSED STORM DRAIN	
	EXISTING STORM DRAIN	SD
	EXISTING SEWER	SS
	SEWER MANHOLE	
	PRIVATE WATER HOUSE CONNECTION PRIVATE SEWER	Minimal Minimal Minimal Equation Colored Colored
	PROPOSED SIGN	•
	PROPOSED LIGHT	*

QUANTITIES NAME OF UTILITY CONTRACTOR: MAROCCO CONSTRUCTION							
ITEMS	QUANTITIES	AS-BUILT					
TICINO	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIE			
WATER (PVC C900, DR-18)							
8" WATER MAIN (PVC C900)	341 LF	328 LF		J.M. EAGLE			
6" WATER MAIN (PVC C900)	34 LF	42 LF		J.M. EAGLE			
4" WATER MAIN (PVC C900)	50 LF	46 LF		J.M. EAGLE			
FIRE HYDRANT	2 EACH	3		KENNEDY			
8"x 6" FIRE HYDRANT TEE AND VALVE	2 EACH	3		KENNEDY			
8" 1/32* BEND	1 EACH	1	.*	SIGMA CORPORATION			
8" 1/16' BEND	2 EACH	1		SIGMA CORPORATION			
8" 1/8" BEND	1 EACH	1.		SIGMA CORPORATION			
8" VALVE	2 EACH	2		KENNEDY			
8"X8" TEE	1 EACH	ı	1.	SIGMA CORPORATION			
8"x4" TEE	5 EACH	5		SIGMA CORPORATION			
8" GATE VALVE	1 EACH						
4" GATE VALVE	5 EACH	5		KENNEDY			
8" CAP AND BUTTRESS	2 EACH	2	1	SIGMA CORPORATION			



OWNER/DEVELOPER ROBINSON OVERLOOK LIMITED PARTNERSHIP 500 S. FRONT STREET, 10TH FLOOR COLUMBUS, OH 43215 (614) 396-3200

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

PER SDP-19-055.

SOIL CONSERVAINED DISTRICT

GENERAL NOTES

. HORIZONTAL AND VERTICAL SURVEY CONTROLS:

STARTING WORK SHOWN ON THESE PLANS:

SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

OTHERWISE PROVIDED FOR ON THE DRAWINGS.

WITH THE HOWARD COUNTY DESIGN MANUAL.

PVC MAINS SHALL BE DUCTILE IRON.

ART II - WATER

ALL WATER MAINS SHALL BE DE (DR-18) UNLESS OTHERWISE NOTED.

REFERENCING OF THE PIPE SUPPLIED TO THE REST RECORDS RECEIVED.

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS

BGE (CONTRACTOR SERVICE).

STATE HIGHWAY ADMINISTRATION.

BGE (EMERGENCY). BUREAU OF UTILITIES.

MISS UTILITY. .

PART II - WATER

COLONIAL PIPELINE CO.

APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED

CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS

PITS. 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

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE

.410-637-8713

410-313-4900 .410-795-1390

1-800-257-7777

. 410-531-5533

1-800-743-0033

10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH

. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE

ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS

FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE

INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN

TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE

UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL

SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND ZINC ANODES

FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR

THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS

VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD

TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN

WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER

THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES

THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.

IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. TOPOGRAPHY FIELD SURVEYS WERE PERFORMED ON MARCH 1998 BY POTOMAC AERIAL SURVEYS.

ALL VERTICAL CONTROLS ARE BASED ON NAVD' 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE

MANUAL, VOLUME IV. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION).

CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATION AT HIS OWN EXPENSE.

THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.

TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

BY HOWARD COUNTY GEODETIC CONTROL STATIONS 3511 AND 3512.

GEODETIC SURVEY CONTROL 3512 (N 555100.777/E 1342733.051)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AT 10.6' W OF CEDAR LANE; AND 31.6' N AND 21.8' S OF DRIVEWAYS WITHIN HOUSE 6618 AND 6636.

GEODETIC SURVEY CONTROL 3511 (N 557110.405/E 1344893.679)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AT BETWEEN FREETOWN RD AND GIANT PARKING LOT, E OF CEDAR LANE; AND 41' SW OF CROSS BAT AND 4.3' N OF SIGN.

> DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS · SURVEYORS · PLANNERS 3300 N. RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

	A STATE OF THE PARTY OF THE PAR	PROFESSIONAL CERTIFICATE I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2020					FINAL CONSTRUC CONTRACT NO
	78 NO 16193	DRN: LRC DES: LRC					CUNTRACT NO
+	THE STORE ENGINEERING	CHK: RHV	WRA	\triangle	ADDED QUANTITIES	11/2020	
R	DBIRT H. VOGEL, PE No. 16193	DATE: JULY 3, 2019	BY	NO.	REVISION	DATE	600' SCALE MAP NO35

FINAL WATER CONSTRUCTION PLAN CONTRACT NO. 44-5087-D

ROBINSON OVERLOOK HOUSING COMMISSION HOUSING DEVELOPMENT 48 APARTMENTS

7410 GRACE DRIVE COLUMBIA, MD. 21045 ZONED: POR L. 08684/F. 0005

TAX MAP 35 BLOCK 22 BLOCK NO. 22 3RD ELECTION DISTRICT

SHEET PARCEL 86 HOWARD COUNTY, MARYLAND

SCALE

SHOWN

SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH

