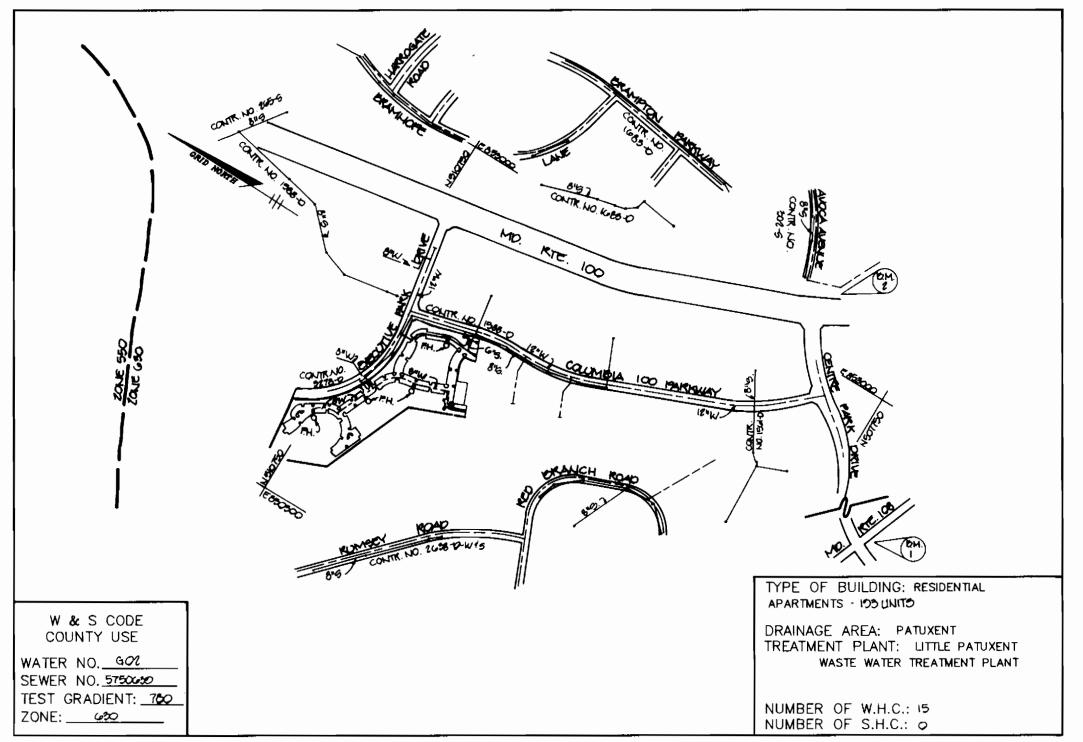
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	QUANTITIES ESTIMATED	AS-BUILT		
ITEMS		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
2" WATER	1092 L.F.	1097	TYK	CAMBRIDGE INS
FIRE HYDIKANT	4 ea.	3	A 473	MUELLER
B' WATER MAIN	1253 L.F.	1258	PIP CL 32	TYLER PIPE
G"WATER	164 L.F.	167	11 11 11	(1)
8" PLUG + BUTTRESS	2 ea.	2	M 11 /5	15 10
8" x 6" KODUCER	3 00.	3		11 11
8" VALVE	3 ea.	3	MJRS	MUELLER
C"VALVE	15 es.	4	11 11	11
8"x G"TEC	12ea.	6	DIP RS	TYLER PIPE
8"x 6" CROSS	2 ea.	2	15 11	15 /1
8"x6" 08038	lea.	2	(1)	
4' SAN, MANHOLE	3 ea.	2	PRECAST	ATLANTIC
8" SEWER	40 LF	42	PVC 508 35	AI PIPE
				3987
AA & SAND IN				
		-		
U.S. (187 #1-7)				

CHECKBOX					
AS-BUILT DATE					
SURVEY AND DRAFTING DIVISION					

WATER AND SEWER EXTENSION ORCHARD CROSSING CONTRACT NO. 24-3324-D 2nd ELECTION DISTRICT



VICINITY MAP SCALE : 1"=600'

BENCHMARKS

B.M. #1 HO. CO. 2743010-R 3/4" REBAR 0.4' BELOW SURFACE, 34.7' SOUTH OF CUR ON MARYLAND ROUTE 108, 175' EAST OF G PHELPS LUCK DRIVE

B.M. #2 ELEV. 525.51

NAIL IN STONE AT PROPERTY CORNER COLUMBIA

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. 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 contacted 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 poles.
- 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.
- five working days before starting work shown on these plans: State Highway Administration

8. Contractor shall notify the following utility companies or agencies at least

850-**46**20 Baltimore Gas & Electric Co. Contractor Services Baltimore Gas & Electric co. Underground Damage Control 787-9068 1-800-257-7777 Miss Utility 795-1390 Colonial Pipeline Co.

9. Trees 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 line of excavation.

Payment for such removal shall be included in the unit price bid for

- construction of the main. 11. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 12. Taps of all water mains to have a minimum of 3-1/2 cover unless otherwise
- 13. Valves adjacent to tees shall be strapped to tees.
- 14. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 15. Fire hydrants shall be set to the bury line 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 shall be compacted in accordance with Section 1000 and 1005 of the Standard
- 16. The contractor shall not operate any water main valves on the existing water
- 17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 18. All sewer mains shall be DIP, RCP, VCPX, CSPX, RCCP AND P.V.C. unless
- 19. All manholes shall be 4'-0'' inside diameter unless otherwise noted.
- 20. Manholes shown with 12" and 16" walls are for brick manholes only.
- 2). 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
- 22. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Sediment control measures for this control

219 of the Crecifications and as shown on SDP-93- 1

Review for Howard Soil Conservation District and

will be implemented in accordance with Section

HOWARD STI CONSERVATION DISTRICT :

CHIEF, BUREAU OF UTILITIES DATE

meets technical requirements.

RIEMER MUEGGE & ASSOCIATES, INC. 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282



2	DES: J.C.O.					
	DRN: J.C.D.					TITLE SHEET
, ,	CHK: D.F.					
12-29-13	DATE: 10-25-99	ВY	ND.	RE√ISI□N	DATE	600' SCALE MAP ND

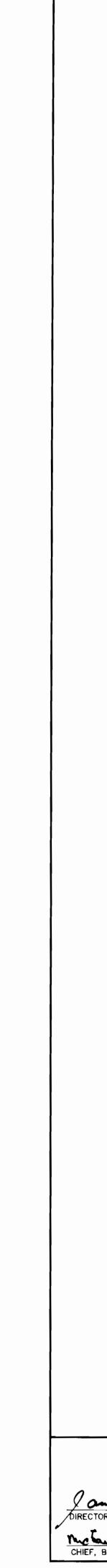
ORCHARD CROSSING COLUMBIA 100 OFFICE RESEARCH PARK TAX MAP 30 PARCEL X, Y & Z 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3324-D

SHOWN

SCALE

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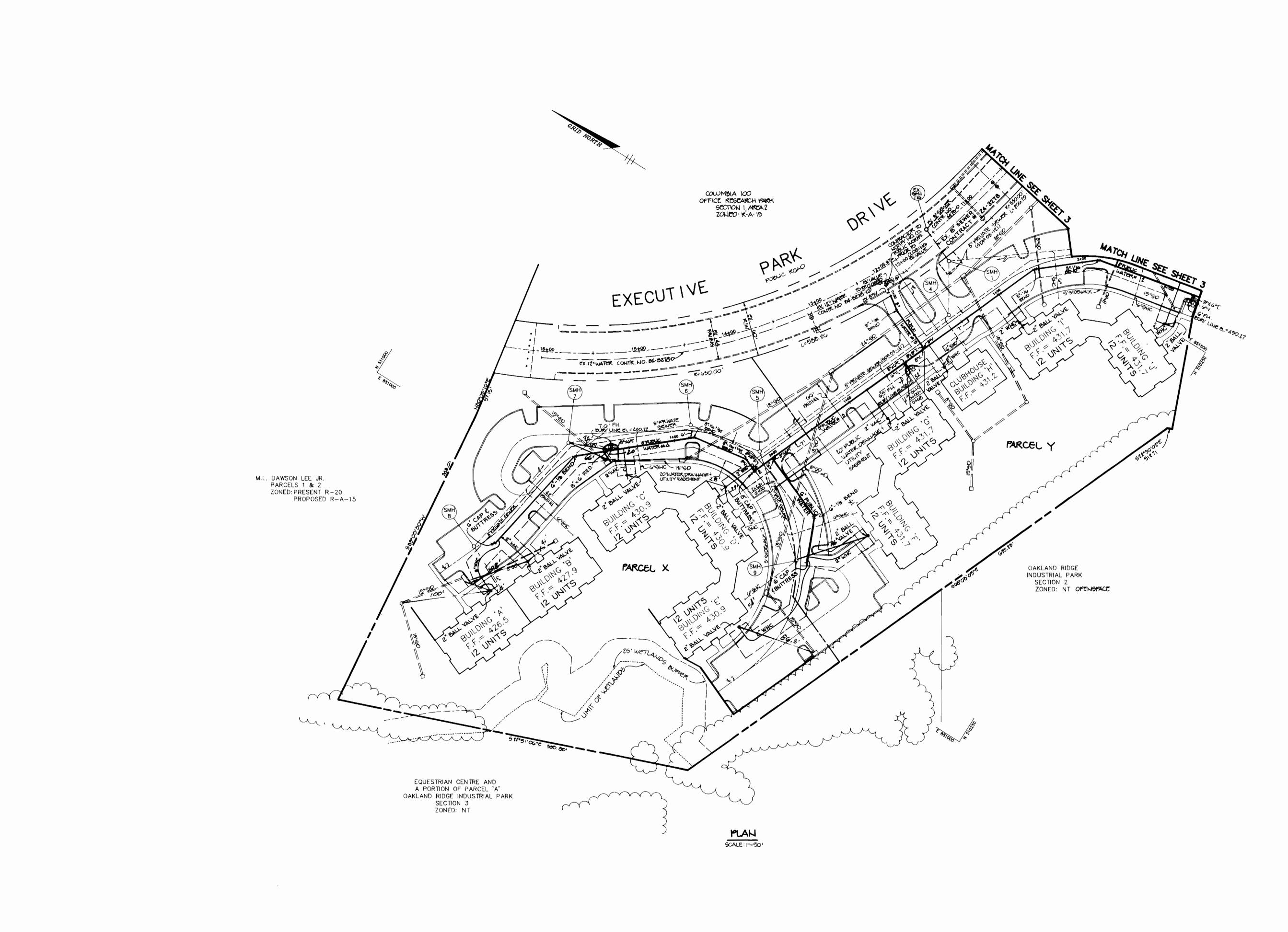
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DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive Suite 200 Columbia, Md
410-997-8900 FAX: 410-997-9282



CHK: DF

JAYKANT O PAKEKH # 1940

REVISED 2" BALL VALVES, ALL BLDG. WHO LINES, TO EDAY OF UTILITY EASEMENTS. MOVED EASE, ON BLDG. E 11, 5' F. Bldg. Face. 4/22/94

REVISION

ORCHARD CROSSING COLUMBIA 100 OFFICE RESEARCH PARK Tax map 30 parcel x,y & Z

WATER AND SEWER PLAN

600' SCALE MAP NO. 30 BLOCK NO. 12

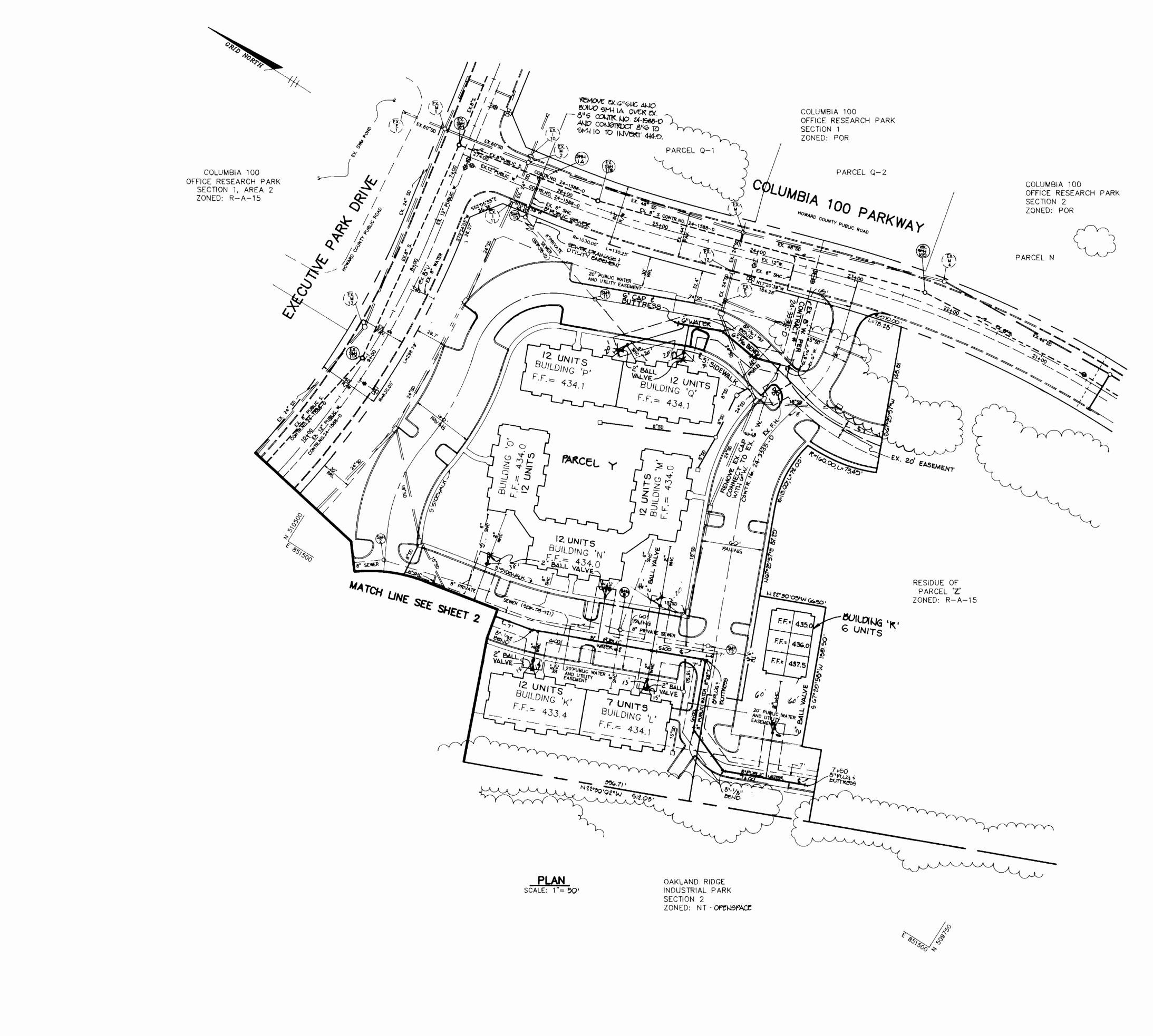
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3324-D SCALE AS SHOWN

SHEET 2_OF_4_

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF UTILITIES RANGE DATE

HOWARD COUNTY, MARYLAND



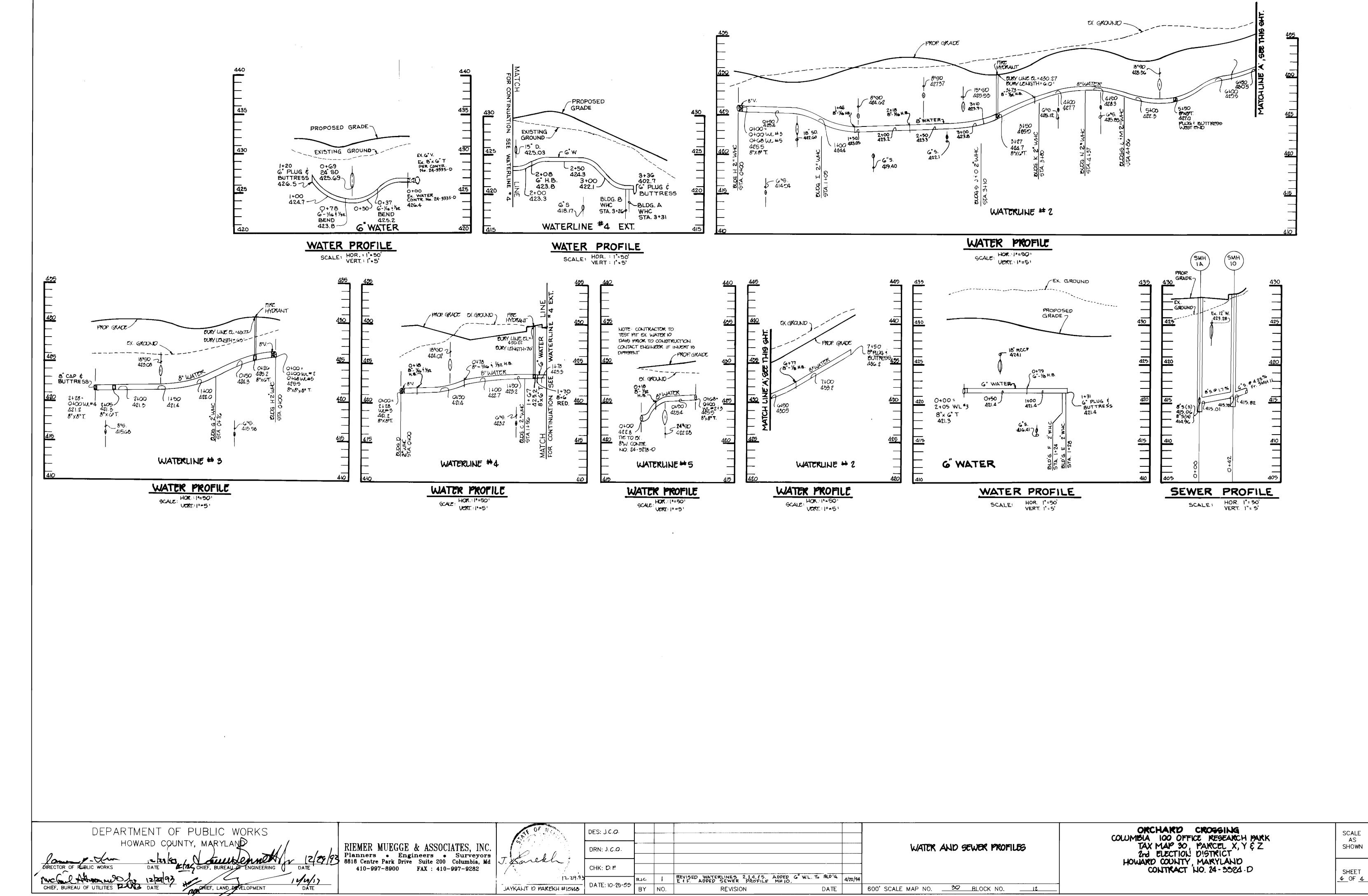
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410-997-8900 FAX: 410-997-9282

DRN: J.C.Q. WATER AND SEWER PLAN JAYKANT D PAREKH#1948 600' SCALE MAP NO. 30 BLOCK NO. REVISION

ORCHARD CROSSING

COLUMBIA 100 OFFICE RESEARCH PARK TAX MAP 30 PARCEL X, Y & Z 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3324-D

SCALE AS SHOWN SHEET 3 OF 4



3324

2-13-95