SCALE: 1"=60"

STA 7+04 NEW SS MH
RIM EL= 2303.76
INV= 2297.82(E&W)
INV=2298.02(S)

NOTES:

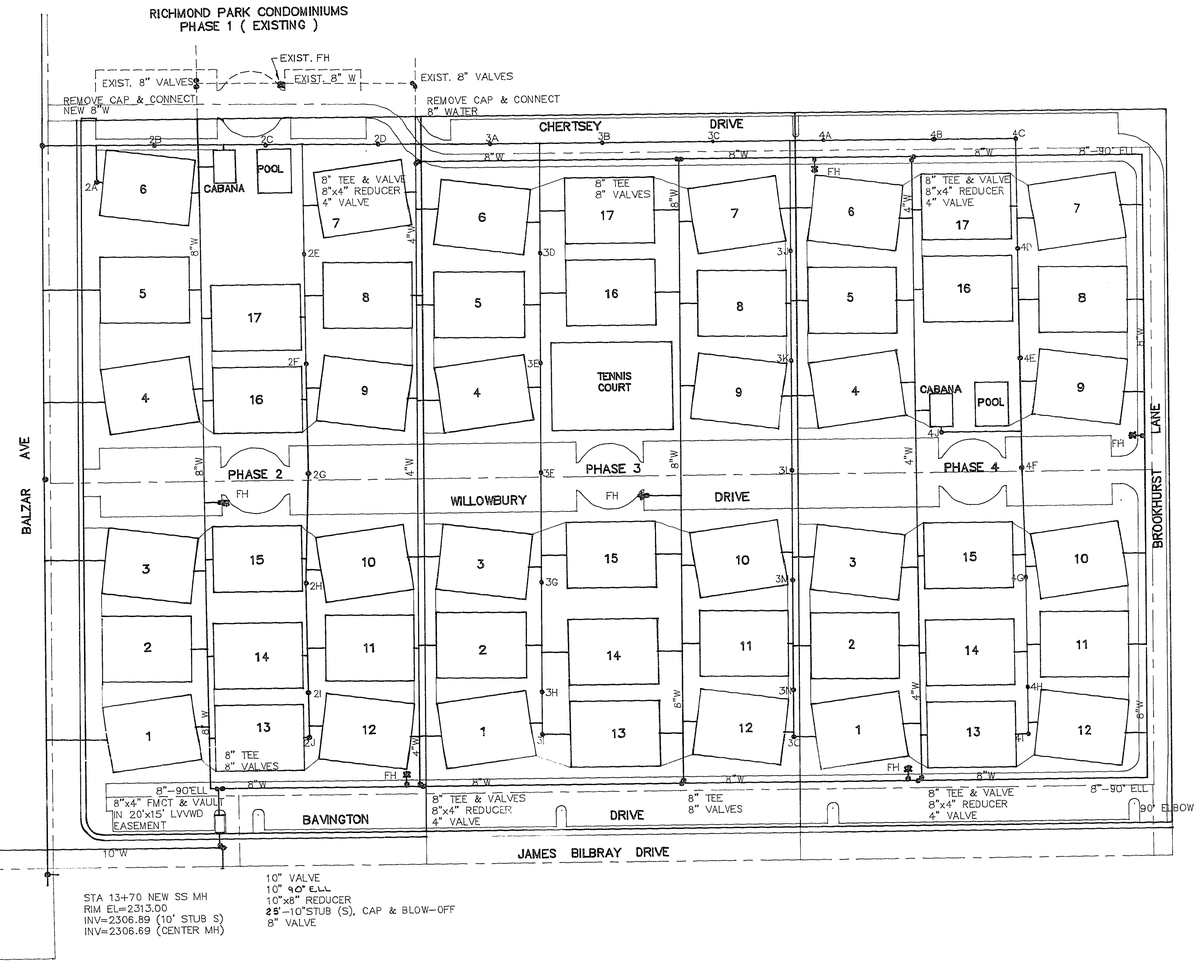
FMCT-THE MATERIAL AND VAULT WITH NON-TRAFFIC BEARING COVER, MUST BE INSTALLED IN ACCORDANCE WITH THE DISTRICT'S STANDARD PLATES AND WITH STANDARD VAULT DRAWING C-475 REV 3.
ANY FUTURE BLOCK WALL OR FENCE MUST BE DESIGNED AROUND THE EASEMENT, SO AS TO ALLOW THE DISTRICT ACCESS TO THE VAULT FROM THE ADJACENT RIGHT-OF-WAY. VAULT EASEMENT 15'x20'

ALL ON SITE SEWER IS TO BE PRIVATELY OWNED AND MAINTAINED, INCLUDING THAT PORTION EXTENDING INTO PUBLIC RIGHT-OF-WAY, OUT TO THE POINT OF CONNECTION.

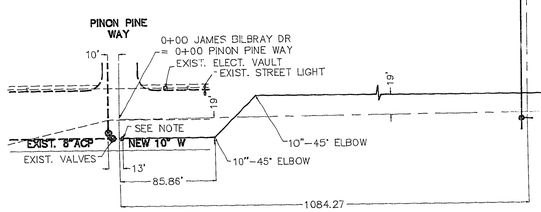
6" SANITARY SEWER COLLECTORS (S=0.01) UNLESS OTHERWISE NOTED
4" BUILDING SEWER SERVICES (S=0.02) UNLESS OTHERWISE NOTED
DISTANCE BETWEEN CLEANOUTS IS 100 LF UNLESS OTHERWISE NOTED

WATER SERVICES ARE 1 1/2" TYPICAL UNLESS OTHERWISE NOTED
SIZE OF WATER SERVICE FOR POOL TO BE DETERMINED BY POOL CONTRACTOR

STA 10+08.4 NEW SS MH
RIM EL=2307.80
INV=2301.63 CENTER MH



NOTE:
REMOVE EXIST. CAP, PLACE 10"x8" REDUCER AND CONNECT NEW 10" WATER MAIN



STA 13+70 NEW SS MH
RIM EL=2313.00
INV=2306.89 (10' STUB S)
INV=2306.69 (CENTER MH)

10" VALVE
10" 90° ELL
10"x8" REDUCER
25'-10"STUB (S), CAP & BLOW-OFF
8" VALVE

ESTIMATED SANITARY SEWER QUANTITIES

OFF SITE	
SS MH	3 EA
8" SS MAIN	737 LF
4" SS SERVICES	180 LF

ON SITE PHASE 2	
8" CLEANOUT	3 EA
6" CLEANOUT	6 EA
4" CLEANOUT	1 EA
8" SS MAIN	340 LF
6" SS COLLECTOR	641 LF
4" BLDG SERVICE	265 LF

PHASE 3	
8" CLEANOUTS	3 EA
6" CLEANOUTS	12 EA
8" SS MAIN	335 LF
6" SS COLLECTOR	1079 LF
4" BLDG SERVICE	160 LF

PHASE 4	
8" CLEANOUT	3 EA
6" CLEANOUT	6 EA
4" CLEANOUT	1 EA
8" SS MAIN	200 LF
6" SS COLLECTOR	538 LF
4" BLDG SERVICE	274 LF

SANITARY SEWER CLEANOUT DATA – BASE ELEVATION 2300

PHASE 2 CLEANOUT	INV ELEV	RIM ELEV
2A	99.81	05.5
2B	98.82	04.8
2C	99.62	05.8
2D	00.42	06.2
2E	01.39	06.6
2F	02.89	07.9
2G	04.39	08.8
2H	06.89	10.5
2I	09.39	11.9
2J	10.42	13.0

PHASE 3 CLEANOUT	INV ELEV	RIM ELEV
3A	01.22	06.0
3B	01.72	06.5
3C	02.22	07.0
3D	02.94	07.7
3E	04.44	09.0
3F	05.94	09.8
3G	07.40	11.6
3H	10.90	12.7

CLEANOUT	INV ELEV	RIM ELEV
3I	12.30	15.5
3J	04.70	08.7
3K	05.57	10.0
3L	07.07	10.9
3M	08.07	12.7
3N	09.07	13.8
3O	09.84	14.9

PHASE 4 CLEANOUT	INV ELEV	RIM ELEV
4A	02.72	07.5
4B	03.22	08.0
4C	03.60	08.4
4D	05.10	10.2
4E	06.60	11.5
4F	08.10	12.0
4G	09.12	13.6
4H	12.12	14.8
4I	12.50	16.0
4J	09.00	12.7

ESTIMATED WATER QUANTITIES

OFF SITE	
10" WATER MAIN	1250 LF
8" WATER MAIN	11 LF
10" TEE	1 EA
10" VALVE	1 EA
10"x8" REDUCER	1 EA
10"-45 ELL	2 EA
8" VALVE	1 EA

ON SITE PHASE 2	
8"x4" FMCT	1 EA
VAULT	1 EA
8" WATER MAIN	835 LF
4" WATER MAIN	560 LF
8" TEE	3 EA
8" VALVE	4 EA
8"-90 ELBOW	1 EA
8"x4" REDUCER	2 EA
4" TEE	1 EA
4" VALVE	2 EA
4"-90 ELBOW	0
1 1/2" BLDG SERVICE	130 LF
FH ASSEMBLY *	2 EA

PHASE 3	
8" WATER MAIN	1240 LF
4" WATER MAIN	0
8" TEE	2 EA
8" VALVE	4 EA
1 1/2" BLDG SERVICE	180 LF

PHASE 4	
8" WATER MAIN	1210 LF
4" WATER MAIN	570 LF
8" TEE	2 EA
8" VALVE	2 EA
8"x4" REDUCER	2 EA
4" VALVE	2 EA
1 1/2" BLDG SERVICE	230 LF
FH ASSEMBLY *	3 EA

* FH ASSEMBLY INCLUDES; FIRE HYDRANT, 6" PIPE, 6" VALVE, & _x6" REDUCER

Richmond Park Condo 2,3 & 4
APPROVED FOR CONSTRUCTION:

L.V.V.W.D. 3/28/90 Date

REVISIONS	BY

RICHMOND PARK CONDOMINIUMS PHASES 2, 3 & 4
MASTER UTILITY PLAN

KDF ENGINEERING
3407 EL CAMINO
LAS VEGAS, NV

Roy Merriman
2/16/90

DESIGNED R. MERRIMAN
CHECKED
DATE FEB. 1990
SCALE 1"=80'
JOB NO. 89001
SHEET

3074-2645-2