G. PLAN REVIEW CHECKLIST

PROJ	ECT:
ENG	INEER:
PHO	NE:
REVI	EWER:
DAT	E STARTED:
GENI	ERAL:
1	Master Plan Requirements/Well sites required
2	Authority detail sheets used
3	Plat showing existing and proposed easements
4	Plat has proper dedication language
5	Easements shown where facilities are on private property
6	Water and sewer separation statement
7	Project in wellfield protection zone
8	Overall Master Utility Plan
9	Pipe crossings shown with clearances
10	Offsite water, sewer and reclaimed appurtenances properly shown
11	Replace ACP, PVC or VCP pipe
12	Proper materials specified
13 struct	Clearance from buildings (15 feet minimum including footers and overhangs and other cures)
14	Connections to existing facilities clearly detailed
15	Operating nut on valves no deeper than 24 inches below finish grade
16	Pipe/service size
17	Necessary water/sewer detail sheets attached
18	Each unit building served
19.	Utility plan showing conduit crossings and utility boxes

20	Proper cover over existing water, sewer and reclaimed facilities
21	_ Existing and proposed easements by instrument shown
22	_ Existing water, sewer, reclaimed, drainage and large diameter irrigation
23	_ Water and sewer mains have to be extended to furthest property line
24	_ Plan elevations in NAVD 1988 Datum
25	_ Notation for contractor to adjust existing valve boxes, fire hydrants, manholes, etc. to finish grade when impacted by development
	Provide project phasing plan where applicable. If phased show each phase separated by a valve and/or manhole
WATEI	₹:
	_ Proper backflow preventer (including auxiliary water supply user and dual backflows d for critical uses)
2	_ Meter at property line - not in driveway or sidewalk
3	_ Double services where possible
4	_ Water mains looped for projects greater than 25 dwelling units and projects which Authority determines are considered critical use.
5	Proper valving - two at each tee, every 1500 feet, greater than 25 dwelling units
6	_ Double valve point of feed
7	_ Minimum/Maximum cover 2.5 feet to 4.0 feet
8	_ Fire hydrant spacing/provision for line flushing
9	_ Mains in green areas
10	_ Valve boxes for corporations where tap is under paving
11	_ Valve & length of pipe for future extension
12	_ Thrust blocks, tie rods, restrained joints
13	_ Booster pump > 2 stories for domestic service
14	_ No services greater than 75 feet long
15	_ Fire line for building (commercial or multi-family)
16	_ Fire line for single family home
17	_ Large meter/backflow assemblies clearly detailed

18	Bypass on meters > 2 inches and all critical installations
19	Velocity less than 10 fps during fire flows
20	Dead ends minimized
21	Mains and services perpendicular to street where possible
22	Valves in accessible locations
23	Sample points shown
24	Air release valves at high points
SEWER:	
1	Minimum depth 4 feet invert of terminal manhole
2	C-900 pipe for cuts greater than 12 feet
3	D.I.P. installed at crossings not meeting the separation statement
4	Maximum distance between manholes 400 feet
5	Mains under paving - concrete collars on manholes in green areas and in paver block areas
6	Outside drop if drop is greater than 2 feet
7	Minimum/Maximum slopes
8	No oversized pipe
9	No future stubs - terminate with manhole
10	Entry to existing manhole - core only
11	No services tied to manholes
12	Double services where possible
13	Clean out on service lines at property line and at 75 foot intervals on service laterals
14	Grease trap/oil/sand interceptors
15	Profile of gravity sewer mains including proposed finished grades
16	Profile force main including proposed finished grade
17	Valving on force main at 1,500 intervals, two at each tee
18	Manholes and sewer lines designed to be a minimum of 5 feet to curb and right of way

19	Sanitary sewer crossing elevations with conflicting pipe (including sewer service laterals)
20	Valves and manholes in accessible locations
21	Manhole flow channels 90° or greater
22	Manhole depth less than 18 feet
23	Sewer main from lift station to first manhole to be DR 14 C-900 PVC
24	Air release valve at force main high points
25	2% maximum slope of sewer lines if connection to an existing manhole requires a steeper slope, a drop manhole must be utilized to minimize slope
26	Collector manhole at lift station shall be located outside of traffic lanes
27	Lift Station depth less than 26 feet
28	Lift Station Calculations - Signed & Sealed by EOR
	a. average daily flow/peak flow calculations
	b. force main minimum velocity
	c. manifolding force main pressures
	d. pump cycle time
	e. floatation calculations
	f. 240/480 volts
	g. 100-year flood
	h. System curve plotted on proposed pump curve
LAN	IDSCAPE PLANS:
1	Authority details utilized
2	Root barriers shown on plans
3	Water and sewer lines and appurtenances shown
4	Water and sewer easements shown
5	Screening of backflows required by other governmental agencies