

## ATI GOLF IRRIGATION DESIGN CHECKLIST

Line	PROJECT INFORMATION							
1	PROJECT NAME:				CONTACT A NAME:			
2	CLIENT (BILLING) NAME:				CONTACT A EMAIL:			
3	STREET 1:				CONTACT A PHONE:			
4	STREET 2:				CONTACT B NAME:			
5	CITY, STATE, or PROVINCE				CONTACT B EMAIL:			
6	COUNTRY, ZIP CODE				CONTACT B PHONE:			
7	NOTES:							
8								
9								
10								
11								
12								
13								

Line	COURSE PROFILE							
14	QUANTITY OF HOLES:				NEW OR RENOVATION <sup>1</sup>			
15	DRIVING RANGE:	Y or N	QUANTITY		PHASES:	Y or N	QUANTITY	
16	PRACTICE HOLES:	Y or N			SCHEDULE:			
17	BUDGET \$:				STAR LEVEL (1 to 5 Stars per Matrix):			
18	SUPPLIERS TO BID (Check Desired) <sup>1</sup>		NOTES:					
19	TORO							
20	RAIN BIRD							
21	HUNTER							
22	STAGING AREA, MATERIAL STORAGE, ACCESSIBILITY FOR TEMPORARY UTILITIES:							
23								
24	NOTES:							
25								
26								
27								

Line	SOIL, TURF & LANDSCAPE CONDITIONS							
28	SOIL TYPE:		FAIRWAYS	TEES	ROUHS	FAR ROUGH		
29	= SAND CAP, SANDY, LOAM, CLAY, OTHER							
30	VEGETATION PROFILE:							
31	= BERMUDA, PASPALUM, COOL SEASON, NATIVE							
32	OTHER IRRIGATION NEEDS:	NOTES:						
33	GOLF LANDSCAPE REQUIREMENT:							
34	NON GOLF REQUIREMENT:							
35	CLUBHOUSE REQUIREMENT:							
36	NOTES:							
37								
38								
39								

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WATER SOURCE & STORAGE					
40	PRIMARY WATER SOURCE <sup>2</sup> :	QTY / DAY	RATE/ HR.	QUALITY	NOTES:
41	SURFACE WATER	Y or N			
42	WELL WATER	Y or N			
43	EFFLUENT	Y or N			
44	POTABLE (Backflow Rqd)	Y or N			
45	OTHER	Y or N			
46	SECONDARY WATER SOURCE <sup>2</sup> :	QTY / DAY	RATE/ HR.	QUALITY	NOTES:
47	SURFACE WATER	Y or N			
48	WELL WATER	Y or N			
49	EFFLUENT	Y or N			
50	POTABLE (Backflow Rqd)	Y or N			
51	OTHER	Y or N			
52	NOTES:				
53					
54					
55	PUMP 1 LOCATON:		PUMP 1 LOCATON:		
56	IRRIGATION LAKE 1 INFO:	SURFACE AREA	H <sup>2</sup> O ELEV.	BOTTOM ELEV.	PUMP ELEV.
57					
58	IRRIGATION LAKE 2 INFO:	SURFACE AREA	H <sup>2</sup> O ELEV.	BOTTOM ELEV.	PUMP ELEV.
59					
60	TRANSFER DESIGN REQUIRED:	Y or N	ATI DESIGN	Y or N	
61	WATER FEATURE DESIGN REQUIRED:	Y or N	ATI DESIGN	Y or N	
62	NOTES:				
63					

WATER USE REQUIREMENTS					
52	WATER APPLICATION LIMITED BY REGULATIONS	Y or N	NOTES:		
53					
54					
55					
56	EVAPOTRANSPIRATION (ET) PROVIDED BY CLIENT?	Y or N	ET RATE:		
57	(ET) TO BE PROVIDED BY ATI?	Y or N	NOTES:		
58	WEATHER DATA PROVIDED BY CLIENT?	Y or N			
59	NOTES:				
60					
61					

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SPRINKLERS & COVERAGE							
62	SPRINKLER SPACING (Enter G,T,F,R,DR)	COVERAGE (Check One)		SPRINKLER TYPE (Check one/Area)			
63	17 - 19m		Full/Hardline	AREA	V-I-H	BLOCK	QC
64	20 - 22m		4 < ROWS	GREENS			
65	22 - 24m		2 - 3 ROWS	TEES			
66	23 - 24m		1 to 2 ROWS	FAIRWAYS			
67	25m+		1 ROW	ROUGHES			
68	QC Only			NATIVE			
69	NOTES:						
70							
71	SEASIDE WINDY CONDITIONS		Y or N	SPRINKLER PATTERN (Check one/Area)			
72	IN / OUT GREEN PART CIRCLES		Y or N	AREA	TRI.	SQUARE	MIX OK
73	TEE TOP ONLY IRRIGATION		Y or N	GREENS			
74	BUNKER FACE IRRIGATION		Y or N	TEES			
75	BUNKER SAND WIND PREVENTION IRRIGATION		Y or N	FAIRWAYS			
76	IN / OUT FAIRWAY PART CIRCLES		Y or N	ROUGHES			
77	SPECIAL RANGE TARGET GREENS IRRIGATION		Y or N	NATIVE			
78	TRIPLE TOP SWING JOINTS		Y or N	OTHER			
79	SUPPLEMENTAL QUICK COUPLERS (Check One & Quantity Each)						
80	LOCATION (Enter Qty Per Location)	3/4"	1"	1.5"	NOTES		
81	GREENS						
82	TEES						
	FAIRWAY BUNKERS						
83	60M SPACING ALONG HARDLINE						
84	NOTES:						
85							
86							

CONTROL SYSTEM								
87	CONTROL TYPE (Check One)	SAT VOLTAGE	SPRINKLER OPERATION Check one/Area)					
88	SATELLITE & CENTRAL	120 or 240	AREA	INDIVIDUAL	PAIR	MIX	BLOCK	
89	DECODER CENTRAL (Select One Only)		GREENS					
90	OFF FAIRWAY		TEES					
91	AT SPRINKLER		FAIRWAYS					
92	SATELLITE ONLY		ROUGHES					
93	NONE, QC MANUAL		NATIVE					
94	NOTES:							
95								
96	SENSOR (Check If Desired & Quantity)					WIRED or WIRELESS (Check One)		
97	WEATHER STATION	GREENS	TEES	FAIRWAYS				
98	SOIL MOISTURE SENSORS							
99	NOTES:							
100								
101	SATELLITE COMM. (Check One)					DECODER BOND/SHILED WIRE		
102	WIRELESS	SITE SURVEY CONFIRMED		Y or N	MAINLINE ONLY		LATERAL	
103	WIRED	SAT. BOND/SHILED WIRE		Y or N				
104	HYBRID	ELEC. MARKING TAPE		Y or N				
105	CENTRAL CONTROL LOCATION:			SOFTWARE LEVEL:				
106	NOTES:							
107								
108								

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PUMPS						
109	WATER WINDOW (Check One)		PUMP CONTROL (Check One)			FILTRATION (Check One) <sup>3</sup>
110	< 8		VARIABLE FREQUENCY DRIVE (VFD)		Y-STRAINER	
111	8 to 9		PRES. REG. CONTROL VALVE (PCV)		BACKFLUSH	
112	9 to 10		OTHER OPTIONS		NOTES	
113	10 to 12		FERTIGATON <sup>4</sup>			
114	12 <		WATER TREATMENT <sup>5</sup>			
115	HIEGHTEST ELEVATION		BOOSTER PUMPS <sup>6</sup>			
116	LOWEST ELEVATION		WATER FEATURE PUMPS <sup>7</sup>			
117	NOTES:					
118						
119						
120	INTAKE/WET WELL MATERIAL (Check One Each)		PUMP STYLE (Check One)		ELECTRICAL INFO,	
121		INTAKE	WET WELL	VERT. TURBINE	HERTZ	
122	PVC			VERT. CENTRIFUGAL	PHASE	
123	HDPE			HORIZ. CENTRIFUGAL	VOLTS <sup>8</sup>	
124	CMP			INSTALLATION STYLE (Check One)		
125	CONCRETE			ABOVE GROUND		
126	OTHER			VAULT		
127	PUMP COMMUNICATION (Check One)		Y or N	WIRED or WIRELESS		
128	EXTERNAL GENERATOR PLUG		Y or N	SIZE	NOTES	
129	BACKUP PUMP		Y or N	SIZE		
130	POWER CONDITIONER		Y or N	SIZE		
131	SATELLITE POWER SOURCE		Y or N	SIZE		
132	FERTIGATION TAPS		Y or N	QTY		
133	WATER TREATMENT <sup>5</sup>		Y or N			
134	NOTES:					
135						
136						

PIPE, FITTINGS & VALVES						
137	PIPE TYPE (Check One Each)		PVC STABILIZATION		PVC LAT. PIPE TYPE (Check One)	
138		MAINLINE	LATERALS	(Check One)		GASKETED
139	PVC			JOINT REST.	SOLVENT WELD	
140	HDPE			THRUST BLK.		
141	NOTES:					
142						
143						
144	LATERAL PIPE STYLE (Check One)		MAIN VALVES (Check One)		LATERAL VALVES (Check One)	
145	HERRINGBONE		EACH HOLE	< 12 / LATERAL <sup>6</sup>		
146	LOOPED		EVEN HOLES	3-4/Hole		
147	EFFLUENT MARKING		Y or N	LIMITED	2/ Hole	
148	PIPE COLOR OR TAPE		LAT. PIPE INSTALLATOIN		Mainline Only	
149	SPRINKLERS		TRENCHED	VALVE/FITTING TYPE ( One Each)		
150	VAVLE BOXES		TRENCHLESS		MAINLINE	LATERALS
151	NOTES:				D.I.	
152					HDPE	
153						
154						

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INSTALLATION						
155	INSTALLATION METHOD (Check One)					
156	CONTRACTOR (List Sepertely)		PREFERRED:			
157	CONSTRUCTION MANAGEMENT		PREFERRED:			
158	IN-HOUSE		NOTES:			
159						
160						
161						
162	IRRIGATION CONSULTANT DUTIES (Check Desired)		TO BE PAID BY:	OWNER	CONTR.	DIST.
163	MATERIAL TAKEOFF	Y or N				
164	BID MGMT. SERVICES	Y or N				
165	PRE-BID MEETING	Y or N	TAPE	SURVEY		
166	STAKING / LAYOUT	Y or N				
167	INSPECTION	Y or N				
168	AS-BUILT	Y or N				
169	PROGRAMMING	Y or N				
170	NOTES:					
171						
172						

RENOVATION (ONLY)					
173	WHAT IS THE EXPECTATION OF HOW HOLES ARE TO BE LEFT UPON COMPLETION OF INSTALLATION? (Check One)				
174	BACKFILL		TRENCH REPAIR (Check One)		
175	WIND-ROW WITH TRENCHER		CUT SOD AND REPLACE		
176	FINISH GRADE		CUT SOD AND COMPACT ONLY		
177	OTHER		DO NO CUT SOD, COMPACT ONLY		
178	RE-GRASSING		SOD ALL TRENCHES		
179	NOTES:				
180					
181					
182	AREAS TO STOCKPILE OR LOOSE EXCESS DIRT, ROCK AND DEBIS?				
183					
184	EXTENT OF EXISTING UTILITIES:				
185	PUMP STATION REPLACEMENT OR REPAIRS REQUIRED?				
186					
187	RESPONSIBILITY FOR REMOVAL AND DEMOLITION OF EXISTING HARDWARE AND, OR PUMP STATION?				
188					
189	WHO IS RESPONSIBLE FOR REMOVING OLD EQUIPMENT?				
190	DO AS-BUILTS EXIST AND HOW ACCURATE ARE THEY?				
191					
192	CONDITION OF GOLF HOLES PRIOR TO IRRIGATION. WILL ANY SHAPING, TILLING OR RE-GRASSING OCCUR?				
193					
194	HOLE STATUS ON RENOVATIONS? (ALL CLOSED, 9 CLOSED, CLOSE HOLE UNDER COSNSTRUCTION?)				
195					
196	KEEP EXISTING SYSTEM RUNNING?				
197	IF NO, LENGTH HOLE TO BE DOWN WITHOUT WATER?				
198	IF NO, WILL WATER TRUCK BE NEEDED?				
199	ROAD CROSSINGS (Check One)	CART PATH CROSSINGS (Check One)	NOTES:		
200	BORE	CONCRETE			
201	CUT & PATCH	ASPHALT			
202	OTHER	OTHER			