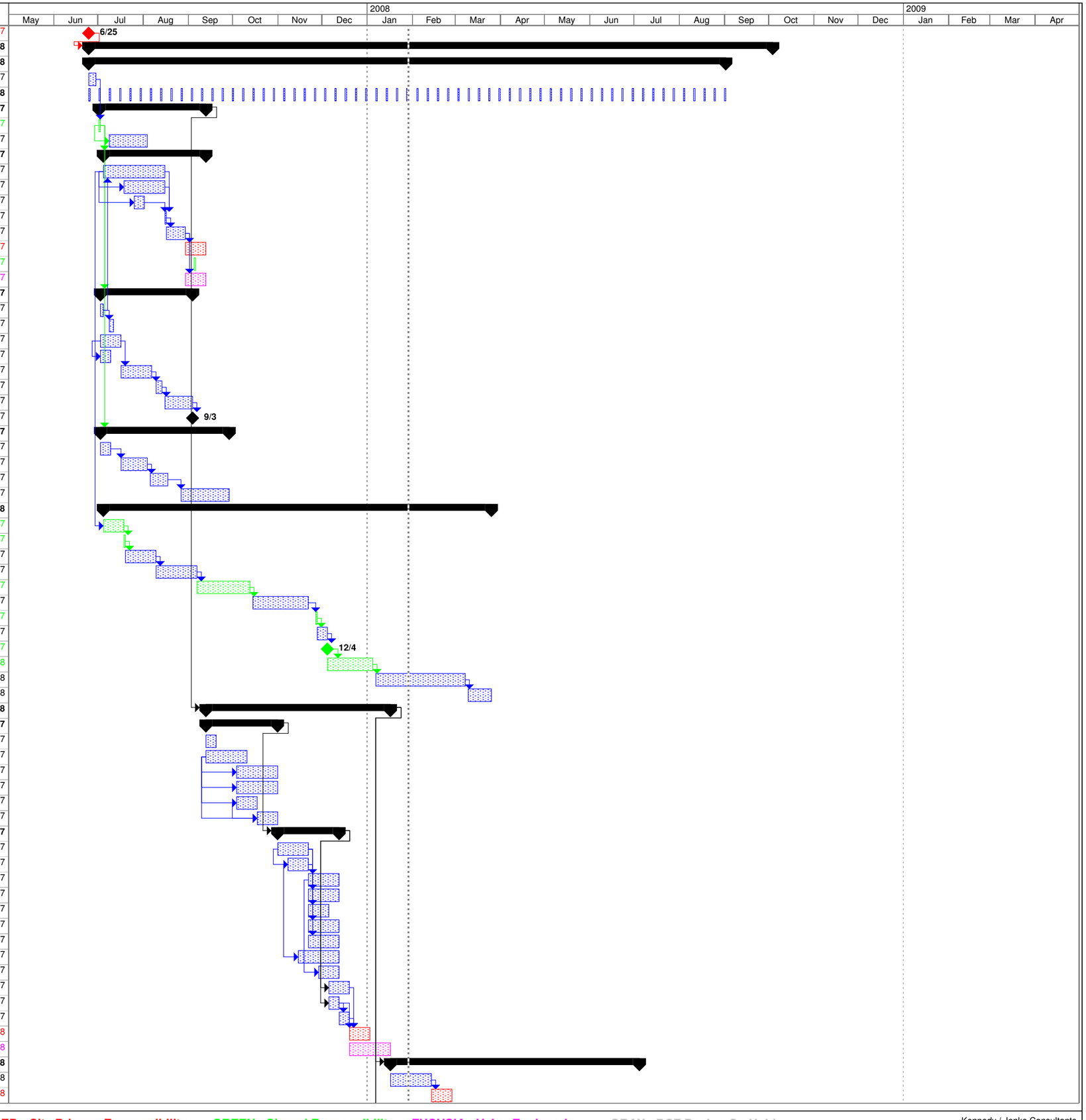
ID	Task Name	Duration	Start	Finish
1	Notice to proceed	0 days	Mon 6/25/07	Mon 6/25/07
2	**Phase 1 - Final Design**	**335 days**	**Mon 6/25/07**	**Fri 10/3/08**
3	**Project Management**	**311 days**	**Mon 6/25/07**	**Mon 9/1/08**
4	Prepare Project Plan	5 days	Mon 6/25/07	Fri 6/29/07
5	**Project Meetings/Teleconferences**	**311 days**	**Mon 6/25/07**	**Mon 9/1/08**
78	**Schematic Design**	**53 days**	**Mon 7/2/07**	**Wed 9/12/07**
79	Kick-Off Workshop	1 day	Mon 7/2/07	Mon 7/2/07
80	Process Modeling	20 days	Mon 7/9/07	Fri 8/3/07
81	**10% WWTP & BCF Design**	**50 days**	**Thu 7/5/07**	**Wed 9/12/07**
82	10% Design and Documents	30 days	Thu 7/5/07	Wed 8/15/07
83	Building Space Programming	20 days	Thu 7/19/07	Wed 8/15/07
84	Environmental Condition Assesment	5 days	Thu 7/26/07	Wed 8/1/07
85	Concept and Criteria Review	1 day	Thu 8/16/07	Thu 8/16/07
86	Schematic Design Technical Memorandum	9 days	Fri 8/17/07	Wed 8/29/07
87	City Review of Schematic Design	10 days	Thu 8/30/07	Wed 9/12/07
88	Workshop with City Staff	1 day	Wed 9/5/07	Wed 9/5/07
89	10% Design Value Engineering	10 days	Thu 8/30/07	Wed 9/12/07
90	**Survey and Mapping**	**45 days**	**Tue 7/3/07**	**Mon 9/3/07**
91	Obtain Existing Mapping	2 days	Tue 7/3/07	Wed 7/4/07
92	Ground Control Survey	3 days	Mon 7/9/07	Wed 7/11/07
93	Survey and Data Reduction	10 days	Tue 7/3/07	Mon 7/16/07
94	Utility Research	5 days	Tue 7/3/07	Mon 7/9/07
95	Basemap Preparation	15 days	Tue 7/17/07	Mon 8/6/07
96	Field Verification	2 days	Fri 8/10/07	Mon 8/13/07
97	Follow-up Survey and Basemap Rev.	13 days	Thu 8/16/07	Mon 9/3/07
98	Basemap Complete	0 days	Mon 9/3/07	Mon 9/3/07
99	**Geotechnical Evaluation**	**64 days**	**Tue 7/3/07**	**Fri 9/28/07**
100	Preliminary Analysis Using Existing Information	5 days	Tue 7/3/07	Mon 7/9/07
101	Soil Borings	14 days	Tue 7/17/07	Fri 8/3/07
102	Analysis and Design Technical Memorandum	10 days	Mon 8/6/07	Fri 8/17/07
103	Draft Geotechnical Report	25 days	Mon 8/27/07	Fri 9/28/07
104	**Membrane Equipment Selection**	**189 days**	**Thu 7/5/07**	**Tue 3/25/08**
105	Confirm Procurement/Selection Process Criteria	10 days	Thu 7/5/07	Wed 7/18/07
106	Membrane Technology Workshop	1 day	Thu 7/19/07	Thu 7/19/07
107	Revise Specification	15 days	Fri 7/20/07	Thu 8/9/07
108	Updated Quotations/Qualifications	20 days	Fri 8/10/07	Thu 9/6/07
109	Finalize Request for Proposal & Distribute	26 days	Fri 9/7/07	Fri 10/12/07
110	Manufacturer Proposal Preparation	28 days	Mon 10/15/07	Wed 11/21/07
111	Proposal "Evaluation" Workshop	1 day	Tue 11/27/07	Tue 11/27/07
112	Letter of Recommendation	5 days	Wed 11/28/07	Tue 12/4/07
113	Manufacturer Selected	0 days	Tue 12/4/07	Tue 12/4/07
114	Assist with Contract Negotiation	23 days	Wed 12/5/07	Fri 1/4/08
115	Prep of Shop Drawings	45 days	Mon 1/7/08	Fri 3/7/08
116	Review of Shop Drawings	12 days	Mon 3/10/08	Tue 3/25/08
117	**25% WWTP / 60% BCF Design and Plans**	**90 days**	**Thu 9/13/07**	**Wed 1/16/08**
118	**Initial Design**	**35 days**	**Thu 9/13/07**	**Wed 10/31/07**
119	WWTP Hydraulic Profile	5 days	Thu 9/13/07	Wed 9/19/07
120	Mechanical Design	20 days	Thu 9/13/07	Wed 10/10/07
121	Electrical Design	20 days	Thu 10/4/07	Wed 10/31/07
122	Civil Design	20 days	Thu 10/4/07	Wed 10/31/07
123	Architechtural and Landscape Design	10 days	Thu 10/4/07	Wed 10/17/07
124	Structural Design	10 days	Thu 10/18/07	Wed 10/31/07
125	**Finalize 25% WWTP / 60% BCF Plan Sheets**	**30 days**	**Thu 11/1/07**	**Wed 12/12/07**
126	Mechanical Plan Views	15 days	Thu 11/1/07	Wed 11/21/07
127	Mechanical Sections	10 days	Thu 11/8/07	Wed 11/21/07
128	Civil Site Plan	15 days	Thu 11/22/07	Wed 12/12/07
129	Process and Instrumentation Diagrams	15 days	Thu 11/22/07	Wed 12/12/07
130	Hydraulic Profile	10 days	Thu 11/22/07	Wed 12/5/07
131	Process Schematic	15 days	Thu 11/22/07	Wed 12/12/07
132	Electrical Single Line Diagram	15 days	Thu 11/22/07	Wed 12/12/07
133	Architectural Plan and Elevations	20 days	Thu 11/15/07	Wed 12/12/07
134	Landscape Plan	10 days	Thu 11/29/07	Wed 12/12/07
135	Prepare Review Drawings	10 days	Thu 12/6/07	Wed 12/19/07
136	60% BCF Specifications	5 days	Thu 12/6/07	Wed 12/12/07
137	25% WWTP / 60% BCF Opinion of Probable Construction Cost	5 days	Thu 12/13/07	Wed 12/19/07
138	City Review of 25% WWTP / 60% BCF Submittal	10 days	Thu 12/20/07	Wed 1/2/08
139	25% WWTP / 60% BCF Value Engineering	20 days	Thu 12/20/07	Wed 1/16/08
140	**Environmental Permitting**	**122 days**	**Thu 1/17/08**	**Fri 7/4/08**
141	Environmental Evaluation	20 days	Thu 1/17/08	Wed 2/13/08
142	Prepare NEPA Checklist (If Necessary for Federal Funding)	10 days	Thu 2/14/08	Wed 2/27/08

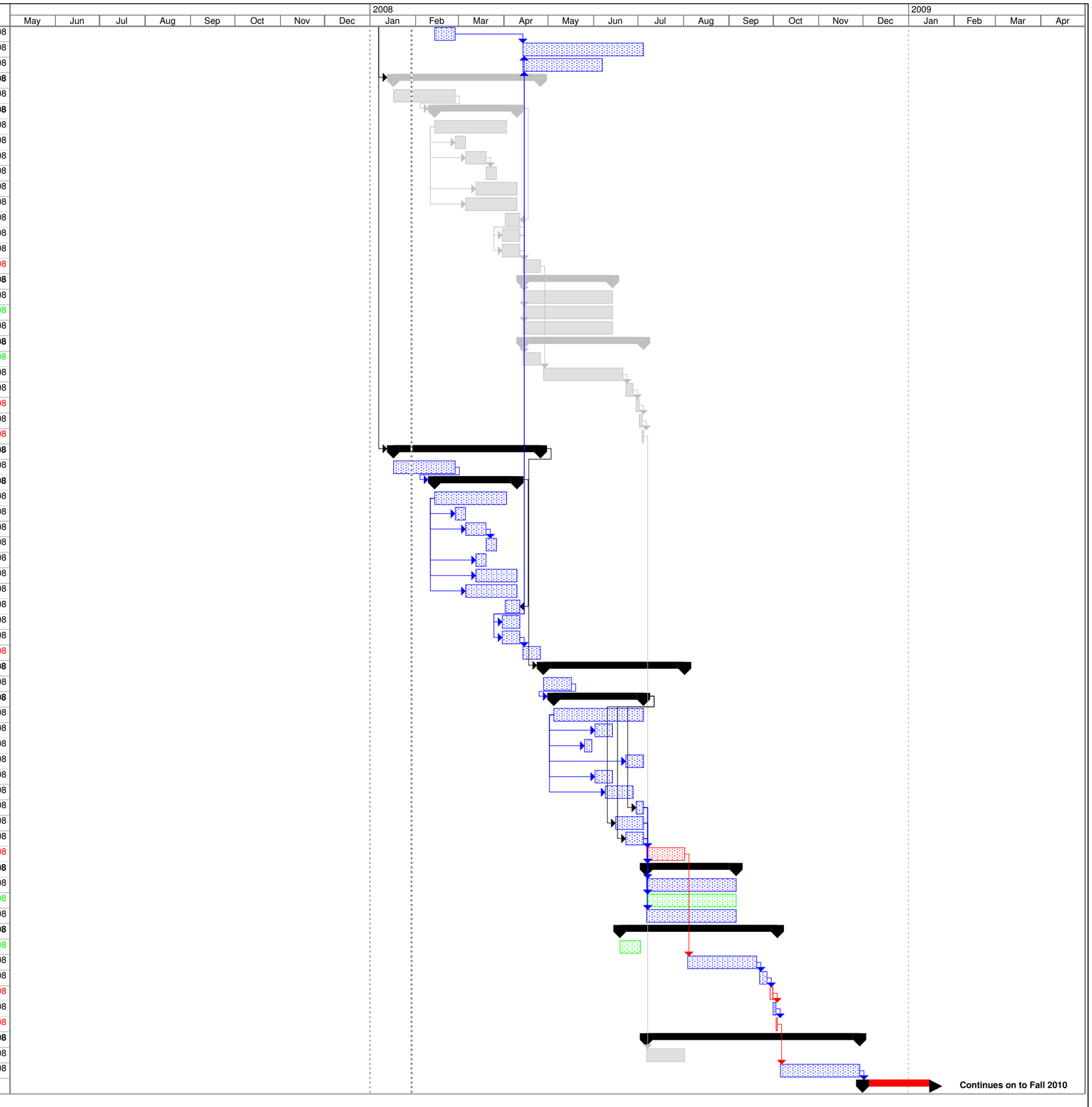


City of Arlington WWTP Upgrade Project

BLUE - K/J Primary Responsibility **RED - City Primary Responsibility** **GREEN - Shared Responsibility** **FUCHSIA - Value Engineering** **GRAY - BCF Design On Hold**

Kennedy / Jenks Consultants

ID	Task Name	Duration	Start	Finish
143	Prepare Shoreline Permit Application	10 days	Thu 2/14/08	Wed 2/27/08
144	Shoreline Permit Review	60 days	Mon 4/14/08	Fri 7/4/08
145	Other Environmental Permit Applications	40 days	Mon 4/14/08	Fri 6/6/08
146	**90% BCF Design and Plans**	**72 days**	**Thu 1/17/08**	**Fri 4/25/08**
147	Develop 90% BCF Design	30 days	Thu 1/17/08	Wed 2/27/08
148	**Finalize 90% BCF Plan Sheets**	**40 days**	**Thu 2/14/08**	**Wed 4/9/08**
149	Address Comments from Previous BCF Submittal	35 days	Thu 2/14/08	Wed 4/2/08
150	Civil Details	5 days	Thu 2/28/08	Wed 3/5/08
151	Mechanical Details	10 days	Thu 3/6/08	Wed 3/19/08
152	Architectural Details	5 days	Thu 3/20/08	Wed 3/26/08
153	Electrical Details	20 days	Thu 3/13/08	Wed 4/9/08
154	Structural Details	25 days	Thu 3/6/08	Wed 4/9/08
155	Prepare BCF Review Drawings (Use for Permits)	8 days	Wed 4/2/08	Fri 4/11/08
156	90% BCF Specifications	10 days	Mon 3/31/08	Fri 4/11/08
157	90% BCF Opinion of Probable Construction Cost	10 days	Mon 3/31/08	Fri 4/11/08
158	City Review of 90% BCF Submittal	10 days	Mon 4/14/08	Fri 4/25/08
159	**BCF Permit Review**	**45 days**	**Mon 4/14/08**	**Fri 6/13/08**
160	DOE Review of WWTP Design Documents	45 days	Mon 4/14/08	Fri 6/13/08
161	City Planning, Building, & Fire Dept. Review of Design Docs	45 days	Mon 4/14/08	Fri 6/13/08
162	L&I Electrical Review of Design Documents	45 days	Mon 4/14/08	Fri 6/13/08
163	**100% BCF Contract Documents**	**60 days**	**Mon 4/14/08**	**Fri 7/4/08**
164	Prepare Div 1 Specification, Provide Input to Div 0	10 days	Mon 4/14/08	Fri 4/25/08
165	Incorporate Comments	40 days	Mon 4/28/08	Fri 6/20/08
166	Prepare Draft Bid Set	5 days	Mon 6/23/08	Fri 6/27/08
167	Final City Review	2 days	Mon 6/30/08	Tue 7/1/08
168	Prepare Final Bid Set	2 days	Wed 7/2/08	Thu 7/3/08
169	Arrange for Bid Set Printing	1 day	Fri 7/4/08	Fri 7/4/08
170	**60% WWTP Design and Plans**	**72 days**	**Thu 1/17/08**	**Fri 4/25/08**
171	Develop 60% WWTP Design	30 days	Thu 1/17/08	Wed 2/27/08
172	**Finalize 60% WWTP Plan Sheets**	**40 days**	**Thu 2/14/08**	**Wed 4/9/08**
173	Address Comments from Previous WWTP Submittal	35 days	Thu 2/14/08	Wed 4/2/08
174	Civil Grading Plan	5 days	Thu 2/28/08	Wed 3/5/08
175	Civil Piping Plan and Profiles	10 days	Thu 3/6/08	Wed 3/19/08
176	Demolition Drawings	5 days	Thu 3/20/08	Wed 3/26/08
177	Electrical Power Plan	5 days	Thu 3/13/08	Wed 3/19/08
178	Electrical Schedules, Diagrams and Schematics	20 days	Thu 3/13/08	Wed 4/9/08
179	Structural Plans and Sections	25 days	Thu 3/6/08	Wed 4/9/08
180	Prepare WWTP Review Drawings (Use for Permits)	8 days	Wed 4/2/08	Fri 4/11/08
181	60% WWTP Specifications	10 days	Mon 3/31/08	Fri 4/11/08
182	60% WWTP Opinion of Probable Construction Cost	10 days	Mon 3/31/08	Fri 4/11/08
183	City Review of 60% WWTP Submittal	10 days	Mon 4/14/08	Fri 4/25/08
184	**90% WWTP Design and Plans**	**70 days**	**Mon 4/28/08**	**Fri 8/1/08**
185	Develop WWTP 90% Design	15 days	Mon 4/28/08	Fri 5/16/08
186	**Finalize WWTP 90% Plan Sheets**	**45 days**	**Mon 5/5/08**	**Fri 7/4/08**
187	Revise Sheets Developed During 60% Design	45 days	Mon 5/5/08	Fri 7/4/08
188	Mechanical Details	10 days	Mon 6/2/08	Fri 6/13/08
189	Civil Details	5 days	Mon 5/26/08	Fri 5/30/08
190	Electrical Details	10 days	Mon 6/23/08	Fri 7/4/08
191	Architectural Details	10 days	Mon 6/2/08	Fri 6/13/08
192	Structural Details	15 days	Mon 6/9/08	Fri 6/27/08
193	Prepare Review Drawings (Use for Permits)	5 days	Mon 6/30/08	Fri 7/4/08
194	90% WWTP Specifications	15 days	Mon 6/16/08	Fri 7/4/08
195	90% WWTP Opinion of Probable Construction Cost	10 days	Mon 6/23/08	Fri 7/4/08
196	City Review of 90% WWTP Submittal	20 days	Mon 7/7/08	Fri 8/1/08
197	**WWTP Permit Review**	**45 days**	**Mon 7/7/08**	**Fri 9/5/08**
198	DOE Review of WWTP Design Documents	45 days	Mon 7/7/08	Fri 9/5/08
199	City Planning, Building, & Fire Dept. Review of Design Docs	45 days	Mon 7/7/08	Fri 9/5/08
200	L&I Electrical Review of Design Documents	45 days	Mon 7/7/08	Fri 9/5/08
201	**100% WWTP Contract Documents**	**77 days**	**Thu 6/19/08**	**Fri 10/3/08**
202	Prepare Div 1 Specification, Provide Input to Div 0	10 days	Thu 6/19/08	Wed 7/2/08
203	Incorporate Comments	35 days	Mon 8/4/08	Fri 9/19/08
204	Prepare Draft Bid Set	5 days	Mon 9/22/08	Fri 9/26/08
205	Final City Review	2 days	Mon 9/29/08	Tue 9/30/08
206	Prepare Final Bid Set	2 days	Wed 10/1/08	Thu 10/2/08
207	Arrange for Bid Set Printing	1 day	Fri 10/3/08	Fri 10/3/08
208	**Phase 2 Bidding Support**	**105 days**	**Mon 7/7/08**	**Fri 11/28/08**
209	BCF Bidding Support	20 days	Mon 7/7/08	Fri 8/1/08
210	WWTP Bidding Support	40 days	Mon 10/6/08	Fri 11/28/08
211	**Phase 3 Construction Support**			



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