

**CONTRACT 3 – BIOREACTORS, BLOWER BUILDING & SECONDARY CLARIFIERS STRUCTURAL CONCRETE AND MISCELLANEOUS WORKS
DRAWING INDEX (1)**

A1 SIZE - 594mm x 841mm

SHT. NO.	DWG. NO.	DESCRIPTION
D – GENERAL		
1	-	TITLE SHEET
2	-	DRAWING INDEX (1)
3	-	DRAWING INDEX (2)
4	1-0102-DDTL-A007-001	ABBREVIATIONS (1)
5	1-0102-DDTL-A007-002	ABBREVIATIONS (2) AND SYMBOLS
6	1-0102-DDTL-A007-003	AREA CODE IDENTIFICATION
C – CIVIL		
7	SEP-334	SECONDARY TREATMENT PLANT EXPANSION – YARD PIPING PLAN AND DETAILS
8	1-0102-CGAD-R001	BIOREACTORS/BLOWER BUILDING – WEEPING TILE PLAN
9	1-0102-CGAD-S001	SECONDARY CLARIFIERS – WEEPING TILE PLAN
S – STRUCTURAL		
10	1-0102-SDTL-A001	LEGEND AND GENERAL NOTES
11	1-0102-SFDW-R001	BIOREACTORS/BLOWER BUILDING OVERALL PILING PLAN
12	1-0102-SFDW-R002	BIOREACTORS/BLOWER BUILDING PART PILING PLAN (1)
13	1-0102-SFDW-R003	BIOREACTORS/BLOWER BUILDING PART PILING PLAN (2)
14	1-0102-SFDW-R004	BIOREACTORS/BLOWER BUILDING PART PILING PLAN (3)
15	1-0102-SFDW-R005	BLOWER BUILDING PART PILING PLAN (5)
16	1-0102-SFDW-R006	BIOREACTORS PART PILING PLAN (6)
17	1-0102-SGAD-R001	BIOREACTORS/BLOWER BUILDING OVERALL LOWER LEVEL PLAN
18	1-0102-SGAD-R002	BIOREACTOR 1 LOWER LEVEL PLAN
19	1-0102-SGAD-R003	BIOREACTOR 2 LOWER LEVEL PLAN
20	1-0102-SGAD-R004	BIOREACTOR 3 LOWER LEVEL PLAN
21	1-0102-SGAD-R005	BIOREACTORS/BLOWER BUILDING OVERALL CHANNEL LEVEL PLAN
22	1-0102-SGAD-R006	BIOREACTOR 1 CHANNEL LEVEL PLAN
23	1-0102-SGAD-R007	BIOREACTOR 2 CHANNEL LEVEL PLAN
24	1-0102-SGAD-R008	BIOREACTOR 3 CHANNEL LEVEL PLAN
25	1-0102-SGAD-R009	BIOREACTORS/BLOWER BUILDING OVERALL UPPER LEVEL/ROOF PLAN
26	1-0102-SGAD-R010	BIOREACTOR 1 ROOF PLAN
27	1-0102-SGAD-R011	BIOREACTOR 2 ROOF PLAN
28	1-0102-SGAD-R012	BIOREACTOR 3 ROOF PLAN
29	1-0102-SGAD-R013	BLOWER BUILDING UPPER LEVEL PLAN
30	1-0102-SGAD-R014	BLOWER BUILDING ROOF PLAN
31	1-0102-SGAD-R015	BIOREACTORS/BLOWER BUILDING SECTION A – PART A
32	1-0102-SGAD-R016	BIOREACTORS/BLOWER BUILDING SECTION A – PART B
33	1-0102-SGAD-R017	BIOREACTORS/BLOWER BUILDING SECTION B – PART A
34	1-0102-SGAD-R018	BIOREACTORS/BLOWER BUILDING SECTION B – PART B
35	1-0102-SGAD-R019	BIOREACTORS/BLOWER BUILDING SECTION C – PART A
36	1-0102-SGAD-R020	BIOREACTORS/BLOWER BUILDING SECTION C – PART B
37	1-0102-SGAD-R021	BIOREACTORS/BLOWER BUILDING SECTION D – PART A
38	1-0102-SGAD-R022	BIOREACTORS/BLOWER BUILDING SECTION D – PART B
39	1-0102-SGAD-R023	BIOREACTORS/BLOWER BUILDING SECTION E – PART A
40	1-0102-SGAD-R024	BIOREACTORS/BLOWER BUILDING SECTION E – PART B
41	1-0102-SGAD-R025	BIOREACTORS/BLOWER BUILDING SECTION F – PART A
42	1-0102-SGAD-R026	BIOREACTORS/BLOWER BUILDING SECTION F – PART B
43	1-0102-SGAD-R027	BIOREACTORS/BLOWER BUILDING SECTION G
44	1-0102-SGAD-R028	BIOREACTORS/BLOWER BUILDING SECTIONS H AND J
45	1-0102-SGAD-R029	BIOREACTORS/BLOWER BUILDING SECTION K
46	1-0102-SGAD-R030	BIOREACTORS/BLOWER BUILDING SECTION L
47	1-0102-SGAD-R031	BIOREACTORS/BLOWER BUILDING SECTION M – PART A
48	1-0102-SGAD-R032	BIOREACTORS/BLOWER BUILDING SECTION M – PART B
49	1-0102-SGAD-R033	BIOREACTORS/BLOWER BUILDING SECTION N – PART A
50	1-0102-SGAD-R034	BIOREACTORS/BLOWER BUILDING SECTION N – PART B
51	1-0102-SGAD-R035	BIOREACTORS/BLOWER BUILDING SECTION N – PART C
52	1-0102-SGAD-R036	BIOREACTORS/BLOWER BUILDING SECTION P
53	1-0102-SGAD-R037	BIOREACTORS/BLOWER BUILDING SECTION Q
54	1-0102-SGAD-R038	BIOREACTORS/BLOWER BUILDING SECTIONS R, S, T, U, V AND W
55	SEP339	OXYGEN REACTOR EXPANSION – ROOF PLAN ELEV. 234.823
56	1-0102-SDTL-R001	BIOREACTORS/BLOWER BUILDING PRECAST DOUBLE TEE ROOF DETAILS
57	1-0102-SDTL-R002	BIOREACTORS/BLOWER BUILDING DETAILS
58	1-0102-SDTL-R003	BIOREACTORS/BLOWER BUILDING DETAILS
59	1-0102-SDTL-R004	BIOREACTORS/BLOWER BUILDING DETAILS
60	1-0102-SDTL-R005	BIOREACTORS/BLOWER BUILDING DETAILS
61	1-0102-SDTL-R006	BIOREACTORS/BLOWER BUILDING DETAILS
62	1-0102-SDTL-R007	BIOREACTORS/BLOWER BUILDING DETAILS
63	1-0102-SDTL-R008	BIOREACTORS/BLOWER BUILDING DETAILS
64	1-0102-SSCH-R001	BIOREACTORS/BLOWER BUILDING COLUMN AND BEAM SCHEDULE
65	1-0102-SGAD-S001	SECONDARY CLARIFIERS 4 AND 5 OVERALL BASEMENT PLAN
66	1-0102-SGAD-S002	SECONDARY CLARIFIER 5 LOWER LEVEL PLAN AT EL 228.680
67	1-0102-SGAD-S003	SECONDARY CLARIFIER 4 LOWER LEVEL PLAN AT EL 228.680
68	1-0102-SGAD-S004	SECONDARY CLARIFIERS 4 AND 5 BASEMENT PLAN – PART A
69	1-0102-SGAD-S005	SECONDARY CLARIFIERS 4 AND 5 BASEMENT PLAN – PART B
70	1-0102-SGAD-S006	SECONDARY CLARIFIERS 4 AND 5 OVERALL CHANNEL LEVEL PLAN
71	1-0102-SGAD-S007	SECONDARY CLARIFIER 5 CHANNEL LEVEL PLAN

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72	1-0102-SGAD-S008	SECONDARY CLARIFIER 4 CHANNEL LEVEL PLAN
73	1-0102-SGAD-S009	SECONDARY CLARIFIERS 4 AND 5 CHANNEL LEVEL PLAN – PART A
74	1-0102-SGAD-S010	SECONDARY CLARIFIERS 4 AND 5 CHANNEL LEVEL PLAN – PART B
75	1-0102-SGAD-S011	SECONDARY CLARIFIERS 4 AND 5 OVERALL GROUND FLOOR PLAN
76	1-0102-SGAD-S012	SECONDARY CLARIFIER 5 GROUND FLOOR PLAN
77	1-0102-SGAD-S013	SECONDARY CLARIFIER 4 GROUND FLOOR PLAN
78	1-0102-SGAD-S014	SECONDARY CLARIFIERS 4 AND 5 GROUND FLOOR PLAN – PART A
79	1-0102-SGAD-S015	SECONDARY CLARIFIERS 4 AND 5 GROUND FLOOR PLAN – PART B
80	1-0102-SGAD-S016	SECONDARY CLARIFIERS 4 AND 5 OVERALL ROOF PLAN
81	1-0102-SGAD-S017	SECONDARY CLARIFIERS 4 AND 5 ROOF PLAN – PART A
82	1-0102-SGAD-S018	SECONDARY CLARIFIERS 4 AND 5 ROOF PLAN – PART B
83	1-0102-SGAD-S019	SECONDARY CLARIFIERS 4 AND 5 SECTION A
84	1-0102-SGAD-S020	SECONDARY CLARIFIERS 4 AND 5 SECTION B
85	1-0102-SGAD-S021	SECONDARY CLARIFIERS 4 AND 5 SECTION C – PART A
86	1-0102-SGAD-S022	SECONDARY CLARIFIERS 4 AND 5 SECTION C – PART B
87	1-0102-SGAD-S023	SECONDARY CLARIFIERS 4 AND 5 SECTION C – PART C
88	1-0102-SGAD-S024	SECONDARY CLARIFIERS 4 AND 5 SECTION D – PART A
89	1-0102-SGAD-S025	SECONDARY CLARIFIERS 4 AND 5 SECTION D – PART B
90	1-0102-SGAD-S026	SECONDARY CLARIFIERS 4 AND 5 SECTION E
91	1-0102-SGAD-S027	SECONDARY CLARIFIERS 4 AND 5 SECTIONS F AND G
92	1-0102-SGAD-S028	SECONDARY CLARIFIERS 4 AND 5 SECTIONS H AND J
93	1-0102-SGAD-S029	SECONDARY CLARIFIERS 4 AND 5 SECTIONS K AND L
94	1-0102-SGAD-S030	SECONDARY CLARIFIERS 4 AND 5 SECTIONS M AND N
95	1-0102-SGAD-S031	SECONDARY CLARIFIERS 4 AND 5 SECTIONS P AND Q
96	1-0102-SGAD-S032	SECONDARY CLARIFIERS 4 AND 5 SECTIONS R, S AND T
97	1-0102-SGAD-S033	SECONDARY CLARIFIERS 4 AND 5 SECTIONS U AND V
98	1-0102-SGAD-S050	SECONDARY CLARIFIERS – CONCRETE AND CMU REMOVALS PLANS (1)
99	1-0102-SGAD-S051	SECONDARY CLARIFIERS – CONCRETE AND CMU REMOVALS PLANS (2)
100	1-0102-SGAD-S052	SECONDARY CLARIFIERS – CONCRETE AND CMU REMOVALS PLANS (3)
101	1-0102-SGAD-S053	SECONDARY CLARIFIERS – CONCRETE AND CMU REMOVALS TIE-INS (1)
102	1-0102-SGAD-S054	SECONDARY CLARIFIERS – CONCRETE AND CMU REMOVALS TIE-INS (2)
103	1-0102-SDTL-S001	SECONDARY CLARIFIERS 4 AND 5 DETAILS
104	1-0102-SDTL-S002	SECONDARY CLARIFIERS 4 AND 5 DETAILS
105	1-0102-SDTL-S003	SECONDARY CLARIFIERS 4 AND 5 DETAILS
106	1-0102-SDTL-S004	SECONDARY CLARIFIERS 4 AND 5 DETAILS
107	1-0102-SDTL-S005	SECONDARY CLARIFIERS 4 AND 5 DETAILS
108	1-0102-SDTL-S006	SECONDARY CLARIFIERS 4 AND 5 DETAILS
109	1-0102-SDTL-S007	SECONDARY CLARIFIERS 4 AND 5 DETAILS
110	1-0102-SDTL-S008	SECONDARY CLARIFIERS 4 AND 5 DETAILS
111	1-0102-SDTL-S009	SECONDARY CLARIFIERS 4 AND 5 DETAILS
112	1-0102-SDTL-S010	SECONDARY CLARIFIERS 4 AND 5 DETAILS
113	1-0102-SDTL-S011	SECONDARY CLARIFIERS 4 AND 5 DETAILS
114	1-0102-SDTL-S012	SECONDARY CLARIFIERS 4 AND 5 DETAILS
115	1-0102-SDTL-S013	SECONDARY CLARIFIERS 4 AND 5 DETAILS
116	1-0102-SDTL-S014	SECONDARY CLARIFIERS 4 AND 5 DETAILS
117	1-0102-SDTL-S015	SECONDARY CLARIFIERS 4 AND 5 DETAILS
118	1-0102-SSCH-S001	SECONDARY CLARIFIERS 4 AND 5 COLUMN AND BEAM SCHEDULE
119	1-0102-SDTL-A002	STANDARD DETAILS (1)
120	1-0102-SDTL-A003	STANDARD DETAILS (2)
121	1-0102-SDTL-A004	STANDARD DETAILS (3)
122	1-0102-SDTL-A005	STANDARD DETAILS (4)
123	1-0102-SDTL-A006	STANDARD DETAILS (5)
124	1-0102-SDTL-A007	STANDARD DETAILS (6)
125	1-0102-SDTL-A008	STANDARD DETAILS (7)
126	1-0102-SDTL-A009	STANDARD DETAILS (8)
127	1-0102-SDTL-A010	STANDARD DETAILS (9)
128	1-0102-SDTL-A011	STANDARD DETAILS (10)
129	1-0102-SDTL-A012	STANDARD DETAILS (11)
130	1-0102-SDTL-A013	STANDARD DETAILS (12)
131	1-0102-SDTL-A014	STANDARD DETAILS (13)
132	1-0102-SDTL-A015	STANDARD DETAILS (14)
133	1-0102-SDTL-A016	STANDARD DETAILS (15)
134	1-0102-SDTL-A017	STANDARD DETAILS (16)
P – PROCESS		
135	1-0102-PDITL-A001	LEGEND AND GENERAL NOTES
136	1-0102-PHYD-A003	HYDRAULIC PROFILE (1)
137	1-0102-PHYD-A004	HYDRAULIC PROFILE (2)
138	1-0102-PHYD-A005	HYDRAULIC PROFILE (3)
139	1-0102-PGAD-R001	BIOREACTORS/BLOWER BUILDING OVERALL LOWER LEVEL PLAN
140	1-0102-PGAD-R002	BIOREACTOR 1 LOWER LEVEL PLAN – PART A
141	1-0102-PGAD-R003	BIOREACTOR 2 LOWER LEVEL PLAN – PART B
142	1-0102-PGAD-R004	BIOREACTOR 3 LOWER LEVEL PLAN – PART C
143	1-0102-PGAD-R005	BIOREACTORS/BLOWER BUILDING OVERALL UPPER LEVEL PLAN
144	1-0102-PGAD-R006	BIOREACTOR 1 UPPER LEVEL PLAN PART A

SHT. NO.	DWG. NO.	DESCRIPTION
145	1-0102-PGAD-R007	BIOREACTOR 2 UPPER LEVEL PLAN PART B
146	1-0102-PGAD-R008	BIOREACTOR 3 UPPER LEVEL PLAN PART C
147	1-0102-PGAD-R009	BIOREACTORS/BLOWER BUILDING OVERALL ROOF PLAN
148	1-0102-PGAD-R010	BIOREACTOR 1 ROOF PLAN PART A
149	1-0102-PGAD-R011	BIOREACTOR 2 ROOF PLAN PART B
150	1-0102-PGAD-R012	BIOREACTOR 3 ROOF PLAN PART C
151	1-0102-PGAD-R013	BIOREACTORS/BLOWER BUILDING BLOWER ROOM PLAN
152	1-0102-PGAD-R014	BIOREACTORS/BLOWER BUILDING SECTIONS A, A1 AND B
153	1-0102-PGAD-R015	BIOREACTORS/BLOWER BUILDING SECTIONS C AND D
154	1-0102-PGAD-R016	BIOREACTORS/BLOWER BUILDING SECTIONS E AND F
155	1-0102-PGAD-R017	BIOREACTORS/BLOWER BUILDING SECTIONS G, H AND H1
156	1-0102-PGAD-R018	BIOREACTORS/BLOWER BUILDING SECTION J – PART A AND B
157	1-0102-PGAD-R019	BIOREACTORS/BLOWER BUILDING SECTION K – PART A AND B
158	1-0102-PGAD-R020	BIOREACTORS/BLOWER BUILDING SECTION L – PART A AND B
159	1-0102-PGAD-R021	BIOREACTORS/BLOWER BUILDING SECTION M – PART A AND B
160	1-0102-PGAD-R022	BIOREACTORS/BLOWER BUILDING SECTION N – PART A AND B
161	1-0102-PGAD-R023	BIOREACTORS/BLOWER BUILDING SECTION P – PART A AND B
162	1-0102-PGAD-R024	BIOREACTORS/BLOWER BUILDING SECTION Q – PART A AND B
163	1-0102-PGAD-S001	SECONDARY CLARIFIERS 4 AND 5 OVERALL LOWER LEVEL PLAN
164	1-0102-PGAD-S002	SECONDARY CLARIFIERS 4 AND 5 LOWER LEVEL PLAN – PART A
165	1-0102-PGAD-S003	SECONDARY CLARIFIERS 4 AND 5 LOWER LEVEL PLAN – PART B
166	1-0102-PGAD-S004	SECONDARY CLARIFIERS 4 AND 5 LOWER LEVEL PLAN – PART C
167	1-0102-PGAD-S005	SECONDARY CLARIFIERS 4 AND 5 LOWER LEVEL PLAN – PART D
168	1-0102-PGAD-S006	SECONDARY CLARIFIERS 4 AND 5 OVERALL CHANNEL LEVEL PLAN
169	1-0102-PGAD-S007	SECONDARY CLARIFIERS 4 AND 5 CHANNEL LEVEL PLAN – PART A, B, C, D
170	1-0102-PGAD-S008	SECONDARY CLARIFIERS 4 AND 5 OVERALL GROUND FLOOR PLAN
171	1-0102-PGAD-S009	SECONDARY CLARIFIERS 4 AND 5 GROUND FLOOR PLAN – PART A
172	1-0102-PGAD-S010	SECONDARY CLARIFIERS 4 AND 5 SECTION A
173	1-0102-PGAD-S011	SECONDARY CLARIFIERS 4 AND 5 SECTION B AND C
174	1-0102-PGAD-S012	SECONDARY CLARIFIERS 4 AND 5 SECTION D
175	1-0102-PGAD-S013	SECONDARY CLARIFIERS 4 AND 5 SECTION E
176	1-0102-PGAD-S014	SECONDARY CLARIFIERS 4 AND 5 SECTION F AND G
177	1-0102-PDITL-A004	STANDARD DETAILS (3)
M – MECHANICAL		
178	1-0102-MDITL-A001-001	LEGEND AND GENERAL NOTES (1)
179	1-0102-MDITL-A001-002	LEGEND AND GENERAL NOTES (2)
180	1-0102-MGAD-R501	BIOREACTOR/BLOWER BUILDING PLUMBING – OVERALL LOWER LEVEL PLAN
181	1-0102-MGAD-R502	BIOREACTOR/BLOWER BUILDING PLUMBING – LOWER LEVEL PLAN – PART A
182	1-0102-MGAD-R503	BIOREACTOR/BLOWER BUILDING PLUMBING – LOWER LEVEL PLAN – PART B
183	1-0102-MGAD-R504	BIOREACTOR/BLOWER BUILDING PLUMBING – LOWER LEVEL PLAN – PART C
184	1-0102-MGAD-R505	BIOREACTOR/BLOWER BUILDING PLUMBING – LOWER LEVEL PLAN – PART D
185	1-0102-MGAD-R506	BIOREACTOR/BLOWER BUILDING PLUMBING – OVERALL GROUND FLOOR PLAN
186	1-0102-MGAD-R507	BIOREACTOR/BLOWER BUILDING PLUMBING – GROUND FLOOR PLAN – PART A
187	1-0102-MGAD-R508	BIOREACTOR/BLOWER BUILDING PLUMBING – GROUND FLOOR PLAN – PART B
188	1-0102-MGAD-R509	BIOREACTOR/BLOWER BUILDING PLUMBING – ROOF PLAN
189	1-0102-MGAD-R602	BIOREACTOR/BLOWER BUILDING HVAC – LOWER LEVEL PLAN – PART A
190	1-0102-MGAD-R603	BIOREACTOR/BLOWER BUILDING HVAC – LOWER LEVEL PLAN – PART B
191	1-0102-MGAD-R604	BIOREACTOR/BLOWER BUILDING HVAC – LOWER LEVEL PLAN – PART C
192	1-0102-MGAD-R605	BIOREACTOR/BLOWER BUILDING HVAC – LOWER LEVEL PLAN – PART D
193	1-0102-MGAD-R607	BIOREACTOR/BLOWER BUILDING HVAC – OVERALL GROUND FLOOR PLAN
194	1-0102-MGAD-R608	BIOREACTOR/BLOWER BUILDING HVAC – GROUND FLOOR PLAN – PART A
195	1-0102-MGAD-R609	BIOREACTOR/BLOWER BUILDING HVAC – GROUND FLOOR PLAN – PART B
196	1-0102-MGAD-R610	BIOREACTOR/BLOWER BUILDING HVAC – GROUND FLOOR PLAN – PART C
197	1-0102-MGAD-R612	BIOREACTOR/BLOWER BUILDING HVAC – SECTION A
198	1-0102-MGAD-R613	BIOREACTOR/BLOWER BUILDING HVAC – SECTION B
199	1-0102-MGAD-R621	BIOREACTOR/BLOWER BUILDING FOA – OVERALL GROUND FLOOR PLAN
200	1-0102-MGAD-R622	BIOREACTOR/BLOWER BUILDING FOA – SECTIONS A AND B
201	1-0102-MGAD-S501	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – OVERALL BASEMENT PLAN
202	1-0102-MGAD-S502	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – BASEMENT PLAN – PART A
203	1-0102-MGAD-S503	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – BASEMENT PLAN – PART B
204	1-0102-MGAD-S504	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – BASEMENT PLAN – PART C
205	1-0102-MGAD-S505	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – GROUND FLOOR PLAN – PART A
206	1-0102-MGAD-S506	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – GROUND FLOOR PLAN – PART B
207	1-0102-MGAD-S507	SECONDARY CLARIFIERS 4 AND 5 PLUMBING – ROOF PLAN
208	1-0102-MGAD-S601	SECONDARY CLARIFIERS 4 AND 5 HVAC – OVERALL BASEMENT PLAN
209	1-0102-MGAD-S602	SECONDARY CLARIFIERS 4 AND 5 HVAC – BASEMENT PLAN – PART A
210	1-0102-MGAD-S603	SECONDARY CLARIFIERS 4 AND 5 HVAC – BASEMENT PLAN – PART B
211	1-0102-MGAD-S604	SECONDARY CLARIFIERS 4 AND 5 HVAC – BASEMENT PLAN – PART C
212	1-0102-MGAD-S605	SECONDARY CLARIFIERS 4 AND 5 HVAC – OVERALL GROUND FLOOR PLAN
213	1-0102-MGAD-S606	SECONDARY CLARIFIERS 4 AND 5 HVAC – GROUND FLOOR PLAN – PART A
214	1-0102-MGAD-S607	SECONDARY CLARIFIERS 4 AND 5 HVAC – GROUND FLOOR PLAN – PART B
215	1-0102-MGAD-S608	SECONDARY CLARIFIERS 4 AND 5 HVAC – GROUND FLOOR PLAN – PART C
216	1-0102-MGAD-S610	SECONDARY CLARIFIERS 4 AND 5 HVAC – OVERALL ROOF PLAN
217	1-0102-MGAD-S611	SECONDARY CLARIFIERS 4 AND 5 HVAC – SECTION A