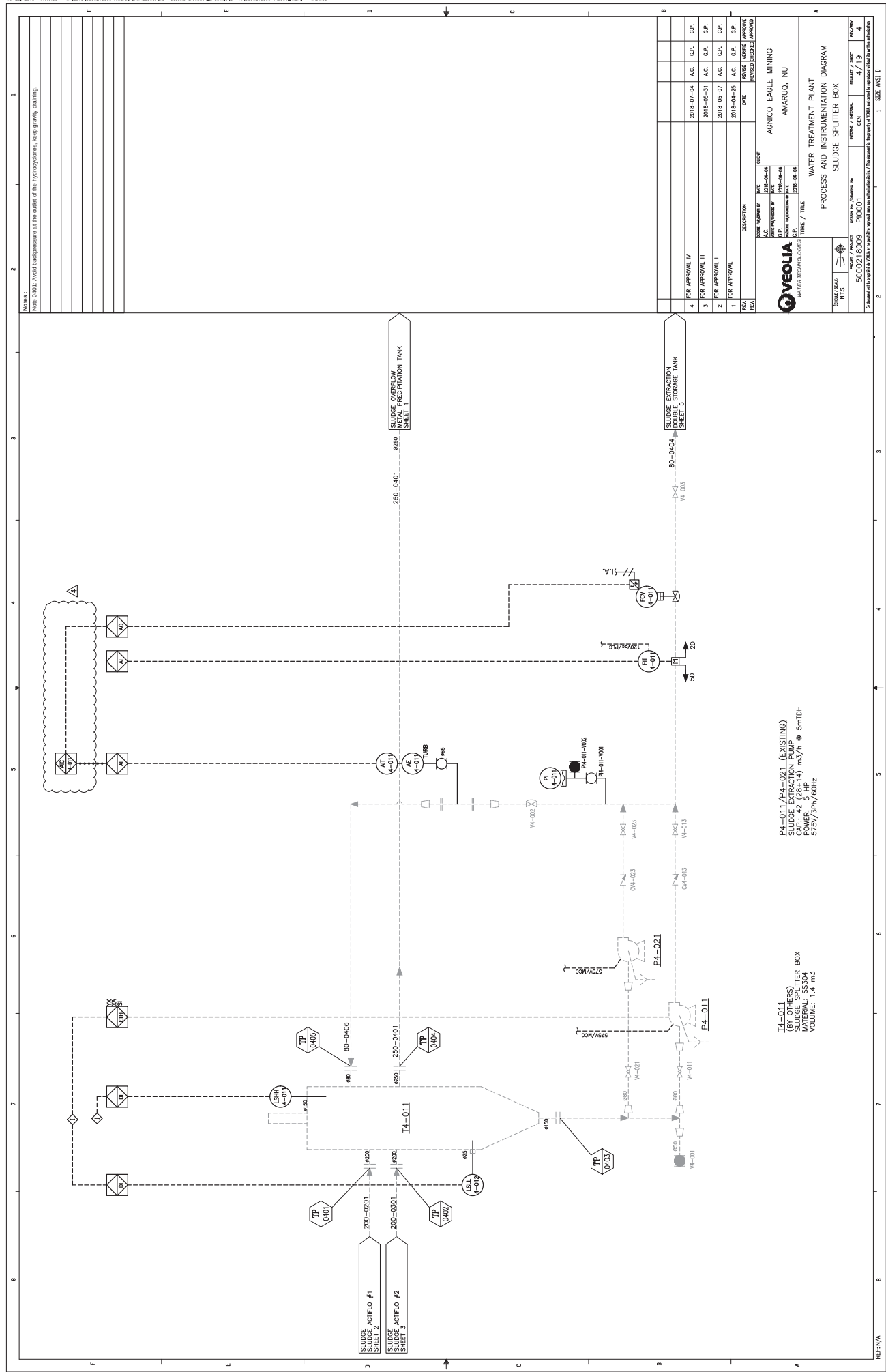
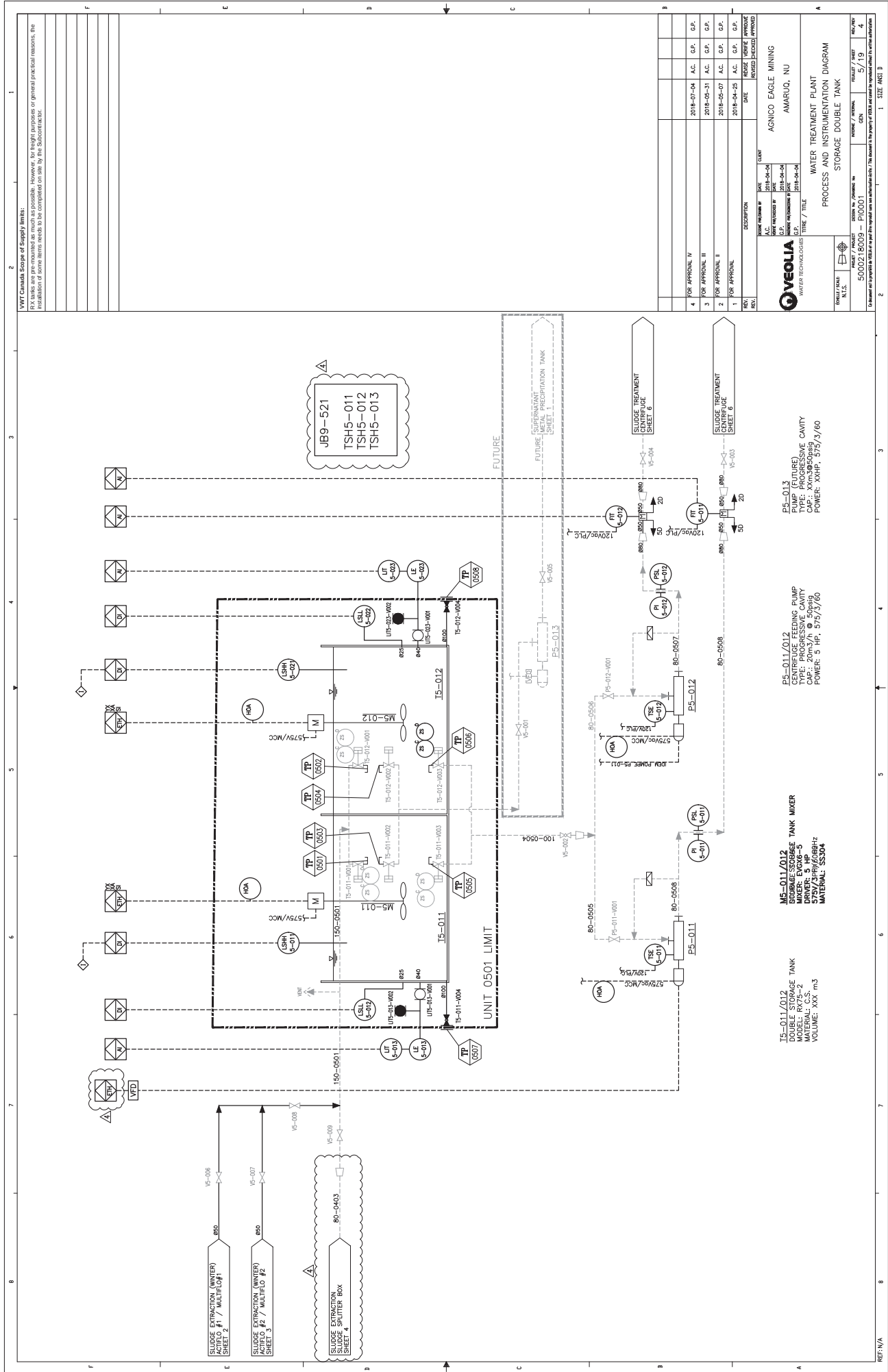
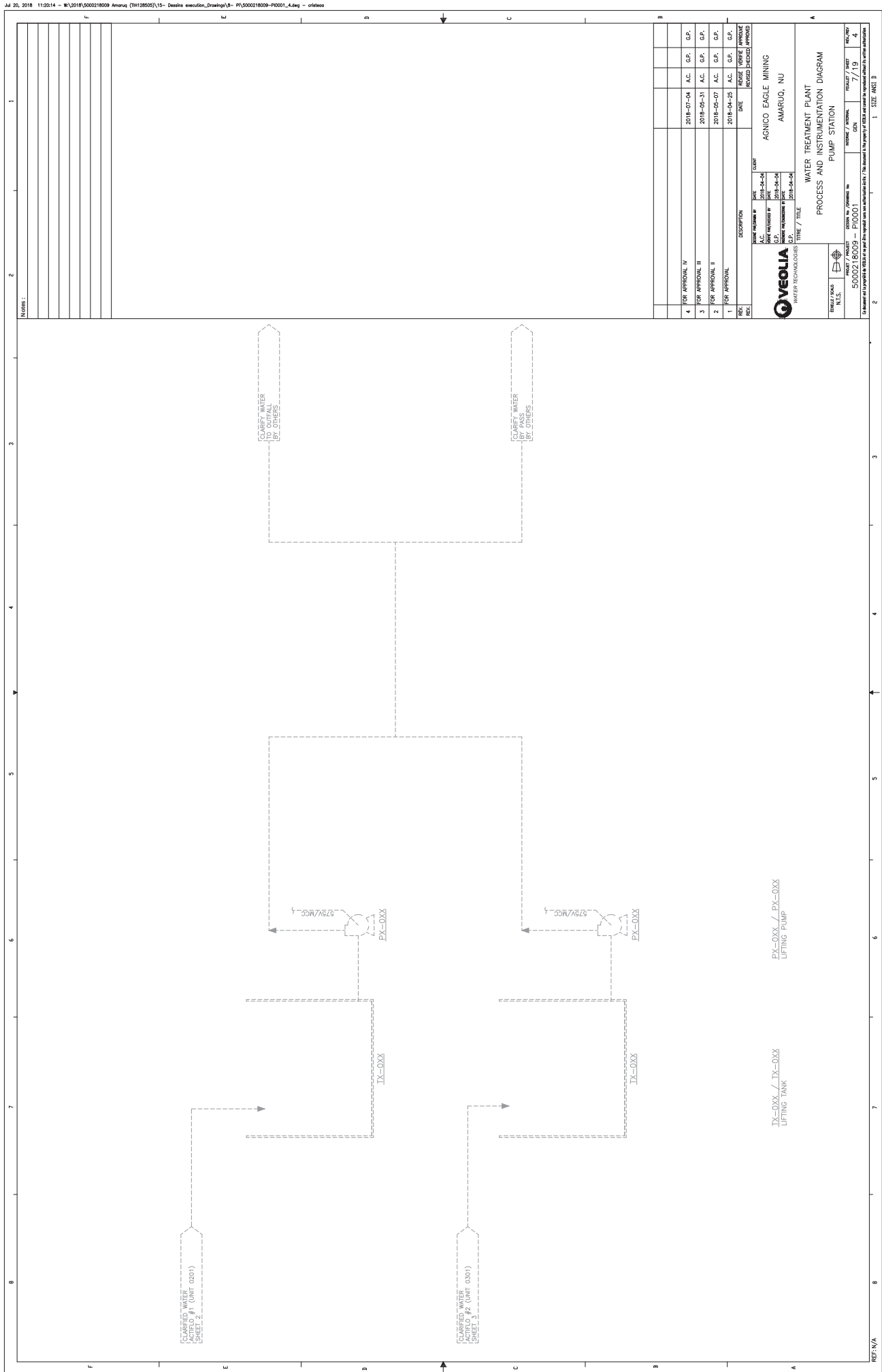


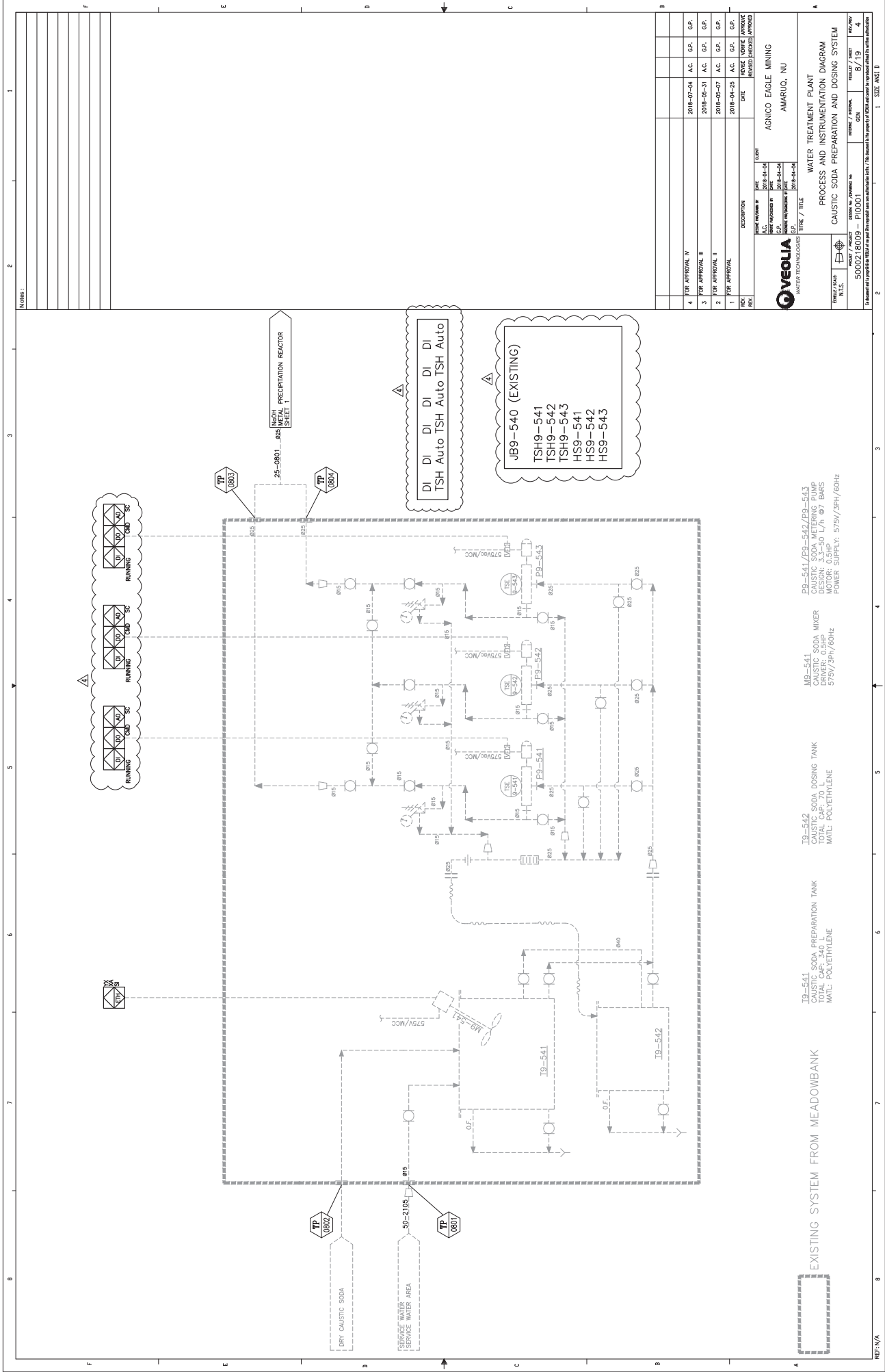


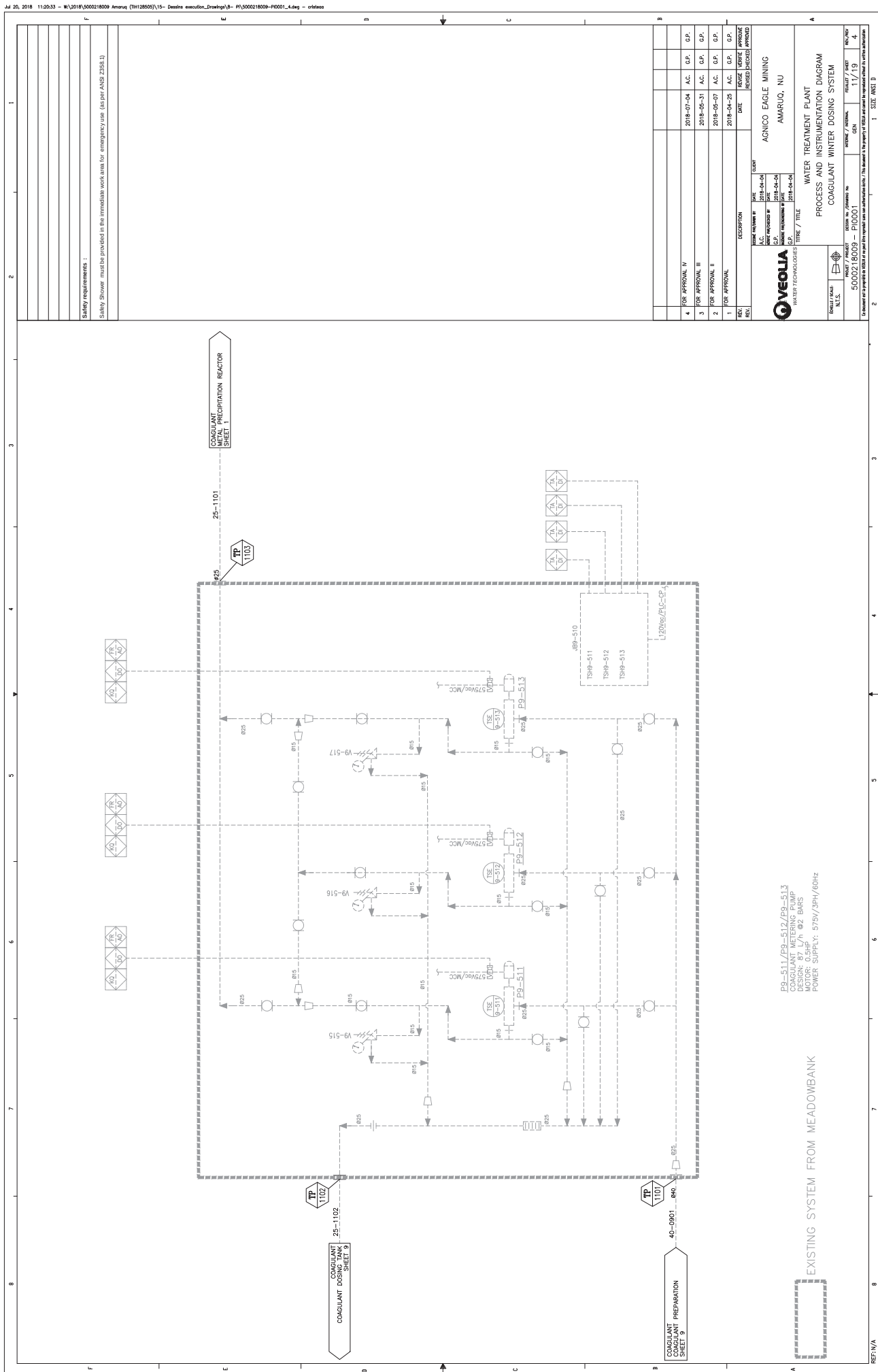


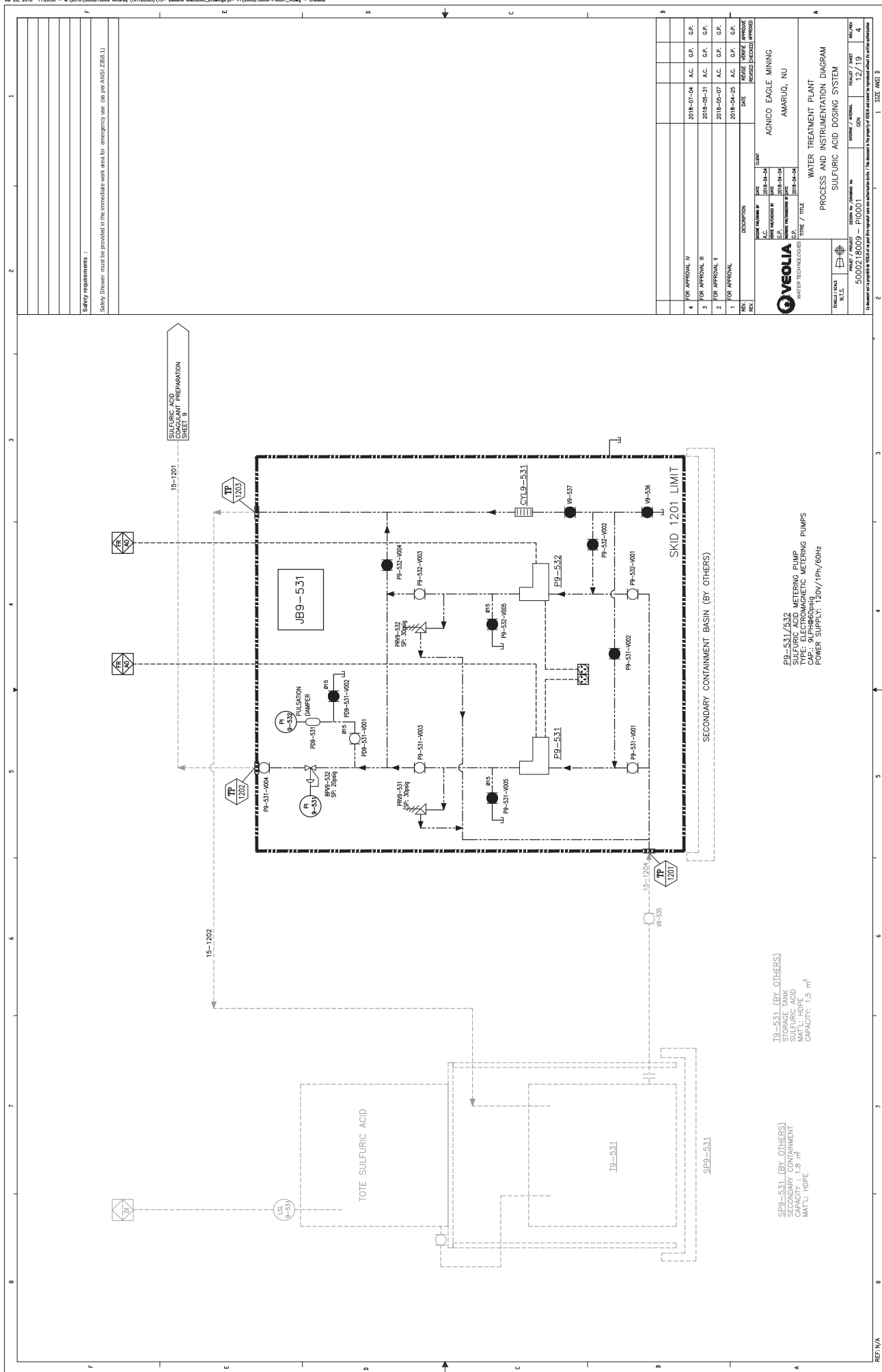


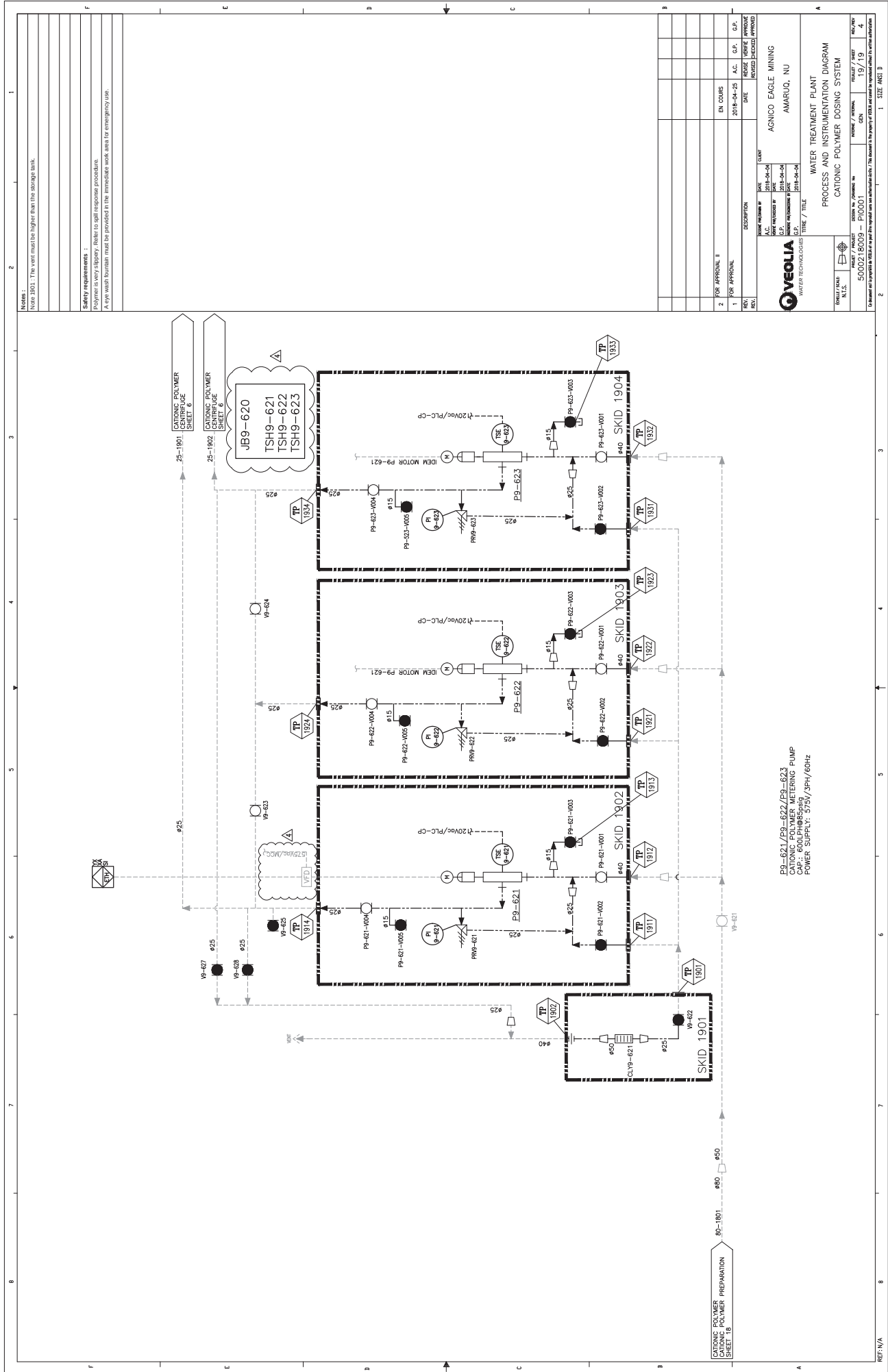














OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

3 – DRAWINGS

3.3 – HYDRAULIC PROFILE DRAWING

LEFT BLANK

LEFT BLANK



OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

3 – DRAWINGS

3.4 – GENERAL ARRANGEMENT DRAWING

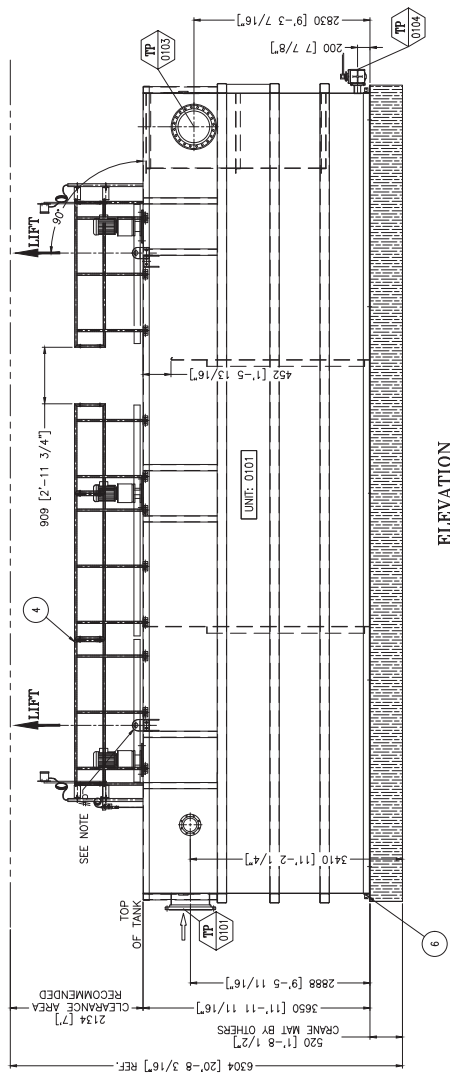
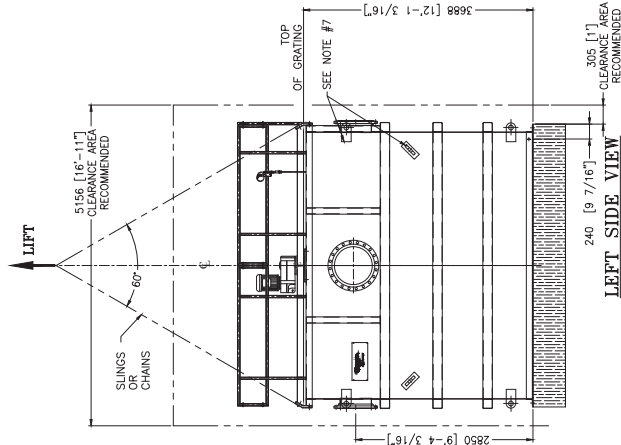
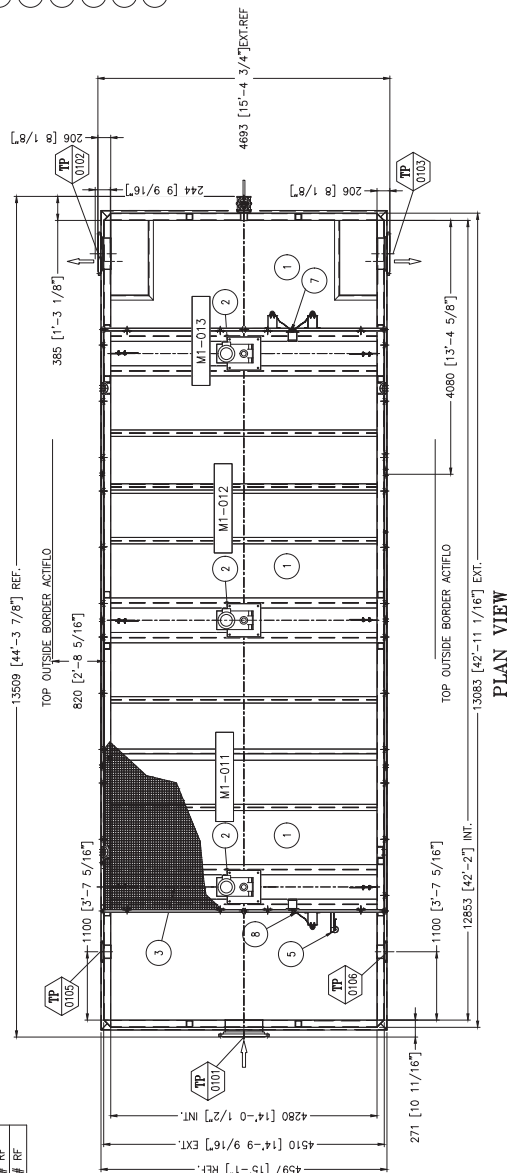
LEFT BLANK

TIE-POINT #	DESCRIPTION	DIMENSION / TYPE
TP-2101	RAW WATER INLET	4500mm [524"] - RAISED FACE FLANGE 150# RF
TP-2102	PREGATED WATER OUTLET	4500mm [520"] - RAISED FACE FLANGE 150# RF
TP-2103	PREGATED WATER OUTLET	4500mm [520"] - RAISED FACE FLANGE 150# RF
TP-2104	DRAIN	4100mm [541"] - FLAT FACE FLANGE 125# FF
TP-2105	SUPERNAINT	4200mm [581"] - RAISED FACE FLANGE 150# RF
TP-2106	SUPERNAINT	4200mm [581"] - RAISED FACE FLANGE 150# RF

REFERENCES DRAWING: 5000218009-PI0001 (SHEET 1)

NOTES:

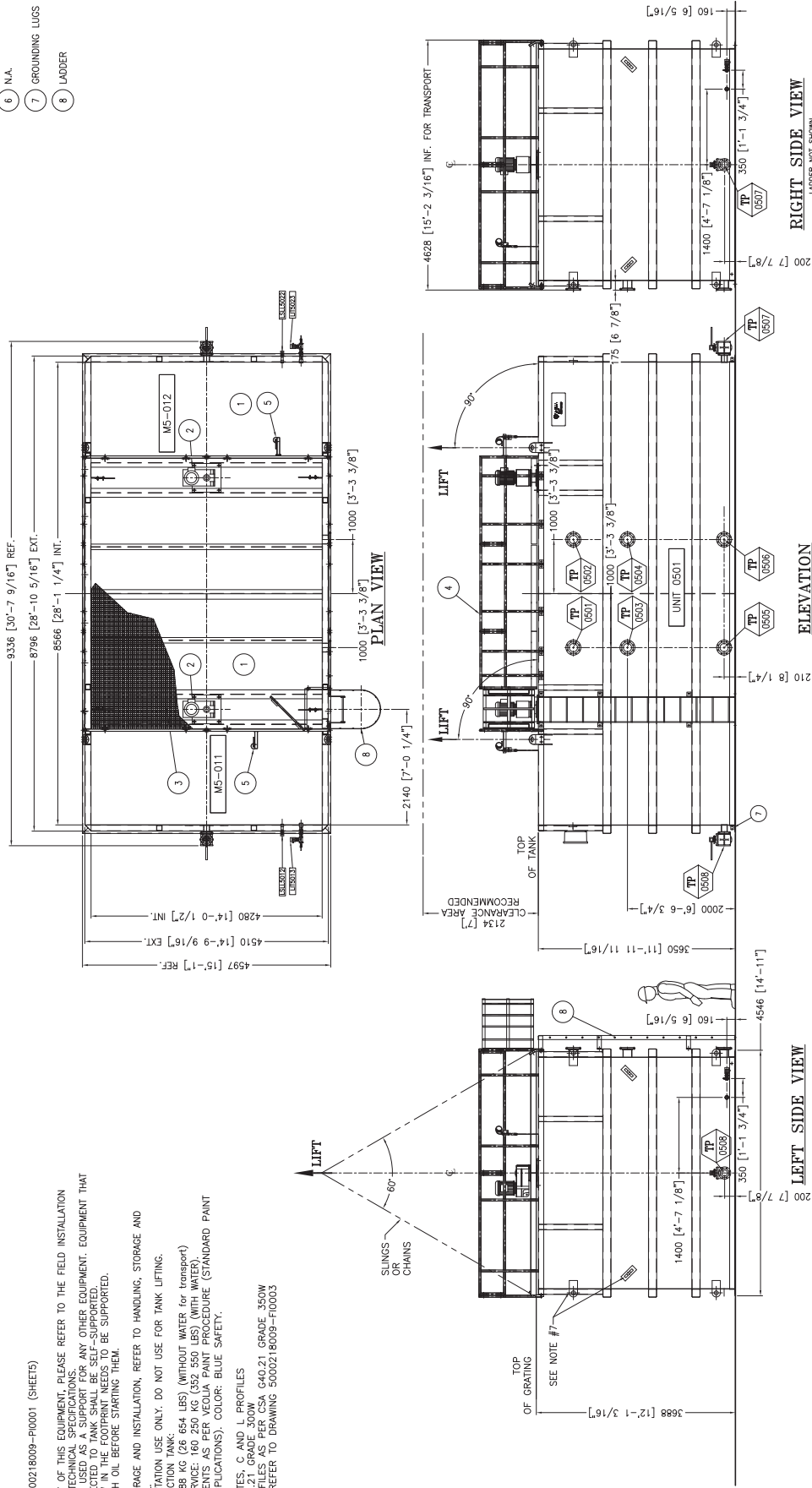
1. FOR LIST OF SUPPLY OF THIS EQUIPMENT, PLEASE REFER TO THE FIELD INSTALLATION DRAWINGS AND THE TECHNICAL SPECIFICATIONS.
2. TANK SHALL NOT BE USED AS A SUPPORT FOR ANY OTHER EQUIPMENT. EQUIPMENT THAT NEEDS TO BE CONNECTED TO TANK SHALL BE SELF-SUPPORTED.
3. HATCHED AREA SHOW IN THE FOOTPRINT NEEDS TO BE SUPPORTED.
4. REMOVE LIFTING LUGS ONCE THE TANK IS IN THE PLACE.
5. FOR UNLOADING, STORAGE AND INSTALLATION, REFER TO HANDLING, STORAGE AND INSTALLATION MANUAL.
6. TANKS FOR TRANSPORTATION USE ONLY. DO NOT USE FOR TANK LIFTING.
7. TANK WEIGHT (1) 17,350 KG (48,238 LBS) (WITHOUT WATER, for transport)
8. TANK WEIGHT (2) 350 KG (771 LBS) (WITH WATER)
9. TANK TOTAL WEIGHT IN SERVICE: 232,200 KG (510,840 LBS) (WITH WATER).
PAINTING REQUIREMENTS AS PER VEOLIA PANT PROCEDURE (STANDARD PAINT PROCEDURE—ALL APPLICATIONS). COLOR: BLUE SATYR.
10. MATERIAL:
 - STRUCTURAL PLATES: C AND L PROFILES
 - STRUCTURAL COLUMNS: C-30
 - HSS AND W. PROFILES: AS PER CSA 440.21 GRADE 350W

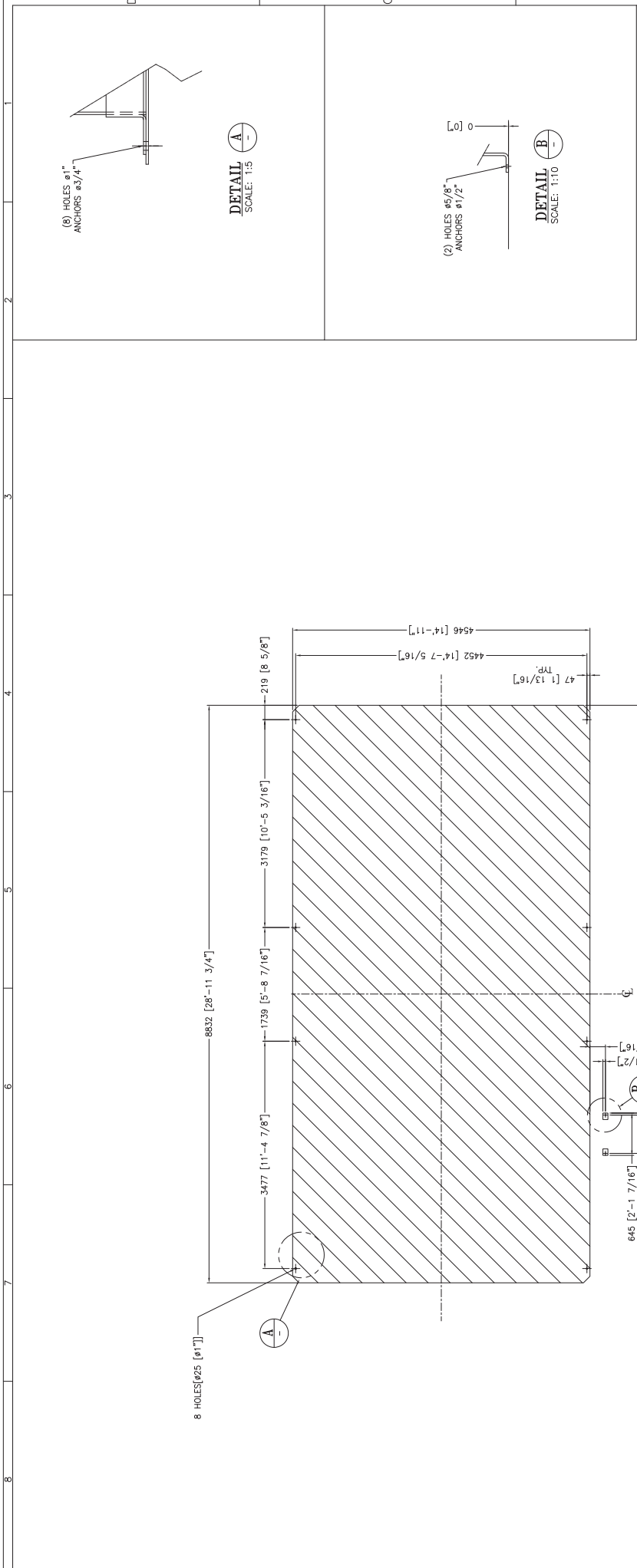
[illegible]

TIE-POINT #	DESCRIPTION	7	DIMENSION / TYPE
TP-0501	SLUDGE INLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0502	SLUDGE INLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0503	DECANTER OUTLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0504	DECANTER OUTLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0505	DECANTER OUTLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0506	DECANTER OUTLET	ø150mm [ø6"]	- RAISED FACE FLANGE 150# RF
TP-0507	DRAIN	ø100mm [ø4"]	- FLAT FACE FLANGE 125# FF
TP-0508	DRAIN	ø100mm [ø4"]	- FLAT FACE FLANGE 125# FF

REFERENCES DRAWING: 5000218009-PI0001 (SHEET5)

1. FOR LIST OF SUPPLY OF THIS EQUIPMENT, PLEASE REFER TO THE FIELD INSTALLATION DRAWINGS AND THE TECHNICAL SPECIFICATIONS.
2. TANK SHALL NOT BE USED AS A SUPPORT FOR ANY OTHER EQUIPMENT. EQUIPMENT THAT IS TO BE CONNECTED TO THE TANK MUST BE PROPERLY SUPPORTED.
3. HATCHES ARE TO BE KEPT OPEN AND EQUIPMENT NEEDS TO BE SUPPORTED.
4. FILL THE MIXERS WITH OIL BEFORE STARTING THEM.
5. N/A.
6. FOR UNLOADING, STORAGE AND INSTALLATION, REFER TO HANDLING, STORAGE AND INSTALLATION MANUAL.
7. INSTALLATION AND OPERATION USE ONLY. DO NOT USE FOR TANK LIFTING.
8. WEIGHT FOR (1) REACTION TANK:
TOTAL WEIGHT: 12,088 KG (26,654 LBS) (WITHOUT WATER for transport)
TOTAL WEIGHT IN SERVICE: 160,250 KG (352,550 LBS) (WITH WATER).
9. PAINTING REQUIREMENTS AS PER VULCA PAINT PROCEDURE (STANDARD PAINT PROCEDURE—ALL APPLICATIONS). COLOR: BLUE SAFETY.
10. MATERIAL:
a. STRUCTURAL PLATES: C AND L PROFILES
b. REINFORCEMENT: 10MM DIA. BARS
c. HSS AND W PROFILES AS PER CSA 640.21 GRADE 350W
11. FOR INSTALLATION REFER TO DRAWING 5000218009—F10003

[illegible]



FOOT PRINT

REV	DESCRIPTION	DATE	REV'D	CHK'D	APP'D	EDN	DESIGNER	DATE	TITLE
2	FOR APPROVAL	2018-04-27					A.C.	2018-03-08	SLUDGE TANK (UNIT 0401)
1	PRELIMINARY FOR THE APPROVAL OF LADDOI GEN. DRAWING	2018-03-16					CHECKER	2018-03-08	GENERAL ARRANGEMENT
							G.P.	2018-03-08	AGNICO EAGLE MINING
							ENGINEER	2018-03-08	AMARUQ, NU
							L.I.	2018-03-08	
							SCALE:	1:40	
							PROJECT	5000218009 - GA0002	
							DRAWING		
							INTERNAL	R00752	
							SHEET	2	OF 2
							REV	2	

VEOLIA

4125 Avenue de la Science
Montréal, Québec H3T 1S6
Tel: (514) 359-7200 / Fax: (514) 354-0570

7	6	5	4	3	2	1
---	---	---	---	---	---	---



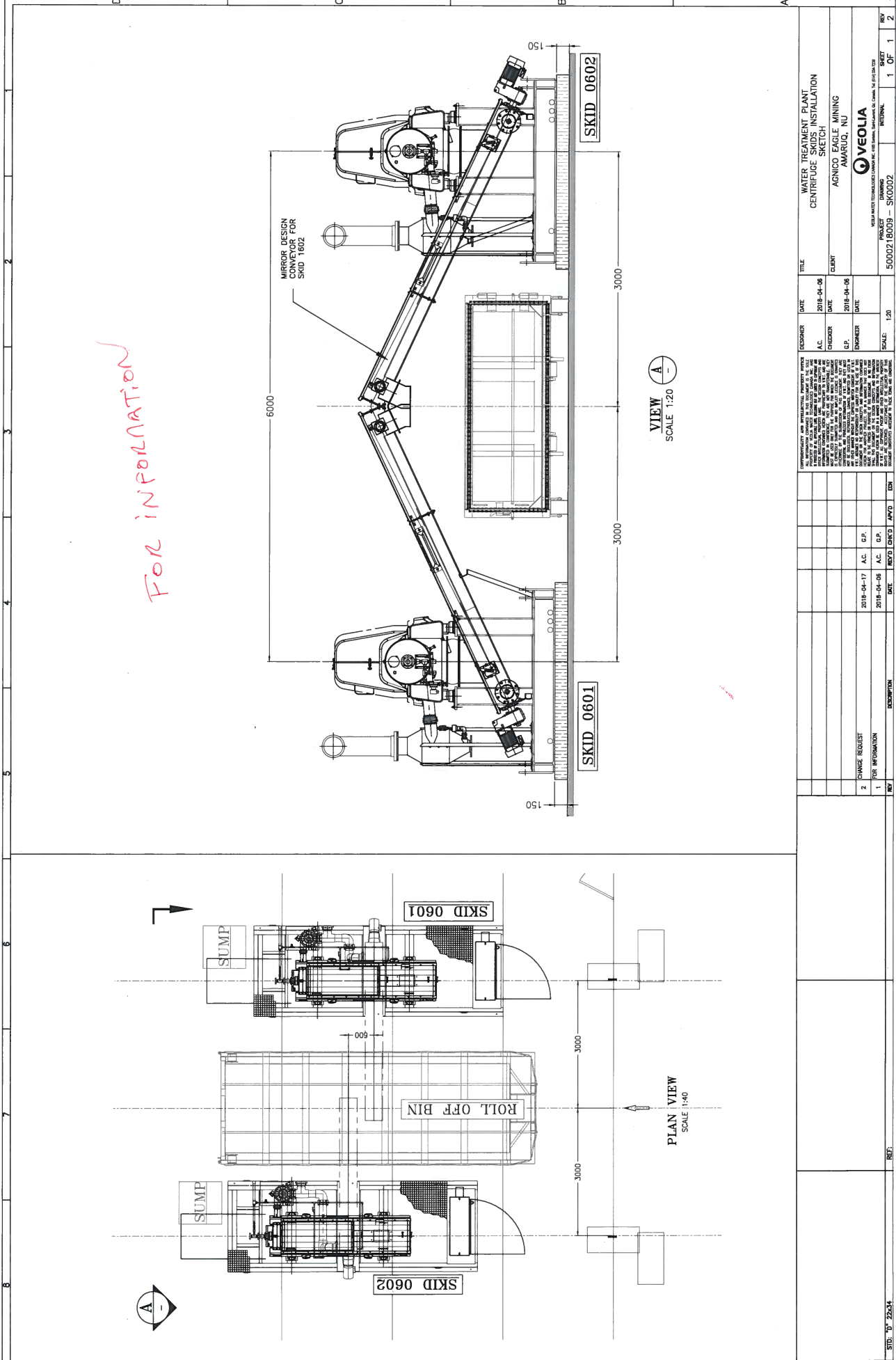
- | | | | | | | |
|---|---|---|---|---|---|---|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|

7	6	5	4	3	2	1
---	---	---	---	---	---	---

7	6	5	4	3	2	1
---	---	---	---	---	---	---

7	6	5	4	3	2	1
---	---	---	---	---	---	---

7	6	5	4	3	2	1
---	---	---	---	---	---	---



FOR INFORMATION

DESIGNER		DATE	TITLE
A.C.		2018-04-06	WATER TREATMENT PLANT
CHECKER		DATE	CENTRIFUGE SKIDS INSTALLATION
G.P.		2018-04-06	CLIENT
G.P.		2018-04-06	AGNICO EAGLE MINING
G.P.		2018-04-06	AMARUG, NU
SCALE		1:20	5000218009 - SK0002
DATE		2018-04-17	2
DATE		2018-04-06	1
DATE		2018-04-06	1
DATE		2018-04-06	2

DESCRIPTION	
2 CHANGE REQUEST	
1 FOR INFORMATION	
REV	

LEFT BLANK

VEOLIA

VEOLIA WATER TECHNOLOGIES INC. 225 Grande Ravine Dr. Canton, MA 01830-2000

PROJECT: 300079 - GAO007

REVISIONS:

1. 1/11

2. 1/11

3. 1/11

4. 1/11

5. 1/11

6. 1/11

7. 1/11

8. 1/11

9. 1/11

10. 1/11

11. 1/11

12. 1/11

13. 1/11

14. 1/11

15. 1/11

16. 1/11

17. 1/11

18. 1/11

19. 1/11

20. 1/11

21. 1/11

22. 1/11

23. 1/11

24. 1/11

25. 1/11

26. 1/11

27. 1/11

28. 1/11

29. 1/11

30. 1/11

31. 1/11

32. 1/11

33. 1/11

34. 1/11

35. 1/11

36. 1/11

37. 1/11

38. 1/11

39. 1/11

40. 1/11

41. 1/11

42. 1/11

43. 1/11

44. 1/11

45. 1/11

46. 1/11

47. 1/11

48. 1/11

49. 1/11

50. 1/11

51. 1/11

52. 1/11

53. 1/11

54. 1/11

55. 1/11

56. 1/11

57. 1/11

58. 1/11

59. 1/11

60. 1/11

61. 1/11

62. 1/11

63. 1/11

64. 1/11

65. 1/11

66. 1/11

67. 1/11

68. 1/11

69. 1/11

70. 1/11

71. 1/11

72. 1/11

73. 1/11

74. 1/11

75. 1/11

76. 1/11

77. 1/11

78. 1/11

79. 1/11

80. 1/11

81. 1/11

82. 1/11

83. 1/11

84. 1/11

85. 1/11

86. 1/11

87. 1/11

88. 1/11

89. 1/11

90. 1/11

91. 1/11

92. 1/11

93. 1/11

94. 1/11

95. 1/11

96. 1/11

97. 1/11

98. 1/11

99. 1/11

100. 1/11

101. 1/11

102. 1/11

103. 1/11

104. 1/11

105. 1/11

106. 1/11

107. 1/11

108. 1/11

109. 1/11

110. 1/11

111. 1/11

112. 1/11

113. 1/11

114. 1/11

115. 1/11

116. 1/11

117. 1/11

118. 1/11

119. 1/11

120. 1/11

121. 1/11

122. 1/11

123. 1/11

124. 1/11

125. 1/11

126. 1/11

127. 1/11

128. 1/11

129. 1/11

130. 1/11

131. 1/11

132. 1/11

133. 1/11

134. 1/11

135. 1/11

136. 1/11

137. 1/11

138. 1/11

139. 1/11

140. 1/11

141. 1/11

142. 1/11

143. 1/11

144. 1/11

145. 1/11

146. 1/11

147. 1/11

148. 1/11

149. 1/11

150. 1/11

151. 1/11

152. 1/11

153. 1/11

154. 1/11

155. 1/11

156. 1/11

157. 1/11

158. 1/11

159. 1/11

160. 1/11

161. 1/11

162. 1/11

163. 1/11

164. 1/11

165. 1/11

166. 1/11

167. 1/11

168. 1/11

169. 1/11

170. 1/11

171. 1/11

172. 1/11

173. 1/11

174. 1/11

175. 1/11

176. 1/11

177. 1/11

178. 1/11

179. 1/11

180. 1/11

181. 1/11

182. 1/11

183. 1/11

184. 1/11

185. 1/11

186. 1/11

187. 1/11

188. 1/11

189. 1/11

190. 1/11

191. 1/11

192. 1/11

193. 1/11

194. 1/11

195. 1/11

196. 1/11

197. 1/11

198. 1/11

199. 1/11

200. 1/11

201. 1/11

202. 1/11

203. 1/11

204. 1/11

205. 1/11

206. 1/11

207. 1/11

208. 1/11

209. 1/11

210. 1/11

211. 1/11

212. 1/11

213. 1/11

214. 1/11

215. 1/11

216. 1/11

217. 1/11

218. 1/11

219. 1/11

220. 1/11

221. 1/11

222. 1/11

223. 1/11

224. 1/11

225. 1/11

226. 1/11

227. 1/11

228. 1/11

229. 1/11

230. 1/11

231. 1/11

232. 1/11

233. 1/11

234. 1/11

235. 1/11

236. 1/11

237. 1/11

238. 1/11

239. 1/11

240. 1/11

241. 1/11

242. 1/11

243. 1/11

244. 1/11

245. 1/11

246. 1/11

247. 1/11

248. 1/11

249. 1/11

250. 1/11

251. 1/11

252. 1/11

253. 1/11

254. 1/11

255. 1/11

256. 1/11

257. 1/11

258. 1/11

259. 1/11

260. 1/11

261. 1/11

262. 1/11

263. 1/11

264. 1/11

265. 1/11

266. 1/11

267. 1/11

268. 1/11

269. 1/11

270. 1/11

271. 1/11

272. 1/11

273. 1/11

274. 1/11

275. 1/11

276. 1/11

277. 1/11

278. 1/11

279. 1/11

280. 1/11

281. 1/11

282. 1/11

283. 1/11

284. 1/11

285. 1/11

286. 1/11

287. 1/11

288. 1/11

289. 1/11

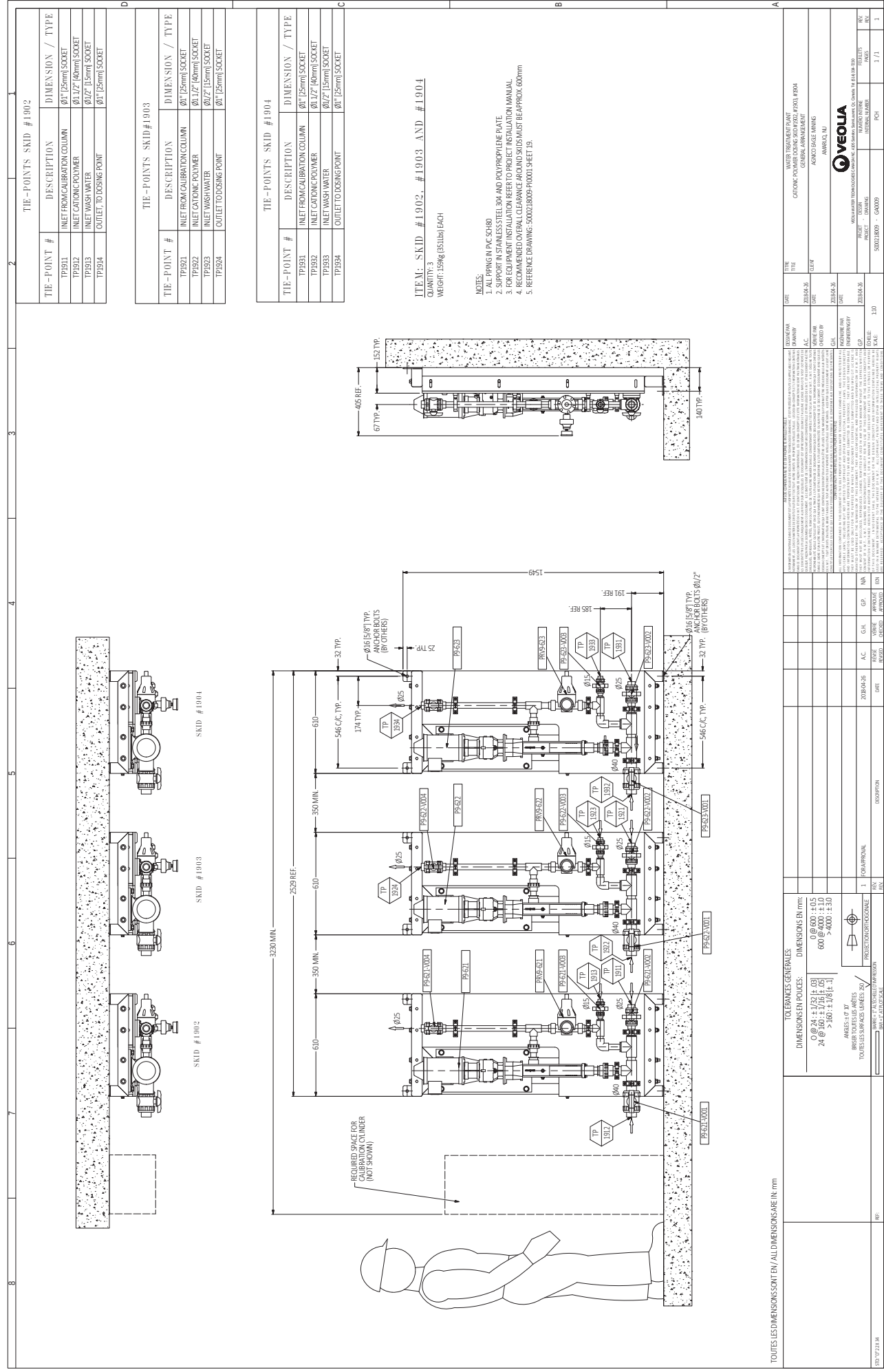
290. 1/11

291. 1/11

292. 1/11

293. 1/11

29





OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

3 – DRAWINGS

3.5 – FIELD INSTALLATION DRAWING

LEFT BLANK



NOMENCLATURE/ BILL OF MATERIALS

TITRE/ TITLE		Rev.	DESCRIPTION	DATE	Rev	Ver/dhk	Appr.	Affaire / Contract	AGNICO EAGLE MINING,AMARUQ, NU	
METAL PRECIPITATION REACTOR (SKID 0101) RX75-3, FIELD INSTALLATION		1	FOR INSTALLATION	5/15/2018	F.C.	L.J.	L.J.			
		2								
		3							5000218009	Rev.
										1
DESSIN /DWG #		F10001							Date:	5/7/2018
REV.	ITEM	QTE/QTY.		DESCRIPTION	INV. /Plan Ref. Drawing	P&ID I.D./TAG		Commentaires / Comments		
		Unit.	Total							
	5000218009-F10001-1	1	1	1 METAL PRECIPITATION REACTOR RX75-3, ASSEMBLY	SA100	UNIT-0101				
	5000218009-F10001-2	1	1	1 INJECTION QUILL VALVE KIT	SA200					
	5000218009-F10001-3	1	1	1 N/A						
	5000218009-F10001-4	4	4	4 HANDRAIL	FA104					
	5000218009-F10001-5	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-6	2	2	2 HANDRAIL	FA104					
	5000218009-F10001-7	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-8	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-9	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-10	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-11	1	1	1 HANDRAIL	FA104					
	5000218009-F10001-12	1	1	1 LEVEL SWITCH ENM-10	SA109	LSHH-1011				
	5000218009-F10001-13	5	5	5 U SUPPORT	FA111					
	5000218009-F10001-14	2	2	2 HEX HEAD SCREW Ø3/8"-16UNC x 1 1/4" (ASTM-F593C-304)	FXSCYS200375					
	5000218009-F10001-15	20	20	20 FLAT WASHER Ø3/8", SAE TYPE N (304)	FXWAYS200666					
	5000218009-F10001-16	10	10	10 HEX NUT Ø3/8"-16UNC (ASTM-F594C-304)	FXNUYS200206					
	5000218009-F10001-17	20	20	20 HEX HEAD SCREW Ø3/8"-16UNC x 4" ASTM A307 GR.B (GALV)	FXSCYS311688					
	5000218009-F10001-18	40	40	40 FLAT WASHER Ø3/8" ASTM F436, SAE TYPE N (GALV)	FXWAYS311690					
	5000218009-F10001-19	20	20	20 HEX NUT Ø3/8"-16UNC ASTM A536 GRA (GALV)	FXNUYS311689					
	5000218009-F10001-20	48	48	48 HEX HEAD SCREW Ø1/2"-13UNC x 1 3/4" ASTM A307 GR.B (GALV)	FXSCV311692					
	5000218009-F10001-21	96	96	96 FLAT WASHER Ø1/2" ASTM F436, SAE TYPE N (GALV)	FXWAYV311696					
	5000218009-F10001-22	48	48	48 HEX NUT Ø1/2"-13UNC ASTM A536 GRA (GALV)	FXNUYV311695					
	5000218009-F10001-23	1	1	METAL PRECIPITATION MIXER #1, MODEL: MIX-TECH EVGX-6-5.0 TYPE: VERTICAL MOUNTED c/w OIL EXPANSION CHAMBER c/w STAINLESS STEEL 304L SHAFT AND IMPELLER c/w NUTS AND BOLTS SHAFT: DIA.: 76,2 mm (3 in), LENGTH: 2430,8 mm (95,70 in.) IMPELLER: Q'TY : 1, DIAMETER "A": 2438,4 mm (96 in.) BOTTOM CLEARANCE "X": 1219,2 mm (48 in.) ROTATION DIRECTION: CCW - UP c/w MOTOR 5 HP, 575 Vac/3 ph/60 Hz, 1765 RPM, Isolation Class F WEIGHT: 1415 lb (642 kg)	ST-652-RX75UN1	MH-011				



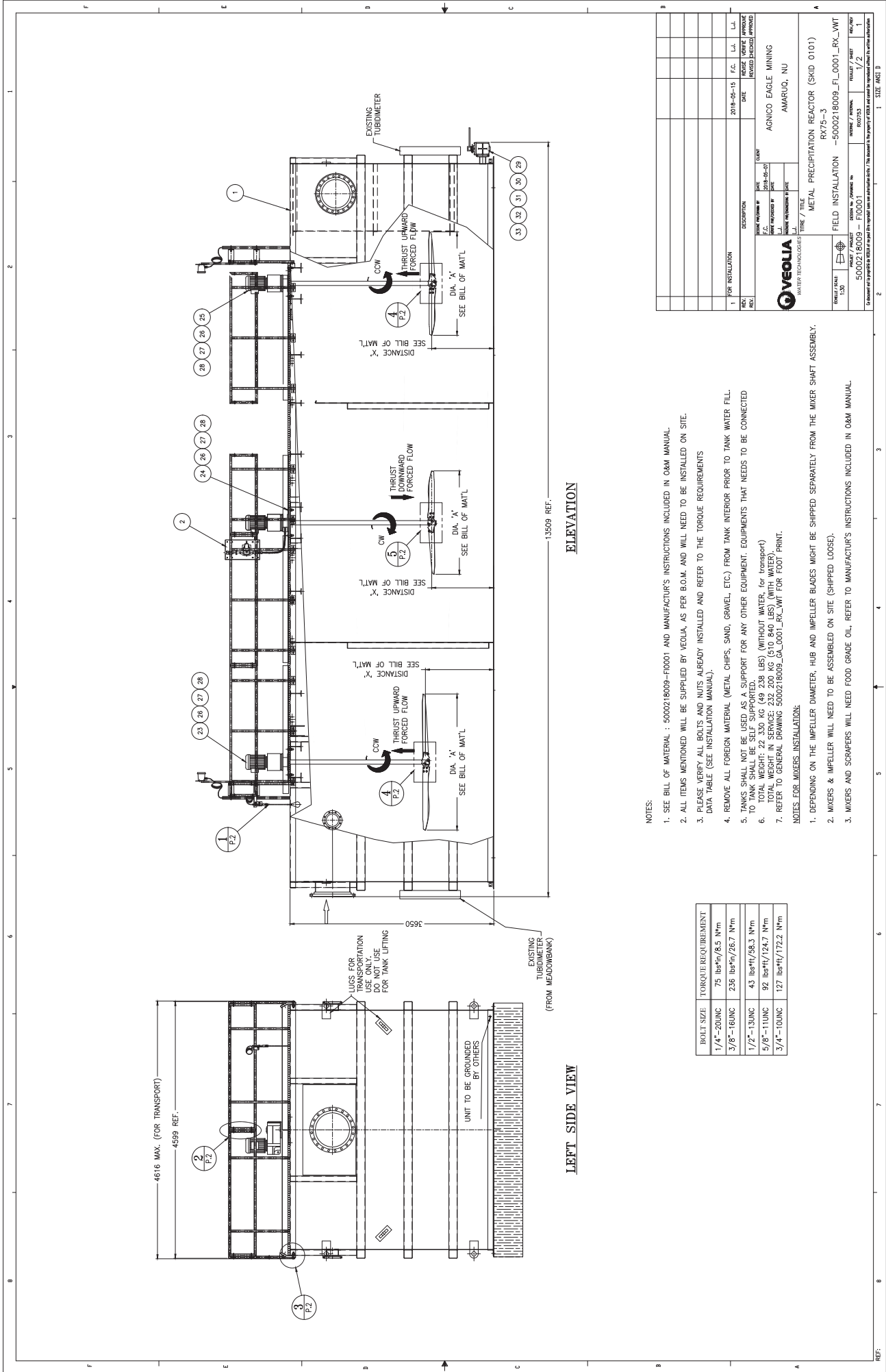
NOMENCLATURE/ BILL OF MATERIALS

TITRE/ TITLE		Rev.	DESCRIPTION		DATE	Rev	Ver/dhk	Appr.	Affaire / Contract	AGNICO EAGLE MINING, AMARUQ, NU	
METAL PRECIPITATION REACTOR (SKID 0101) RX75-3, FIELD INSTALLATION		1	FOR INSTALLATION		5/15/2018	F.C.	L.J.	L.J.			
		2									
		3								REF. No.	5000218009 Rev.
											1
DESSIN /DWG #		F10001								Date:	5/7/2018
REV.	ITEM	QTE/QTY.		DESCRIPTION	INV. /Plan Ref. Drawing	P&ID I.D./TAG	Commentaires / Comments				
	5000218009-F10001-24	1		METAL PRECIPITATION MIXER #2, MODEL: MIX-TECH EVGX-6-5.0 TYPE: VERTICAL MOUNTED c/w OIL EXPANSION CHAMBER c/w STAINLESS STEEL 304L SHAFT AND IMPELLER c/w NUTS AND BOLTS SHAFT: DIA.: 76,2 mm (3 in), LENGTH: 2430,8 mm (95,70 in.) IMPELLER: Q'TY : 1, DIAMETER "A": 2438,4 mm (96 in.) BOTTOM CLEARANCE "X": 1219,2 mm (48 in.) ROTATION DIRECTION: CW - DOWN c/w MOTOR 5 HP, 575 Vac/3 ph/60 Hz, 1765 RPM, Isolation Class F, WEIGHT: 1415 lb (642 kg)	ST-652-RX75DN1	MI-012					
	5000218009-F10001-25	1		METAL PRECIPITATION MIXER #3, MODEL: MIX-TECH EVGX-6-5.0 TYPE: VERTICAL MOUNTED c/w OIL EXPANSION CHAMBER c/w STAINLESS STEEL 304L SHAFT AND IMPELLER c/w NUTS AND BOLTS SHAFT: DIA.: 76,2 mm (3 in), LENGTH: 2430,8 mm (95,70 in.) IMPELLER: Q'TY : 1, DIAMETER "A": 2430,8 mm (95,7 in.) BOTTOM CLEARANCE "X": 1219,2 mm (48 in.) ROTATION DIRECTION: CCW - UP c/w MOTOR 5 HP, 575 Vac/3 ph/60 Hz, 1765 RPM, Isolation Class F, WEIGHT: 1415 lb (642 kg)	ST-652-RX75UN1	MI-013					
	5000218009-F10001-26	12		HEX. HEAD SCREW Ø7/8"-9UNC x 3 1/2" (ASTM-F593D-304)	FXSCYI200319						
	5000218009-F10001-27	24		FLAT WASHER Ø7/8", SAE TYPE N (304)	FXWAYI200658						
	5000218009-F10001-28	12		NYLON INSERT LOCK NUT Ø7/8"-9UNC (ASTM-F594D-304)	FXNUYI200194						
	5000218009-F10001-29	1		PLUG VALVE	ST-312-112	TI-011-V001					
	5000218009-F10001-30	1		GASKET FLANGE Ø4" FF, 1/8" TH (EPDM)	SEGAFP201223						
	5000218009-F10001-31	8		HEX. HEAD SCREW Ø5/8"-11UNC x 3" (ASTM-F593C-304)	FXSCYY200497						
	5000218009-F10001-32	16		FLAT WASHER Ø5/8", SAE TYPE N (304)	FXWAYY200674						
	5000218009-F10001-33	8		HEX NUT Ø5/8"-11UNC (ASTM-F594C-304)	FXNUYY200221						
	5000218009-F10001-34	8		HEX. HEAD SCREW Ø3/8"-16UNC x 1 3/4" (ASTM-F593C-304)	FXSCYS200377						
	5000218009-F10001-35	1		CLAMP WITH TWO MOUNTING HOLES FOR 3/4" DIA. PIPE, McMaster #8874T13	FPCLSS319089						
	5000218009-F10001-36	2		HEX. HEAD SCREW Ø1/4"-20UNC x 1 1/4" (ASTM-F593C-304)	FXSCYP200332						



Fin de la liste / End of list

LEFT BLANK



NOTES:

1. SEE BILL OF MATERIAL : 5000218009-F0001 AND MANUFACTURER'S INSTRUCTIONS INCLUDED IN O&M MANUAL.
2. ALL ITEMS MENTIONED WILL BE SUPPLIED BY VEDUA, AS PER B.O.M. AND WILL NEED TO BE INSTALLED ON SITE.
3. PLEASE VERIFY ALL BOLTS AND NUTS ALREADY INSTALLED AND REFER TO THE TORQUE REQUIREMENTS DATA TABLE (SEE INSTALLATION MANUAL).
4. REMOVE ALL FOREIGN MATERIAL (METAL CHIPS, SAND, GRAVEL, ETC.) FROM TANK INTERIOR PRIOR TO TANK WATER FILL.
5. TANKS SHALL NOT BE USED AS A SUPPORT FOR ANY OTHER EQUIPMENT. EQUIPMENTS THAT NEEDS TO BE CONNECTED TO TANK SHALL BE SUPPLIED BY THE USER.
6. TO TANK SHALL BE SUPPLIED WITH 4000 LBS (1818.25 KG) (WITHOUT WATER, FOR TANKS) TOTAL WEIGHT 22,335 LBS (10133.5 KG) (WITH WATER).
7. TOTAL WEIGHT IN SERVICE: 232,200 KG (510,840 LBS) (WITH WATER).
7. REFER TO GENERAL DRAWING 5000218009_GA_0001_RX_WMT FOR FOOT PRINT.

NOTES FOR MIXERS INSTALLATION:

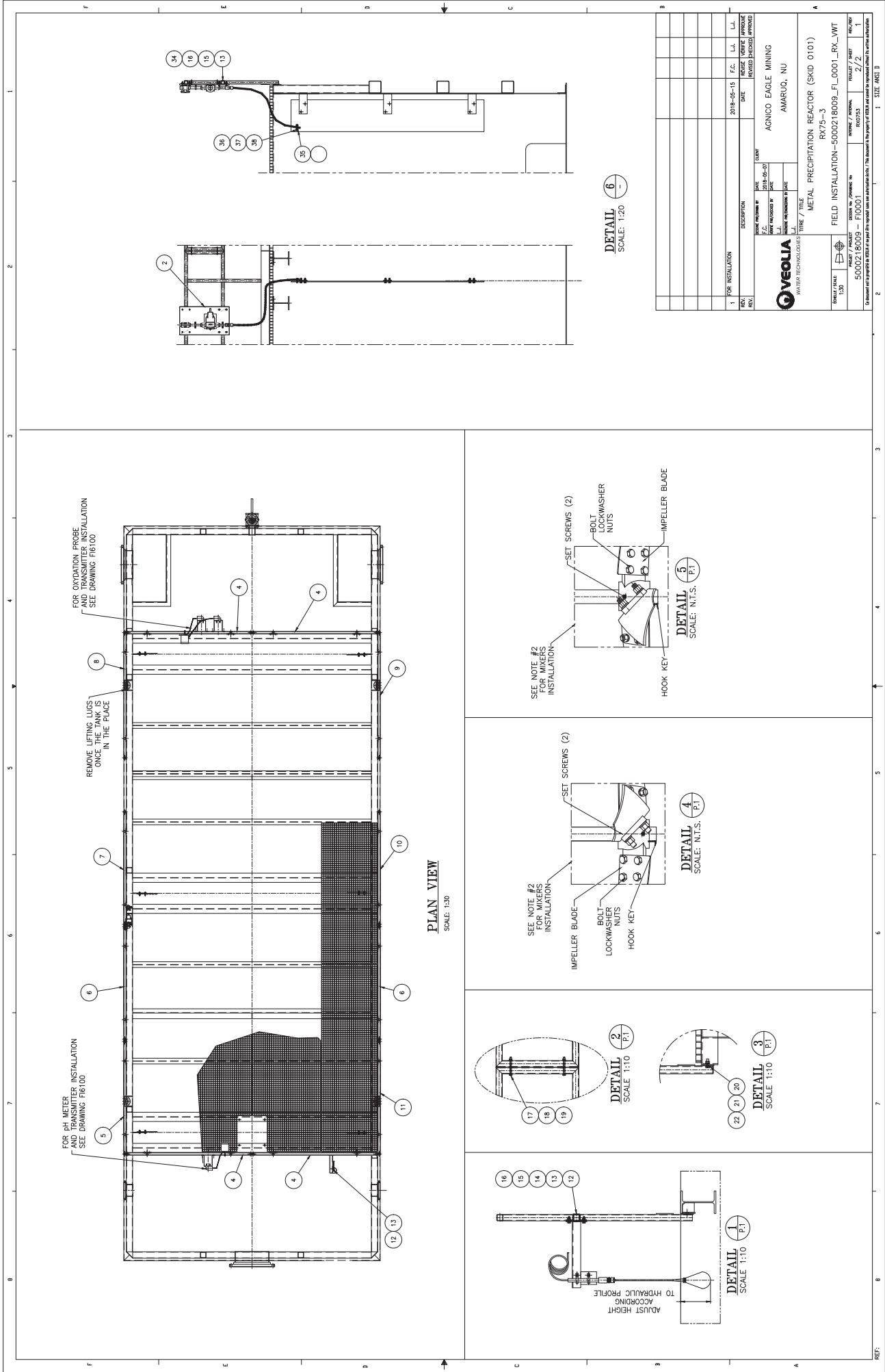
1. DEPENDING ON THE IMPELLER DIAMETER, HUB AND IMPELLER BLADES MIGHT BE SHIPPED SEPARATELY FROM THE MIXER SHAFT ASSEMBLY.
2. MIXERS & IMPELLER WILL NEED TO BE ASSEMBLED ON SITE (SHIPPED LOOSE).
3. MIXERS AND SCRAPERS WILL NEED FOOD GRADE OIL, REFER TO MANUFACTURER'S INSTRUCTIONS INCLUDED IN O&M MANUAL.

BOLT SIZE	TORQUE REQUIREMENT
1/4"-20UNC	75 lbs*in/6.5 N*m
3/8"-16UNC	235 lbs*in/26.7 N*m
1/2"-13UNC	43 lbs*in/58.3 N*m
5/8"-11UNC	92 lbs*in/124.7 N*m
3/4"-10UNC	127 lbs*in/172.2 N*m

LEFT SIDE VIEW

ELEVATION

1	FOR INSTALLATION	DATE	2018-05-15	F.C.	L.L.
REV.	DESCRIPTION	DATE	2018-05-21	F.C.	L.L.
1	REVISION	DATE	2018-05-21	F.C.	L.L.
2	REVISION	DATE	2018-05-21	F.C.	L.L.
3	REVISION	DATE	2018-05-21	F.C.	L.L.
4	REVISION	DATE	2018-05-21	F.C.	L.L.
5	REVISION	DATE	2018-05-21	F.C.	L.L.
6	REVISION	DATE	2018-05-21	F.C.	L.L.
7	REVISION	DATE	2018-05-21	F.C.	L.L.
8	REVISION	DATE	2018-05-21	F.C.	L.L.
9	REVISION	DATE	2018-05-21	F.C.	L.L.
10	REVISION	DATE	2018-05-21	F.C.	L.L.
11	REVISION	DATE	2018-05-21	F.C.	L.L.
12	REVISION	DATE	2018-05-21	F.C.	L.L.
13	REVISION	DATE	2018-05-21	F.C.	L.L.
14	REVISION	DATE	2018-05-21	F.C.	L.L.
15	REVISION	DATE	2018-05-21	F.C.	L.L.
16	REVISION	DATE	2018-05-21	F.C.	L.L.
17	REVISION	DATE	2018-05-21	F.C.	L.L.
18	REVISION	DATE	2018-05-21	F.C.	L.L.
19	REVISION	DATE	2018-05-21	F.C.	L.L.
20	REVISION	DATE	2018-05-21	F.C.	L.L.
21	REVISION	DATE	2018-05-21	F.C.	L.L.
22	REVISION	DATE	2018-05-21	F.C.	L.L.
23	REVISION	DATE	2018-05-21	F.C.	L.L.
24	REVISION	DATE	2018-05-21	F.C.	L.L.
25	REVISION	DATE	2018-05-21	F.C.	L.L.
26	REVISION	DATE	2018-05-21	F.C.	L.L.
27	REVISION	DATE	2018-05-21	F.C.	L.L.
28	REVISION	DATE	2018-05-21	F.C.	L.L.
29	REVISION	DATE	2018-05-21	F.C.	L.L.
30	REVISION	DATE	2018-05-21	F.C.	L.L.
31	REVISION	DATE	2018-05-21	F.C.	L.L.
32	REVISION	DATE	2018-05-21	F.C.	L.L.
33	REVISION	DATE	2018-05-21	F.C.	L.L.
34	REVISION	DATE	2018-05-21	F.C.	L.L.
35	REVISION	DATE	2018-05-21	F.C.	L.L.
36	REVISION	DATE	2018-05-21	F.C.	L.L.
37	REVISION	DATE	2018-05-21	F.C.	L.L.
38	REVISION	DATE	2018-05-21	F.C.	L.L.
39	REVISION	DATE	2018-05-21	F.C.	L.L.
40	REVISION	DATE	2018-05-21	F.C.	L.L.
41	REVISION	DATE	2018-05-21	F.C.	L.L.
42	REVISION	DATE	2018-05-21	F.C.	L.L.
43	REVISION	DATE	2018-05-21	F.C.	L.L.
44	REVISION	DATE	2018-05-21	F.C.	L.L.
45	REVISION	DATE	2018-05-21	F.C.	L.L.
46	REVISION	DATE	2018-05-21	F.C.	L.L.
47	REVISION	DATE	2018-05-21	F.C.	L.L.
48	REVISION	DATE	2018-05-21	F.C.	L.L.
49	REVISION	DATE	2018-05-21	F.C.	L.L.
50	REVISION	DATE	2018-05-21	F.C.	L.L.
51	REVISION	DATE	2018-05-21	F.C.	L.L.
52	REVISION	DATE	2018-05-21	F.C.	L.L.
53	REVISION	DATE	2018-05-21	F.C.	L.L.
54	REVISION	DATE	2018-05-21	F.C.	L.L.
55	REVISION	DATE	2018-05-21	F.C.	L.L.
56	REVISION	DATE	2018-05-21	F.C.	L.L.
57	REVISION	DATE	2018-05-21	F.C.	L.L.
58	REVISION	DATE	2018-05-21	F.C.	L.L.
59	REVISION	DATE	2018-05-21	F.C.	L.L.
60	REVISION	DATE	2018-05-21	F.C.	L.L.
61	REVISION	DATE	2018-05-21	F.C.	L.L.
62	REVISION	DATE	2018-05-21	F.C.	L.L.
63	REVISION	DATE	2018-05-21	F.C.	L.L.
64	REVISION	DATE	2018-05-21	F.C.	L.L.
65	REVISION	DATE	2018-05-21	F.C.	L.L.
66	REVISION	DATE	2018-05-21	F.C.	L.L.
67	REVISION	DATE	2018-05-21	F.C.	L.L.
68	REVISION	DATE	2018-05-21	F.C.	L.L.
69	REVISION	DATE	2018-05-21	F.C.	L.L.
70	REVISION	DATE	2018-05-21	F.C.	L.L.
71	REVISION	DATE	2018-05-21	F.C.	L.L.
72	REVISION	DATE	2018-05-21	F.C.	L.L.
73	REVISION	DATE	2018-05-21	F.C.	L.L.
74	REVISION	DATE	2018-05-21	F.C.	L.L.
75	REVISION	DATE	2018-05-21	F.C.	L.L.
76	REVISION	DATE	2018-05-21	F.C.	L.L.
77	REVISION	DATE	2018-05-21	F.C.	L.L.
78	REVISION	DATE	2018-05-21	F.C.	L.L.
79	REVISION	DATE	2018-05-21	F.C.	L.L.
80	REVISION	DATE	2018-05-21	F.C.	L.L.
81	REVISION	DATE	2018-05-21	F.C.	L.L.
82	REVISION	DATE	2018-05-21	F.C.	L.L.
83	REVISION	DATE	2018-05-21	F.C.	L.L.
84	REVISION	DATE	2018-05-21	F.C.	L.L.
85	REVISION	DATE	2018-05-21	F.C.	L.L.
86	REVISION	DATE	2018-05-21	F.C.	L.L.
87	REVISION	DATE	2018-05-21	F.C.	L.L.
88	REVISION	DATE	2018-05-21	F.C.	L.L.
89	REVISION	DATE	2018-05-21	F.C.	L.L.
90	REVISION	DATE	2018-05-21	F.C.	L.L.
91	REVISION	DATE	2018-05-21	F.C.	L.L.
92	REVISION	DATE	2018-05-21	F.C.	L.L.
93	REVISION	DATE	2018-05-21	F.C.	L.L.
94	REVISION	DATE	2018-05-21	F.C.	L.L.
95	REVISION	DATE	2018-05-21	F.C.	L.L.
96	REVISION	DATE	2018-05-21	F.C.	L.L.
97	REVISION	DATE	2018-05-21	F.C.	L.L.
98	REVISION	DATE	2018-05-21	F.C.	L.L.
99	REVISION	DATE	2018-05-21	F.C.	L.L.
100	REVISION	DATE	2018-05-21	F.C.	L.L.





NOMENCLATURE/ BILL OF MATERIALS

TITRE/ TITLE		Rev.		DESCRIPTION		DATE	Rev	Ver/chk	Appr.	Affaire / Contract	AGNICO EAGLE MINING, AMARUQ NU			
ACTIFLO RECIRCULATION LINES MODIFICATION		1		FOR INSTALLATION		5/14/2018	F.C.	L.J.						
		2		ADD LENGHT FLEXIBLE TUBE		5/29/2018	F.C.	L.J.						
		3		ADDED ITEMS FROM #46 to #63		8/15/2018	A.C.	L.J.			REF. No.	5000218009	Rev.	3
		4												
DESSIN /DWG #		F10002								Date:	4/23/2018			
REV.	ITEM	QTE/QTY.		DESCRIPTION	INV./Plan Ref. Drawing	P&ID I.D./TAG		Commentaires / Comments						
		Unit.	Total											
	5000218009-F10002-1	8	16	RECIRCULATION PIPE ø6" (2565mm LG) VICTAULIC END 75kg each	FA120									
	5000218009-F10002-2	1	1	RECIRCULATION PIPE ø6" (2058 LG) VICTAULIC END AND ELBOW 71 kg	FA121									
	5000218009-F10002-3	1	1	RECIRCULATION PIPE ø6" (2708 LG) VICTAULIC END AND ELBOW 89 kg	FA122									
	5000218009-F10002-4	1	1	RECIRCULATION PIPE ø6" (1567 LG) VICTAULIC END AND ELBOW 57kg	FA123									
	5000218009-F10002-5	1	1	RECIRCULATION PIPE ø6" (2217 LG) VICTAULIC END AND ELBOW 76kg	FA124									
	5000218009-F10002-6	1	2	RECIRCULATION PIPE ø6" (552 LG) VICTAULIC END AND HOSE ADAPTOR 20kg each	FA125									
	5000218009-F10002-7	1	2	RECIRCULATION PIPE ø6" (922 LG) VICTAULIC END AND HOSE ADAPTOR 30kg each	FA126									
	5000218009-F10002-8	1	2	RECIRCULATION PIPE, ø6" DISCHARGE PUMP (830mm LG) 36kg each	FA127									
	5000218009-F10002-9	1	2	RECIRCULATION PIPE, ø6" DISCHARGE PUMP (1170 LG) 45kg each	FA128									
	5000218009-F10002-10	1	4	RECIRCULATION PIPE, ø3" SUCCION PUMP 12kg each	FA129									
3	5000218009-F10002-11	4	2	ADAPTOR FLANGEø4" X GROOVE GALV (897 LG)13kg each	FA130						NOT USED			
	5000218009-F10002-12	1	2	RECIRCULATION PIPE ø2" DISCHARGE ø1-1/2"PUMP 665mm LG 6.5 kg each	FA131									
	5000218009-F10002-13	1	2	RECIRCULATION PIPE, ø2" DISCHARGE ø1-1/2"PUMP3kg	FA132									
	5000218009-F10002-14	1	2	RECIRCULATION PIPE, elbows ø4", 366mm lg, 19 kg each	FA133									
3	5000218009-F10002-15	4	2	RECIRCULATION PIPE, ø4" 1607mm lg, 31 kg each—	FA134						NOT USED			
	5000218009-F10002-16	1	2	RECIRCULATION PIPE, ø4"(END VIC-FLANGE)25kg each	FA135									
	5000218009-F10002-17	1	2	RECIRCULATION PIPE, ø4"/ø2"(END VIC-FLANGE) 431mm long, 11kg each	FA136									
	5000218009-F10002-18	1	2	RECIRCULATION PIPE, elbows ø6"1137mm , 71kg each	FA137									
	5000218009-F10002-19	1	2	RECIRCULATION PIPE, ø2" 400mm lg , 6.5 kg each	FA138									
	5000218009-F10002-20	2	4	NIPPLE ø6" GR x HOSE	FPNISS334548									
	5000218009-F10002-21	2	4	ADAPTOR 4 FLANGE X GROOVE GALV STYLE 45	FPADSS334665									
	5000218009-F10002-22	1	2	ADAPTOR 2 FLANGE X GROOVE GALV	FPADSS314236									
	5000218009-F10002-23	2	4	ADAPTOR 4 GROOVE X GROOVE GALV STYLE43	FPADSS334664									
	5000218009-F10002-24	1	2	ADAPTOR 2 GROOVE X GROOVE GALV STYLE43	FPADSS334666									
	5000218009-F10002-25	3	6	PLUG VALVE ø4"	ST-312-112									
	5000218009-F10002-26	7	14	COUPLING "VICTAULIC" RIGIDE Ø4", SEAL EPDM (GALV.) STYLE-07	FPADSS200463									
	5000218009-F10002-27	2	4	COUPLING "VICTAULIC" FLEXIBLE Ø2", SEAL EPDM, STYLE-75 (GALV.)	FPADSS200462									
	5000218009-F10002-28	12	24	COUPLING GROOVE END "VICTAULIC" 6,GALV FLEXIBLE,EPDM	FPADSS314692									
	5000218009-F10002-29	LOT	LOT	FLEXIBLE TUBE Ø4" ID, Ø118mm OD, BLEU FDA, 240PSI ALFAGOMMA 51907-4 (8 M LG)	FTTUCS305970									

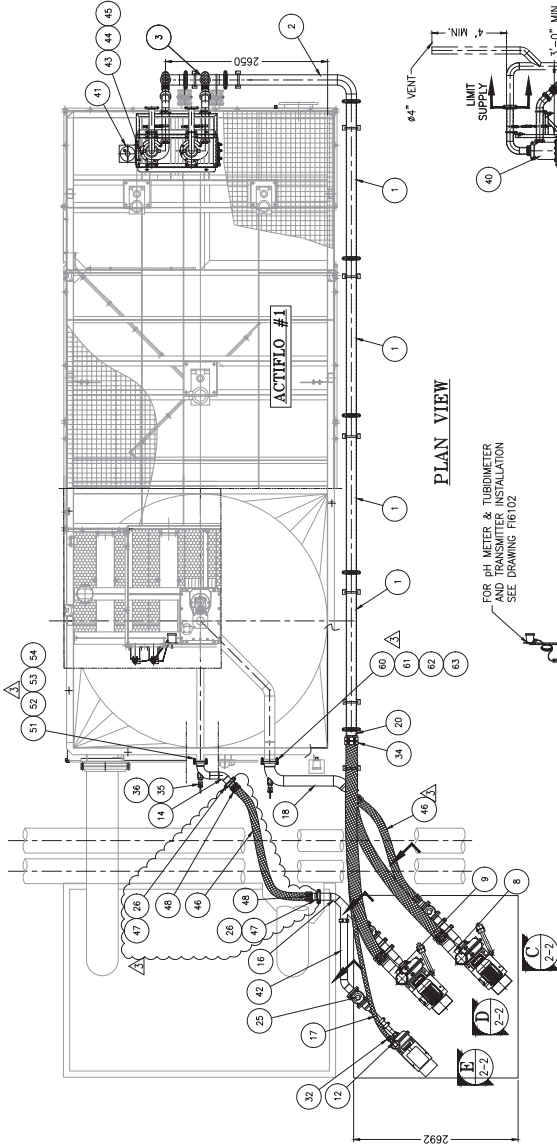


NOMENCLATURE/ BILL OF MATERIALS

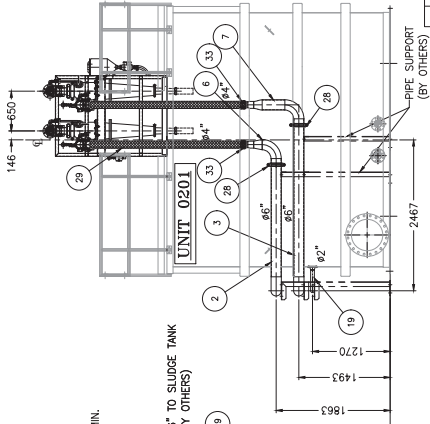
TITRE / TITLE		Rev.	DESCRIPTION	DATE	Rev	Ver/chk	Appr.	Affaire / Contract	AGNICO EAGLE MINING, AMARUQ NU		
ACTIFLO RECIRCULATION LINES MODIFICATION		1	FOR INSTALLATION	5/14/2018	F.C.	L.J.					
		2	ADD LENGHT FLEXIBLE TUBE	5/29/2018	F.C.	L.J.					
		3	ADDED ITEMS FROM #46 to #63	8/15/2018	A.C.	L.J.			REF. No.	5000218009	Rev. 3
		4									
DESSIN /DWG #		FI0002						Date:	4/23/2018		
REV.	ITEM	QTE/QTY.		DESCRIPTION	INV. /Plan Ref. Drawing	P&ID I.D./TAG		Commentaires / Comments			
	5000218009-FI0002-30	LOT	Total	FLEXIBLE TUBE Ø6" ID, GREEN FDA, 240PSI ALFAGOMMA 720LG-3 (16 M LG)	FTTUCS305972						
	5000218009-FI0002-31	LOT		FLEXIBLE TUBE Ø2" ID, Ø63mm OD, BLUE FDA, 240PSI ALFAGOMMA 519OE-3 (50 M LG)	FTTUCS305968						
	5000218009-FI0002-32	4		8 HOSE CLAMP W4, Ø63mm x Ø68mm (304)	FXCLZH300020						
	5000218009-FI0002-33	8		16 HOSE CLAMP W4, Ø112mm x Ø121mm (304)	FXCLZL301866						
	5000218009-FI0002-34	8		16 HOSE CLAMP W4, Ø162mm x Ø174mm (304)	FXCLZL306213						
	5000218009-FI0002-35	2		4 BALL VALVE ø 2"	VABLSS204735						
	5000218009-FI0002-36	2		4 NIPPLE ø2" NPT x 2" LG. (316, ASTM A312)	FPNISS328862						
	5000218009-FI0002-37	48		96 HEX. HEAD SCREW Ø5/8"-11 x 3" (ASTM A307 GR.B GALV)	FXSCYY311699						
	5000218009-FI0002-38	96		192 FLAT WASHER Ø5/8" (ASTM F436 SAE TYPE E, GALV)	FXWAYY311702						
	5000218009-FI0002-39	48		96 HEX.NUT Ø5/8"-11UNC (GALV.)	FXNUYY305327						
	5000218009-FI0002-40	1		2 HYDROCYCLONE ASSEMBLY	SA050						
	5000218009-FI0002-41	1		2 SAMPLING TANK	SA1456						
	5000218009-FI0002-42	1		2 RECIRCULATION PIPE, ø4" 1027mm , 25 kg each	FA139						
	5000218009-FI0002-43	2		4 SUPPORT TANK	FABKA132362						
	5000218009-FI0002-44	4		8 HEX. HEAD SCREW Ø5/16"-18UNC x 5/8" (ASTM-F593C-304)	FXSCYD200271						
	5000218009-FI0002-45	4		8 FLAT WASHER Ø5/16", SAE TYPE N (304)	FXWAYD200651						
3	5000218009-FI0002-46	LOT	LOT	FLEXIBLE TUBE Ø4" ID, Ø118mm OD, BLEU FDA, 240PSI ALFAGOMMA 519O7-4 (20 M LG)	FTTUCS305970						
3	5000218009-FI0002-47	2		4 NIPPLE COMBINATION 4" GROOVE X HOSE (GALV)	FPNISS332922						
3	5000218009-FI0002-48	8		16 HOSE CLAMP W4, Ø112mm x Ø121mm (304)	FXCLZL301866						
3	5000218009-FI0002-49	2		4 NIPPLE COMBINATION 4" HOSE X MNPT, SS316	FPNISS314049						
3	5000218009-FI0002-50	2		FLANGE THREADED Ø4" FNPT, #150, A182, FLAT FACE, F304, B16.5	FPFGSS336305						
3	5000218009-FI0002-51	16		32 HEX. HEAD SCREW Ø5/8"-11 x 3" (ASTM A307 GR.B GALV)	FXSCYY311699						
3	5000218009-FI0002-52	32		64 FLAT WASHER Ø5/8" (ASTM F436 SAE TYPE E, (GALV)	FXWAYY311702						
3	5000218009-FI0002-53	16		32 HEX.NUT Ø5/8"-11UNC (GALV.)	FXNUYY305327						
3	5000218009-FI0002-54	8		16 GASKET FLANGE Ø4" FF, 1/8" TH (RED RUBBER)	SEGAFP200123						
3	5000218009-FI0002-55	1		2 ADAPTOR 4 FLANGE X GROOVE GALV STYLE 45	FPADSS334665						
3	5000218009-FI0002-56	8		16 HEX. NUT Ø1/2"-13 (GALV)	FXNUYV308869						
3	5000218009-FI0002-57	16		32 FLAT WASHER Ø1/2" ASTM F436 SAE TYPE N (GALV.)	FXWAYV311696						
3	5000218009-FI0002-58	16		32 HEX.NUT Ø5/8"-11UNC (GALV.)	FXNUYY305327						
3	5000218009-FI0002-59	32		64 FLAT WASHER Ø5/8" ASTM F436 SAE TYPE N (GALV.)	FXWAYY311702						
3	5000218009-FI0002-60	1		2 GASKET FLANGE Ø6" FF, 1/8" TH (RED RUBBER)	SEGAFP200126						
3	5000218009-FI0002-61	8		16 HEX. HEAD SCREW Ø3/4"-10UNC x 3 1/2" ASTM-A307 GR B GALV	FXSCZC318768						
3	5000218009-FI0002-62	16		32 FLAT WASHER Ø3/4", F436 SAE TYPE N, GALV	FXWAZC318490						
3	5000218009-FI0002-63	8		16 HEX.NUT Ø3/4"-10UNC A563 GR A GALV	FXNUZC318489						
				Fin de la liste / End of list							

NOTES:

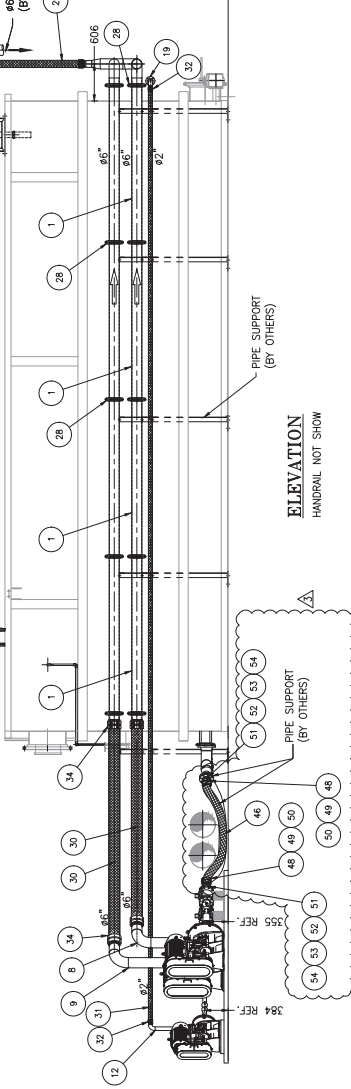
1. SEE BILL OF MATERIAL : 5000218009-FI0002 AND MANUFACTURER'S INSTRUCTIONS INCLUDED IN O&M MANUAL.
2. ALL ITEMS MENTIONED WILL BE SUPPLIED BY VEOLIA, AS PER B.O.M. AND WILL NEED TO BE INSTALLED ON SITE.
3. PLEASE VERIFY ALL BOLTS AND NUTS ALREADY INSTALLED AND REFER TO THE TORQUE REQUIREMENTS DATA TABLE (SEE INSTALLATION MANUAL).
4. INSERT DRIP PAN UNDER EACH PUMP DRY GLAND TO PREVENT LEAKAGE.
5. REMOVE ALL FOREIGN MATERIAL (METAL CHIPS, SAND, GRAVEL, ETC.) FROM TANK INTERIOR PRIOR TO TANK WATER FILL.
6. TANKS SHALL NOT BE USED AS A SUPPORT FOR ANY OTHER EQUIPMENT. EQUIPMENTS THAT NEEDS TO BE CONNECTED TO TANK SHALL BE SELF SUPPORTED.
7. BEFORE INSTALLING ITEM 40, HYDROCYCLONE ASSEMBLY, VERIFY THAT THE EXISTING WELDS UNDER THE SUPPORTS ANGLE ARE UP TO THE STANDARDS AND THAT THEY SHOW NON SIGNS OF DETEIORATION.



PLAN VIEW

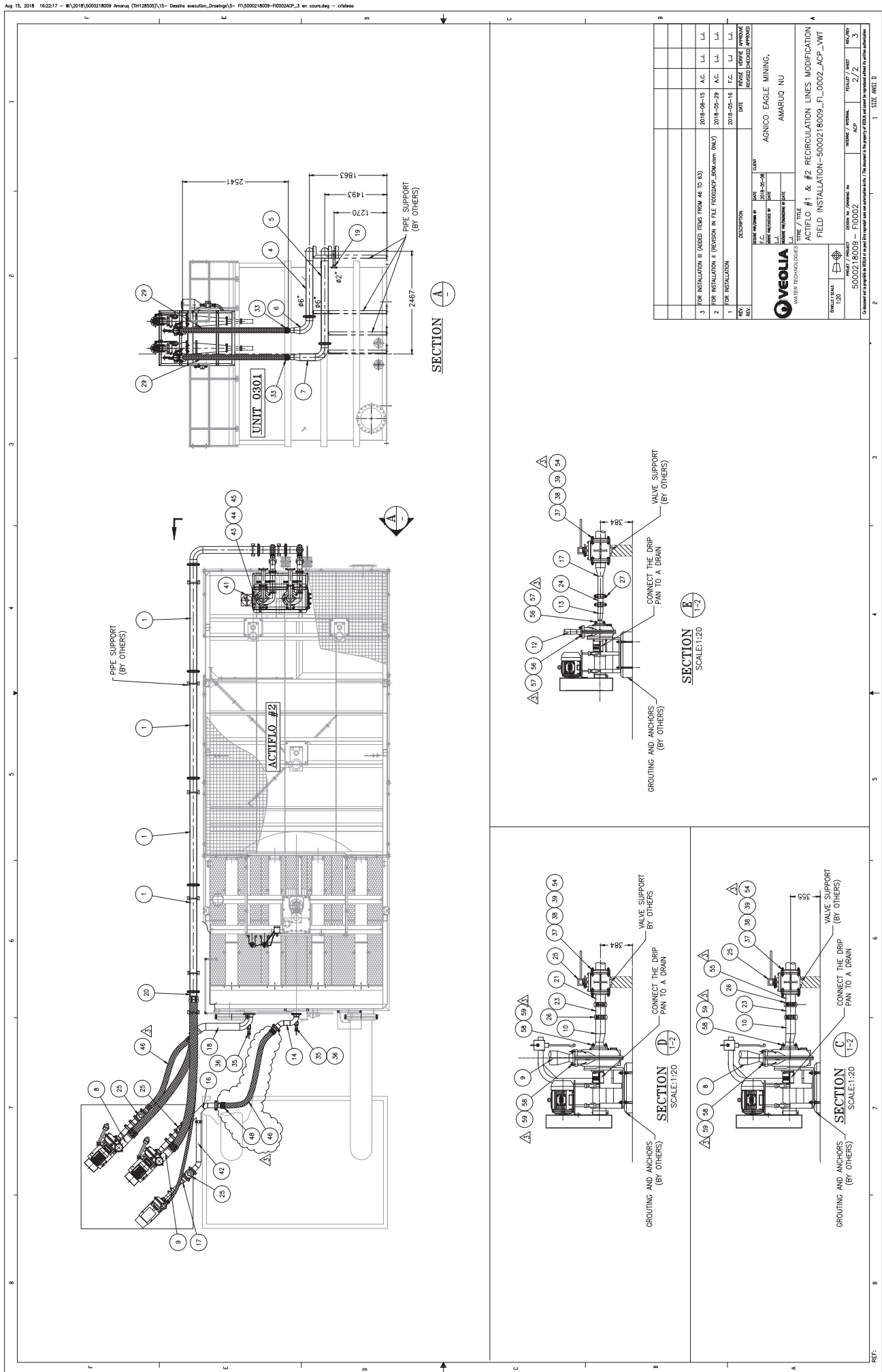


SIDE VIEW



ELEVATION
HANDRAIL NOT SHOW

REV.	DESCRIPTION	DATE	BY	CHKD.	DATE	BY	CHKD.
1	FOR INSTALLATION	2018-05-16	F.C.	L.J.	2018-05-16	F.C.	L.J.
2	FOR INSTALLATION II (ADDED ITEMS FROM 46 TO 63)	2018-05-15	A.C.	L.J.	2018-05-15	A.C.	L.J.
3	FOR INSTALLATION III (REASON IN FILE FOODGAP_BOM.com ONLY)	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
4	FOR INSTALLATION IV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
5	FOR INSTALLATION V	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
6	FOR INSTALLATION VI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
7	FOR INSTALLATION VII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
8	FOR INSTALLATION VIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
9	FOR INSTALLATION IX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
10	FOR INSTALLATION X	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
11	FOR INSTALLATION XI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
12	FOR INSTALLATION XII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
13	FOR INSTALLATION XIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
14	FOR INSTALLATION XIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
15	FOR INSTALLATION XV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
16	FOR INSTALLATION XVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
17	FOR INSTALLATION XVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
18	FOR INSTALLATION XVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
19	FOR INSTALLATION XIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
20	FOR INSTALLATION XX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
21	FOR INSTALLATION XXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
22	FOR INSTALLATION XXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
23	FOR INSTALLATION XXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
24	FOR INSTALLATION XXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
25	FOR INSTALLATION XXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
26	FOR INSTALLATION XXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
27	FOR INSTALLATION XXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
28	FOR INSTALLATION XXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
29	FOR INSTALLATION XXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
30	FOR INSTALLATION XXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
31	FOR INSTALLATION XXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
32	FOR INSTALLATION XXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
33	FOR INSTALLATION XXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
34	FOR INSTALLATION XXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
35	FOR INSTALLATION XXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
36	FOR INSTALLATION XXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
37	FOR INSTALLATION XXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
38	FOR INSTALLATION XXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
39	FOR INSTALLATION XXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
40	FOR INSTALLATION XXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
41	FOR INSTALLATION XXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
42	FOR INSTALLATION XXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
43	FOR INSTALLATION XXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
44	FOR INSTALLATION XXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
45	FOR INSTALLATION XXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
46	FOR INSTALLATION XXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
47	FOR INSTALLATION XXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
48	FOR INSTALLATION XXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
49	FOR INSTALLATION XXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
50	FOR INSTALLATION XXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
51	FOR INSTALLATION XXXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
52	FOR INSTALLATION XXXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
53	FOR INSTALLATION XXXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
54	FOR INSTALLATION XXXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
55	FOR INSTALLATION XXXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
56	FOR INSTALLATION XXXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
57	FOR INSTALLATION XXXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
58	FOR INSTALLATION XXXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
59	FOR INSTALLATION XXXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
60	FOR INSTALLATION XXXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
61	FOR INSTALLATION XXXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
62	FOR INSTALLATION XXXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
63	FOR INSTALLATION XXXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
64	FOR INSTALLATION XXXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
65	FOR INSTALLATION XXXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
66	FOR INSTALLATION XXXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
67	FOR INSTALLATION XXXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
68	FOR INSTALLATION XXXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
69	FOR INSTALLATION XXXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
70	FOR INSTALLATION XXXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
71	FOR INSTALLATION XXXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
72	FOR INSTALLATION XXXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
73	FOR INSTALLATION XXXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
74	FOR INSTALLATION XXXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
75	FOR INSTALLATION XXXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
76	FOR INSTALLATION XXXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
77	FOR INSTALLATION XXXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
78	FOR INSTALLATION XXXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
79	FOR INSTALLATION XXXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
80	FOR INSTALLATION XXXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
81	FOR INSTALLATION XXXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
82	FOR INSTALLATION XXXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
83	FOR INSTALLATION XXXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
84	FOR INSTALLATION XXXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
85	FOR INSTALLATION XXXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
86	FOR INSTALLATION XXXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
87	FOR INSTALLATION XXXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
88	FOR INSTALLATION XXXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
89	FOR INSTALLATION XXXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
90	FOR INSTALLATION XXXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
91	FOR INSTALLATION XXXXXI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
92	FOR INSTALLATION XXXXXII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
93	FOR INSTALLATION XXXXXIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
94	FOR INSTALLATION XXXXXIV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
95	FOR INSTALLATION XXXXXV	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
96	FOR INSTALLATION XXXXXVI	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
97	FOR INSTALLATION XXXXXVII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
98	FOR INSTALLATION XXXXXVIII	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
99	FOR INSTALLATION XXXXXIX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.
100	FOR INSTALLATION XXXXXX	2018-05-29	A.C.	L.J.	2018-05-29	A.C.	L.J.





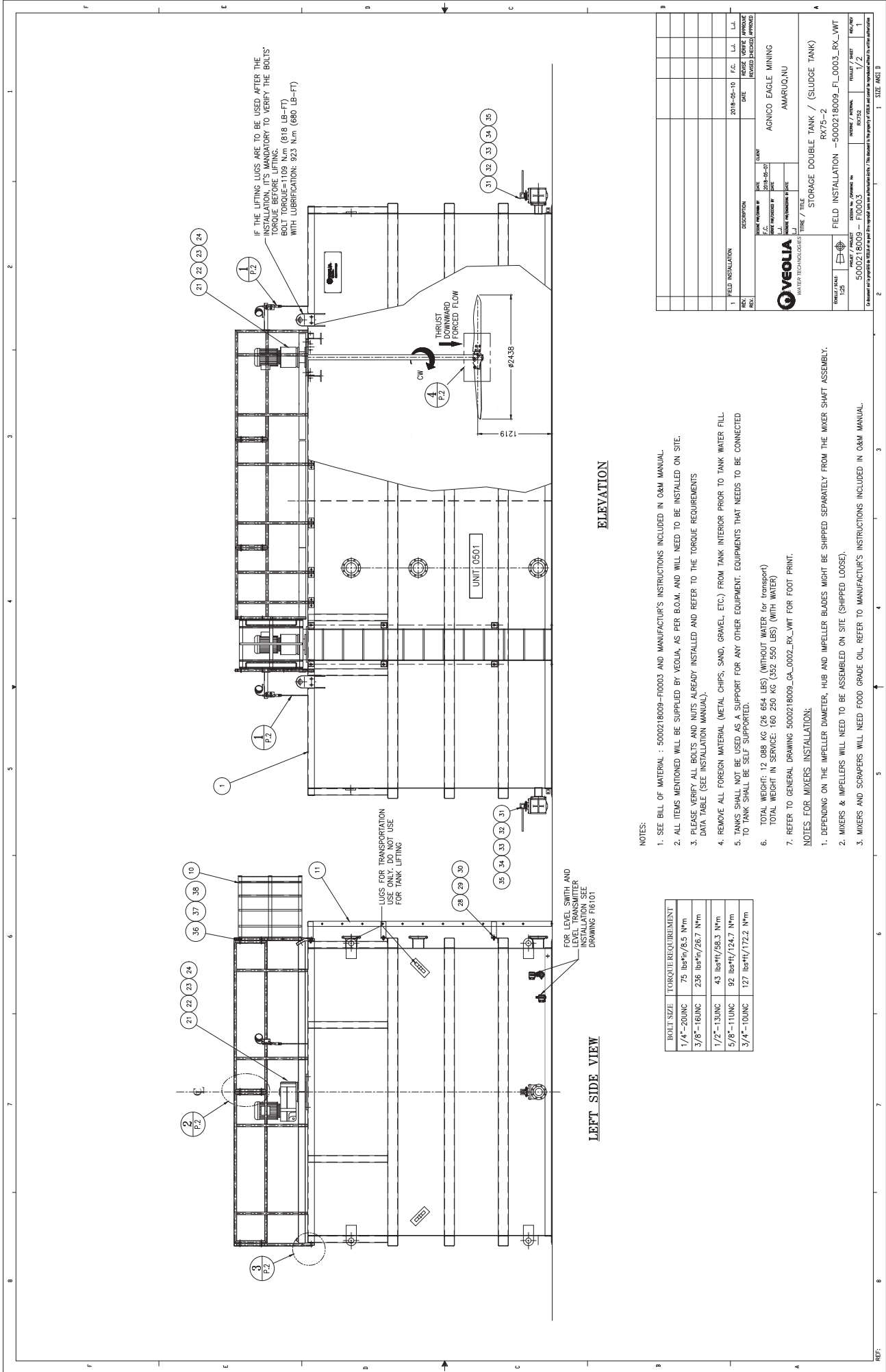
NOMENCLATURE/ BILL OF MATERIALS

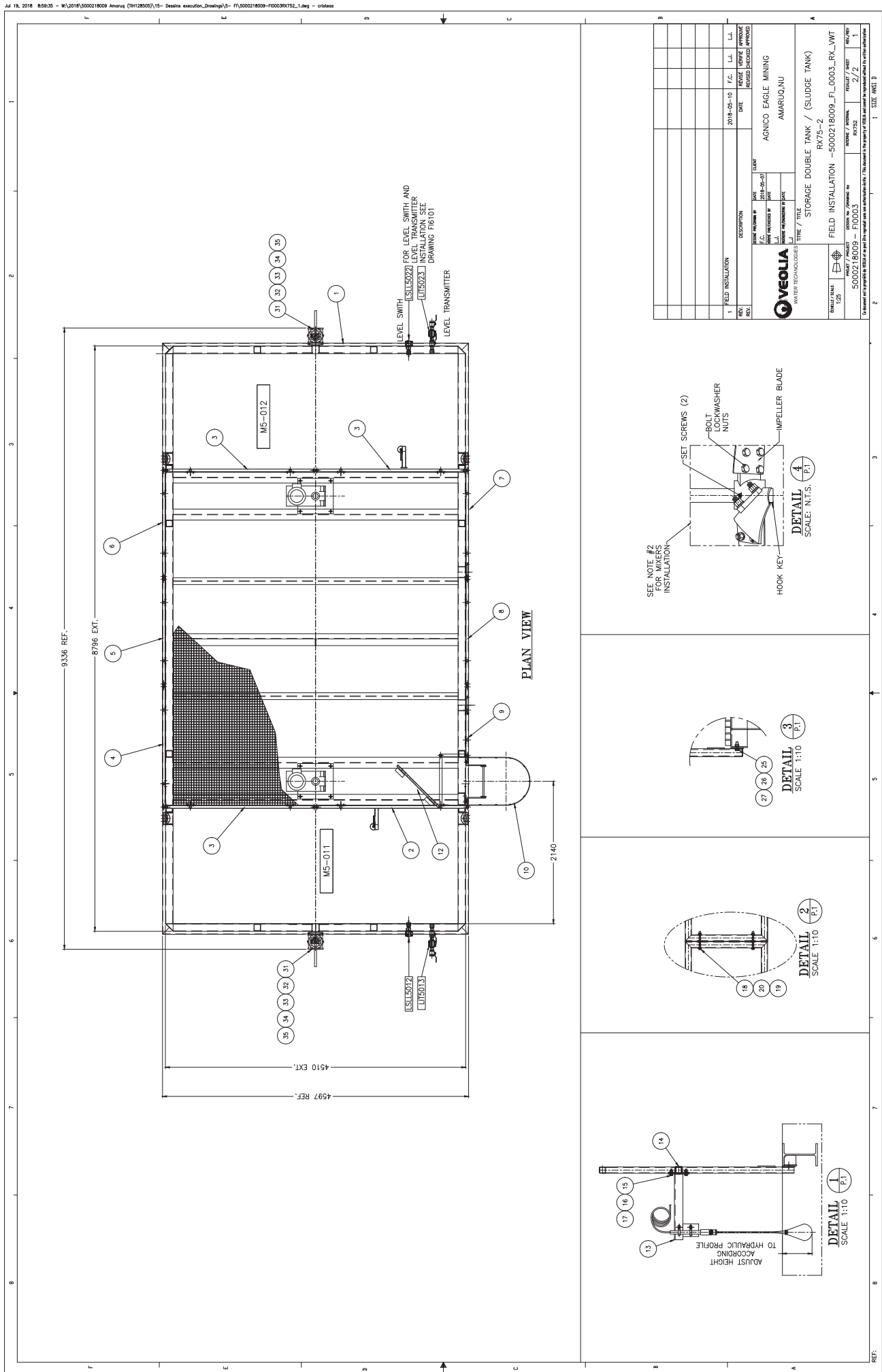
TITRE/ TITLE		Rev.		DESCRIPTION	DATE	Rev	Ver/dhk	Appr.	Affaire / Contract	AGNICO EAGLE MINING AMARUQ,NU	
POLISHING REACTOR (SKID 0501) RX75-2, FIELD INSTALLATION		1		FIELD INSTALLATION	5/10/2018	F.C.	L.J.	L.J.			
		2									
		3								REF. No.	5000218009 Rev.
		4									1
DESSIN /DWG #		F10003								Date:	5/3/2018
REV.	ITEM	QTE/ QTY.		DESCRIPTION	INV. /Plan Ref. Drawing	P&ID I.D./TAG				Commentaires / Comments	
		Unit.	Total								
	5000218009-F10003-1	1		1 Storage double tank RX75-2 (SKID 0501), ASSEMBLY	SA150	UNIT-0501					
	5000218009-F10003-2	1		1 HANDRAIL	FA153						
	5000218009-F10003-3	3		3 HANDRAIL	FA153						
	5000218009-F10003-4	1		1 HANDRAIL	FA153						
	5000218009-F10003-5	1		1 HANDRAIL	FA153						
	5000218009-F10003-6	1		1 HANDRAIL	FA153						
	5000218009-F10003-7	1		1 HANDRAIL	FA153						
	5000218009-F10003-8	1		1 HANDRAIL	FA153						
	5000218009-F10003-9	1		1 HANDRAIL	FA153						
	5000218009-F10003-10	1		1 PROTECTIVE CAGE	FA154						
	5000218009-F10003-11	1		1 LADDER	FA155						
	5000218009-F10003-12	1		1 SAFETY GATE c/w HARDWARE	TACMGU313168						
	5000216018-F10003-13	2		2 LEVEL SWITCH ENM-10	SA108	LSHH-5011/5021					
	5000216018-F10003-14	2		2 "U" SUPPORT FOR LEVEL SWITCH ENM-10	FA109						
	5000218009-F10003-15	4		4 HEX. HEAD SCREW Ø3/8"-16UNC x 1 1/4" (ASTM-F593C-304)	FXSCYS200375						
	5000218009-F10003-16	8		8 FLAT WASHER Ø3/8", SAE TYPE N (304)	FXWAYS200666						
	5000218009-F10003-17	4		4 HEX NUT Ø3/8"-16UNC (ASTM-F594C-304)	FXNUYS200206						
	5000218009-F10003-18	18		18 HEX. HEAD SCREW Ø3/8"-16UNC x 4" ASTM A307 GR.B (GALV)	FXSCYS311688						
	5000218009-F10003-19	36		36 FLAT WASHER Ø3/8" ASTM F436, SAE TYPE N (GALV)	FXWAYS311690						
	5000218009-F10003-20	18		18 HEX NUT Ø3/8"-16UNC ASTM A536 GRA (GALV)	FXNUYS311689						
	5000218009-F10003-21	2		2 Sludge REACTOR tank MIXER #1 and MIXER #2 "ENV/REQUIP" MODEL: MIX-TECH EVGX-6-5.0 TYPE: VERTICAL MOUNTED c/w OIL EXPANSION CHAMBER c/w STAINLESS STEEL 304L SHAFT AND IMPELLER c/w NUTS AND BOLTS 2 SHAFT: DIA.: 76,2 mm (3") LENGTH: 2430,8mm (96") IMPELLER: QTY: 1 DIAMETER "A": 2438,4 mm (96") BOTTOM CLEARANCE "X": 1219,2 mm (48") ROTATION DIRECTION: CW - DOWN c/w MOTOR 5 HP, 575 Vac/3 ph/60 Hz, 1765 RPM WEIGHT: 643 kg (1 415 lb)	ST-652-RX75 D N1	M5-011 & M5-012					
	5000218009-F10003-22	8		8 HEX. HEAD SCREW Ø7/8"-9UNC x 3 1/2" (ASTM-F593D-304)	FXSCYI200319						
	5000218009-F10003-23	16		16 FLAT WASHER Ø7/8", SAE TYPE N (304)	FXWAYI200658						
	5000218009-F10003-24	8		8 NYLON INSERT LOCK NUT Ø7/8"-9UNC (ASTM-F594D-304)	FXNUYI200194						



NOMENCLATURE/ BILL OF MATERIALS

TITRE/ TITLE		Rev.	DESCRIPTION	DATE	Rev	Ver/chk	Appr.	Affaire / Contract	AGNICO EAGLE MINING AMARUQ,NU	
POLISHING REACTOR (SKID 0501) RX75-2, FIELD INSTALLATION			1	FIELD INSTALLATION						
			2							
			3							
			4							
DESSIN /DWG #		FI0003								
REV.	ITEM	QTE/QTY.		DESCRIPTION	INV. /Plan Ref. Drawing	P&ID I.D./TAG		Commentaires / Comments		
		Unit.	Total							
	5000218009-FI0003-25	40	40	HEX. HEAD SCREW Ø1/2"-13UNC x 1 3/4" ASTM A307 GR.B (GALV)	FXSCYV311692					
	5000218009-FI0003-26	80	80	FLAT WASHER Ø1/2" ASTM F436, SAE TYPE N (GALV)	FXWAYV311696					
	5000218009-FI0003-27	40	40	HEX.NUT Ø1/2"-13UNC ASTM A536 GRA (GALV)	FXNUYV311695					
	5000218009-FI0003-28	6	6	HEX. HEAD SCREW Ø1/2"-13UNC x 2" (ASTM-F593C-304)	FXSCYV200429					
	5000218009-FI0003-29	12	12	FLAT WASHER Ø1/2", SAE TYPE N (304)	FXWAYV200670					
	5000218009-FI0003-30	6	6	NYLON INSERT LOCK NUT Ø1/2"-13UNC (ASTM-F594C-304)	FXNUYV200214					
	5000218009-FI0003-31	2	2	PLUG VALVE	ST-312-112		T5011V004 & T5012V004			
	5000218009-FI0003-32	2	2	GASKET FLANGE Ø4" FF. 1/8" TH (EPDM))	SEGAFP201223					
	5000218009-FI0003-33	16	16	HEX. HEAD SCREW Ø5/8"-11UNC x 3" (ASTM-F593C-304)	FXSCYY200497					
	5000218009-FI0003-34	32	32	FLAT WASHER Ø5/8", SAE TYPE N (304)	FXWAYY200674					
	5000218009-FI0003-35	16	16	HEX.NUT Ø5/8"-11UNC (ASTM-F594C-304)	FXNUYY200221					
	5000218009-FI0003-36	6	6	HEX. HEAD SCREW Ø3/8"-16UNC x 3"ASTM A307 GR.B (GALV)	FXSCYS312592					
	5000218009-FI0003-37	12	12	FLAT WASHER Ø3/8" ASTM F436, SAE TYPE N (GALV)	FXWAYS311690					
	5000218009-FI0003-38	6	6	HEX.NUT Ø3/8"-16UNC ASTM A536 GRA (GALV)	FXNUYS311689					
				ITEMS NOT SHOWN ON DRAWING						
	5000218009-FI0003-100	1 GAL	1 GAL	PAINT, ENVIROLASTIC 940, JMI BLUE, 1 GAL C/W HARDENER, EPOXY TOUCH UP, EXT	TOTOGU308811				SUPPLIED BY PAINTING WORKSHOP	
	5000218009-FI0003-101	1 GAL	1 GAL	One (1) coat of DURA -PLATE UHS from SHERWIN WILLIAMS, 18 to 28 mils per coat dry, NSF white	TOTOGU309750				SUPPLIED BY PAINTING WORKSHOP	
Fin de la liste / End of list										





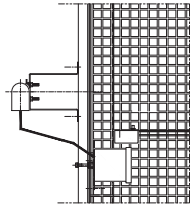


Fin de la liste / End of list

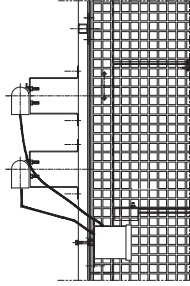
LEFT BLANK

NOTES:

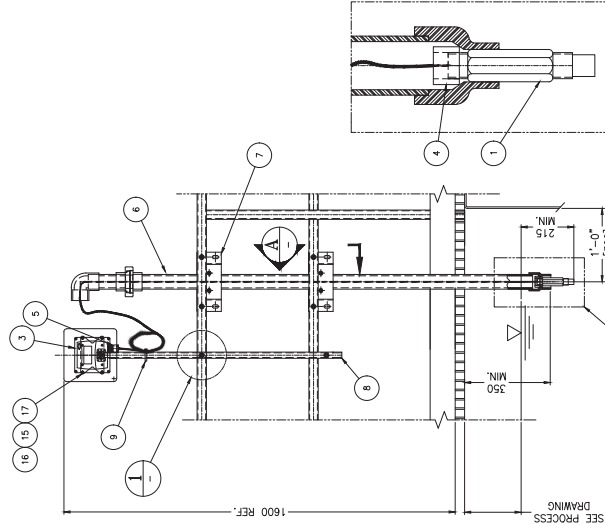
- 1- FOR PARTS LIST SEE BILL OF MATERIAL: 5000218009-F16100.
- 2- FOR INSTALLATION POSITION SEE: 5000218009-F10001.
- 3- FOR INSTALLATION DETAILS SEE ALSO MANUFACTURER'S INSTRUCTIONS INCLUDED IN O&M MANUAL.



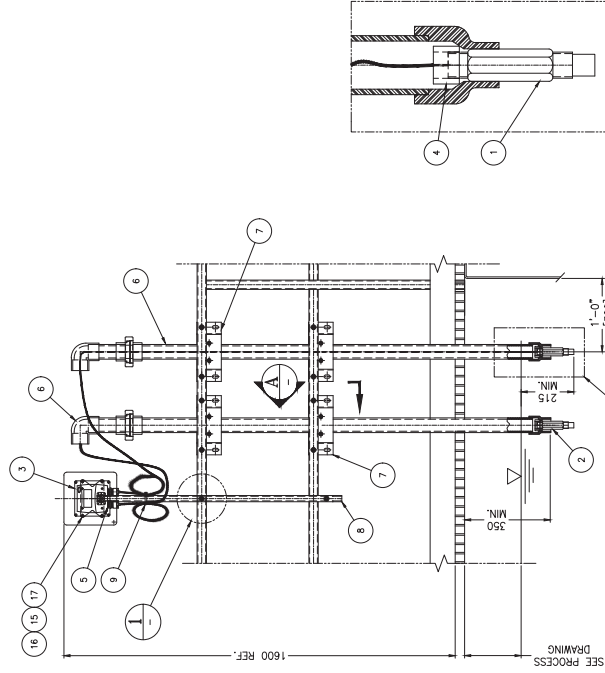
PLAN VIEW



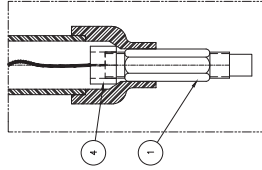
PLAN VIEW



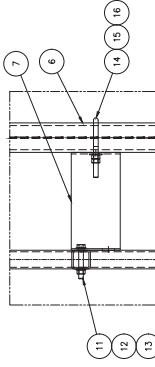
ELEVATION



ELEVATION



DETAIL
SCALE: 1:5



SECTION
SCALE: 1:5

REV.	DESCRIPTION	DATE	F.C.	N/A	L.L.
1	FOR INSTALLATION	2018-05-03			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

VEOLIA WATER TECHNOLOGIES	DATE 2018-05-03	CLIENT AGNICO EAGLE MINING AMARUGO, NU
PROJECT NO. 5000218009 - F16100	PROJECT NAME pH PROBE MODEL "DPD1R1", OXYDATION PROBE AND TRANSMITTER SC200, FIELD INSTALLATION ON HANDRAILS (RX75-3)	PROJECT LOCATION AGNICO EAGLE MINING AMARUGO, NU
SCALE 1:10	DATE 2018-05-03	PROJECT NO. 5000218009 - F16100
PROJECT NO. 5000218009 - F16100	PROJECT NAME pH PROBE MODEL "DPD1R1", OXYDATION PROBE AND TRANSMITTER SC200, FIELD INSTALLATION ON HANDRAILS (RX75-3)	PROJECT LOCATION AGNICO EAGLE MINING AMARUGO, NU
PROJECT NO. 5000218009 - F16100	PROJECT NAME pH PROBE MODEL "DPD1R1", OXYDATION PROBE AND TRANSMITTER SC200, FIELD INSTALLATION ON HANDRAILS (RX75-3)	PROJECT LOCATION AGNICO EAGLE MINING AMARUGO, NU

LEFT BLANK



Fin de la liste / End of list

LEFT BLANK

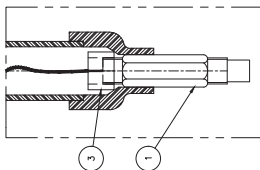
LEFT BLANK

NOMENCLATURE/ BILL OF MATERIALS

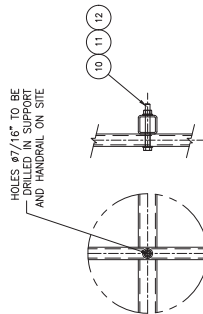
[illegible]

LEFT BLANK

1- FOR PARTS LIST SEE BILL OF MATERIAL: 5000218009-F16102.
2- FOR INSTALLATION POSITION SEE: 5000218009-F10002.
3- FOR INSTALLATION DETAILS SEE ALSO MANUFACTURER'S INSTRUCTION INCLUDED IN O&M MANUAL.



PROTECTIVE CAP ON PROBE SHALL
BE MAINTAINED UNTIL STARTUP



DETAIL
SCALE: 1:5

33

LEFT BLANK



OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

3 – DRAWINGS

3.6 – GENERAL ARRANGEMENT LAYOUT

TO BE PROVIDED BY AGNICO EAGLE MINES

LEFT BLANK



OPERATION AND MAINTENANCE MANUAL

AMARUQ WTP – NUNAVUT

VEOLIA PROJECT: 5000 218 009

4 – DETAILED TECHNICAL DOCUMENTATION

4.1 – EQUIPMENT LISTS

4.1.1 – VALVE LIST

LEFT BLANK



OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

4 – DETAILED TECHNICAL DOCUMENTATION

4.1 – EQUIPMENT LISTS

4.1.2 – INSTRUMENTATION LIST

LEFT BLANK

[illegible]

LEFT BLANK



OPERATION AND MAINTENANCE MANUAL
AMARUQ WTP – NUNAVUT
VEOLIA PROJECT: 5000 218 009

4 – DETAILED TECHNICAL DOCUMENTATION

4.1 – EQUIPMENT LISTS

4.1.3 – DETAILED LIST

LEFT BLANK

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
AE1-011	INSTRUMENT	OXYDATION REDUCTION POTENTIAL	IEPOH200708	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	DD1JHS
AE1-012	INSTRUMENT	PH METER PROBE - ACP	ST-403-303	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	DPD1R1
AE1-014	INSTRUMENT	TURBIDIMETER PROBE	ST-403-303	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	DPD1R1
AE2-011	INSTRUMENT	PH METER PROBE - ACP	ST-403-303	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	HACH	HACH	DPD1R1
AE2-012	INSTRUMENT	TURBIDIMETER PROBE - ACP	IEPTB200853	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	HACH	HACH	LVW423.99.10100
AE2-021	INSTRUMENT	PH METER PROBE - ACP	ST-403-303	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	HACH	HACH	DPD1R1
AE2-022	INSTRUMENT	TURBIDIMETER PROBE - ACP	IEPTB200853	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	HACH	HACH	LVW423.99.10100
AE2-011	INSTRUMENT	TURBIDIMETER PROBE	ST-400-14021	SLUDGE TANK	PI001 SHEET 04	HACH	HACH	LVW424.99.00100/LZ6661/5738400/LXW404.99.00552/9328100
AIT1-011	INSTRUMENT	OXYDATION REDUCTION POTENTIAL	ST-403-306	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	SC200/LXW404.99.00552 + HART PROTOCOL MODULE 9328100 + 3 RD OUTPUT 9334600
AIT1-012	INSTRUMENT	OXYDATION REDUCTION POTENTIAL	INCLUDED WITH AIT1-011	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	
AIT1-014	INSTRUMENT	PH TRANSMITTER	ST-403-306	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH	HACH	SC200/LXW404.99.00552 + HART PROTOCOL MODULE 9328100 + 3 RD OUTPUT 9334600
AIT2-011	INSTRUMENT	PH TRANSMITTER	INCLUDED WITH AIT2-012	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	HACH	HACH	
AIT2-012	INSTRUMENT	TSS TRANSMITTER	IECNGU340502	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	HACH	HACH	SC200/LXW404.99.00552 + HART PROTOCOL MODULE 9328100 + 3 RD OUTPUT 9334600
AIT2-021	INSTRUMENT	PH TRANSMITTER	INCLUDED WITH AIT2-022	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	HACH	HACH	
AIT2-022	INSTRUMENT	TSS TRANSMITTER	IECNGU340502	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	HACH	HACH	SC200/LXW404.99.00552 + HART PROTOCOL MODULE 9328100
AIT4-011	INSTRUMENT	TSS TRANSMITTER	INCLUDE WITH AE4-011	SLUDGE TANK	PI001 SHEET 04	HACH	HACH	SC200/LXW404.99.00552 + HART PROTOCOL MODULE 9328100
BPV9-511	VALVE	BACKPRESSURE VALVE	VAPSPV329498	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	CHEMLINE	CHEMLINE	SB12A005EU
BPV9-514	VALVE	BACKPRESSURE VALVE	VAPFPV348512	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	SB12A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. L_U)
BPV9-524	VALVE	BACKPRESSURE VALVE	VAPFPV348513	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	SB12A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. R_U)
BPV9-525	VALVE	BACKPRESSURE VALVE	VAPFPV348513	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	SB12A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. R_U)
BPV9-526	VALVE	BACKPRESSURE VALVE	VAPFPV348513	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	SB12A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. R_U)
BPV9-532	VALVE	BACKPRESSURE VALVE	VAPSPV351047	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	SB12K005VCF+ + SGA-005-002-P-G + P025-160-BM (CONFIG. L_U)
BPV9-541	VALVE	BACKPRESSURE VALVE	VAPSPV329498	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	CHEMLINE	CHEMLINE	SB12A005EU
BPV9-591	VALVE	BACKPRESSURE VALVE	VAPFPV348512	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	SB12A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. L_U)
BPV9-592	VALVE	BACKPRESSURE VALVE	VAPSPV329498	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	CHEMLINE	CHEMLINE	SB12A005EU
C1	CONTAINER	CONTAINER	N/A	CONTAINER	PI001 SHEET 17	VWTC		
C1 (1)	CONTAINER	CONTAINER	N/A	CONTAINER	PI001 SHEET 16	VWTC		
C2-011	HYDROCYCLONE	HYDROCYCLONE	ST-904-001	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	FLSMIDTH	KREBS ENGINEERS	U10-GMAX-9.5SCIN
C2-012	HYDROCYCLONE	HYDROCYCLONE	ST-904-001	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	FLSMIDTH	KREBS ENGINEERS	U10-GMAX-9.5SCIN
C2-021	HYDROCYCLONE	HYDROCYCLONE	ST-904-001	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	FLSMIDTH	KREBS ENGINEERS	U10-GMAX-9.5SCIN
C2-022	HYDROCYCLONE	HYDROCYCLONE	ST-904-001	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	FLSMIDTH	KREBS ENGINEERS	U10-GMAX-9.5SCIN
CLV9-521	MISC	Calibration Cylinder	PUSPPV200284	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	PRIMARY FLUID	PRIMARY FLUID	PV#2 10000
CLV9-531	MISC	Calibration Cylinder	TOLBGU16608	SULFURIC ACID DOSING SKID	PI001 SHEET 12	PRIMARY FLUID	PRIMARY FLUID	ACS#2-250-GWVF
CV15-011	VALVE	CHECK VALVE - CARRIER WATER	VANRPV302912	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	BTAD10EC
CV15-021	VALVE	CHECK VALVE - CARRIER WATER	VANRPV302912	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	BTAD10EC
CV9-591	VALVE	CHECK VALVE - LIQUID POLYMER	VANRPV200667	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMLINE	CHEMLINE	BTAD15EC
CV9-621	VALVE	CHECK VALVE - LIQUID POLYMER	VABLPV303191	HYDRAPOL 3500	PI001 SHEET 18	CHEMLINE	CHEMLINE	BTAD20EC
CV9-514	MISC	CALIBRATION CYLINDER	PUSPPV200288	COAGULANT DOSING SKID	PI001 SHEET 10	PRIMARY FLUID	PRIMARY FLUID	PV#2 4000
CV9-591	MISC	CALIBRATION CYLINDER	PUSPPV200288	KMnO4 DOSING SKID	PI001 SHEET 17	PRIMARY FLUID	PRIMARY FLUID	PV#2 4000
CV9-591-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A010EC,TYPE21
CV9-591-V002	VALVE	CLEANING VALVE	VABLPV200249	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A005EC,TYPE21
CV9-621	MISC	CALIBRATION CYLINDER	PUSPPV200284	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	PRIMARY FLUID	PRIMARY FLUID	PV#2 10000
FCV4-011	VALVE	PINCH VALVE	ST-313-501	SLUDGE TANK	PI001 SHEET 04	DM VALVE	FLOWROX	PVEJAK150-601L-SBRT
F115-011	INSTRUMENT	VARIABLE AREA FLOWMETER	IMFWG301907	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	FS402500
F115-021	INSTRUMENT	VARIABLE AREA FLOWMETER	IMFWG301907	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	FS402500
F1T1-011	INSTRUMENT	FLOWMETER	ST-404-566	RAW WATER	PI001 SHEET 01	E&H	ENDRESS & HAUSER	50W6H-UIGAI RC2BAAW+1
F1T4-011	INSTRUMENT	FLOWMETER	ST-404-564	SLUDGE TANK	PI001 SHEET 04	E&H	ENDRESS & HAUSER	50W8D-UIGAI RC2BAAW+1
F1T5-011	INSTRUMENT	FLOWMETER	ST-404-565	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	50W50-UIGAI RC2BAAW+1
F1T5-012	INSTRUMENT	FLOWMETER	ST-404-565	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	50W50-UIGAI RC2BAAW+1
FMW9-591	FEEDER	DRY POLYMER AGITATOR	INCLUDED WITH FSW9-591	KMnO4 PREP SYSTEM	PI001 SHEET 16	WAM		

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
FM9-621	FEEDER	DRY POLYMER AGITATOR	INCLUDED WITH F5M9-621	HYDRAPOL 3500	PI001 SHEET 18	WAM		
FSW9-591	FEEDER	FEEDER SREW	ST-999-001	KMn04 PREP SYSTEM	PI001 SHEET 16	WAM		
FSW9-621	FEEDER	DREY FEEDER	CMSPGU320682	HYDRAPOL 3500	PI001 SHEET 18	WAM		MRF 073 I20 4-5-D-E // 575V // NEMA BALDOR MOTORS
FSW9-621-0001	MISC	CONE BIG BAG	CMSPGU320684	HYDRAPOL 3500	PI001 SHEET 18	WAM		SB8/Cone MS
FSW9-621-V001	VALVE	SLIDE GATE VALVE	CMSPGU320683	HYDRAPOL 3500	PI001 SHEET 18	WAM		VL00250P3/CMG0250
J9-591	EDUCTOR	EDUCTOR	EJGUE200371	KMn04 PREP SYSTEM	PI001 SHEET 16	SHUTTE&KOERTING		1.5"- Fig264 PVC Eductor
J9-621	EDUCTOR	EDUCTOR	EJGUE200372	HYDRAPOL 3500	PI001 SHEET 18	SHUTTE&KOERTING		2"- Fig264 PVC Eductor
INP-541	MISC	INJECTION QUILL	XXX	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	PRIMARY FLUID		
INP-591	MISC	INJECTION QUILL	XXX	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	PRIMARY FLUID		
J9-514	MISC	JUNCTION BOX	N/A	COAGULANT DOSING SKID	PI001 SHEET 10	VWTC AUTOMATION		
J9-524	MISC	JUNCTION BOX	N/A	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	VWTC AUTOMATION		
J9-621	MISC	CONTROL PANEL	N/A	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	VWTC AUTOMATION		
LES-013	INSTRUMENT	LEVEL SENSOR	INCLUDED WITH LUT5-013	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H		
LES-023	INSTRUMENT	LEVEL SENSOR	INCLUDED WITH LUT5-023	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H		
LUT5-013	INSTRUMENT	LEVEL TRANSMITTER	ST-402-609	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	PMCT1-UBCF32DAAG-Z1
LUT5-013-V001	VALVE	ISOLATION VALVE	VABLSS200270	RX75-2 SLUDGE TANK	PI001 SHEET 05	CFE		SS2-40 (11/2)
LUT5-013-V002	VALVE	DRAIN VALVE	VABLSS204730	RX75-2 SLUDGE TANK	PI001 SHEET 05	PINACLE		316VTR205
LUT5-023	INSTRUMENT	LEVEL TRANSMITTER	ST-402-609	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	PMCT1-UBCF32DAAG-Z1
LUT5-023-V001	VALVE	ISOLATION VALVE	VABLSS200270	RX75-2 SLUDGE TANK	PI001 SHEET 05	CFE		SS2-40 (11/2)
LUT5-023-V002	VALVE	DRAIN VALVE	VABLSS204730	RX75-2 SLUDGE TANK	PI001 SHEET 05	PINACLE		316VTR205
LSHH1-011	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	FLVGT		ENM-10 (6m)
LSHH4-011	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	SLUDGE TANK	PI001 SHEET 04	FLVGT		ENM-10 (6m)
LSHH5-011	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	RX75-2 SLUDGE TANK	PI001 SHEET 05	FLVGT		ENM-10 (6m)
LSHH5-021	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	RX75-2 SLUDGE TANK	PI001 SHEET 05	FLVGT		ENM-10 (6m)
LSHH6-011	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	CENTRIFUGE	PI001 SHEET 06	FLVGT		ENM-10 (6m)
LSHH6-021	INSTRUMENT	HIGH HIGH LEVEL SWITCH	IESWLE201155	CENTRIFUGE	PI001 SHEET 06	FLVGT		ENM-10 (6m)
LSH9-591	INSTRUMENT	HOPPER LOW LEVEL SWITCH	IESWLE504819	KMn04 PREP SYSTEM	PI001 SHEET 16	E&H	ENDRESS & HAUSER	FTF31-C6D811-A
LSB9-621	INSTRUMENT	HOPPER LOW LEVEL SWITCH	IESWLE504819	HYDRAPOL 3500	PI001 SHEET 18	E&H	ENDRESS & HAUSER	FTF31-C6D811-A
LSL14-012	INSTRUMENT	LOW LOW LEVEL SWITCH	ST-451-507	SLUDGE TANK	PI001 SHEET 04	E&H	ENDRESS & HAUSER	FTL51-UGN2CB4E5A
LSL15-012	INSTRUMENT	LOW LEVEL SWITCH	ST-451-507	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	FTL51-UGN2CB4E5A
LSL15-022	INSTRUMENT	LOW LEVEL SWITCH	ST-451-507	RX75-2 SLUDGE TANK	PI001 SHEET 05	E&H	ENDRESS & HAUSER	FTL51-UGN2CB4E5A
LSL16-011	INSTRUMENT	HOPPER LOW LEVEL SWITCH	IESWLE201155	CENTRIFUGE	PI001 SHEET 06	FLVGT		ENM-10 (6m)
LSL16-021	INSTRUMENT	HOPPER LOW LEVEL SWITCH	IESWLE201155	CENTRIFUGE	PI001 SHEET 06	FLVGT		ENM-10 (6m)
LTS-591	INSTRUMENT	TANK LEVEL TRANSMITTER	IPOPS340482	KMn04 PREP SYSTEM	PI001 SHEET 16	E&H	ENDRESS & HAUSER	PMCT1-UCC1E3RABAA
LTS-592	INSTRUMENT	TANK LEVEL TRANSMITTER	IPOPS340482	KMn04 PREP SYSTEM	PI001 SHEET 16	E&H	ENDRESS & HAUSER	PMCT1-UCC1E3RABAA
M1-011	MIXER	MIXER EVGX6-5,575V,SS304,NORD,CCW	ST-632-RX75UN1	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	ENVIREQUIP		
M1-012	MIXER	MIXER EVGX6-5,575V,SS304,NORD,CW	ST-632-RX75DN1	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	ENVIREQUIP		
M1-013	MIXER	MIXER EVGX6-5,575V,SS304,NORD,CCW	ST-632-RX75UN1	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	ENVIREQUIP		
M5-011	MIXER	MIXER EVGX6-5,575V,SS304,NORD,CW	ST-632-RX75DN1	RX75-2 SLUDGE TANK	PI001 SHEET 05	ENVIREQUIP		
M5-012	MIXER	MIXER EVGX6-5,575V,SS304,NORD,CW	ST-632-RX75DN1	RX75-2 SLUDGE TANK	PI001 SHEET 05	ENVIREQUIP		
M9-591	MIXER	MATURATION MIXER	CMSPM1319898	KMn04 PREP SYSTEM	PI001 SHEET 16	ENVIREQUIP	ENVIREQUIP	HP500 (2016) // EVG01-0.5 // 304/575
M9-621	MIXER	MATURATION MIXER	CMSPM1319908	HYDRAPOL 3500	PI001 SHEET 18	ENVIREQUIP	ENVIREQUIP	HP3500 (2016) // EVGI-0.75 // 304/575
P2-011	PUMP	RECIRCULATION PUMP	ST-607-0808011x1	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	MCLANAHAN		SERIE IIR 80x80
P2-011-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	PRATT		60IN1-L/4"
P2-012	PUMP	RECIRCULATION PUMP	ST-607-0808011x1	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	MCLANAHAN		SERIE IIR 80x80
P2-012-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	PRATT		60IN1-L/4"
P2-014	PUMP	RECIRCULATION PUMP MULTIFLO	ST-607-107	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	MCLANAHAN		
P2-014-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	PRATT		60IN1-L/4"
P2-021	PUMP	RECIRCULATION PUMP	ST-607-0808011x1	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	MCLANAHAN		SERIE IIR 80x80
P2-021-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	PRATT		60IN1-L/4"

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
P2-022	PUMP	RECIRCULATION PUMP	ST-607-08080811xx1	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	MCLEANHAN	MCLEANHAN	SERIE IIR 80x80
P2-022-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	PRATT	PRATT	60IN1-1/4"
P2-023	PUMP	RECIRCULATION PUMP MULTIFLO	ST-607-107	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	MCLEANHAN	MCLEANHAN	
P2-023-V001	VALVE	ISOLATION VALVE	ST-312-112	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	PRATT	PRATT	60IN1-1/4"
P5-011	PUMP	CENTRIFUGE FEEDING PUMP	ST-999-008	RX75-2 SLUDGE TANK	PI001 SHEET 05	SEEPX	SEEPX	
P5-012	PUMP	CENTRIFUGE FEEDING PUMP	ST-999-008	RX75-2 SLUDGE TANK	PI001 SHEET 05	SEEPX	SEEPX	
P6-011	PUMP	CENTRATE SUMP PUMP	ST-999-011	CENTRIFUGE	PI001 SHEET 06	Sulzer	Sulzer	
P6-021	PUMP	CENTRATE SUMP PUMP	ST-999-011	CENTRIFUGE	PI001 SHEET 06	Sulzer	Sulzer	
P9-513	PUMP	COAGULANT METERING PUMP	ST-999-004	COAGULANT DOSING SKID	PI001 SHEET 10	PULSAFEEDER		
P9-513-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-513-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-513-V003	VALVE	CLEANING VALVE	VABLPV200249	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-513-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-513-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-514	PUMP	COAGULANT METERING PUMP	ST-999-004	COAGULANT DOSING SKID	PI001 SHEET 10	PULSAFEEDER		
P9-514-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-514-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-514-V003	VALVE	CLEANING VALVE	VABLPV200249	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-514-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-514-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-514-V006	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200249	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-514-V007	VALVE	CLEANING VALVES	VABLPV200249	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-524	PUMP	ANIONIC POLYMER METERING PUMP	ST-999-007	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
P9-524-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0155C,TYPE21
P9-524-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-524-V003	VALVE	CLEANING VALVE	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-524-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-524-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-525	PUMP	ANIONIC POLYMER METERING PUMP	ST-999-007	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
P9-525-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0155C,TYPE21
P9-525-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-525-V003	VALVE	CLEANING VALVE	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-525-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-525-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-526	PUMP	ANIONIC POLYMER METERING PUMP	ST-999-007	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
P9-526-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0155C,TYPE21
P9-526-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-526-V003	VALVE	CLEANING VALVE	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-526-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0105C,TYPE21
P9-526-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200249	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMLINE	CHEMLINE	21A0056C,TYPE21
P9-531	PUMP	SULFURIC ACID METERING PUMP	ST-999-002	SULFURIC ACID DOSING SKID	PI001 SHEET 12	GRUNDFOS		
P9-531-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-531-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-531-V003	VALVE	ISOLATION VANNE (DISCHARGE)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-531-V004	VALVE	ISOLATION VANNE (DISCHARGE)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-531-V005	VALVE	CLEANING VALVE	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-532	PUMP	SULFURIC ACID METERING PUMP	ST-999-002	SULFURIC ACID DOSING SKID	PI001 SHEET 12	GRUNDFOS		
P9-532-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-532-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-532-V003	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-532-V004	VALVE	ISOLATION VALVE (SUCTION)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1
P9-532-V005	VALVE	ISOLATION VANNE (DISCHARGE)	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+12x121005-4K8N-1

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
P9-532-V004	VALVE	ISOLATION VANNE (DISCHARGE)	VABLP2027828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+(2x)21005-4K8N-1
P9-532-V005	VALVE	CLEANING VALVE	VABLP2027828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+(2x)21005-4K8N-1
P9-591	PUMP	KMnO4 METERING PUMP	ST-999-003	KMnO4 DOSING SKID	PI001 SHEET 17	PULSAFEEDER		
P9-591-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-591-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-591-V003	VALVE	CLEANING VALVE	VABLPV200249	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-591-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-591-V005	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A007EC,TYPE21
P9-591-V006	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-592	PUMP	KMnO4 METERING PUMP	ST-999-003	KMnO4 DOSING SKID	PI001 SHEET 17	PULSAFEEDER		
P9-592-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-592-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-592-V003	VALVE	CLEANING VALVE	VABLPV200249	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-592-V004	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-621	PUMP	CAVITY PROGRESSIVE PUMP	ST-999-006	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEPEX	SEPEX	
P9-621-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A015EC,TYPE21
P9-621-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-621-V003	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-621-V004	VALVE	CLEANING VALVE	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-621-V005	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEPEX	SEPEX	
P9-622	PUMP	CAVITY PROGRESSIVE PUMP	ST-999-006	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEPEX	SEPEX	
P9-622-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A015EC,TYPE21
P9-622-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-622-V003	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-622-V004	VALVE	CLEANING VALVE	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-622-V005	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEPEX	SEPEX	
P9-623	PUMP	CAVITY PROGRESSIVE PUMP	ST-999-006	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEPEX	SEPEX	
P9-623-V001	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A015EC,TYPE21
P9-623-V002	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-623-V003	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-623-V004	VALVE	CLEANING VALVE	VABLPV200251	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-623-V005	VALVE	CLEANING VALVE	VABLPV200249	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-514	MISC	PULSATION DAMPENER	PUSPPV200278	COAGULANT DOSING SKID	PI001 SHEET 10	PRIMARY FLUID	ACCU-PULSE	APH-PVC-N-2
P9-514-V001	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A00DEC,TYPE21
P9-514-V002	VALVE	CLEANING VALVES	VABLPV200249	COAGULANT DOSING SKID	PI001 SHEET 10	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P9-531	MISC	PULSATION DAMPENER	PUSPP200270	SULFURIC ACID DOSING SKID	PI001 SHEET 12	PRIMARY FLUID	ACCU-PULSE	API-PDVF-V-1-F
P9-531-V001	VALVE	ISOLATION VALVE	VABLP2027828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+(2x)21005-4K8N-1
P9-531-V002	VALVE	CLEANING VALVE	VABLP2027828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMLINE	CHEMLINE	21K005VCF+(2x)21005-4K8N-1
P9-591	MISC	PULSTAOON DAMPENER	PUSPPV304128	KMnO4 DOSING SKID	PI001 SHEET 17	PRIMARY FLUID	ACCU-PULSE	APH-PVC-E-2
P9-591-V001	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200250	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A007EC,TYPE21
P9-591-V002	VALVE	CLEANING VALVE	VABLPV200249	KMnO4 DOSING SKID	PI001 SHEET 17	CHEMLINE	CHEMLINE	21A005EC,TYPE21
P115-041	INSTRUMENT	SERVICE WATER PRESSURE GAUGE	IMPSGG300380	KMnO4 PREP SYSTEM	PI001 SHEET 16	TECKNO VALVE	ASHCROFT	25-10095WL-02L-160PSIG
P118-031	INSTRUMENT	SERVICE WATER PRESSURE GAUGE	IMPSGG300380	HYDRAPOL 3500	PI001 SHEET 16	TECKNO VALVE	ASHCROFT	25-10095WL-02L-160PSIG
P12-011	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-413-359	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	TECKNO VALVE	ASHCROFT	45-10095L-04L-60H-XAL C/W SEAL 50-10155-04T-XCG
P12-011-V001	VALVE	ISOLATION VALVE	VABLS202067	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	OFF	SSF	SSF-15 (1/2)
P12-011-V002	VALVE	ISOLATION VALVE	VABLS202067	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	OFF	SSF	SSF-15 (1/2)
P12-012	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-413-359	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	TECKNO VALVE	ASHCROFT	45-10095L-04L-60H-XAL C/W SEAL 50-10155-04T-XCG
P12-012-V001	VALVE	ISOLATION VALVE	VABLS202067	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	OFF	SSF	SSF-15 (1/2)
P12-012-V002	VALVE	ISOLATION VALVE	VABLS202067	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	OFF	SSF	SSF-15 (1/2)
P12-021	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-413-359	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	TECKNO VALVE	ASHCROFT	45-10095L-04L-60H-XAL C/W SEAL 50-10155-04T-XCG

EQUIPMENT LIST

EQPM# TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
P12-021-V001	VALVE	ISOLATION VALVE	VABLS2020267	ACTIFLO RECIRCULATION LINE MODIFICATION	P1001 SHEET 03	CFF	CFF	SS2-15 (1/2)
P12-021-V002	VALVE	ISOLATION VALVE	VABLS2020267	ACTIFLO RECIRCULATION LINE MODIFICATION	P1001 SHEET 03	CFF	CFF	SS2-15 (1/2)
P12-022	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-413-359	ACTIFLO RECIRCULATION LINE MODIFICATION	P1001 SHEET 03	TECKNO VALVE	ASHCROFT	45-1009S1-04L-60H-XAL C/W SEAL 50-1015S-04T-XCG
P12-022-V001	VALVE	ISOLATION VALVE	VABLS2020267	ACTIFLO RECIRCULATION LINE MODIFICATION	P1001 SHEET 03	CFF	CFF	SS2-15 (1/2)
P12-022-V002	VALVE	ISOLATION VALVE	VABLS2020267	ACTIFLO RECIRCULATION LINE MODIFICATION	P1001 SHEET 03	CFF	CFF	SS2-15 (1/2)
P14-011	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-413-359	SLUDGE TANK	P1001 SHEET 04	TECKNO VALVE	ASHCROFT	45-1009S1-04L-60H-XAL C/W SEAL 50-1015S-04T-XCG
P14-011-V001	VALVE	ISOLATION VALVE	VABLS2020267	SLUDGE TANK	P1001 SHEET 04	CFF	CFF	SS2-15 (1/2)
P14-011-V002	VALVE	ISOLATION VALVE	VABLS2020267	SLUDGE TANK	P1001 SHEET 04	CFF	CFF	SS2-15 (1/2)
P15-011	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-434-501	RX75-2 SLUDGE TANK	P1001 SHEET 05	ONXY VALVE	ONXY VALVE	Size 4" Series PSW
P15-012	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	ST-434-501	RX75-2 SLUDGE TANK	P1001 SHEET 05	ONXY VALVE	ONXY VALVE	Size 4" Series PSW
P19-514	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-514	COAGULANT DOSING SKID	P1001 SHEET 10	CHEMLINE		
P19-524	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-524	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE		
P19-525	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-525	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE		
P19-526	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-526	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE		
P19-531	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-532	SULFURIC ACID DOSING SKID	P1001 SHEET 12	CHEMLINE		
P19-532	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH PD9-531	SULFURIC ACID DOSING SKID	P1001 SHEET 12	PRIMARY FLUID		
P19-591	INSTRUMENT	BACKPRESSURE VALVE GAUGE	INCLUDED WITH BPV9-591	KMI04 DOSING SKID	P1001 SHEET 17	CHEMLINE		
P19-621	INSTRUMENT	PRESSURE GAUGE	INCLUDED WITH PRV9-621	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE		
P19-622	INSTRUMENT	PRESSURE GAUGE	INCLUDED WITH PRV9-622	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE		
P19-623	INSTRUMENT	PRESSURE GAUGE	INCLUDED WITH PRV9-623	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE		
P19-513	VALVE	RELIEF VALVE	VARFPV207282	COAGULANT DOSING SKID	P1001 SHEET 10	CHEMLINE	CHEMUNE	S812A010EU
P19-514	VALVE	RELIEF VALVE	VARFPV207282	COAGULANT DOSING SKID	P1001 SHEET 10	CHEMLINE	CHEMUNE	S812A010EU
P19-524	VALVE	RELIEF VALVE	VARFPV207282	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE	CHEMUNE	S812A010EU
P19-525	VALVE	RELIEF VALVE	VARFPV207282	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE	CHEMUNE	S812A010EU
P19-526	VALVE	RELIEF VALVE	VARFPV207282	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	CHEMLINE	CHEMUNE	S812A010EU
P19-532	VALVE	RELIEF VALVE	VARFPD200193	SULFURIC ACID DOSING SKID	P1001 SHEET 12	CHEMLINE	CHEMUNE	S812A005VCF+(2x)S8005-17K8N-1
P19-531	VALVE	RELIEF VALVE	VARFPD200193	SULFURIC ACID DOSING SKID	P1001 SHEET 12	CHEMLINE	CHEMUNE	S812A005VCF+(2x)S8005-17K8N-1
P19-591	VALVE	RELIEF VALVE	VARFPV207282	KMI04 DOSING SKID	P1001 SHEET 17	CHEMLINE	CHEMUNE	S812A010EU
P19-592	VALVE	RELIEF VALVE	VARFPV207282	KMI04 DOSING SKID	P1001 SHEET 17	CHEMLINE	CHEMUNE	S812A010EU
P19-621	VALVE	RELIEF VALVE	VARFPV348512	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMUNE	S812A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. L, U)
P19-622	VALVE	RELIEF VALVE	VARFPV348512	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMUNE	S812A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. L, U)
P19-623	VALVE	RELIEF VALVE	VARFPV348512	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMUNE	S812A010EU + SGA-005-002-P-G + P025-160-BM (CONFIG. L, U)
PSL15-041	INSTRUMENT	SERVICE WATER PRESSURE SWITCH	IEPOPS201955	KMI04 PREP SYSTEM	P1001 SHEET 16	LUMEN	ALLEN BRADLEY	836T-T253J
PSL18-031	INSTRUMENT	SERVICE WATER PRESSURE SWITCH	IEPOPS201955	HYDRAPOL 3500	P1001 SHEET 18	LUMEN	ALLEN BRADLEY	836T-T253J
PSL5-011	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	INCLUDED WITH P15-011	RX75-2 SLUDGE TANK	P1001 SHEET 05	TECKNO VALVE		
PSL5-012	INSTRUMENT	DIAPHRAGM PRESSURE GAUGE	INCLUDED WITH P15-012	RX75-2 SLUDGE TANK	P1001 SHEET 05	TECKNO VALVE		
SM9-591	MIXER	STATIC MIXER	FMMPV202516	KMI04 PREP SYSTEM	P1001 SHEET 16	KOFLO	KOFLO	1.5-40C-4-6-2
SM9-621	MIXER	STATIC MIXER	IEGUSP300707	HYDRAPOL 3500	P1001 SHEET 18	KOFLO	KOFLO	2-40C-4-6-2
SP9-531	MISC	SECONDARY CONTAINMENT	XXX	SULFURIC ACID DOSING SKID	P1001 SHEET 12	ACO		
SV15-011	ON/OFF VALVE - CARRIER WATER	VASDS351509	VASDS351509	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	TECKNO VALVE	ASCO	8210G089-120VAC
SV15-021	ON/OFF VALVE - CARRIER WATER	VASDS351509	VASDS351509	ANIONIC POLYMER DOSING SKID	P1001 SHEET 15	TECKNO VALVE	ASCO	8210G089-120VAC
SV15-042	SOLENOID VALVE - FEEDER	VASDBR352337	VASDBR352337	KMI04 PREP SYSTEM	P1001 SHEET 16	TECKNO VALVE	ASCO	EF8346G001-120VAC
SV15-042	SOLENOID VALVE - DRIVING WATER	VASDBR352337	VASDBR352337	KMI04 PREP SYSTEM	P1001 SHEET 16	TECKNO VALVE	ASCO	EF8346G001-120VAC
SV18-031	SOLENOID VALVE - FEEDER	VASDBR352337	VASDBR352337	HYDRAPOL 3500	P1001 SHEET 18	TECKNO VALVE	ASCO	EF8346G001-120VAC
SV18-032	SOLENOID VALVE - DRIVING WATER	VASDBR352337	VASDBR352337	HYDRAPOL 3500	P1001 SHEET 18	TECKNO VALVE	ASCO	EF8346G001-120VAC
SV19-591	SOLENOID VALVE - DRIVING WATER	ST-304-102	ST-304-102	KMI04 PREP SYSTEM	P1001 SHEET 15	TECKNO VALVE	ASCO	8210G094 120VAC
T1-011-V001	VALVE	DRAIN VALVE	ST-312-112	RX75-3 PRECIPITATION REACTOR	P1001 SHEET 01	DM VALVE	PRATT	60IN1-L/4"
T5-011-V004	VALVE	DRAIN VALVE	ST-312-112	RX75-2 SLUDGE TANK	P1001 SHEET 05	DM VALVE	PRATT	60IN1-L/4"
T5-012-V004	VALVE	DRAIN VALVE	ST-312-112	RX75-2 SLUDGE TANK	P1001 SHEET 05	DM VALVE	PRATT	60IN1-L/4"
T9-531	TANK	STORAGE TANK	XXX	SULFURIC ACID DOSING SKID	P1001 SHEET 12	ACO		

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
T9-591	TANK	MATURATION TANK	FATAHP205320	KMnO4 PREP SYSTEM	PI001 SHEET 16	Davidson		
T9-591-V001	VALVE	DRAIN VALVE	VABLPV200253	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	21A015EC,TYPE21
T9-591-V002	VALVE	Actuated Transfer Valve	VABFPV352256	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	57A020AE1-A / ER20.12
T9-592	TANK	STORAGE TANK	FATAHP205331	KMnO4 PREP SYSTEM	PI001 SHEET 16	Davidson		
T9-592-V001	VALVE	DRAIN VALVE	VABLPV200253	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	21A015EC,TYPE21
T9-592-V002	VALVE	ISOLATION VALVE - TANK OUTLET	VABLPV200253	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	21A015EC,TYPE21
T9-621	TANK	MATURATION TANK	FATAHP205328	HYDRAPOL 3500	PI001 SHEET 18	Davidson		
T9-621-V001	VALVE	ISOLATION VALVE - TANK DRAIN	VABLPV303543	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	21A030ES,TYPE21
T9-621-V002	VALVE	Actuated Transfer Valve	VASDBR330455	HYDRAPOL 3500	PI001 SHEET 18	ASCO		8345G001-120VAC
T9-622	TANK	STORAGE TANK	FATAHP205339	HYDRAPOL 3500	PI001 SHEET 18	Davidson		
T9-622-V001	VALVE	ISOLATION VALVE - TANK DRAIN	VABLPV303543	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	21A030ES,TYPE21
T9-622-V002	VALVE	ISOLATION VALVE - TANK OUTLET	VABLPV303543	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	21A030ES,TYPE21
TSE5-011	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P5-011	RX75-2 SLUDGE TANK	PI001 SHEET 05	SEEPX		
TSE5-012	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P5-012	RX75-2 SLUDGE TANK	PI001 SHEET 05	SEEPX		
TSE9-524	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-524	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
TSE9-525	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-525	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
TSE9-526	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-526	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	SEEPX		
TSE9-621	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-621	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEEPX		
TSE9-622	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-622	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEEPX		
TSE9-623	INSTRUMENT	HIGH TEMPERATURE	INCLUDED WITH P9-623	CATIONIC POLYMER DOSING SKID	PI001 SHEET 19	SEEPX		
TT15-001	INSTRUMENT	TEMPERATURE ANALYZER	INCLUDED WITH AE1-012	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	HACH		
UNIT 0101	TANK	TANK	N/A	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	VWTC		
UNIT 0501	TANK	STORAGE TANK	T5-011	RX75-2 SLUDGE TANK	PI001 SHEET 05	ACIER ROGER		
V15-011	VALVE	GLOVE VALVE - CARRIER WATER	VAGLPV207831	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	GVA0105
V15-012	VALVE	GLOVE VALVE - CARRIER WATER	VAGLPV207831	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	GVA0105
V15-021	VALVE	GLOVE VALVE - CARRIER WATER	VAGLPV207831	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	GVA0105
V15-022	VALVE	GLOVE VALVE - CARRIER WATER	VAGLPV207831	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	GVA0105
V15-041	VALVE	ISOLATION VALVE - DRIVING WATER	VABLPV200251	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	21A0D0EC,TYPE21
V15-042	VALVE	METERING VALVE - WETTING CONE	VABLPV346917	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	SM2A005ES
V15-043	VALVE	METERING VALVE - WETTING CONE	VABLPV346917	KMnO4 PREP SYSTEM	PI001 SHEET 16	CHEMUNE	CHEMUNE	SM2A005ES
V18-031	VALVE	ISOLATION VALVE - DRIVING WATER	VABLPV200253	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	21A015EC,TYPE21
V18-032	VALVE	METERING VALVE - WETTING CONE	VABLPV346917	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	SM2A005ES
V18-033	VALVE	METERING VALVE - WETTING CONE	VABLPV346917	HYDRAPOL 3500	PI001 SHEET 18	CHEMUNE	CHEMUNE	SM2A005ES
V2-010	VALVE	DRAIN VALVE	VABLS5204735	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	PINACLE	PINACLE	316VTR22
V2-011	VALVE	DRAIN VALVE	VABLS5204735	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	PINACLE	PINACLE	316VTR22
V2-012	VALVE	DRAIN VALVE	VABLS520268	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	CFF	CFF	SS2-20 (3/4)
V2-013	VALVE	DRAIN VALVE	VABLS520268	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 02	CFF	CFF	SS2-20 (3/4)
V2-020	VALVE	DRAIN VALVE	VABLS5204735	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	PINACLE	PINACLE	316VTR22
V2-021	VALVE	DRAIN VALVE	VABLS5204735	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	PINACLE	PINACLE	316VTR22
V2-022	VALVE	DRAIN VALVE	VABLS520268	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	CFF	CFF	SS2-20 (3/4)
V2-023	VALVE	DRAIN VALVE	VABLS520268	ACTIFLO RECIRCULATION LINE MODIFICATION	PI001 SHEET 03	CFF	CFF	SS2-20 (3/4)
V9-518	VALVE	ISOLATION VALVE	VABLS520267	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	CFF	CFF	SS2-15 (1/2)
V9-522	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	21A015EC,TYPE21
V9-523	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	21A0D0EC,TYPE21
V9-524	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	21A0D0EC,TYPE21
V9-525	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	21A0D0EC,TYPE21
V9-526	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	ANIONIC POLYMER DOSING SKID	PI001 SHEET 15	CHEMUNE	CHEMUNE	21A0D0EC,TYPE21
V9-536	VALVE	DRAIN VALVE	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMUNE	CHEMUNE	21K005VCF+(2x)21005-4K8N-1
V9-537	VALVE	ISOLATION VALVE	VABLPD207828	SULFURIC ACID DOSING SKID	PI001 SHEET 12	CHEMUNE	CHEMUNE	21K005VCF+(2x)21005-4K8N-1
V9-541	VALVE	ISOLATION VALVE	VABLS520267	RX75-3 PRECIPITATION REACTOR	PI001 SHEET 01	CFF	CFF	SS2-15 (1/2)

EQUIPMENT LIST

EQUIPT TAG	EQUIPMENT TYPE	DESCRIPTION	EQUIPMENT CODE	LOCATION	P&ID	SUPPLIER	MANUFACTURER	MODEL NUMBER
V9-542	VALVE	ISOLATION VALVE	VABLS2020267	RX75-3 PRECIPITATION REACTOR	P1001 SHEET 01	CFF	CFF	SS2-15 (1/2)
V9-591	VALVE	ISOLATION VALVE (COMMON SUCTION)	VABLPV200251	KMnO4 DOSING SKID	P1001 SHEET 17	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
V9-592	VALVE	ISOLATION VALVE	VABLS2020267	RX75-3 PRECIPITATION REACTOR	P1001 SHEET 01	CFF	CFF	SS2-15 (1/2)
V9-593	VALVE	ISOLATION VALVE	VABLS2020267	RX75-3 PRECIPITATION REACTOR	P1001 SHEET 01	CFF	CFF	SS2-15 (1/2)
V9-622	VALVE	ISOLATION VALVE (SUCTION)	VABLPV200253	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A015EC,TYPE21
V9-623	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
V9-624	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
V9-625	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
V9-627	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
V9-628	VALVE	ISOLATION VALVE (DISCHARGE)	VABLPV200251	CATIONIC POLYMER DOSING SKID	P1001 SHEET 19	CHEMLINE	CHEMLINE	21A0100EC,TYPE21
VAC9-591	MISC	PNEUMATIC CONVEYER	INCLUDED WITH VCM9-591	KMnO4 PREP SYSTEM	P1001 SHEET 15	HAPMAN		
VCM9-591	MISC	CONVEYER MOTOR	ST-999-010	KMnO4 PREP SYSTEM	P1001 SHEET 16	HAPMAN		
Z59-591	INSTRUMENT		INCLUDED WITH VCM9-591	KMnO4 PREP SYSTEM	P1001 SHEET 16	HAPMAN		