

\\slater\projects\2018\01603-000_Skye_mis-2016\mmap\consulting_study\3-update 4 - concurrence\figures\01603-000_supp_exhibit_e_ult_drainage_onsite.dwg 7/19/2018 4:09 PM Lant Leavitt

SEE EXHIBIT G ULTIMATE OFFSITE WEST HYDROLOGIC MAP

MOCCASIN REGIONAL STORMDRAIN PROPOSED AS PARALLEL FACILITIES. SKYE CANYON DISCHARGE CONVEYED IN SOUTH FACILITY. FUTURE FLOW CONVEYED IN NORTH FACILITY.

SEE EXHIBIT F ULTIMATE OFFSITE EAST HYDROLOGIC MAP

NOTE:

- 5-FT TOPOGRAPHIC CONTOURS SHOWN ON EXHIBIT
- REFER TO MDS UPDATE #3 EXHIBIT D - ULTIMATE CONDITION US-95 HYDRAULICS FOR DETAILED DRAINAGE PATTERNS IN OFFSITE US-95 RIGHT OF WAY.

Ultimate Condition Flow Rate Summary Skye Canyon West Basins				
Basin/Concentration Point ID	Area (ac)	Q ₁₀ (cfs)	Q ₅ (cfs)	Q ₁ (cfs)
WARR1	3.6	8	4	2
WARR2	2.8	7	3	1
WARR3	7.1	17	8	4
WARR4	1.3	3	1	0
WARR5	8.0	18	8	4
WARR6	2.4	6	2	1
WARR7	8.3	24	11	5
WARR8	8.3	23	10	5
WARR9	30.4	86	47	23
WARR10	28.4	77	36	18
WARR11	11.6	33	16	8
WARR12	17.1	46	21	10
WARR13	18.3	49	22	11
WARR14	36.7	99	46	23
WARR15	31.4	84	38	19
WARR16	28.8	81	36	18
WARR17	28.0	79	36	18
WARR18	15.7	45	21	10
WARR19	24.9	69	32	16
WARR20	8.0	23	10	5
WARR21	8.9	25	11	5
WARR22	10.9	32	15	7
WARR23	3.8	12	5	2
WARR24	6.2	16	7	3
WARR25	10.6	30	14	7
WARR26	11.5	34	16	8
WARR27	17.4	48	22	11
WARR28	18.2	49	22	11
WARR29	14.4	39	18	9
WARR30	18.0	52	24	12
WARR31	11.6	38	19	9
WARR32	16.0	46	23	11
WARR33	15.1	44	20	10
WARR34	15.4	45	20	10
WARR35	19.2	55	25	12
WARR36	11.2	34	17	8
WARR37	22.2	64	32	16
WARR38	27.4	78	38	19
WARR39	17.3	56	28	14
WARR40	25.1	77	38	19
WARR41	27.3	82	41	20
WARR42	20.6	64	32	16
WARR43	18.6	59	30	15
WARR44	10.3	34	17	8
WARR45	16.4	55	28	14
WARR46	6.5	20	10	5
WARR47	12.0	37	18	9
WARR48	30.4	88	44	22
WARR49	11.5	35	17	8
WARR50	20.2	59	29	14
WARR51	18.9	63	31	15
WARR52	4.6	17	8	4
WARR53	6.4	17	8	4
WARR54	1.0	4	2	1
WARR55	4.6	14	7	3
WARR56	2.4	6	2	1
WARR57	10.0	19	8	4
WARR58	1.8	4	2	1
WARR59	1.0	3	1	0
WARR60	2.0	5	2	1
WARR61	13.2	28	10	5
WARR62	3.0	8	2	1
WARR63	1.7	4	1	0
WARR64	0.6	1	0	0
WARR65	39.4	106	48	24
WARR66	11.5	37	18	9

Ultimate Condition Flow Rate Summary Skye Canyon East Basins				
Basin/Concentration Point ID	Area (ac)	Q ₁₀ (cfs)	Q ₅ (cfs)	Q ₁ (cfs)
EA1A	103.1	231	107	53
EA1B	40.0	106	48	24
EA1C	177.8	347	160	80
EA1D	29.0	81	39	19
EA1E	21.7	46	19	9
EA1F	28.4	81	39	19
EA1G	21.4	44	18	9
EA1H	15.1	32	13	6
EA1I	8.6	18	7	3
EA1J	36.3	88	26	13
EA1K	17.6	46	23	11
EA1L	11.5	34	17	8
EA1M	9.1	27	13	6
EA1N	18.9	49	23	11
EA1O	16.7	53	26	13
EA1P	26.4	66	32	16
EA1Q	3.2	11	5	2
EA1R	1.0	1	0	0
EA1S	1.6	1	0	0
EA1T	2.0	2	0	0
EA1U	4.5	9	3	1
EA1V	1.0	2	1	0
EA1W	1.0	2	1	0

Ultimate Condition Flow Rate Summary Skye Canyon East Diversions				
Diversion ID	Q ₁₀ (cfs)	Q ₅ (cfs)	Diverted From	Diverted To
LOGCAB	187	88	EC16	LOG CABIN WAY
RFTLC	254	78	EC15	FORT APACHE ROAD
CHARE	47	16	EC14	CHARE ROAD
FTNOR	0	0	EC10	FORT APACHE ROAD
IREAST	140	88	EC10	IRON MOUNTAIN EAST
BRENT	161	46	EC25	BRENT LANE
SOUTH	70	25	EC25	RACEL STREET
HORSE	0	37	EC26	HORSE DRIVE
RACEL	114	110	EC26	RACEL STREET

Ultimate Condition Flow Rate Summary Skye Canyon West Concentration Points				
Basin/Concentration Point ID	Area (sq. mi)	Q ₁₀ (cfs)	Q ₅ (cfs)	Q ₁ (cfs)
WC1	0.02	43	21	10
Q = WC1 + WML1 + WML2A				
WC2	0.03	73	37	18
Q = WC2 + WML3 + WML4				
WC3	0.05	109	54	26
Q = WC3 + WML5 + WML6				
WC4	0.08	136	67	33
Q = WC4 + WML7 + WML8				
WC5	0.09	170	83	41
Q = WC5 + WML9 + WML10				
WC6	0.04	88	33	16
Q = WC6 + WML11 + WML12				
WC7	0.10	186	89	44
Q = WC7 + WML13 + WML14 + WML15 + WML16				
WC8	0.02	37	19	9
Q = WC8 + WML17 + WML18				
WC9	0.17	322	155	77
Q = WC9 + WML19 + WML20 + WML21 + WML22				
WC10	0.03	60	30	15
Q = WC10 + WML23 + WML24				
WC11	0.05	99	48	24
Q = WC11 + WML25 + WML26				
WC12	0.07	127	61	30
Q = WC12 + WML27 + WML28				
WC13	0.11	226	109	54
Q = WC13 + WML29 + WML30 + WML31 + WML32				
WC14	0.17	352	170	85
Q = WC14 + WML33 + WML34 + WML35 + WML36				
WC15	0.24	485	236	118
Q = WC15 + WML37 + WML38 + WML39 + WML40				
WC16	0.03	46	21	10
Q = WC16 + WML41 + WML42				
WC17	0.06	106	48	24
Q = WC17 + WML43 + WML44 + WML45 + WML46				
WC18	0.37	895	331	165
Q = WC18 + WML47 + WML48 + WML49 + WML50				
WC19	0.42	787	372	186
Q = WC19 + WML51 + WML52 + WML53 + WML54				
WC20	0.90	94	70	35
Q = WC20 + WML55 + WML56 + WML57 + WML58				
WC21	0.05	89	42	21
Q = WC21 + WML59 + WML60 + WML61 + WML62				
WC22	0.96	201	121	60
Q = WC22 + WML63 + WML64 + WML65 + WML66				
WC23	0.05	67	43	21
Q = WC23 + WML67 + WML68 + WML69 + WML70				
WC24	1.01	282	168	84
Q = WC24 + WML71 + WML72 + WML73 + WML74				
WC25	1.03	322	189	94
Q = WC25 + WML75 + WML76 + WML77 + WML78				
WC26	1.05	359	194	97
Q = WC26 + WML79 + WML80 + WML81 + WML82				
WC27	0.01	19	8	4
Q = WC27 + WML83 + WML84 + WML85 + WML86				
WC28	0.09	412	217	108
Q = WC28 + WML87 + WML88 + WML89 + WML90				
WC29	1.12	487	263	131
Q = WC29 + WML91 + WML92 + WML93 + WML94				
WC30	0.06	113	53	26
Q = WC30 + WML95 + WML96 + WML97 + WML98				
WC31	0.01	19	10	5
Q = WC31 + WML99 + WML100 + WML101 + WML102				
WC32	0.04	62	29	14
Q = WC32 + WML103 + WML104 + WML105 + WML106				
WC33	0.04	68	33	16
Q = WC33 + WML107 + WML108 + WML109 + WML110				
WC34	0.07	124	58	29
Q = WC34 + WML111 + WML112 + WML113 + WML114				
WC35	0.14	244	113	56
Q = WC35 + WML115 + WML116 + WML117 + WML118				
WC36	0.23	404	191	95
Q = WC36 + WML119 + WML120 + WML121 + WML122				
WC37	1.34	676	436	218
Q = WC37 + WML123 + WML124 + WML125 + WML126				
WC38	0.03	51	23	11
Q = WC38 + WML127 + WML128 + WML129 + WML130				
WC39	1.41	1000	492	246
Q = WC39 + WML131 + WML132 + WML133 + WML134				
WC40	0.62	139	84	42
Q = WC40 + WML135 + WML136 + WML137 + WML138				
WC41	0.63	157	93	46
Q = WC41 + WML139 + WML140 + WML141 + WML142				
WC42	0.07	112	50	25
Q = WC42 + WML143 + WML144 + WML145 + WML146				
WC43	0.72	321	170	85
Q = WC43 + WML147 + WML148 + WML149 + WML150				
WC44	0.77	388	209	104
Q = WC44 + WML151 + WML152 + WML153 + WML154				
WC45	2.18	1325	648	324
Q = WC45 + WML155 + WML156 + WML157 + WML158				
WC46	2.19	1330	650	325
Q = WC46 + WML159 + WML160 + WML161 + WML162				
WC47	4.95	2110	904	452
Q = WC47 + WML163 + WML164 + WML165 + WML166				
WC48	0.18	250	97	48
Q = WC48 + WML167 + WML168 + WML169 + WML170				

Ultimate Condition Flow Rate Summary Skye Canyon East Concentration Points				
Basin/Concentration Point ID	Area (sq. mi)	Q ₁₀ (cfs)	Q ₅ (cfs)	Q ₁ (cfs)
EC1	5.16	2386	1016	508
Q = EC1 + WML1 + WML2 + WML3 + WML4 + WML5 + WML6 + WML7 + WML8 + WML9 + WML10 + WML11 + WML12 + WML13 + WML14 + WML15 + WML16 + WML17 + WML18 + WML19 + WML20 + WML21 + WML22 + WML23 + WML24 + WML25 + WML26 + WML27 + WML28 + WML29 + WML30 + WML31 + WML32 + WML33 + WML34 + WML35 + WML36 + WML37 + WML38 + WML39 + WML40 + WML41 + WML42 + WML43 + WML44 + WML45 + WML46 + WML47 + WML48 + WML49 + WML50 + WML51 + WML52 + WML53 + WML54 + WML55 + WML56 + WML57 + WML58 + WML59 + WML60 + WML61 + WML62 + WML63 + WML64 + WML65 + WML66 + WML67 + WML68 + WML69 + WML70 + WML71 + WML72 + WML73 + WML74 + WML75 + WML76 + WML77 + WML78 + WML79 + WML80 + WML81 + WML82 + WML83 + WML84 + WML85 + WML86 + WML87 + WML88 + WML89 + WML90 + WML91 + WML92 + WML93 + WML94 + WML95 + WML96 + WML97 + WML98 + WML99 + WML100 + WML101 + WML102 + WML103 + WML104 + WML105 + WML106 + WML107 + WML108 + WML109 + WML110 + WML111 + WML112 + WML113 + WML114 + WML115 + WML116 + WML117 + WML118 + WML119 + WML120 + WML121 + WML122 + WML123 + WML124 + WML125 + WML126 + WML127 + WML128 + WML129 + WML130 + WML131 + WML132 + WML133 + WML134 + WML135 + WML136 + WML137 + WML138 + WML139 + WML140 + WML141 + WML142 + WML143 + WML144 + WML145 + WML146 + WML147 + WML148 + WML149 + WML150 + WML151 + WML152 + WML153 + WML154 + WML155 + WML156 + WML157 + WML158 + WML159 + WML160 + WML161 + WML162 + WML163 + WML164 + WML165 + WML166 + WML167 + WML168 + WML169 + WML170 + WML171 + WML172 + WML173 + WML174 + WML175 + WML176 + WML177 + WML178 + WML179 + WML180 + WML181 + WML182 + WML183 + WML184 + WML185 + WML186 + WML187 + WML188 + WML189 + WML190 + WML191 + WML192 + WML193 + WML194 + WML195 + WML196 + WML197 + WML198 + WML199 + WML200 + WML201 + WML202 + WML203 + WML204 + WML205 + WML206 + WML207 + WML208 + WML209 + WML210 + WML211 + WML212 + WML213 + WML214 + WML215 + WML216 + WML217 + WML218 + WML219 + WML220 + WML221 + WML222 + WML223 + WML224 + WML225 + WML226 + WML227 + WML228 + WML229 + WML230 + WML231 + WML232 + WML233 + WML234 + WML235 + WML236 + WML237 + WML238 + WML239 + WML240 + WML241 + WML242 + WML243 + WML244 + WML245 + WML246 + WML247 + WML248 + WML249 + WML250 + WML251 + WML252 + WML253 + WML254 + WML255 + WML256 + WML257 + WML258 + WML259 + WML260 + WML261 + WML262 + WML263 + WML264 + WML265 + WML266 + WML267 + WML268 + WML269 + WML270 + WML271 + WML272 + WML273 + WML274 + WML275 + WML276 + WML277 + WML278 + WML279 + WML280 + WML281 + WML282 + WML283 + WML284 + WML285 + WML286 + WML287 + WML288 + WML289 + WML290 + WML291 + WML292 + WML293 + WML294 + WML295 + WML296 + WML297 + WML298 + WML299 + WML300 + WML301 + WML302 + WML303 + WML304 + WML305 + WML306 + WML307 + WML308 + WML309 + WML310 + WML311 + WML312 + WML313 + WML314 + WML315 + WML316 + WML317 + WML318 + WML319 + WML320 + WML321 + WML322 + WML323 + WML324 + WML325 + WML326 + WML327 + WML328 + WML329 + WML330 + WML331 + WML332 + WML333 + WML334 + WML335 + WML336 + WML337 + WML338 + WML339 + WML340 + WML341 + WML342 + WML343 + WML344 + WML345 + WML346 + WML347 + WML348 + WML349 + WML350 + WML351 + WML352 + WML353 + WML354 + WML355 + WML356 + WML357 + WML358 + WML359 + WML360 + WML361 + WML362 + WML363 + WML364 + WML365 + WML366 + WML367 + WML368 + WML369 + WML370 + WML371 + WML372 + WML373 + WML374 + WML375 + WML376 + WML377 + WML378 + WML379 + WML380 + WML381 + WML382 + WML383 + WML384 + WML385 + WML386 + WML387 + WML388 + WML389 + WML390 + WML391 + WML392 + WML393 + WML394 + WML395 + WML396 + WML397 + WML398 + WML399 + WML400 + WML401 + WML402 + WML403 + WML404 + WML405 + WML406 + WML407 + WML408 + WML409 + WML410 + WML411 + WML412 + WML413 + WML414 + WML415 + WML416 + WML417 + WML418 + WML419 + WML420 + WML421 + WML422 + WML423 + WML424 + WML425 + WML426 + WML427 + WML428 + WML429 + WML430 + WML431 + WML432 + WML433 + WML434 + WML435 + WML436 + WML437 + WML438 + WML439 + WML440 + WML441 + WML442 + WML443 + WML444 + WML445 + WML446 + WML447 + WML4				