

****Trench Drains have been provided adjacent to building**



RAS Standard Table 1													
Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
SIRIUS	1916	100-yr	PropCond-EL	1,158	2120.70	2122.55	2122.55	2122.93	0.008145	4.96	233.59	297.67	0.99
SIRIUS	1750	100-yr	PropCond-EL	1,158	2116.50	2118.23	2118.93	2120.74	0.015487	14.09	95.80	97.00	2.14
SIRIUS	1533	100-yr	PropCond-EL	1,158	2112.00	2113.71	2114.66	2117.09	0.017377	15.05	79.46	83.06	2.29
SIRIUS	1245			Lat Struct									
SIRIUS	1215	100-yr	PropCond-EL	1,096	2109.25	2110.68	2111.04	2111.89	0.011742	10.27	129.87	184.50	1.88
SIRIUS	1170	100-yr	PropCond-EL	1,081	2108.93	2109.81	2110.22	2111.24	0.016094	9.89	117.19	197.44	1.98
SIRIUS	1036	100-yr	PropCond-EL	1,081	2108.20	2110.52	2110.52	2111.60	0.002889	8.52	132.14	61.50	1.01

CHANNEL HYDRAULIC SECTIONS SUMMARY TABLE										
ID	TRIBUTARY BASINS	CHANNEL SLOPE	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D/V ft/s	TYPE	SIDE SLOPES	BOTTOM WIDTH (ft)	Req'd d ₅₀ (in)
N-F(CHNL)	Channel Capacity		270.1	3.70	6.43	16.20				
SW1	ONB	1.00	2	0.54	1.73	0.93	V - Ditch	4:1	N/A	6"
SW2	ONB	0.25	2	0.70	1.03	0.72	V - Ditch	4:1	N/A	6"
SW3	ONC+ 1/2OF5	1.00	2.5	0.54	1.73	0.93	V - Ditch	4:1	N/A	6"
SW4	ONE1	1.01	1	0.15	2.36	0.35	V-Ditch	50:1	N/A	N/A
OF5W	1/2OF5	2.74	0.5	0.06	2.81	0.17	Concrete Flume	0:1	3	N/A
OF5S	1/2OF5 + ONC	1.01	2.5	0.40	3.87	1.55	V - Ditch	4:1	N/A	N/A

ROADWAY HYDRAULIC SECTIONS SUMMARY TABLE							
STREET SECTION	TERRITORY BASINS	CHANNEL FLOW	VELOCITY	D/V			
		(cfs)	(ft/s)				
"F" (ROAD)	"CRCP506	0.70	2.538	3.745			
ST1	"CRCP506	0.41	2.538	62.93			
ST2	"CRCP506	0.50	2.538	61.04			
ST2.5	"CRCP506	0.90	2.538	10.69			
RD	"CRCP506" + OND1 + OND2 + ONG + ONF	0.25	2.5465	8.56			
ST3	"CRCP506" + OND1 + OND2 + ONG + ONF	0.67	2.5465	6.80			
RD-1	"CRCP506" + OND1 + OND2 + ONG + ONF	0.25	2.562	7.41			
RA	"PS58(F03)" + 75% ON1 + ONF2 + ONG + ONF1 + ONF2 + ONF3	0.46	0.99	0.66			
RA1	"PS58(F03)" + 75% ON1 + ONF2 + ONG + ONF1 + ONF2 + ONF3	0.68	102.5	1.30			
RA2	"PS58(F03)" + 75% ON1 + ONF2 + ONG + ONF1 + ONF2 + ONF3	0.60	102.5	1.33			
MA1	"PS58(F03)" + 120F5	3.37	8.0	0.69			
MA2A	"PS58(F03)" + "PS58(F03)" + "PS58(F03)" + 75% RA + ONB + ONC + ONF1 + ONF2 + ONF3 + ONF4 + ONF5 + ONF6 + ONF7 + ONF8 + ONF9 + ONF10 + ONF11 + ONF12 + ONF13 + ONF14 + ONF15 + ONF16 + ONF17 + ONF18 + ONF19 + ONF20 + ONF21 + ONF22 + ONF23 + ONF24 + ONF25 + ONF26 + ONF27 + ONF28 + ONF29 + ONF30 + ONF31 + ONF32 + ONF33 + ONF34 + ONF35 + ONF36 + ONF37 + ONF38 + ONF39 + ONF40 + ONF41 + ONF42 + ONF43 + ONF44 + ONF45 + ONF46 + ONF47 + ONF48 + ONF49 + ONF50 + ONF51 + ONF52 + ONF53 + ONF54 + ONF55 + ONF56 + ONF57 + ONF58 + ONF59 + ONF60 + ONF61 + ONF62 + ONF63 + ONF64 + ONF65 + ONF66 + ONF67 + ONF68 + ONF69 + ONF70 + ONF71 + ONF72 + ONF73 + ONF74 + ONF75 + ONF76 + ONF77 + ONF78 + ONF79 + ONF80 + ONF81 + ONF82 + ONF83 + ONF84 + ONF85 + ONF86 + ONF87 + ONF88 + ONF89 + ONF90 + ONF91 + ONF92 + ONF93 + ONF94 + ONF95 + ONF96 + ONF97 + ONF98 + ONF99 + ONF100 + ONF101 + ONF102 + ONF103 + ONF104 + ONF105 + ONF106 + ONF107 + ONF108 + ONF109 + ONF110 + ONF111 + ONF112 + ONF113 + ONF114 + ONF115 + 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MA2B	"PS58(F03)" + "PS58(F03)" + "PS58(F03)" + 75% RA + ONB + ONC + ONF1 + ONF2 + ONF3 + ONF4 + ONF5 + ONF6 + ONF7 + ONF8 + ONF9 + ONF10 + ONF11 + ONF12 + ONF13 + ONF14 + ONF15 + ONF16 + ONF17 + ONF18 + ONF19 + ONF20 + ONF21 + ONF22 + ONF23 + ONF24 + ONF25 + ONF26 + ONF27 + ONF28 + ONF29 + ONF30 + ONF31 + ONF32 + ONF33 + ONF34 + ONF35 + ONF36 + ONF37 + ONF38 + ONF39 + ONF40 + ONF41 + ONF42 + ONF43 + ONF44 + ONF45 + ONF46 + ONF47 + ONF48 + ONF49 + ONF50 + ONF51 + ONF52 + ONF53 + ONF54 + ONF55 + ONF56 + ONF57 + ONF58 + ONF59 + ONF60 + ONF61 + ONF62 + ONF63 + ONF64 + ONF65 + ONF66 + ONF67 + ONF68 + ONF69 + ONF70 + ONF71 + ONF72 + ONF73 + ONF74 + ONF75 + ONF76 + ONF77 + ONF78 + ONF79 + ONF80 + ONF81 + ONF82 + ONF83 + ONF84 + ONF85 + ONF86 + ONF87 + ONF88 + ONF89 + ONF90 + ONF91 + ONF92 + ONF93 + ONF94 + ONF95 + ONF96 + ONF97 + ONF98 + ONF99 + ONF100 + ONF101 + ONF102 + ONF103 + ONF104 + ONF105 + ONF106 + ONF107 + ONF108 + ONF109 + ONF110 + ONF111 + ONF112 + ONF113 + ONF114 + ONF115 + 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Existing / Proposed Condition Flow Summary			
Basin ID / Comb Pt	Area / Tributary Area (ac)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
**CP506	N/A	1045	405
*CP05	N/A	31	18
**EX10	N/A	7	4
***CP12	N/A	1158	459
Q = 1081-CFS + **PS08(OF2)	N/A	2538	873
**CRCP506	114.56	235	100
**PS08	N/A	2582	917
**CCPS08	N/A	3762	1226

Prorated Flow Summary					
BASIN ID	Q100 (cfs)	Q10 (cfs)	AREA (ac)	Q100 (cfs/ac)	Q10 (cfs/ac)
PS08	235	100	114.6	2.05	0.87
SUBBASIN ID	Q100 (cfs)	Q10 (cfs)	AREA (ac)	Q100 (cfs/ac)	Q10 (cfs/ac)
PS08(OF1)	19	8	9.2	2.05	0.87
PS08(OF2)	77	33	37.5	2.05	0.87
PS08(OF3)	84	36	40.9	2.05	0.87
PS08(OF4)	29	12	14.2	2.05	0.87
PS08(OF5)	1	<1	0.3	2.05	0.87
PS08(ONA)	2	1	0.8	2.05	0.87
PS08(ONB)	2	1	1.0	2.05	0.87
PS08(ONC)	2	1	0.8	2.05	0.87
PS08(OND1)	1	0.5	0.7	2.05	0.87
PS08(OND2)	1	0.5	0.7	2.05	0.87
PS08(ONE1)	1	<1	0.4	2.05	0.87
PS08(ONE2)	2.5	1	1.1	2.05	0.87
PS08(ONE3)	1	0.5	0.7	2.05	0.87
PS08(ONE4)	2	1	0.8	2.05	0.87
PS08(ONF1)	1	0.5	0.7	2.05	0.87
PS08(ONF2)	1	0.5	0.5	2.05	0.87
PS08(ONG)	4	2	2.1	2.05	0.87
PS08(ONH)	1	0.5	0.7	2.05	0.87
PS08(RD)	2.5	1	1.1	2.05	0.87
PS08(RA)	1	<1	0.4	2.05	0.87
SUBTOTAL	235	100	114.6	-	-

NOTE:
1,081-CFS REFERENCED FOR FLOWRATE AT
INTERSECTION OF PRIVATE DRIVEWAY & SIRIUS
AVENUE. REFER TO APPENDIX D FOR REFERENCE Q.

GRAPHIC SCALE IN FEET
0 75 150 300

LEGEND

- BASIN ID
- PRORATED BASIN ID
- BASIN BOUNDARY
- PRORATED BASIN BOUNDARY
- FUTURE CCRFCD REGIONAL FACILITY
- EXITING DRAINAGE FACILITY
- FLOW ARROW
- CPX CONCENTRATION POINT
- SECTION ID
- HEC-RAS CROSS SECTION AT 10+36
- 2-FT CONTOURS
- 1-FT CONTOURS
- PROPOSED CONTOURS
- PROPOSED 100-YR INUNDATION LIMITS

PRO-1	AREA 15 DISTRICT 2 PREPARED FOR NEW VEGAS HOLDING COMPANY, LLC CITY OF LAS VEGAS	OVERALL PROPOSED CONDITION DRAINAGE MAP	KHA PROJECT 092965011 DATE 10/25/2022 SCALE AS SHOWN DESIGNED BY TEA DRAWN BY SS CHECKED BY RD	 © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM	No. _____ REVISIONS _____ DATE _____ BY _____
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