



LEGEND

- SITE BASIN ID
- XXX-X PRORATED BASIN BOUNDARY ID
- BASIN BOUNDARY
- PRORATED BASIN BOUNDARY
- XX CFS** 100YR CFS
- ➔ FLOW ARROW
- XX
XX SECTION ID
- EXISTING LOCAL STORM DRAIN

BASIN ID	BASIN AREA (ac)	100-YR FLOW (cfs)	10-YR FLOW (cfs)
DON1	2.08	7	4
*Nellis	-	69	24
*Oasis	-	14	7

Proposed Onsite					
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	CFS/ACRE ₁₀₀	CFS/ACRE ₁₀
DON1	7	4	2.08	3.37	1.92
Proposed Onsite Prorated Basins					
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	CFS/ACRE ₁₀₀	CFS/ACRE ₁₀
DON1-A	2	1.5	0.73	3.37	1.92
DON1-B	1	0.5	0.24	3.37	1.92
DON1-C	1	<1	0.18	3.37	1.92
DON1-D	1	0.5	0.19	3.37	1.92
DON1-E	2	1.5	0.74	3.37	1.92
TOTAL	7	4	2.08	NA	NA

SECTION	TRIBUTARY BASINS	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	FLOW LINE (ft)	FLOW LINE +2D (ft)	FFE BLDG (ft)	BLDG PROTECTED?
ON-A	DON1-A	0.50	2.0	0.20	1.24	1757.54	1757.94	1759.00	YES
ON-B	DON1-B	0.50	1.0	0.14	0.81	1758.58	1758.86	1759.00	YES
ON-C	DON1-C	0.61	1.0	0.29	1.41	1758.37	1758.95	1759.00	YES
ON-D	DON1-D	0.50	1.0	0.28	1.18	1758.00	1758.56	1759.00	YES

SWALE SECTION	TRIBUTARY BASIN	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	TYPE	SIDE SLOPES	Req'd d ₅₀
SW-1	DON1-A	0.50	2	0.61	1.34	0.82	V	4:1 4:1	6"
SW-2	DON1-C + DON1-D	0.90	2	0.55	1.67	0.92	V	4:1 4:1	6"

STREET SECTION	TRIBUTARY BASINS	SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	Q ₁₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	DRY LANE
*1-1	-	0.50	17	0.51	2.02	1.03	-	-	-	-	-
*2-2	-	0.40	69	0.88	3.11	2.74	24	0.64	2.27	1.45	22

NOTES:
*REFERENCED FROM TACO BELL STUDY (HTE# 07-4358)

No.	REVISIONS	DATE	BY

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KHA PROJECT	DATE	SCALE AS SHOWN	DESIGNED BY	DRAWN BY	CHECKED BY
192496002	12/13/2024	MS	MS	MS	MS

PROPOSED CONDITIONS
BASIN MAP

WHATABURGER
NELLIS AND WALNUT
CIVIL IMPROVEMENTS
PREPARED FOR
GWA
CITY OF LAS VEGAS
NEVADA

PRO