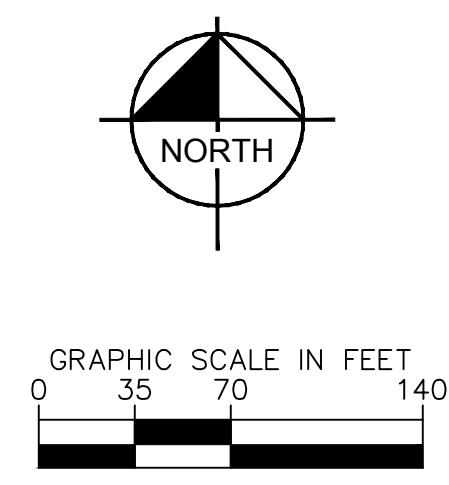
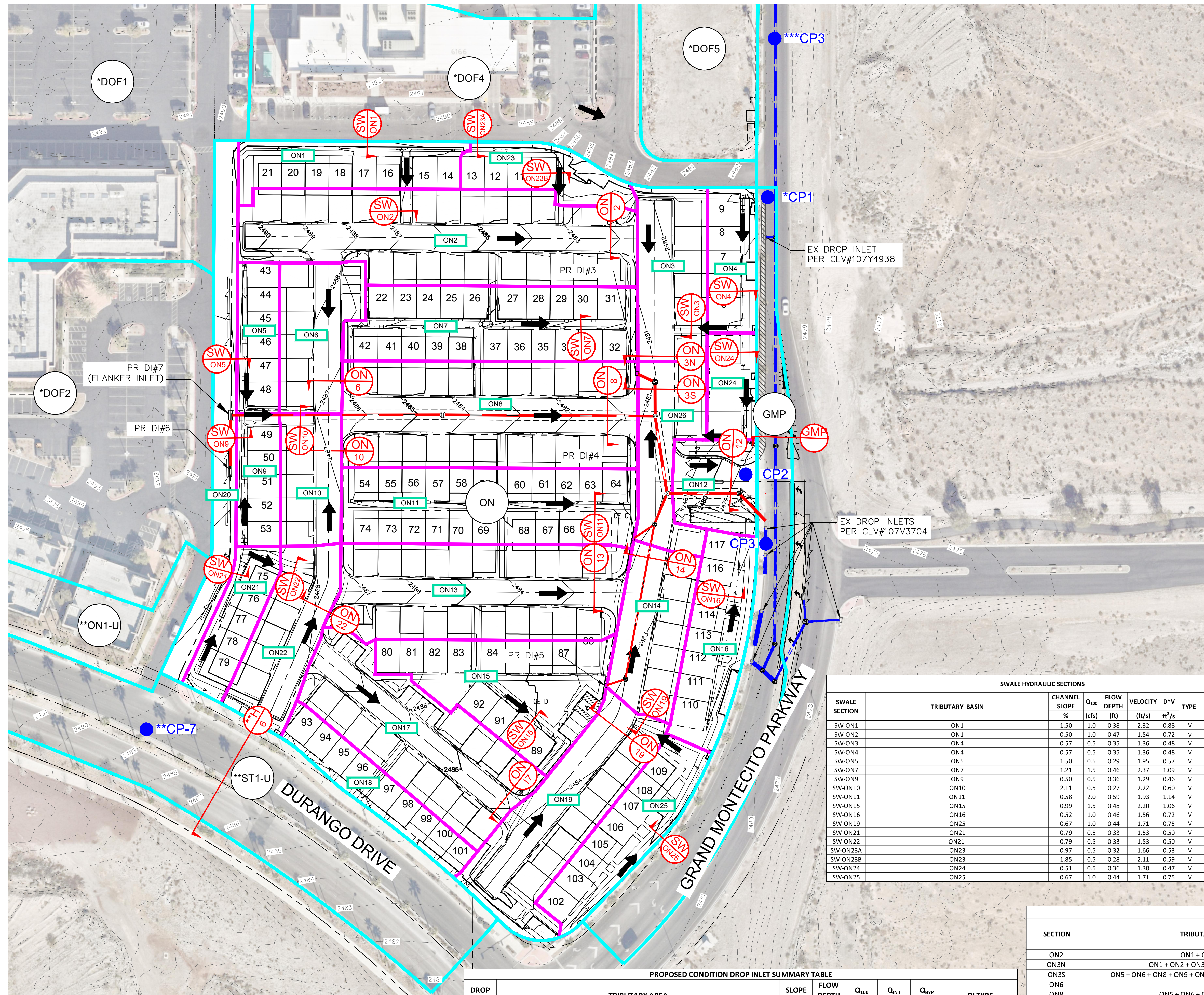


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LEGEND

- SITE BASIN ID
- XXX-X PRORATED BASIN ID
- BASIN BOUNDARY
- PRORATED BASIN BOUNDARY
- XX CFS 100/10YR CFS
- ➔ FLOW ARROW
- CPX CONCENTRATION POINT
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- XX
XX SECTION ID

BASIN ID / COMB. PT	BASIN AREA (ac)	100-YR FLOW (cfs)	10-YR FLOW (cfs)
**CP-3	-	51	28
*DOF3	1.05	4	2
*DOF1	5.97	19	9
*DOF4	1.70	5	3
*DOF5	0.73	2	1
*CP1	-	116 (30)	39 (14)
GMP	0.75	-	-
CP3	4.25	13	6
*DOF2	4.25	13	6
ON	8.80	27	13
CP2	-	40	19
**ON1-U	1.42	4	2
**ST1-U	1.45	5	3
**CP-7	-	60	21

*Referenced/Revised from Montecito Study
**Referenced/Revised from Commercial Study
() HEC1 Flows

Proposed Onsite					
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	Q ₁₀₀ (cfs/acre)	Q ₁₀ (cfs/acre)
ON	27	13	8.80	3.07	1.48

SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	Q ₁₀₀ (cfs/acre)	Q ₁₀ (cfs/acre)
ON1	1	0.5	0.26	3.07	1.48
ON2	2.5	1	0.82	3.07	1.48
ON3	1	0.5	0.30	3.07	1.48
ON4	0.5	<1	0.17	3.07	1.48
ON5	<1	<1	0.15	3.07	1.48
ON6	1	0.5	0.26	3.07	1.48
ON7	1.5	1	0.51	3.07	1.48
ON8	2.5	1.5	0.76	3.07	1.48
ON9	<1	<1	0.14	3.07	1.48
ON10	0.5	<1	0.19	3.07	1.48
ON11	2	1	0.54	3.07	1.48
ON12	0.5	<1	0.18	3.07	1.48
ON13	2	1	0.66	3.07	1.48
ON14	1	0.5	0.27	3.07	1.48
ON15	1.4	1	0.46	3.07	1.48
ON16	1	0.5	0.29	3.07	1.48
ON17	1.5	1	0.53	3.07	1.48
ON18	1	<1	0.21	3.07	1.48
ON19	1.4	1	0.47	3.07	1.48
ON20	1	0.5	0.32	3.07	1.48
ON21	<1	<1	0.17	3.07	1.48
ON22	1	0.5	0.29	3.07	1.48
ON23	0.5	<1	0.18	3.07	1.48
ON24	<1	<1	0.13	3.07	1.48
ON25	1	0.5	0.29	3.07	1.48
ON26	1	0.5	0.24	3.07	1.48
TOTAL	27	13	8.80	NA	NA

SWALE SECTION	TRIBUTARY BASIN	CHANNEL SLOPE (%)	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D ^{1/2} (ft ² /s)	TYPE	SIDE SLOPES	Req'd d ₅₀
SW-ON1	ON1	1.50	1.0	0.38	2.32	0.88	V	3:1 3:1	N/A
SW-ON2	ON1	0.50	1.0	0.47	1.54	0.72	V	3:1 3:1	N/A
SW-ON3	ON4	0.57	0.5	0.35	1.36	0.48	V	3:1 3:1	N/A
SW-ON4	ON4	0.57	0.5	0.35	1.36	0.48	V	3:1 3:1	N/A
SW-ON5	ON5	1.50	0.5	0.29	1.95	0.57	V	3:1 3:1	N/A
SW-ON7	ON7	1.21	1.5	0.46	2.37	1.09	V	3:1 3:1	N/A
SW-ON9	ON9	0.50	0.5	0.36	1.29	0.46	V	3:1 3:1	N/A
SW-ON10	ON10	2.11	0.5	0.27	2.22	0.60	V	3:1 3:1	N/A
SW-ON11	ON11	0.58	2.0	0.59	1.93	1.14	V	3:1 3:1	N/A
SW-ON15	ON15	0.99	1.5	0.48	2.20	1.06	V	3:1 3:1	N/A
SW-ON16	ON16	0.52	1.0	0.46	1.56	0.72	V	3:1 3:1	N/A
SW-ON19	ON25	0.67	1.0	0.44	1.71	0.75	V	3:1 3:1	N/A
SW-ON21	ON21	0.79	0.5	0.33	1.53	0.50	V	3:1 3:1	N/A
SW-ON22	ON21	0.79	0.5	0.33	1.53	0.50	V	3:1 3:1	N/A
SW-ON23A	ON23	0.97	0.5	0.32	1.66	0.53	V	3:1 3:1	N/A
SW-ON23B	ON23	1.85	0.5	0.28	2.11	0.59	V	3:1 3:1	N/A
SW-ON24	ON24	0.51	0.5	0.36	1.30	0.47	V	3:1 3:1	N/A
SW-ON25	ON25	0.67	1.0	0.44	1.71	0.75	V	3:1 3:1	N/A

SECTION	TRIBUTARY BASINS	CHANNEL SLOPE (%)	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D ^{1/2} (ft ² /s)
ON2	ON1 + ON2 + ON3	2.23	4.0	0.25	2.75	0.69
ON3N	ON1 + ON2 + ON3 + ON4 + ON7 + ON23	0.84	7.0	0.42	2.41	1.01
ON3S	ON5 + ON6 + ON8 + ON9 + ON10 + ON11 + ON16 + ON24 + ON26	0.84	8.0	0.44	2.45	1.08
ON6	ON6	1.03	1.00	0.23	1.74	0.40
ON8	ON5 + ON6 + ON8 + ON9 + ON10	1.89	4.0	0.26	2.57	0.67
ON10	ON10	0.60	0.5	0.21	1.22	0.26
ON12	ON12	4.48	0.5	0.12	2.89	0.35
ON13	ON13 + ON21 + ON22	1.89	3.0	0.24	2.41	0.58
ON14	ON13 + ON14 + ON21 + ON22 + DIS BYPASS	0.50	4.9	0.41	1.84	0.75
ON17	ON17	1.58	1.5	0.20	1.96	0.39
ON19	ON15 + ON17 + ON19 + ON25	0.64	5.5	0.41	2.07	0.85
ON22	ON22	0.60	1.0	0.25	1.41	0.35

DROP INLET ID	TRIBUTARY AREA	SLOPE (%)	FLOW DEPTH (ft)	Q ₁₀₀ (cfs)	Q _{NT} (cfs)	Q _{VP} (cfs)	DI TYPE
DI#3	ON1 + ON2 + ON3 + ON4 + ON5 + ON6 + ON7 + ON8 + ON9 + ON10 + ON11 + ON16 + ON23 + ON24 + ON26	SUMP	0.33	15.0	15.0	0.0	15' TYPE DM2
DI#4	ON13 + ON14 + ON21 + ON22 + DI#5 BYPASS	0.50	0.41	4.9	4.9	0.0	7.5' TYPE DM2
DI#5	ON15 + ON17 + ON19 + ON25	0.64	0.41	5.5	4.6	0.9	7.5' TYPE DM2
DI#6	*DOF2 + ON20	SUMP	0.42	14.0	14.0	0.0	10' TYPE DM2

*Referenced/Revised from Montecito Study

STREET SECTION	TRIBUTARY BASINS	SLOPE (%)	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D ^{1/2} (ft ² /s)	Q ₁₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D ^{1/2} (ft ² /s)	DRY LANE
GMP	*CP1 + 1/2 GMP + ON12	0.70	118	1.04	4.86	5.05	40	0.77	3.33	2.56	
**H-6	**CP7 + **CP060 + ON18	1.50	92	0.78	5.69	4.44	33	0.53	4.58	2.43	YES

*Referenced/Revised from Montecito Study
**Referenced/Revised from Commercial Study
***Referenced/Revised from Park Study

DATE: 7/16/2024

CHECKED BY: MS

DRAWN BY: SS

DESIGNED BY: SS

SCALE: AS SHOWN

DATE: 7/16/2024

KHA PROJECT: 092935040

Kimley-Horn

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NO. _____

REVISIONS _____

DATE _____

BY _____

ONSITE PROPOSED CONDITION BASIN MAP

DURANGO & GRAND MONTECITO PREPARED FOR LENNAR HOMES

CITY OF LAS VEGAS NEVADA

PRO-2