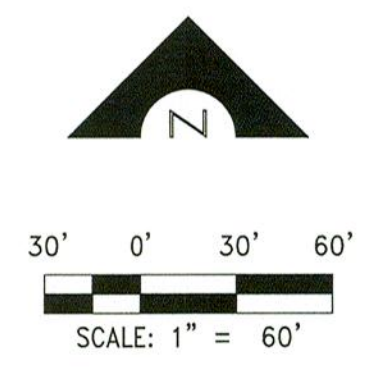




LEGEND

- ULTIMATE FLOW DIRECTION
- ULTIMATE SUBBASIN BOUNDARY
- - - PRORATED BASIN BOUNDARY
- UON17 ULTIMATE SUBBASIN BOUNDARY NAME
- PR1 PRORATED BASIN
- A — CROSS SECTION LOCATION
- - - - - EXISTING STORM DRAIN
- ==== PROPOSED STORM DRAIN



**ULTIMATE CONDITIONS
HEC-1 MODEL SUMMARY**

SUBBASIN OR CP	BASIN AREA (AC)	100 YR (cfs)
DON1	9.86	40
SKY2 *	3.78	17
NP-1 *	2.7	9
RES3 *	1.97	9
STAA *	0.44	2
CSTAA *	-	248
CP-1 *	93.32	270
FOX3 *	1.51	7
F *	10.44	43

NOTES:
* DRAINAGE CONCEPTUAL DRAINAGE STUDY FOR SUMMERLIN WEST VILLAGE 25 (DS 5104)

**PRORATED BASIN
STORM FLOW SUMMARY FOR DON1**

SUBBASIN OR CP	BASIN AREA (AC)	% OF DON1	100 YR (cfs)
PR1	1.81	18	7
PR2	0.97	10	4
PR3	1.54	16	6
PR4	1.13	11	5
PR5	2.22	22	9
PR6	2.20	22	9

**INLET SUMMARY
ULTIMATE CONDITION**

DROP INLET	BASINS	Q100 (cfs)	Q100 (INTERCEPT) (CFS)	Q100 (BYPASS) (CFS)
D#1	BYPASS FROM BASINS (D#2, D#3, D#4 & D#5)	13	13	-
D#2	PR1 + PR2	11	8	3
D#3	PR5	9	7	2
D#4	PR3 + PR4	11	6	5
D#5	PR6	9	6	3

**100-YEAR
OFFSITE HYDRAULIC SECTIONS**

Location	Slope (%)	Q ₁₀₀ (cfs)	D ₁₀₀ (ft)	V ₁₀₀ (ft/sec)	D*V ₁₀₀
FP1 **	8	2	0.2	0.9	0.2
PB1 ****	1.19	2	0.26	1.96	0.5
SV1 ***	7.5	4.5	0.31	1.7	0.5
FH1 ****	4.5	10	0.34	1.52	0.5
FH2 ****	1.45	17	0.45	1.48	0.7
FH3 ****	1.45	17	0.55	2.12	1.2

NOTES:
** Referenced from "TDS for Village 25 Redpoint Drive, Park Bluff Lane, Foxtail Pass Way Improvements (DS 5200)"
*** Referenced from "TDS for Village 25 Sky Vista Drive Improvements (Redpoint Drive to Kettle Ridge Drive)" (DS 5187)
**** Referenced from "TDS for Village 25 Fox Hill Drive Improvements (Sky Vista Drive to Grand Park Boulevard)" (DS 5218)
***** Flow Rate at Section PB1 is 17.3% of offsite basin RES3

**100-YEAR
ONSITE HYDRAULIC SECTIONS**

LOCATION	SLOPE %	Q ₁₀₀ (CFS)	D ₁₀₀ (FT)	V ₁₀₀ (FPS)	D*V ₁₀₀	PRORATED BASINS
SECTION 1	3.00	7	0.27	3.8	1.0	PR1
SECTION 2A	7.38	7	0.28	6.69	1.9	PR1
SECTION 3	3.70	4	0.22	3.76	0.8	PR2
SECTION 4A	5.45	11	0.34	6.39	2.2	PR1 + PR2
SECTION 4B	5.45	9	0.31	6.4	2.0	PR6
SECTION 5A	1.30	10	0.45	3.45	1.6	BYPASS FROM (D12+D13+D14)
SECTION 5B	2.03	3	0.26	3.43	0.9	PR6
SECTION 6A	1.09	9	0.42	2.96	1.2	PR5
SECTION 6B	3.83	11	0.35	5.86	2.1	PR3 + PR4
SECTION 7A	7.50	6	0.27	6.31	1.7	PR3

ARCADIA SUMMERLIN
V25 PARCEL N
WOODSIDE HOMES

FIGURE 6
ULTIMATE CONDITION

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