

F

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V

K

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M

O

P

Q

R

SEWOOD

GENTRY

PICKWICK

PARK HILLS

NIXON

PLEASANT

PLEASANT

MICHELE CHRIS

ASHWORTH

KRISTY

ROCKWAY

HUBBARD

HATLEY

ROCK

VANCE

ALMARION



Figure 7 - Flow Analysis Design Points Map

Table 2 - Existing Conditions Summary²

Discharge Point	Location Description	Cumulative Areas	Q _{1yr} (cfs)	Q _{2yr} (cfs)	Q _{25yr} (cfs)	Q _{50yr} (cfs)	Q _{100yr} (cfs)
1	Channel behind 303 Nixon Dr.	DA(1+2+3+4+5+6)	29.7	170.3	456.9	542.1	634.3
2	Downstream of Nixon Dr.	DA(3+4+5+6)	11.7	67.6	181.9	215.8	252.5
3	NE Corner Nixon/Pleasant Dr.	DA(5)	10.8	63.8	172.7	205.1	240.1
4	Pleasant Dr. near intersection	DA(4+6)	10.5	60.5	162.7	193.1	226.0
5	Pleasant Dr.	DA(6)	5.8	32.5	86.6	102.6	120.0
6	Hatley Dr. near Nixon Dr.	DA(7+8)	0.6	2.8	6.6	7.7	8.9

Table 3 - Ultimate Conditions (20% Increase Impervious Cover)

Discharge Point	Location Description	Cumulative Areas	Q _{1yr} (cfs)	Q _{2yr} (cfs)	Q _{25yr} (cfs)	Q _{50yr} (cfs)	Q _{100yr} (cfs)
1	Channel behind 303 Nixon Dr.	DA(1+2+3+4+5+6)	32.8	175.3	461.6	546.6	638.6
2	Downstream of Nixon Dr.	DA(3+4+5+6)	12.9	69.7	183.7	217.6	254.2
3	NE Corner Nixon/Pleasant Dr.	DA(5)	12.0	65.8	174.5	206.9	241.8
4	Pleasant Dr. near intersection	DA(4+6)	11.6	62.4	164.4	194.8	227.6
5	Pleasant Dr.	DA(6)	6.5	33.5	87.5	103.5	120.9
6	Hatley Dr. near Nixon Dr.	DA(7+8)	0.6	2.8	6.6	7.7	8.9

Table 4 - Flow Comparison (Existing vs. Ultimate)

Discharge Point	Location Description	Roadway Width	Q _{1yr} (cfs)	Q _{2yr} (cfs)	Q _{25yr} (cfs)	Q _{50yr} (cfs)	Q _{100yr} (cfs)
1	Channel behind 303 Nixon Dr.	DA(1+2+3+4+5+6)	+3.1	+5.0	+4.7	+4.5	+4.3
2	Downstream of Nixon Dr.	DA(3+4+5+6)	+1.2	+2.1	+1.8	+1.8	+1.7
3	NE Corner Nixon/Pleasant Dr.	DA(5)	+1.2	+2.0	+1.8	+1.8	+1.7
4	Pleasant Dr. near intersection	DA(4+6)	+1.1	+1.9	+1.7	+1.7	+1.6
5	Pleasant Dr.	DA(6)	+0.7	+1.0	+0.9	+0.9	+0.9
6	Hatley Dr. near Nixon Dr.	DA(7+8)	+0.0	+0.0	+0.0	+0.0	+0.0

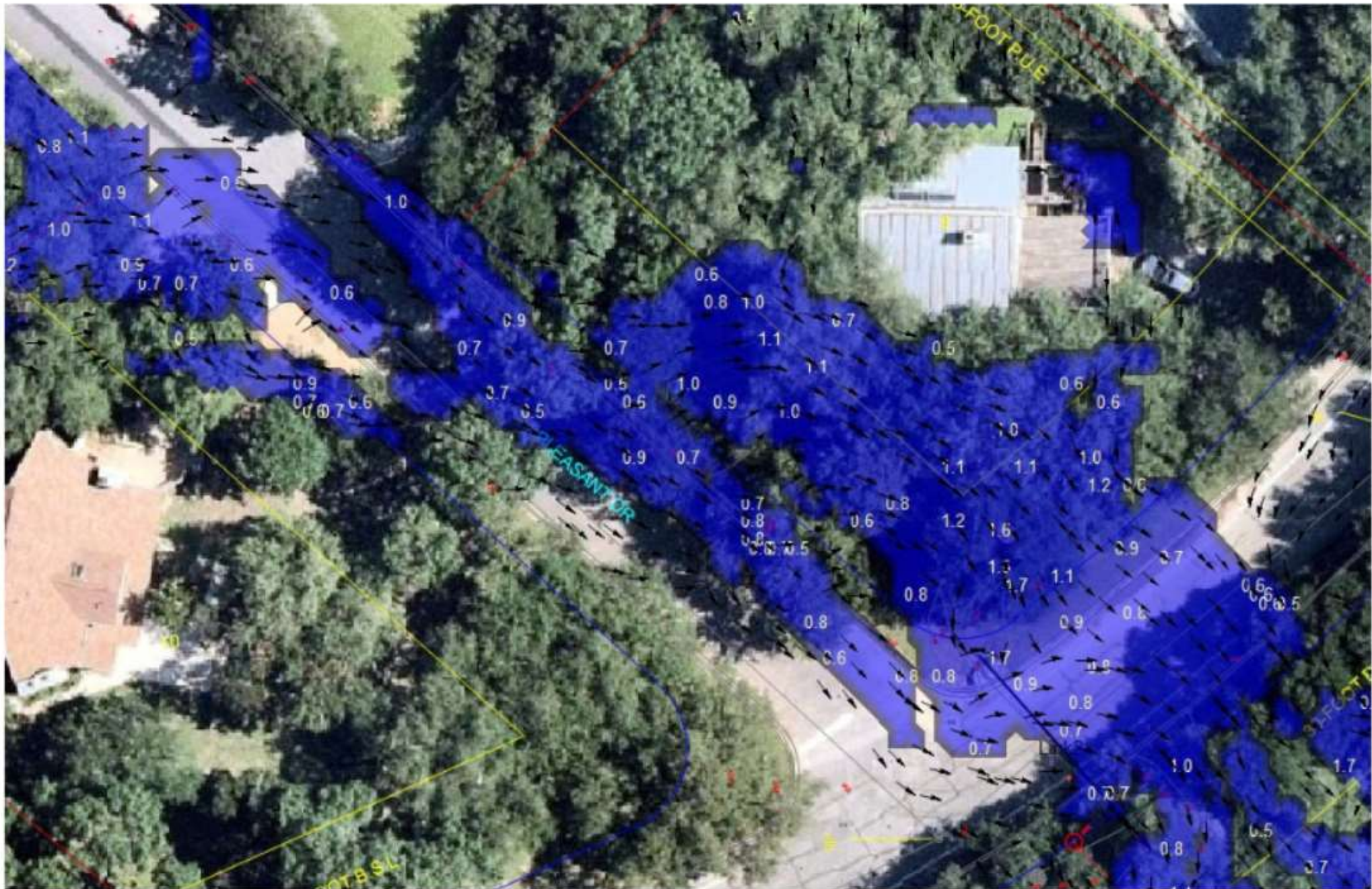


Figure 8 - General Overland Flow Patterns vs. Depth for 25-Year Ultimate (Informational Only, 3-ft grid)

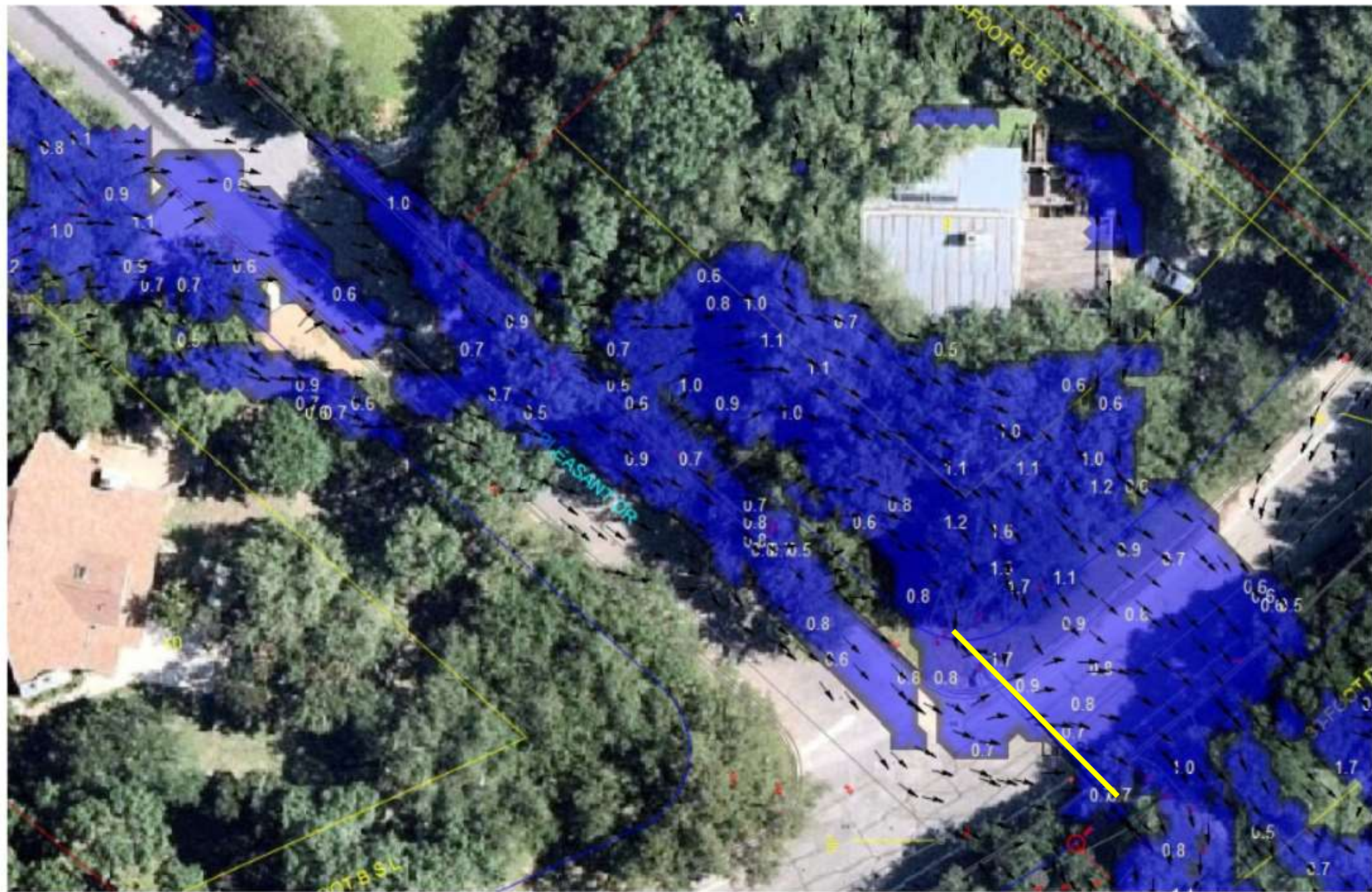
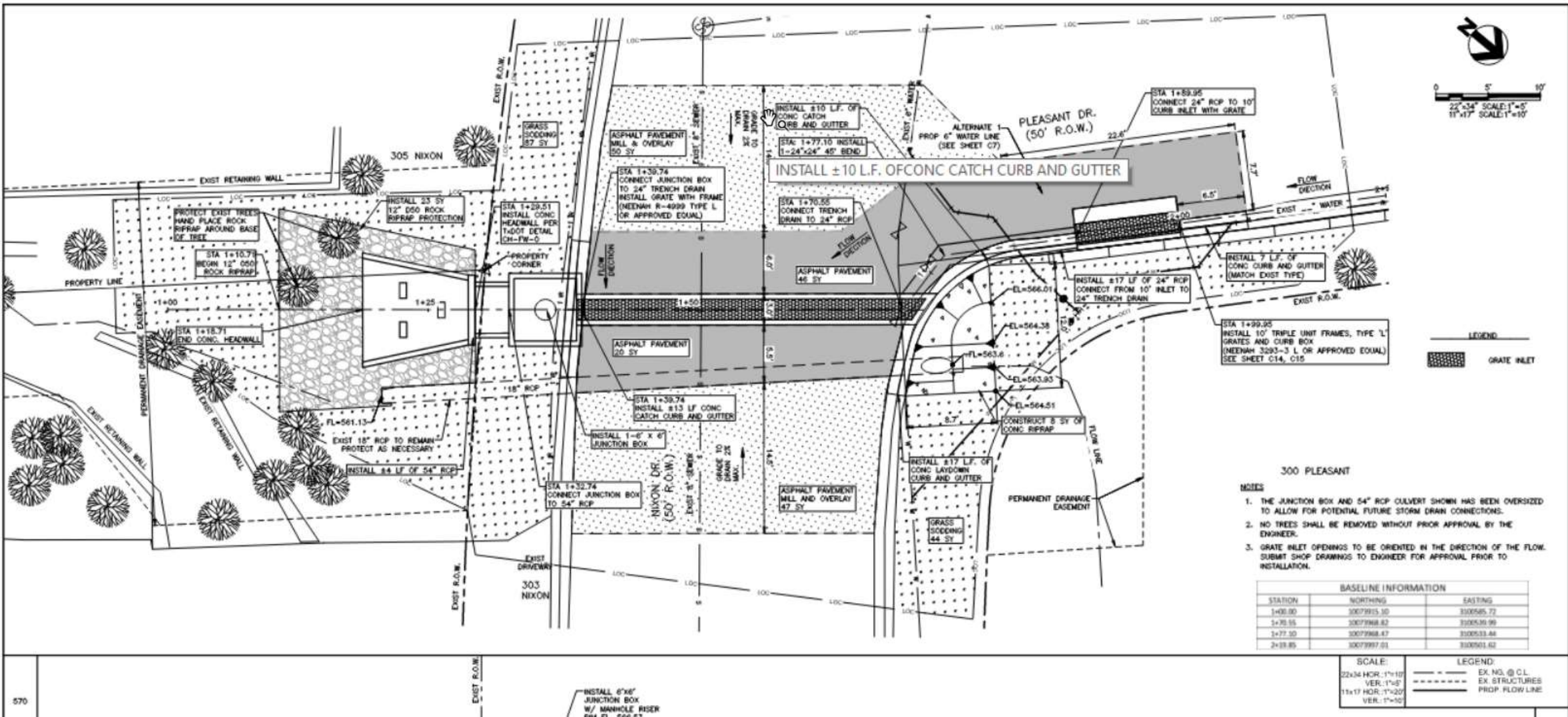


Figure 8 - General Overland Flow Patterns vs. Depth for 25-Year Ultimate (Informational Only, 3-ft grid)





Park Hills Dr

Nixon Dr

Pleasant Dr

Pleasant Cove

Ashworth Dr

Halley Dr

Pickwick Ln

Hubbard Ct

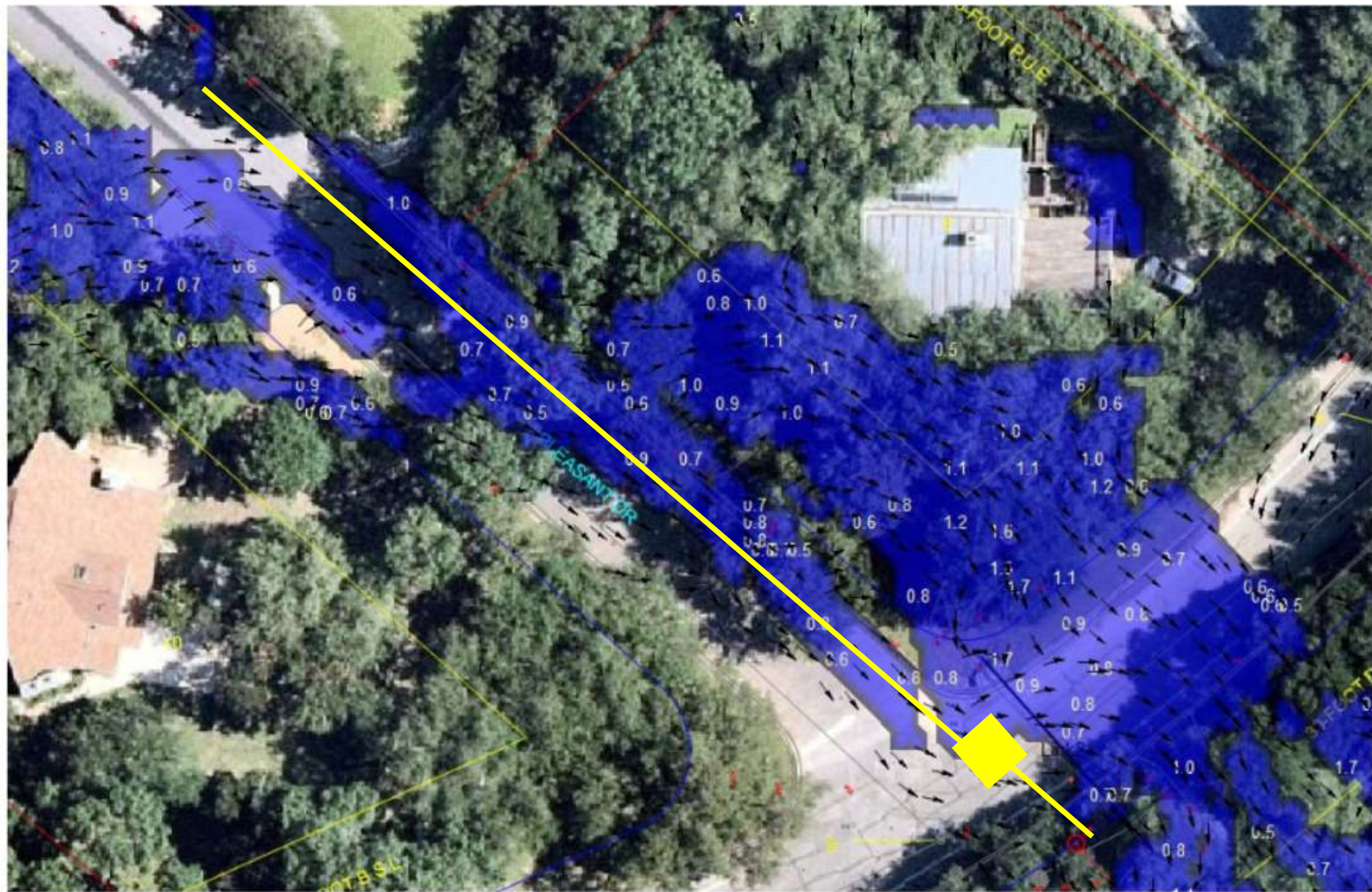


Figure 8 - General Overland Flow Patterns vs. Depth for 25-Year Ultimate (Informational Only, 3-ft grid)