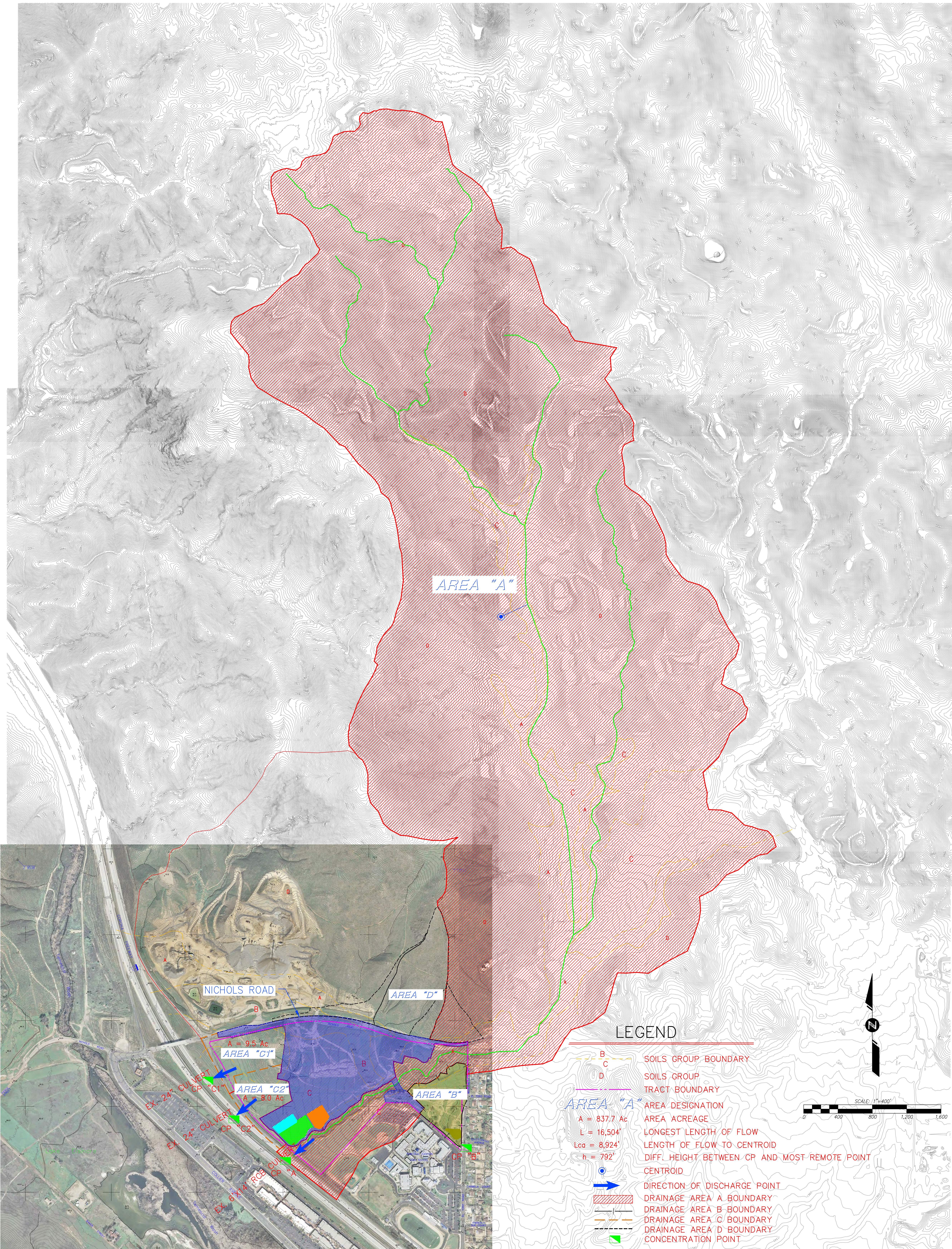


FIGURE 3
Stovepipe Creek Hydrograph Area Map – Proposed Conditions



Stovepipe Canyon Creek tributary to existing 6'x14' Caltrans Culvert
Summary of Unit Hydrograph Peak Discharge Area A (837.7 Ac):

Storm Event	Peak Discharge (cfs)		
	1-hour	3-hour	24-hour
100-year	1,135	918	843

Drainage Areas C-1 and C-2 to existing 24" Caltrans Culvert
Based on 1.4 cfs/Ac for 10-year storm and 2.26 cfs/Ac for 100-year storm in existing condition:
Based on 1.87 cfs/Ac for 10-year storm and 3.02 cfs/Ac for 100-year storm in proposed condition (commercial):

Area	Acre (Ac)	Peak discharge 10-year storm (cfs)	Peak Discharge 100-year storm (cfs)
C-1	5.8 (commercial)	10.85	17.52
C-2	3.7 (existing)	5.18	8.36
C-2	5.8 (commercial)	10.85	17.52
C-2	2.2 (existing)	3.08	4.97

Drainage Area B - proposed (8.4 Ac)

Storm Frequency	Proposed Q ₁₀₀ (cfs)
100-year 1-hour	26.34
100-year 3-hour	16.60
100-year 6-hour	15.46
100-year 24-hour	6.54

See Figure 6 for On-site Hydrology Map:
Summary Hydrology Drainage Area D, Proposed Condition - Rational Method 100-year storm:

Drainage Area	Area in Acre	Q ₁₀₀ sub-area in cfs	Q ₁₀₀ confluence in cfs
D-1	4.60	13.41	
D-2	2.10	5.98	19.39
D-3	15.00	40.97	60.36
D-4	4.20	10.81	71.17

See Figure 5 for Hydrology Map Area D

NICHOLS ROAD PROJECT
HYDROGRAPH AREAS MAP
PROPOSED CONDITION
FIGURE 3