## LEGEND

DF'X'

35%

/ xx ----

XX 🗲

/ PM7

88.0

OF CURRENT STUDY XISTING STORM DRAIN EXISTING STORM DRAIN INLET EXISTING STORM DRAIN MANHOLE PROPOSED STORM DRAIN

RENT SUB-BASIN BOUNDARY

PROPOSED DETENTION FACILITY DETENTION FACILITY IDENTIFICATION

SIGNIFIES ON SITE DETENTION REQUIREMENT OF 35% OF Q100 DEVELOPED - Q100 UNDEVELOPED FOR ALL NON-RESIDENTIAL PROPERTY EXCLUSIVE OF STREET RIGHT-OF-WAY WITHIN THE SUB-BASIN ANALYSIS POINT (AP XX)

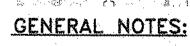
DRAINAGE BASIN BOUNDARY

REVIOUS MAJOR DRAINAGE BASIN BOUNDARY (1988 DBPS)

BASIN IDENTIFICATION BASIN ACRES

EXISTING 10 FOOT CONTOUR EXISTING 2 FOOT CONTOUR PC 1 PINE CREEK STUDY REACH IDENTIFICATION KEYED NOTE REFERENCE

GENERAL PROPOSED DIRECTION OF DRAINAGE FLOW



Regional Detention Facility "C" Water Quality Retrofit

- 1. FUTURE STORM DRAINS SHOWN ON THIS PLAN ARE ONLY INTENDED TO INDICATE GENERAL LOCATIONS AND APPROXIMATE SIZES OF FUTURE FACILITIES. ACTUAL STORM DRAIN SIZES AND LOCATIONS SHALL BE DETERMINED WITH MORE DETAILED ANALYSIS AT THE TIME OF DETAILED DESIGN OF THE FACILITIES, IT IS LIKELY THAT ADDITIONAL FACILITIES NOT SHOWN ON THIS PLAN WILL BE REQUIRED.
- 2. PROPOSED DETENTION FACILITIES SHOWN ON THIS PLAN ARE ONLY INTENDED TO INDICATE GENERAL LOCATIONS AND LAND AREA REQUIRED FOR THESE FACILITIES. ACTUAL LOCATION AND LAND AREA REQUIRED SHALL BE DETERMINED AT THE TIME OF DETAILED DESIGN OF THE FACILITIES.
- 3. EXCEPT AS OTHERWISE NOTEO, THIS PLAN SHALL NOT MODIFY THE REQUIREMENTS OF PREVIOUSLY APPROVED MASTER DEVELOPMENT DRAINAGE PLANS AND FINAL DRAINAGE REPORTS.
- 4. THE AREA ABOVE POWERS BOULEVARD SHOULD BE RE-EXAMINED AS MORE DETAIL ABOUT LAND PLANNING IS KNOWN. ADDITIONAL DETENTION FACILITIES LOCATED HIGHER IN THE WATERSHED SHOULD BE CONSIDERED.

KEYED NOTES:

/18\

**F7** 

33.5

ESEARC

Cotton wood creek

drainage basin

2) SECTION OF PINE CREEK TO BE ELIMINATED.

CS3 34 0 (CN2) 50.0



(PC 5) LEAVE NATURAL WITH BED AND BANK STABILIZATION.

PC 6 LEAVE NATURAL WITH BED AND BANK STABILIZATION. PC 7 LEAVE NATURAL WITH BED AND BANK STABILIZATION.

\*\* ACTUAL TREATMENT REQUIREMENT TO BE DETERMINED WITH FUTURE DETAILED HYDRAULIC ANALYSIS. - NATURAL CHANNEL WILL REQUIRE MONITORING TO VERIFY PERFORMANCE AFTER DEVELOPMENT OCCURS.

EXCEPT FOR THE REACHES NOTED ABOVE, PINE CREEK CHANNEL WILL BE BY-PASSED WITH STORM DRAIN CONVEYANCES AND ELIMINATED WITHIN THE STUDY AREA.

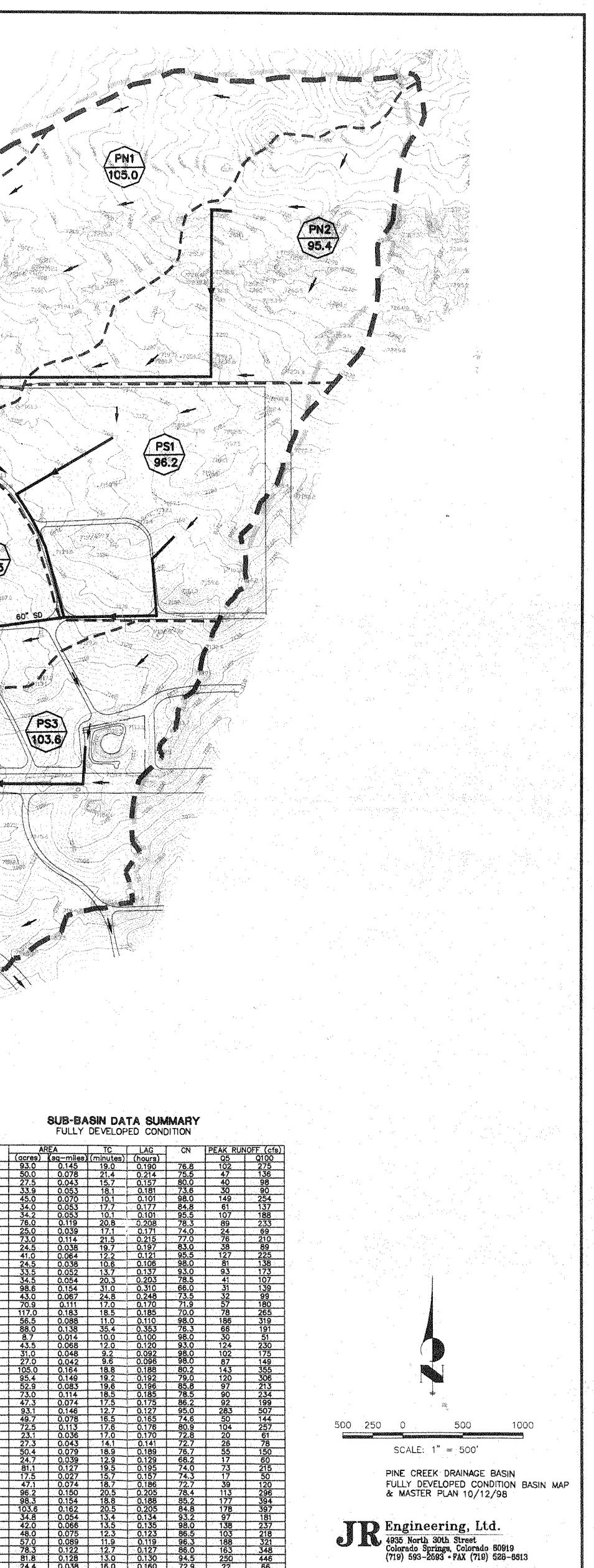
2 PLANNING ONDITION TER PLAN	STUDY		
	KETTLE CREEK KETTLE GE BASIN DRAWNAGE BASIN	PN4 73.0 1 73.0 1 73.0 73.0 73.0	
PN7 49.7 49.7 FOR E S IO'RXID'S C IO'RXID'S C IO'RXID'S C IO'RXID'S C IO'RXID'S C IO'RXID'S C IO'RXID'S C IO'RXID'S C	BC	PN3 52.9	PS2 98,3
PS10 24.4 9 12 50 12 50 12 50 12 50 12 50 12 50 12 50 12 50 12 50 12 50	PS9 81.8 96° 50 72° 50	42.0 A2.0 A2.0 COTTON WOOL	PS4 JA.8
	AND BUT THE REAL PROVIDE THE REAL PROVID	DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E DRAINAGE E CONDITIONAGE E CONDITION CONTROLOGIES CONDITION CONTROLOGIES APOINT Δ (acres) (sq-miles) (cfs) (cfs) AP1 198 0.31 262 657 AP2 256 0.40 356 866 AP3 371 0.58 532 1285 AP1 198 0.31 262 657 AP2 256 0.40 356 866 AP3 371 0.58 532 1285 APDFG 467 0.73 770 1747 APDFG 467 0.73 770 1747 APDFF 589 0.92 269 578 APDFF 589 0.92 269 578 APDFE 800 1.25 307 724 AP5 864 1.35 181 368 AP5A 1702 2.66 342 654 APDFD 301 0.47 464 1073 AP6 378 0.59 247 470 AP7 422 0.66 349 681 AP7A 480 0.75 532 9382 AP9 640 1.00 935 1778 APDFC 666 1.04 956 1840	IMMARY BASIN

## RFACE FLOW AP24 SURFACE FLOW NA Victor .4 0.46 461 586 TOTAL 1.55 NA 461 PIPE FLOW NA 125 SURFACE FLOW 4.43 1297 2809 TOTAL POND 4.88 1147 TOTAL FLOW

## REGIONAL DETENTION FACILITY DATA SUMMARY FULLY DEVELOPED CONDITION

DETENTION FACILITY	PEAK INFLOW (cfs)		PEAK OUTFLOW (cfs)		ESTIMATED PEAK STORAGE (ac-ft)	
1.D.	Q5	Q100	Q5	Q100	V5	V100
A	102	275	5	9	4	11
B	233	506	159	247	5	14
C	956	1840	153	227	33	69
Ð	464	1073	57	99	16	41
E	307	724	177	265	7	19
F	269	578	170	239	4	18
G	770	1747	165	250	23	60
No. 1	1297	2809	488	1147	47	96

ANALYSIS POINTS NOTE: ANALYSIS POINTS CONTAINED IN THE HEC-1 MODEL AND IN THE ABOVE TABLE ARE SHOWN ON THE MAP WITHOUT THE PREFIX "AP."



 0.38
 16.0
 0.160
 72.9
 22

 056
 17.3
 0.172
 80.3
 51
 1

 153
 23.3
 0.233
 68.5
 52
 4

 PS11
 35.7
 0.056

 PS12
 98.0
 0.153

 PS13
 41.9
 0.065

 TOTAL
 2934.0
 4.584

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