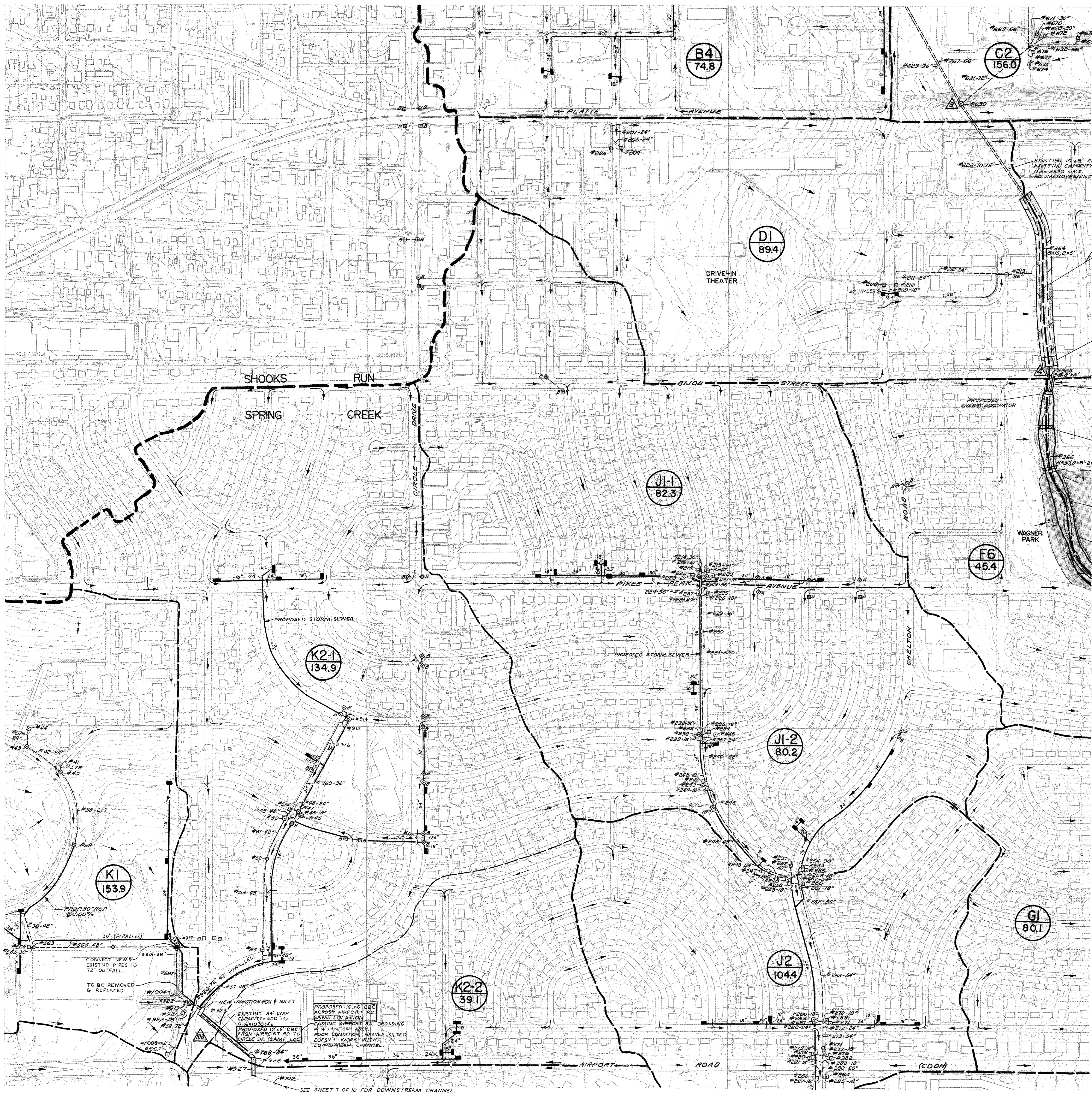


The maps and photographs included in this report were developed for purposes of the Colorado Springs Department of Utilities and are for internal use only. The Colorado Springs Department of Utilities makes no warranty, expressed or implied, as to the completeness, accuracy, or content of such products or any reproductions thereof. Any other use is not recommended and occurs at the risk of the user; such user is solely responsible and/or liable for the use of such products.

Original maps and photographs are the property of the Colorado Springs Department of Utilities. All rights are reserved. These maps and photographs or any associated records may not, wholly or in part, be reproduced, stored, or transmitted in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the express prior written permission of the Colorado Springs Department of Utilities.

Regardless of the existence of purported copies of these official maps and photographs which may from time to time be made or published, there is only one set of official maps and photographs, which are those kept and maintained by the Colorado Springs Department of Utilities.



MAIN CHANNEL FLOWS FROM LARGER SUBBASIN COMPUTER MODEL (REC-1)		
DESIGN POINT	LOCATION / DESCRIPTION	PEAK FLOW (CFS)
3	PLATTE AVENUE	2,700
14	BIRD STREET	2,192

TRIBUTARY CHANNEL FLOWS FROM 100 ACRE SUBBASIN COMPUTER MODEL		
DESIGN POINT	LOCATION / DESCRIPTION	PEAK FLOW (CFS)
10B	AIRPORT ROAD BY CIRCLE DR.	1,070

RATIONAL METHOD PEAK FLOWS				
BASIN	AC	Tc (MIN)	INTENSITY (IN/HR)	Q100 (CFS)
B4	0.77	14.1	6.0	346
C2	0.88	17.0	5.6	759
DI	0.87	20.8	5.9	759
F6	0.63	13.8	6.1	374
G1	0.74	14.8	5.9	380
J1-1	0.69	16.8	5.6	318
J1-2	0.63	20.6	5.0	253
J2	0.58	20.4	5.1	309
K1	0.90	24.5	4.6	566
K2-1	0.69	23.5	4.7	412
K2-2	0.66	14.7	5.9	391

SPRING CREEK DBPS	
OVERALL BASIN	CONTRIBUTING SUBBASINS
BASIN A	A1, A2, B1, B2, B3, B4, B5, C1, C2
BASIN B	D1, D2, E1, F5
BASIN C	F1, F2, F3, F4, F7, F8
BASIN D	F5, G1, G2, G3, G4, G5
BASIN E	H1, H2
BASIN F	I1, J1, J2, J3
BASIN G	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, K26, K27, K28, K29, K30, K31, K32, K33, K34, K35, K36, K37, K38, K39, K40, K41, K42, K43, K44, K45, K46, K47, K48, K49, K50, K51, K52, K53, K54, K55, K56, K57, K58, K59, K60, K61, K62, K63, K64, K65, K66, K67, K68, K69, K70, K71, K72, K73, K74, K75, K76, K77, K78, K79, K80, K81, K82, K83, K84, K85, K86, K87, K88, K89, K90, K91, K92, K93, K94, K95, K96, K97, K98, K99, K100
BASIN H	M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100
BASIN I	N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22, N23, N24, N25, N26, N27, N28, N29, N30, N31, N32, N33, N34, N35, N36, N37, N38, N39, N40, N41, N42, N43, N44, N45, N46, N47, N48, N49, N50, N51, N52, N53, N54, N55, N56, N57, N58, N59, N60, N61, N62, N63, N64, N65, N66, N67, N68, N69, N70, N71, N72, N73, N74, N75, N76, N77, N78, N79, N80, N81, N82, N83, N84, N85, N86, N87, N88, N89, N90, N91, N92, N93, N94, N95, N96, N97, N98, N99, N100
BASIN J	O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11, O12, O13, O14, O15, O16, O17, O18, O19, O20, O21, O22, O23, O24, O25, O26, O27, O28, O29, O30, O31, O32, O33, O34, O35, O36, O37, O38, O39, O40, O41, O42, O43, O44, O45, O46, O47, O48, O49, O50, O51, O52, O53, O54, O55, O56, O57, O58, O59, O60, O61, O62, O63, O64, O65, O66, O67, O68, O69, O70, O71, O72, O73, O74, O75, O76, O77, O78, O79, O80, O81, O82, O83, O84, O85, O86, O87, O88, O89, O90, O91, O92, O93, O94, O95, O96, O97, O98, O99, O100

**DETENTION POND DATA**  
 Q100 IN = 3028 CFS  
 Q100 OUT = 2171 CFS  
 1/4 34.7 AC FT  
 MAX. W.S. = 6030.11

REBUILD 100' OF EXISTING CHANNEL TO TRANSITION INTO UPGRADED CROSSING.

EXISTING TRIPLE 8" x 5" CIRC EXISTING CAPACITY = 1972 cfs Q100 = 2787 cfs

EXISTING NATURAL CHANNEL, HEAVY VEGETATION EXISTING CAPACITY W/F-B = 11,194 cfs Q100 = 3612 cfs

PROPOSED DETENTION AREA LOW SLOPE BANK OR BENCH ON WEST SIDE WHERE VEGETATION DOES NOT ADEQUATELY STABILIZE. LOW FLOW CHANNEL, 8'-0" x 4'-0" x 0.5% USE EXISTING VEGETATION AS BANK LINING WHERE STABLE BURIED RIPRAP SHOULD BE PROVIDED WHERE STABILIZATION IS REQUIRED. MAXIMUM WATER SURFACE ELEV = 6030R

NOTE ALL PROPOSED INLETS ARE ASSUMED TO BE 12" D-10-R, UNLESS OTHERWISE NOTED.

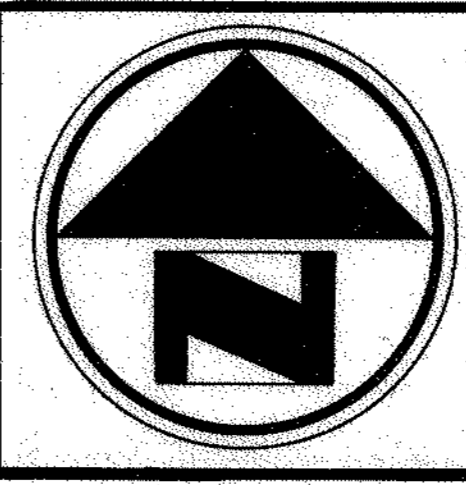
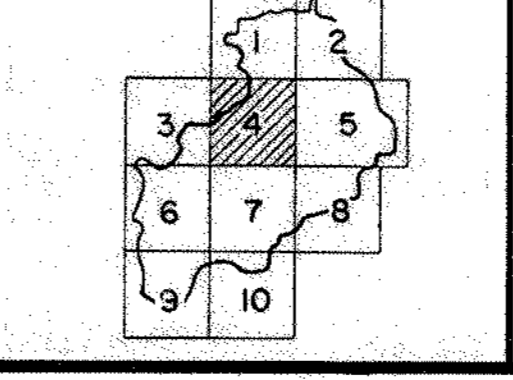
**LEGEND:**

- \* 1. STRUCTURAL FLOODWAY - concrete lined or rip-rap channels
- \* 2. OPEN WATER - ponds and reservoirs (excludes flowing channel)
- \* 3. MATURE RIPARIAN FOREST - cottonwood and willow along perennial drainages
- \* 4. RIPARIAN GRASSLAND - grass and shrub depressions in the floodplains of perennial drainages
- \* 5. HERBACEOUS WETLAND - low lying grassy and weedy areas along intermittent drainages
- \* 6. EMERGENT WETLAND - emergent wetlands along ponds or stream channels

**LEGEND:**

- (A2 501) BASIN DESIGNATION
- (501) BASIN AREA (AC.)
- ▲ DESIGN POINT
- MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY
- CITY LIMITS
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXIST. CROSS CULVERT OR BRIDGE
- PROP. CROSS CULVERT OR BRIDGE
- EXIST. BANK LINING WITH NO CHANGE
- EXIST. BANK LINING INCREASE DEPTH
- PROPOSED BANK LINING
- PROPOSED DROP STRUCTURE
- ENVIRONMENTAL CLASSIFICATION

**SHEET INDEX**



**PROJECT :**  
 SPRING CREEK DRAINAGE BASIN  
 PLANNING STUDY - DRAINAGE PLAN  
 SCALE : 1" = 200' CONTOUR INTERVAL = 2'  
 600 FIGURE 10 SHEET 4 OF 10