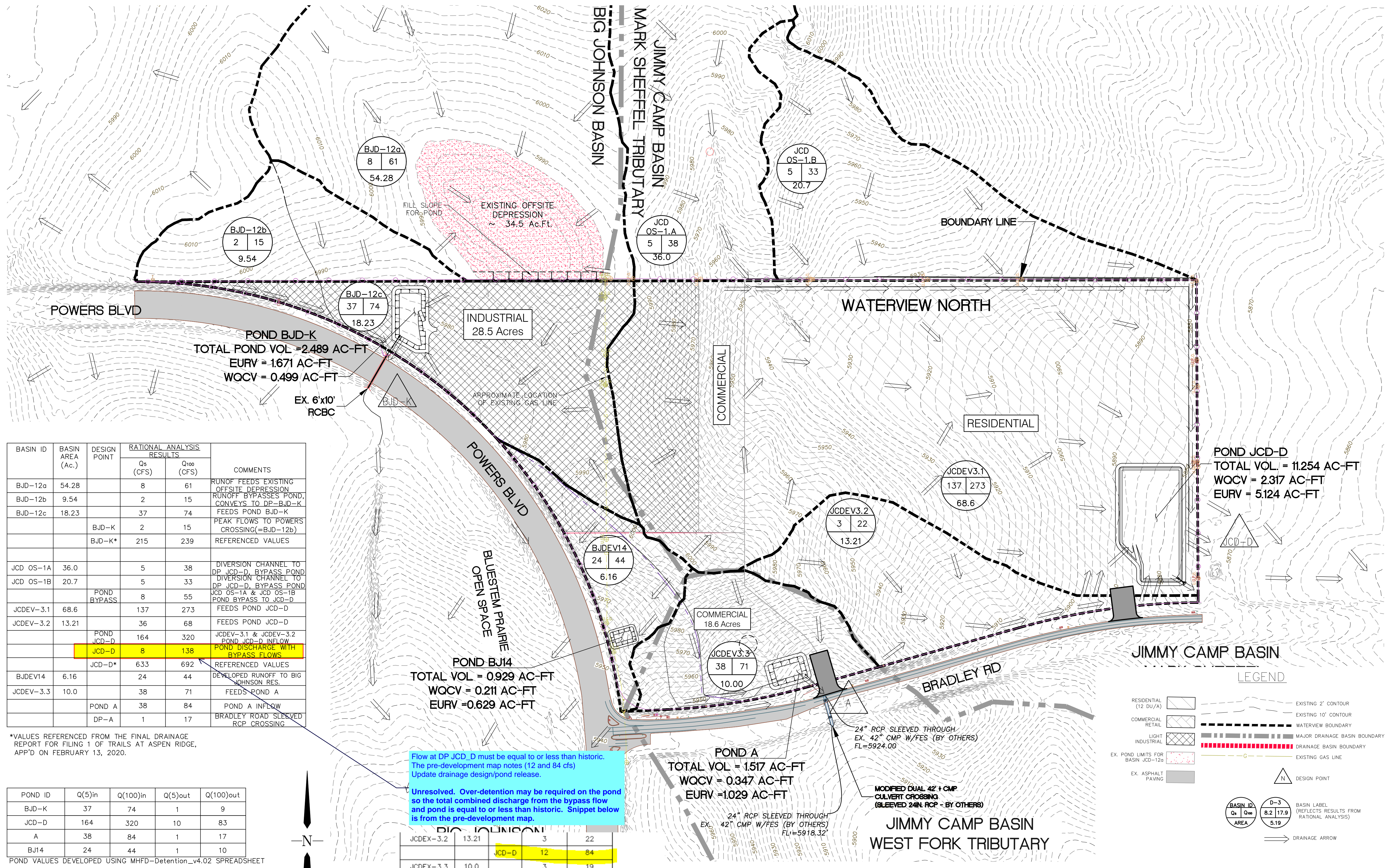


# POST DEVELOPMENT DRAINAGE PLAN

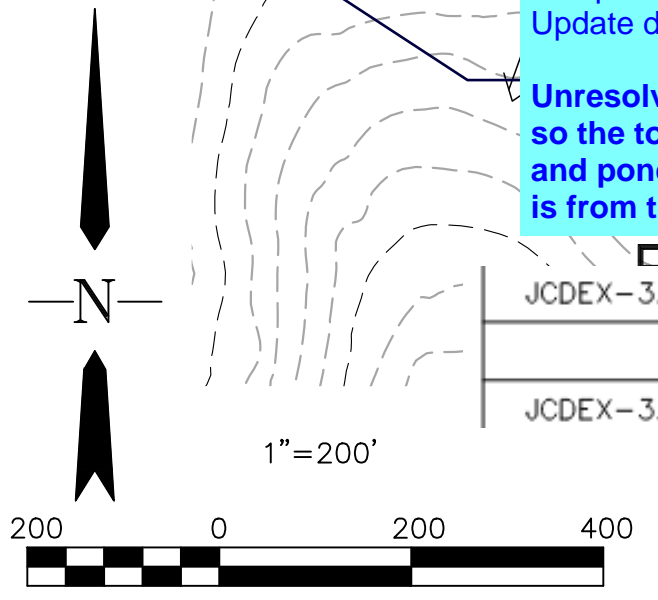


BASIN ID	BASIN AREA (Ac.)	DESIGN POINT	RATIONAL ANALYSIS RESULTS		COMMENTS
			Q <sub>s</sub> (CFS)	Q <sub>100</sub> (CFS)	
BJD-12a	54.28		8	61	RUNOFF FEEDS EXISTING OFFSITE DEPRESSION
BJD-12b	9.54		2	15	RUNOFF BYPASSES POND, CONVEYS TO DP-BJD-K
BJD-12c	18.23		37	74	FEEDS POND BJD-K
		BJD-K	2	15	PEAK FLOWS TO POWERS CROSSING(=BJD-12b)
		BJD-K*	215	239	REFERENCED VALUES
JCD OS-1A	36.0		5	38	DIVERSION CHANNEL TO DP JCD-D, BYPASS POND
JCD OS-1B	20.7		5	33	DIVERSION CHANNEL TO DP JCD-D, BYPASS POND
		POND BYPASS	8	55	JCD OS-1A & JCD OS-1B POND BYPASS TO JCD-D
JCDEV-3.1	68.6		137	273	FEEDS POND JCD-D
JCDEV-3.2	13.21		36	68	FEEDS POND JCD-D
		POND JCD-D	164	320	JCDEV-3.1 & JCDEV-3.2 POND JCD-D INFLOW
		JCD-D	8	138	POND DISCHARGE WITH BYPASS FLOWS
		JCD-D*	633	692	REFERENCED VALUES
BJDEV14	6.16		24	44	DEVELOPED RUNOFF TO BIG JOHNSON RES.
JCDEV-3.3	10.0		38	71	FEEDS POND A
		POND A	38	84	POND A INFLOW
		DP-A	1	17	BRADLEY ROAD SLEEVED RCP CROSSING

\*VALUES REFERENCED FROM THE FINAL DRAINAGE REPORT FOR FILING 1 OF TRAILS AT ASPEN RIDGE, APP'D ON FEBRUARY 13, 2020.

POND ID	Q(5)in	Q(100)in	Q(5)out	Q(100)out
BJD-K	37	74	1	9
JCD-D	164	320	10	83
A	38	84	1	17
BJ14	24	44	1	10

POND VALUES DEVELOPED USING MHFD- Detention\_v4.02 SPREADSHEET



Flow at DP JCD\_D must be equal to or less than historic. The pre-development map notes (12 and 84 cfs) Update drainage design/pond release.

Unresolved. Over-detention may be required on the pond so the total combined discharge from the bypass flow and pond is equal to or less than historic. Snippet below is from the pre-development map.

POND ID	Q(5)in	Q(100)in	Q(5)out	Q(100)out
JCDEV-3.2	13.21		3	22
JCD-D	12		84	
JCDEV-3.3	10.0		3	19

DSE Response: Updated chart to appropriate flows

POND JCD-D  
TOTAL VOL = 11254 AC-FT  
WQCV = 2.317 AC-FT  
EURV = 5.124 AC-FT

**LEGEND**

- RESIDENTIAL (12 DU/A)
- COMMERCIAL RETAIL
- INDUSTRIAL
- EX. ASPHALT PAVING
- EXISTING 2" CONTOUR
- EXISTING 10" CONTOUR
- WATERVIEW BOUNDARY
- MAJOR DRAINAGE BASIN BOUNDARY
- DRAINAGE BASIN BOUNDARY
- EXISTING GAS LINE
- DESIGN POINT
- BASIN LABEL (REFLECTS RESULTS FROM RATIONAL ANALYSIS)
- DRAINAGE ARROW

REVISIONS:			ENGINEER:		
NO.	DESCRIPTION	DATE	DESIGNED BY:	DATE:	
			CEB	11-05-20	
			CEB	11-05-20	
			CKC	11-05-20	

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS  
1-800-922-1987  
CITY OF COLORADO SPRINGS DEPT. OF UTILITIES GAS, ELECTRIC, WATER AND WASTEWATER

**DSE Dakota Springs Engineering**  
31 N. TEJON, SUITE 518  
COLORADO SPRINGS, CO 80903  
P: (719) 227-7388  
F: (719) 227-7392

PROJECT: WATerview NORTH  
SHEET TITLE: POST DEVELOPMENT DRAINAGE PLAN  
FROM: n/a TO: n/a  
JOB NO.: 02-19-05 SHEET: 3 OF 3