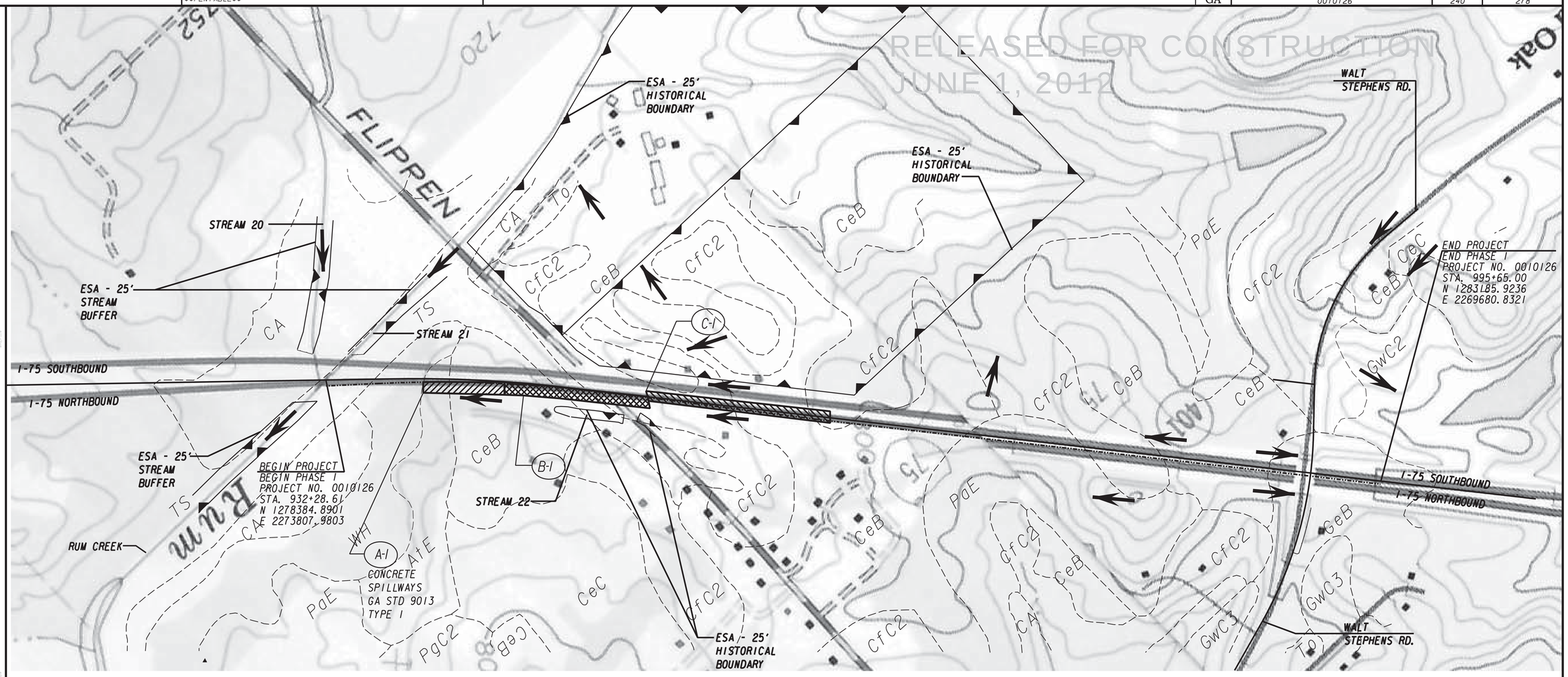
RELEASED FOR CONSTRUCTION
JUNE 1, 2012



DRAINAGE OUTFALLS

DRAINAGE STRUCTURE/ AREA NO.	STATION	SKEW ANGLE	SIZE	DRAINAGE AREA ACRES	DRAINAGE AREA SQ. MI.	DISTURBED AREA (AC)	EXISTING CONDITIONS CHANNEL SLOPE %	EXISTING C	Q10 (CFS)	Q50 (CFS)	Q100 (CFS)	V10 (FPS)	V50 (FPS)	V100 (FPS)	HW10 (CFS)	HW50 (CFS)	HW100 (CFS)	PROPOSED CONDITIONS CHANNEL SLOPE %	PROPOSED C	Q10 (CFS)	Q50 (CFS)	Q100 (CFS)	V10 (FPS)	V50 (FPS)	V100 (FPS)	HW10 (CFS)	HW50 (CFS)	HW100 (CFS)
A1	938+24 RT	-	2' CON FLUME	0.79	0.0012	0.27	*	*	*	*	*	*	*	*	***	***	***	5.77	0.95	4.58	5.76	6.29	**	**	**	***	***	***
B1	942+90 RT	-	18" SLOPE DRAIN	1.36	0.0021	0.45	*	*	*	*	*	*	*	*	***	***	***	5.00	0.95	7.88	9.92	10.83	**	**	**	***	***	***
C1	950+47 LT	-	15" STORM DRAIN	1.59	0.0025	0.90	4.86	0.75	7.27	9.16	10.00	5.93	7.47	8.14	***	***	***	4.86	0.95	9.21	11.60	12.66	7.51	9.45	10.32	***	***	***

TOTAL PROJECT AREA - 45.60 AC

TOTAL DISTURBED AREA - 9.78 AC

RECEIVING WATER - RUM CREEK

PHASE I NOTES:

* Drainage areas for A1 and B1 are not concentrated in the existing condition. The addition of the side barrier concentrates the flow.

** Structures B1 is a slope drain. Structure C1 is a GDOT 9013 flume. No velocities are calculated. Structure B1 is a GDOT 1025 headwall with baffles and Structure C1 will be constructed with the recommened splash block. Both structures will have sufficient rip rap to limit the exit velocities.

*** Structure A1 is a flume. Structures B1 and C1 are closed drainage systems. No head water elevations can be calculated.

Soil Legend

Map Unit Symbol	Map Unit Name
AtE	Ashlar sandy loam, very rocky, 10 to 25 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
CfC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded

Soil Legend

Map Unit Symbol	Map Unit Name
GeB	Gwinnett sandy loam, 2 to 6 percent slopes
PaE	Pacolet sandy loam, 10 to 25 percent slopes
WH	Wehadkee soils

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SCALE IN FEET
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REVISION DATES
09-12-2012

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL
I-75 NORTHBOUND AUXILIARY LANE PROJECT-PHASE I

DRAINAGE AREA MAP

DRAWING No. 53-001

3/1/2007 GPLN