









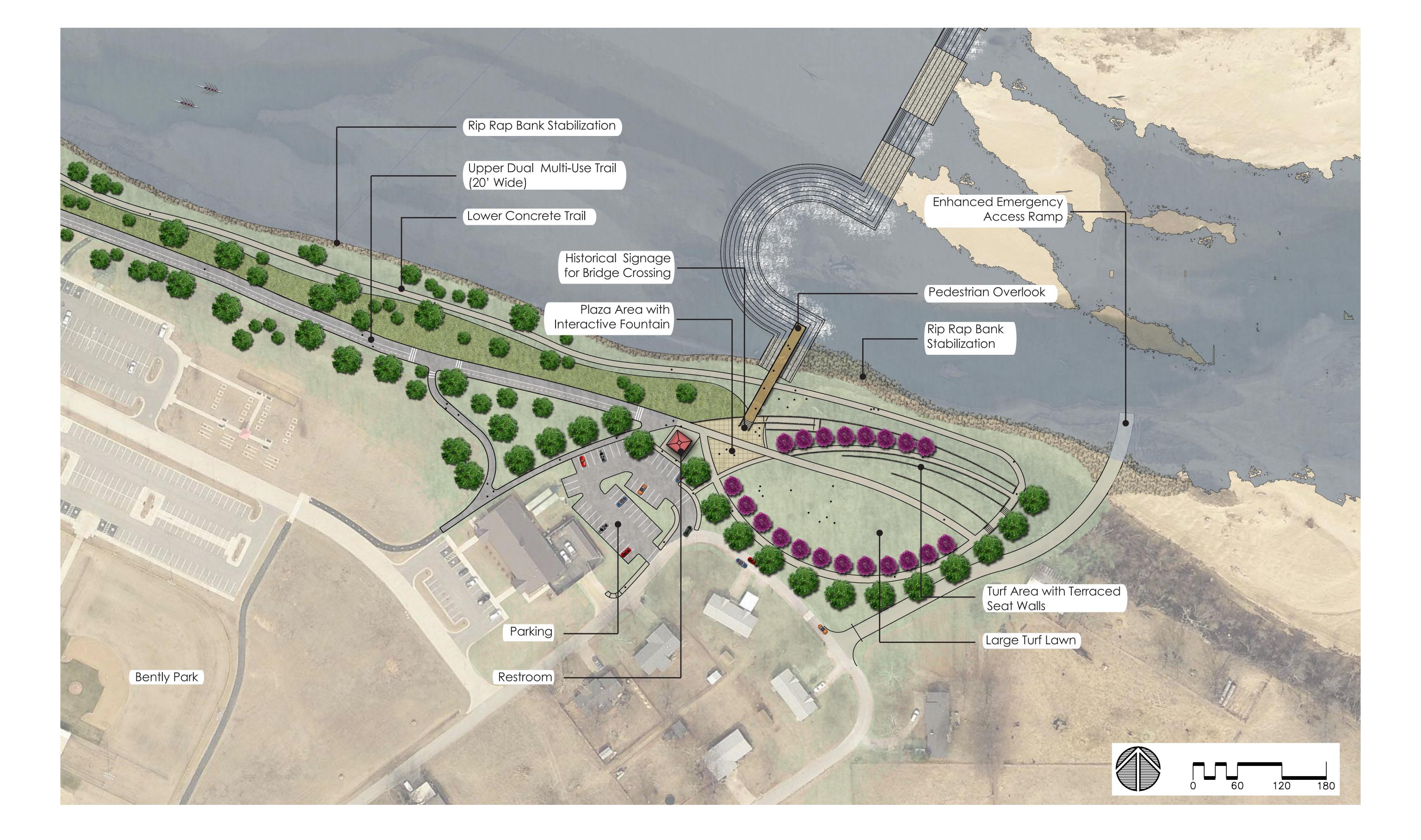


BIXBY NORTH BANK CONCEPT APRIL 2015





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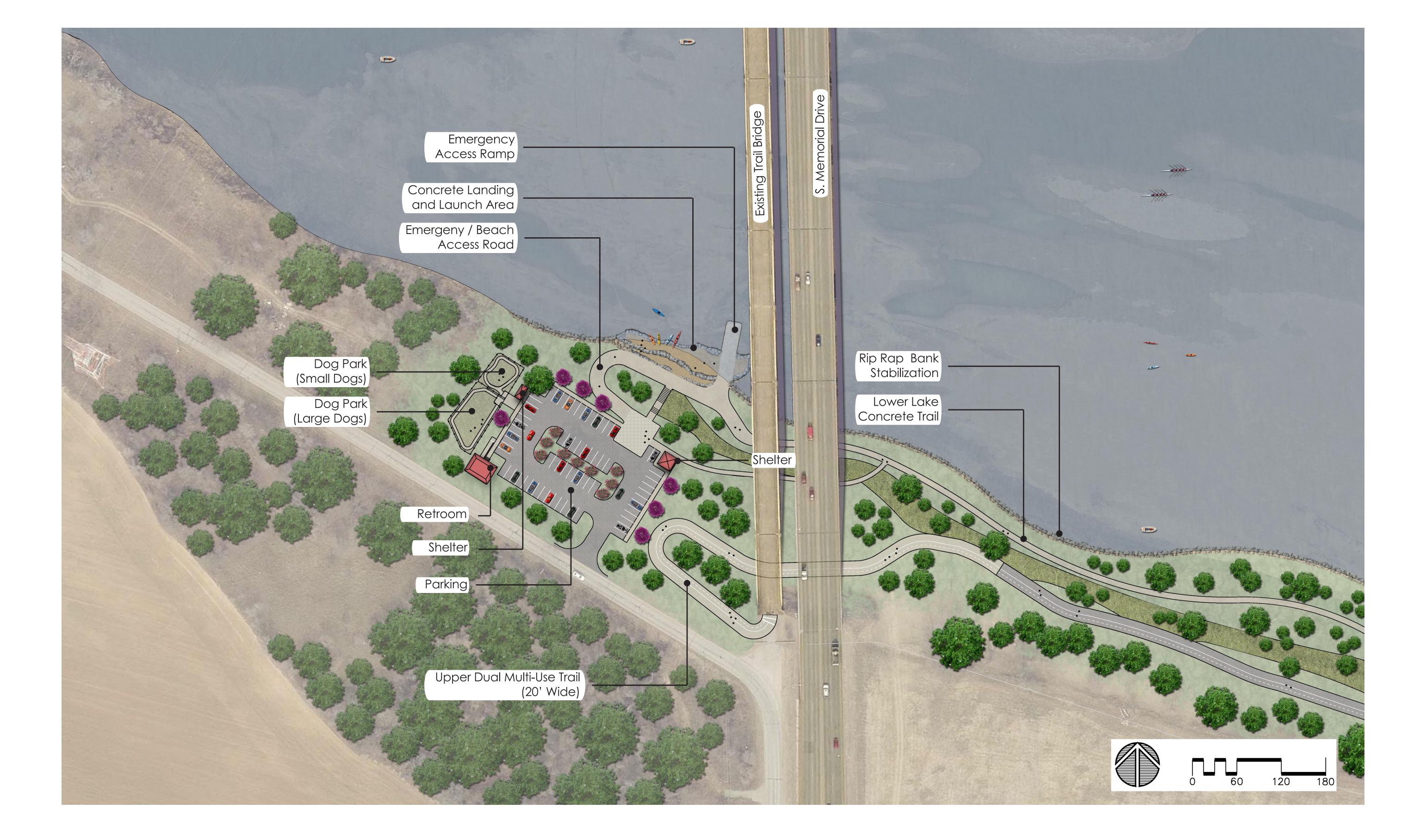








BIXBY SOUTH BANK CONCEPT APRIL 2015







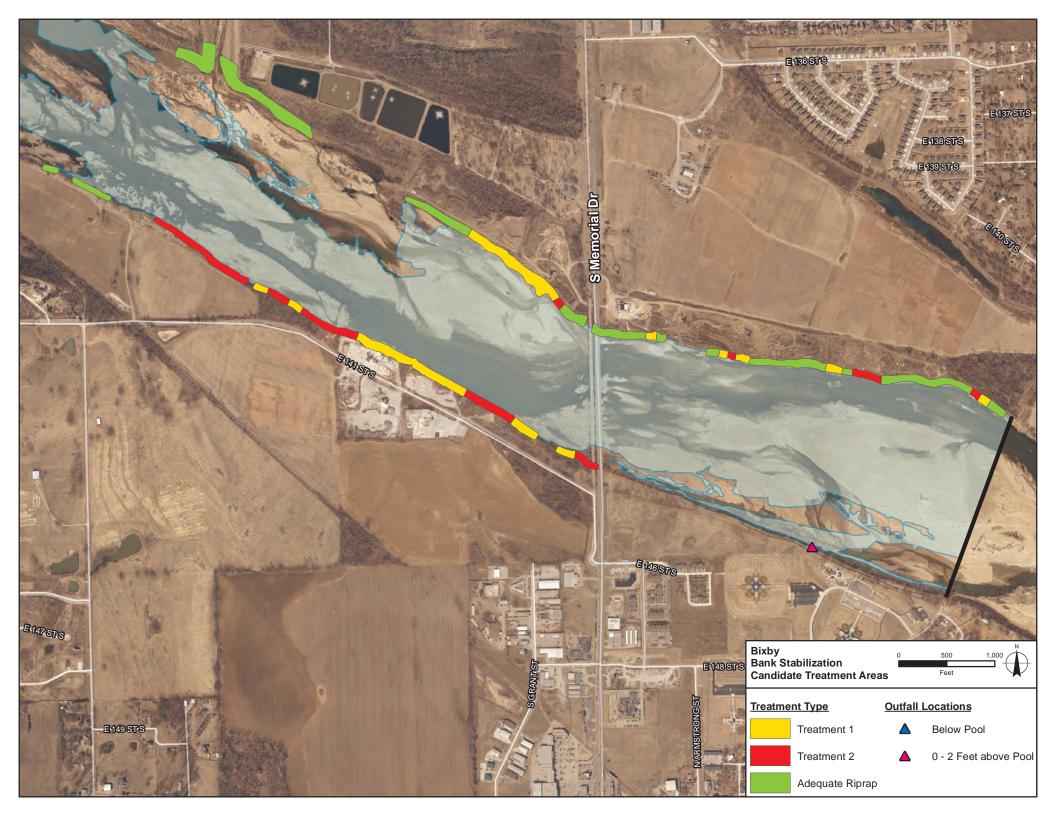


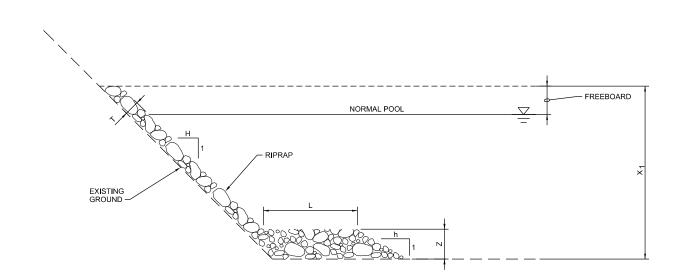




BIXBY MEMORIAL PUBLIC ACCESS CONCEPT

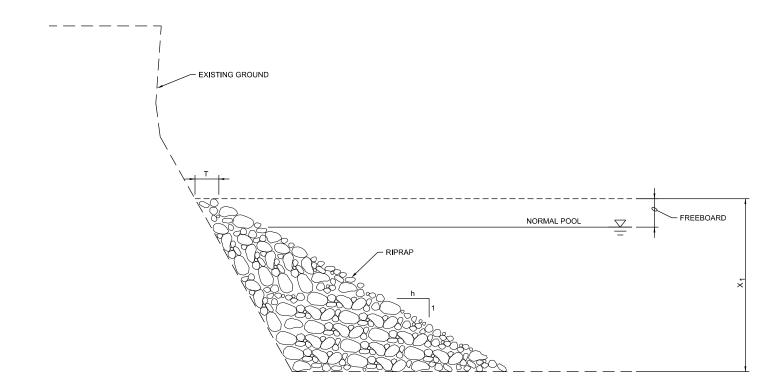
APRIL 2015





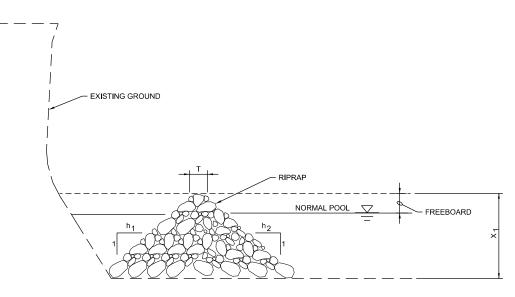
REVETMENT RIPRAP WITH LAUNCHABLE STONE TOE





STONE TOE WEDGE





LONGITUDINAL PEAKED STONE TOE



NOTES:

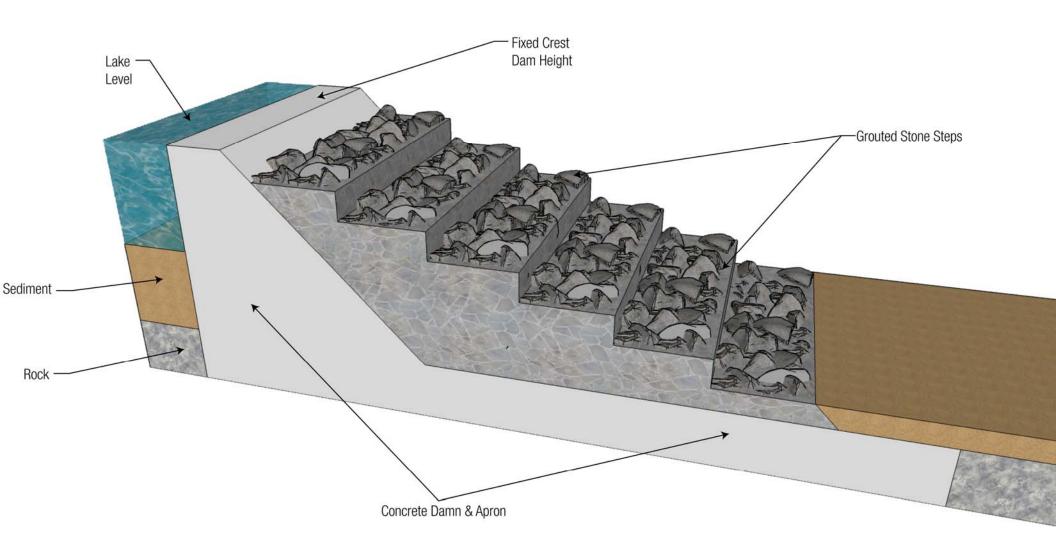
- 1. ALL TRASH AND WOODY DEBRIS SHOULD BE REMOVED FROM BANK FACE AND TOE WITHIN THE RANGE OF X1 AND THE FOOTPRINT OF TREATMENT PRIOR TO INSTALLING RIPRAP.
- 2. DIMENSION X1 IS A FUNCTION OF THE TREATMENT LOCATION / STATION ALONG THE RIVER. FOR OTHER TREATMENT DIMENSIONS USED FOR COST-ESTIMATING PURPOSES, REFER TO THE "BANK TREATMENT DIMENSIONS" TABLE BELOW.

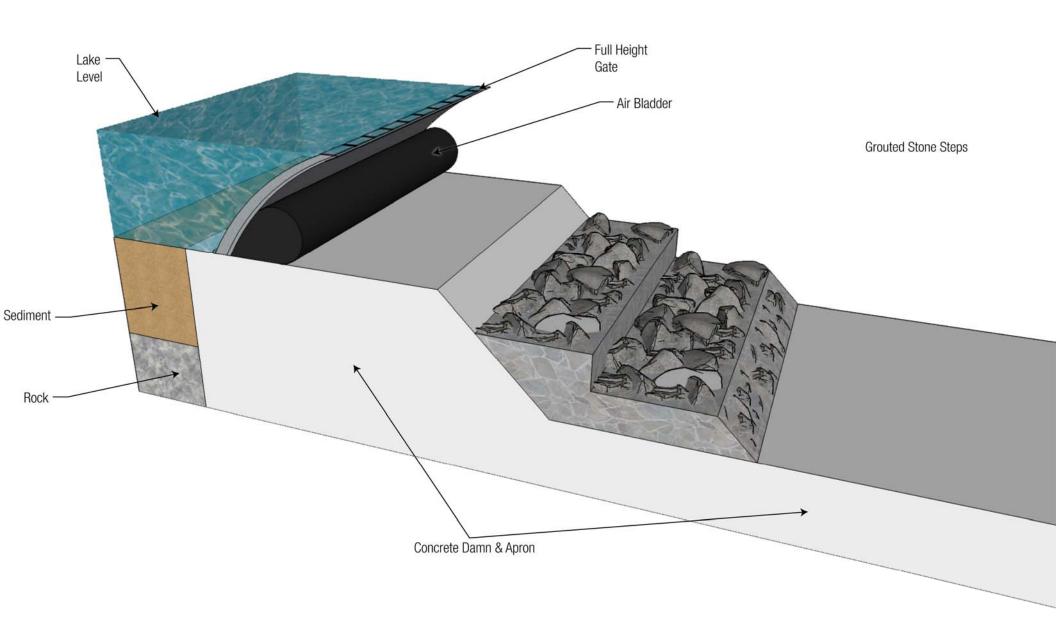
BANK TREATMENT DIMENSIONS

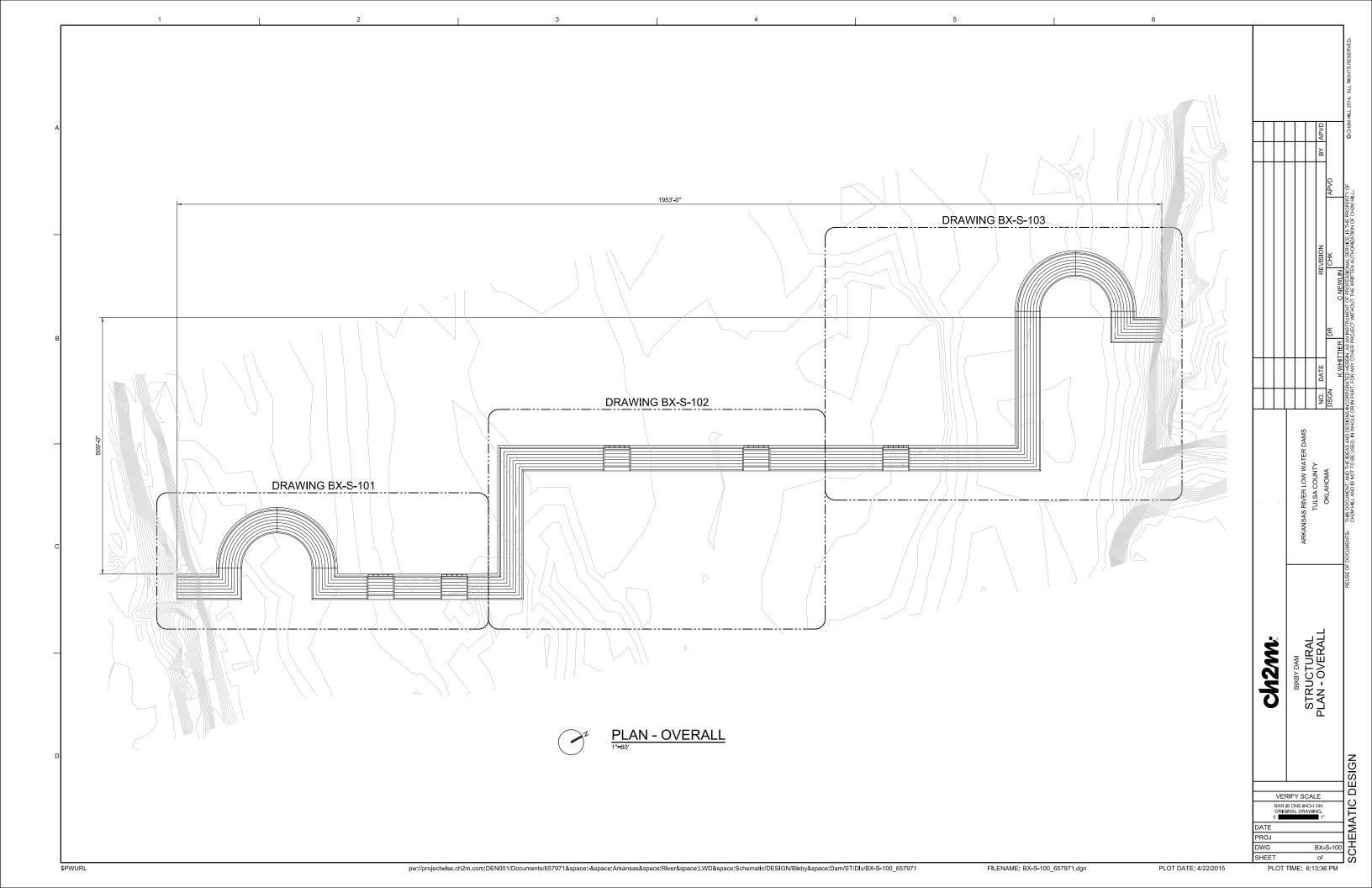
COMMON DIMENSIONS FOR ALL TREATMEN' VERTICAL FREEBOARD RIPRAP MEDIAN DIAMETER, D50 TREATMENT THICKNESS (T)	TS 2.0 1.5 3.0	FT FT FT
TREATMENT 1 STONE TOE THICKNESS (Z) STONE TOE LENGTH (L) STONE TOE SLOPE (H)	6.0 12.0 2.0	FT FT FT/FT
TREATMENT 2 WEDGE SLOPE (H)	3.0	FT/FT
TREATMENT 3 PEAK STONE TOE SLOPE, BANK SIDE (H1) PEAK STONE TOE SLOPE, RIVER SIDE (H2)	2.5 2.5	FT/FT FT/FT

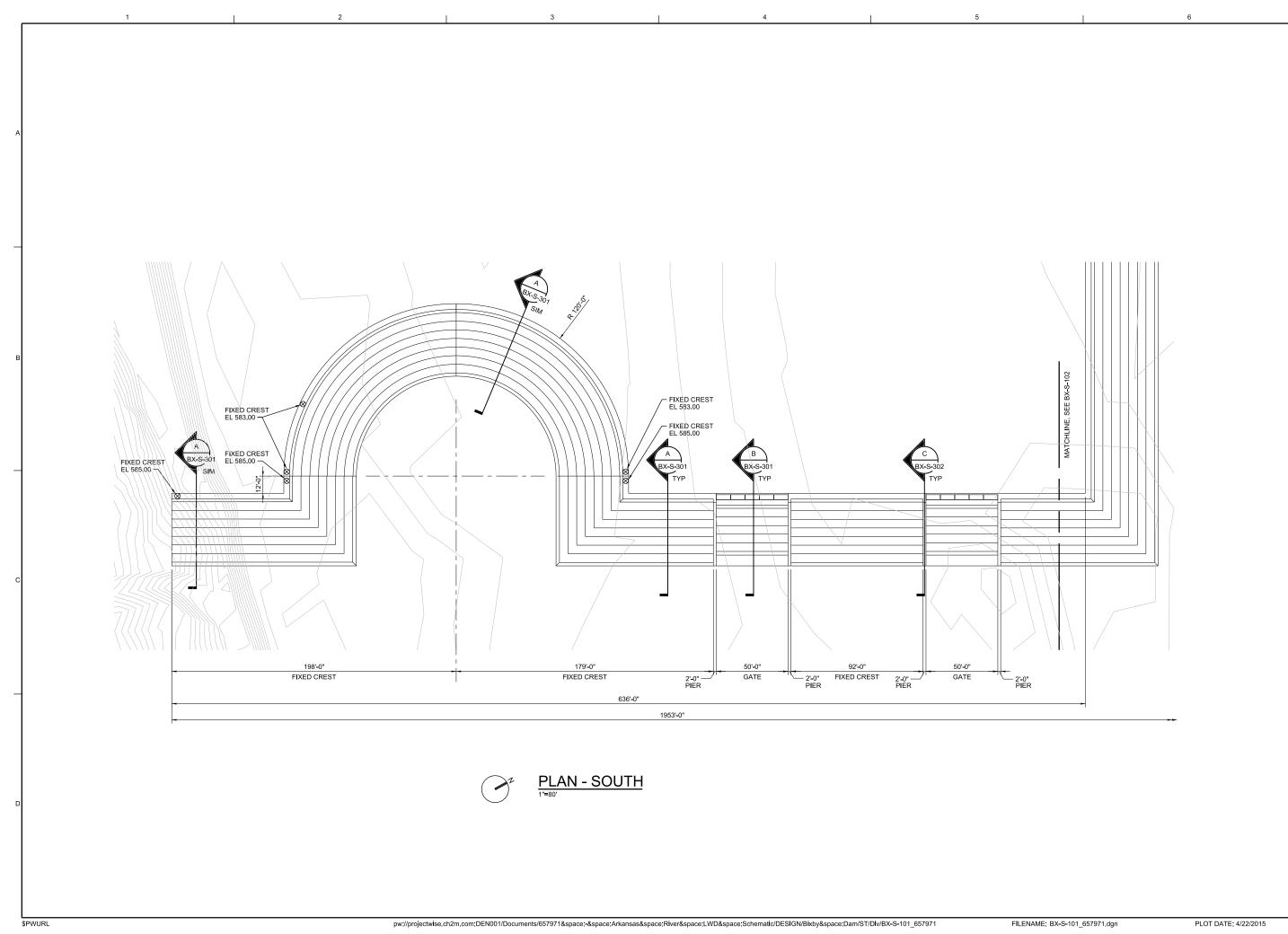
FIGURE 1 BANK STABILIZATION TREATMENTS ARKANSAS RIVER LOW WATER DAMS CITY OF TULSA, OKLAHOMA











CHEWATIC DESIGN

ch2m;

PLOT TIME: 6:13:38 PM

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

