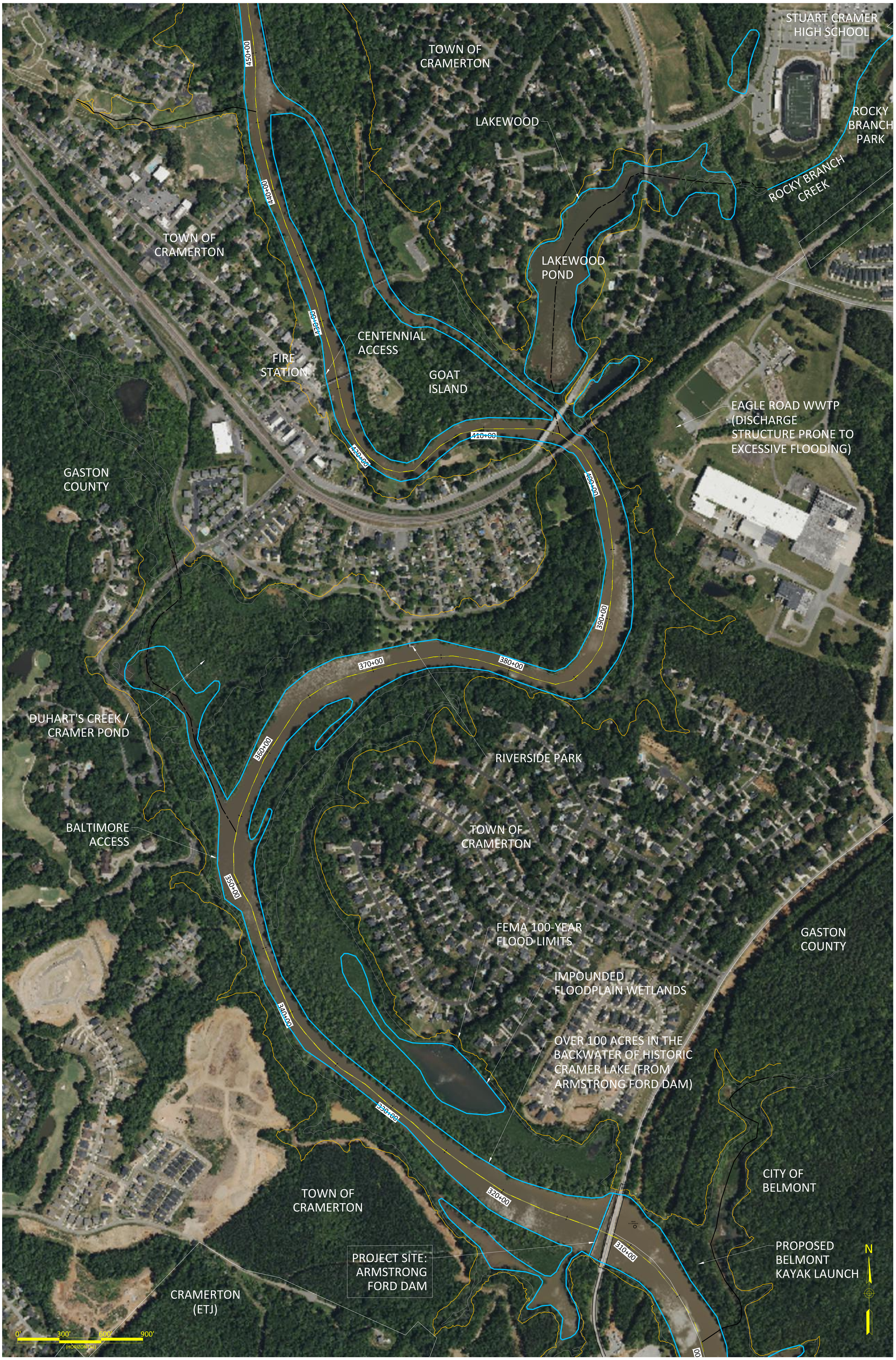
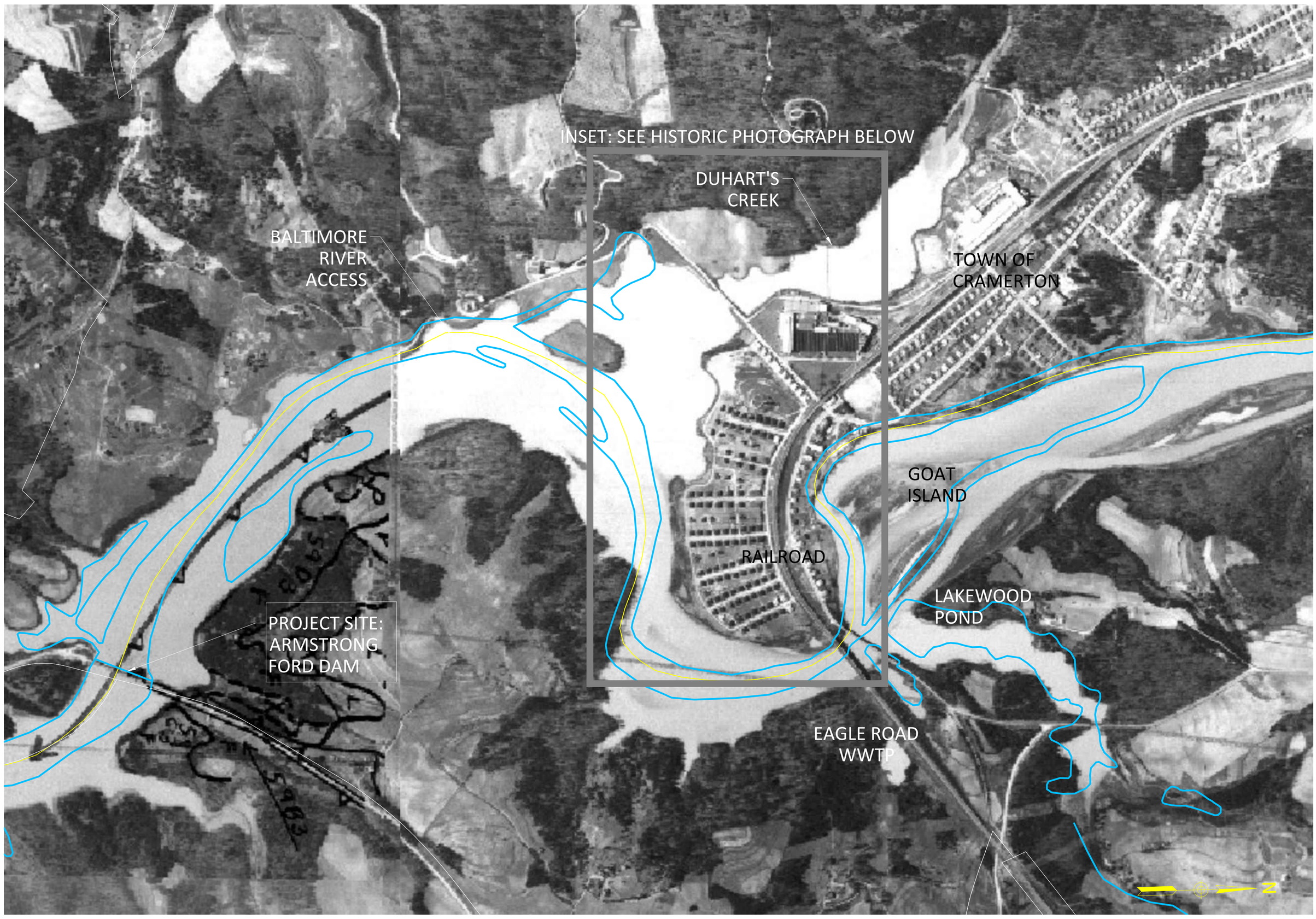
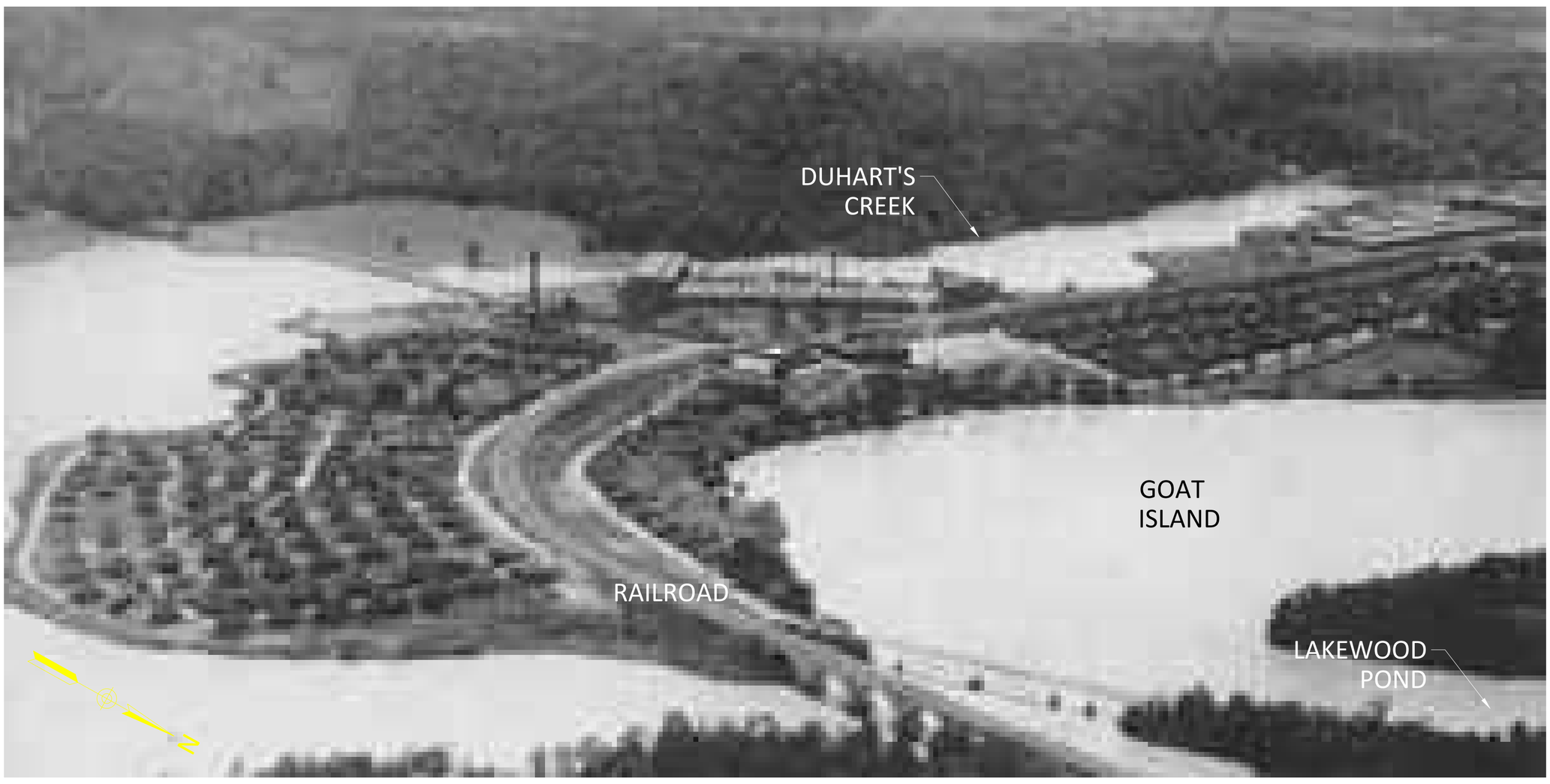


PROJECT AREA MAP



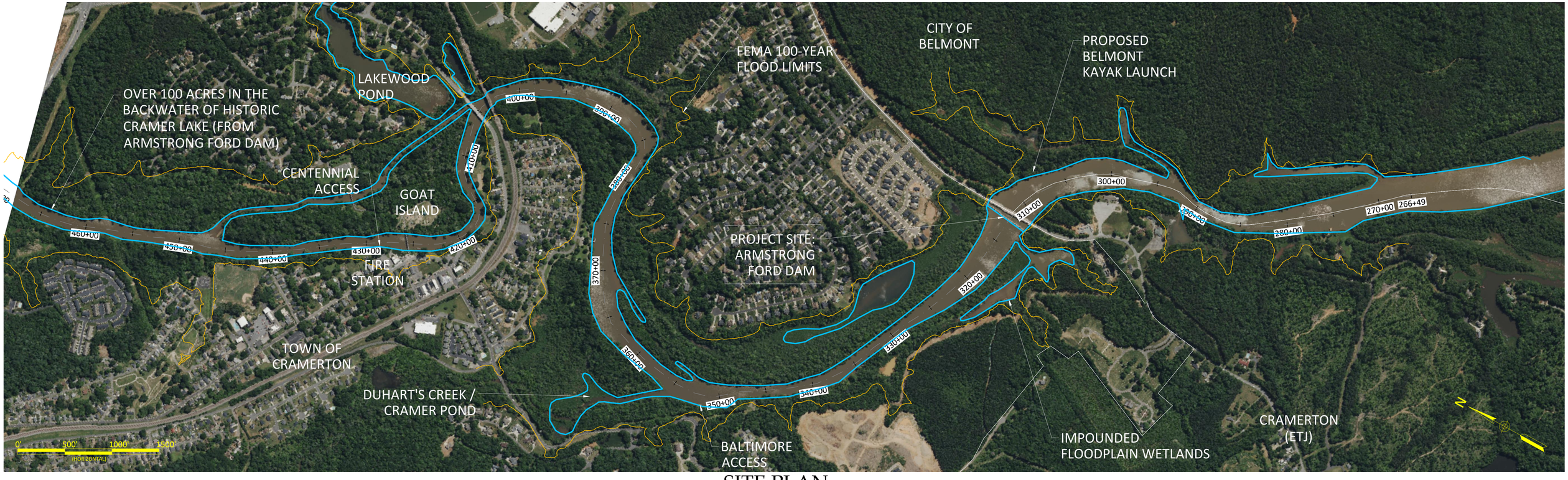
CRAMERTON / CRAMER LAKE - 1938 AERIAL



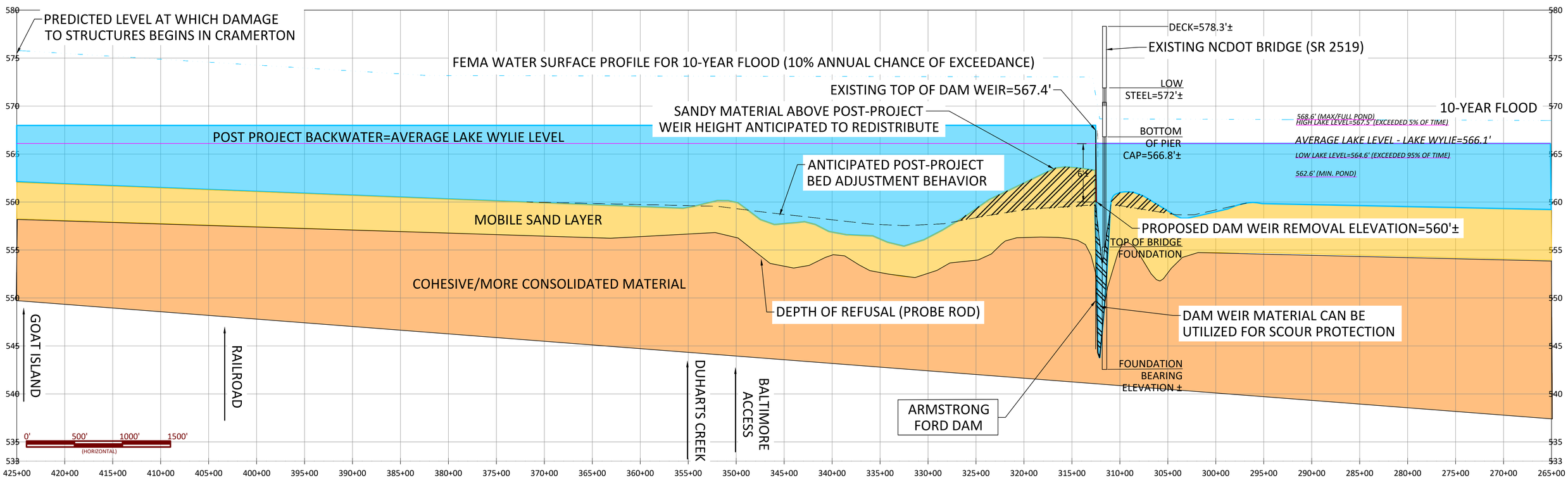
HISTORIC PHOTO OF CRAMERTON / CRAMERTON LAKE

CRAMERTON / CRAMER LAKE - CURRENT AERIAL

2021 OBLIQUE AERIAL OF CRAMERTON / CRAMER LAKE

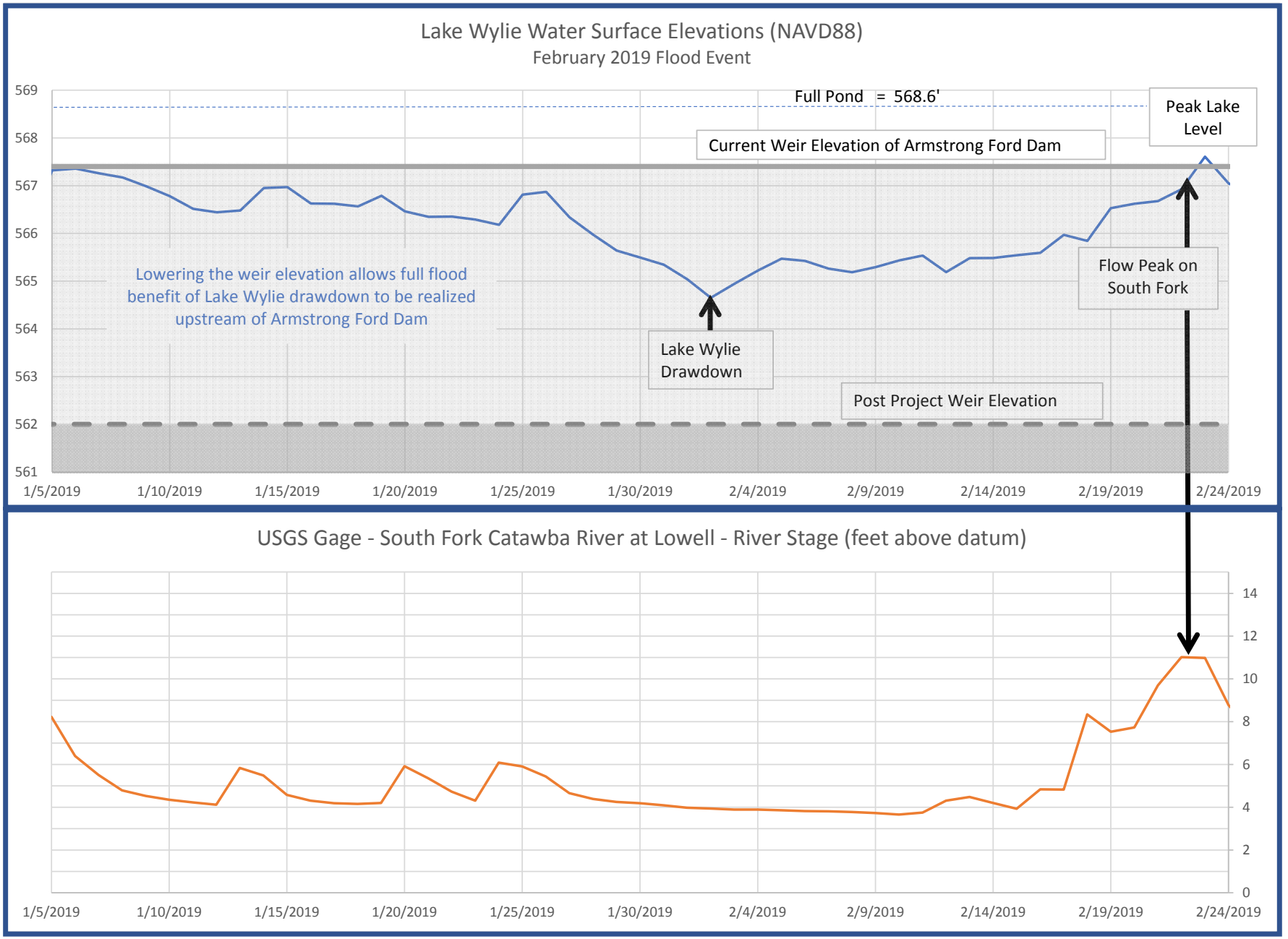


SITE PLAN



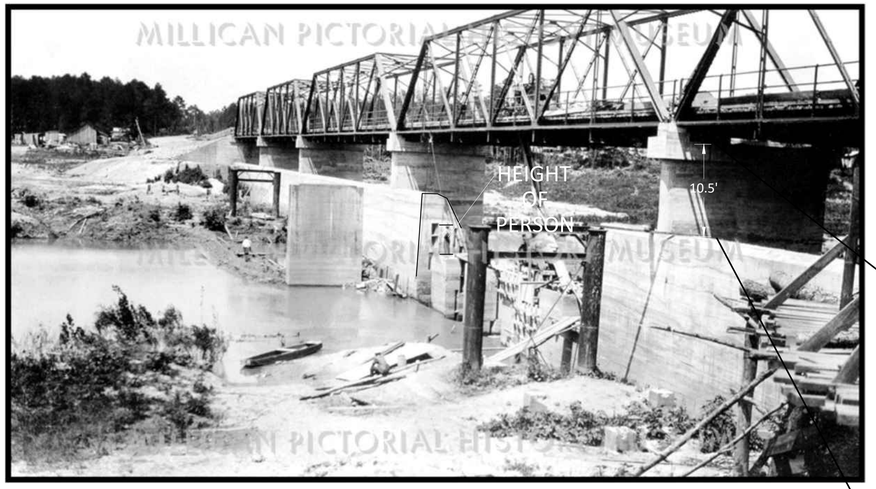
PROFILE

NOTE: ALL ELEVATIONS ARE IN NAVD88 VERTICAL DATUM.


Lake Wylie Water Surface Elevations (NAVD88)
February 2019 Flood Event
Full Pond = 568.6'
Peak Lake Level
Current Weir Elevation of Armstrong Ford Dam
Lowering the weir elevation allows full flood benefit of Lake Wylie drawdown to be realized upstream of Armstrong Ford Dam
Flow Peak on South Fork
Lake Wylie Drawdown
Post Project Weir Elevation
569
568
567
566
565
564
563
562
561
1/5/2019
1/10/2019
1/15/2019
1/20/2019
1/25/2019
1/30/2019
2/4/2019
2/9/2019
2/14/2019
2/19/2019
2/24/2019
USGS Gage - South Fork Catawba River at Lowell - River Stage (feet above datum)
14
12
10
8
6
4
2
0
1/5/2019
1/10/2019
1/15/2019
1/20/2019
1/25/2019
1/30/2019
2/4/2019
2/9/2019
2/14/2019
2/19/2019
2/24/2019


LAKE WYLIE FERC
REGULATORY
BOUNDARY
320+00
PROJECT SITE:
ARMSTRONG
FORD DAM
LIMITS OF
DISTURBANCE
DEMOLITION
BARGE
BUILD CRANE PAD TO SET
BARGE SECTIONS ON WATER
FUTURE
GREENWAY
TRAIL
BACKWATER
1-3 FT DEPTH
9/27/22 (Low Water)
PROPOSED
ACCESS ROAD
ARMSTRONG FORD ROAD
SR 2519 (NCDOT BRIDGE #5)
CITY OF BELMONT
PROPOSED KAYAK
LAUNCH
S&ME
R-2 (APPROX)
310+00
PROPOSED
STOCKPILE AREA
TEMPORARY
CONSTRUCTION
AREA SEWER
PROJECT
CATFISH
COVE
300+00
REQUEST TO USE
EXISTING PUMP
STATION ENTRANCE
0'
80'
160'
240'
(HORIZONTAL)
N

SITE PLAN

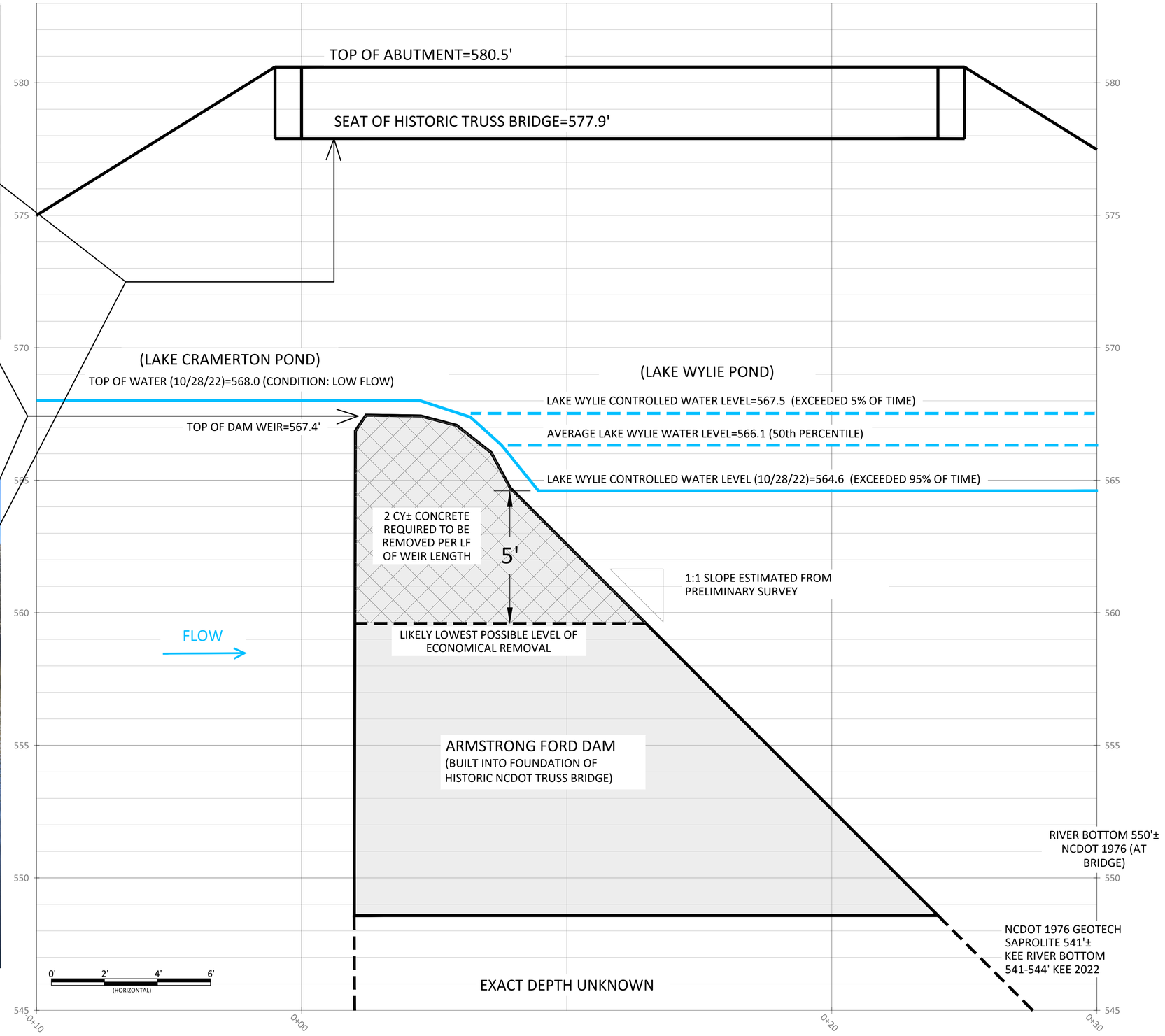


HISTORIC PHOTO DATED 1926* - UPPER ARMSTRONG FORD BRIDGE (MILLICAN)

*BASED ON PROJECT RESEARCH, THE LAKE WYLIE DAM IN ITS CURRENT CONFIGURATION CAME ONLINE IN AUGUST 1925. THAT SUGGESTS THAT THIS PHOTO WAS TAKEN PRIOR TO THIS DATE SINCE THE DOWNSTREAM LAKE WYLIE RESERVOIR IS NOT AT FULL POND IN THIS PHOTO. IT SEEMS LIKELY THAT THE TWO STRUCTURES WERE WORKED ON CONTEMPORANEOUSLY. THE 1904 LAKE WYLIE DAM WAS LOWER AND WAS DAMAGED IN THE 1916 FLOOD.

OCTOBER 2022 - SAME ORIENTATION AS HISTORIC PHOTO ABOVE

NOTE: ALL ELEVATIONS ARE IN NAVD88 VERTICAL DATUM.
DUKE LAKE WYLIE LEVELS COMPARED TO PROJECT SITE USING 10/28/22 SURVEY DATA AND DIFFERENCE WAS <0.1' - THIS IS A LOW WATER CONDITION AND ADDITIONAL COMPARISONS AT HIGHER WATER MAY IMPROVE UNDERSTANDING OF WATER SURFACE SLOPE IN LAKE WYLIE.



ARMSTRONG FORD DAM AND ABUTMENT PROFILE VIEW