



**City of Boiling Spring Lakes
Board of Commissioners Workshop
Dam Construction
City Hall September 18, 2020 ~ 1:30 PM**

PLEASE TURN OFF CELL PHONES

1. Call to Order ~ Mayor Craig Caster

2. Attendance ~

Mayor Craig Caster
Commissioner Tom Guzulaitis
City Manager Jeff Repp
City Clerk Jane McMinn

Commissioner Steve Barger
Commissioner Teagan Hall
Commissioner Dana Witt

3. Presenter/Guest ~ Mr. Michael Hanson, PE, McGill Associates and Mr. Michael Norton, PE, McGill Associates

4. Mayor Caster requested City Manager, Jeff Repp to provide an introduction to the Workshop for the Dam Project.

Mr. Repp explained today's meeting was requested by the Board of Commissioners for an update on the status of the Dam Project. The last time the Board met with the Engineers, McGill Associates and Schnabel Engineering, who are the two firms leading the reconstruction of the four dams, was March of 2020. At the end of July, NC Dam Safety approved the 60% document completion phase; we are now heading toward 90% completion currently. Earlier today, the City held Industry Day, which was an opportunity for contractors who may be interested in this project to come in and meet with the engineers, ask questions after a presentation, and actually tour the four (4) dam sites and gather soil samples. We had approximately 30 individuals here representing 13 to 14 construction firms that are expressing interest in this project. We have a presentation for you today explaining the update based on the 60% drawings that were completed at the end of July. Mr. Michael Hanson is the lead Engineer from McGill Associates and will guide us through the presentation. Upon completion, the Board will then have the opportunity to ask any questions they may have for Mr. Hanson or Mr. Norton.

Mr. Hanson explained his review of the presentation today would take us up to the 60% design to this point. We will review Industry Day and the purpose of the day and the outcome; discuss FEMA and the progress we have made with FEMA, as well as the Request for Qualifications (RFQ), which will be the next step the City will take, and steps beyond that.

That the Boiling Spring Lakes Dams Construction / Reconstruction Presentation is hereby incorporated and made a part of these minutes.

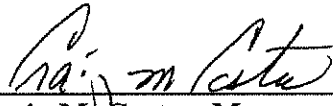
Mr. Hanson stated, after the Board of Commissioners meeting on October 6, 2020 following their approval of the Request for Qualifications, October 9, 2020 will be the target date to distribute the RFQ for contractors. We would anticipate approximately two months for the RFQ to be returned to the City allowing the contractors enough time to compile all the information that is required. We anticipate sometime in the month of December for the return of the RFQ packages from the contractors. It will take approximately 30 days to review the RFQ packages, which will bring us to sometime in January 2021 with a notification to all the qualified applicants. Upon completion of the RFQ process, we will begin the bidding phase as the next step moving forward.

A review committee of the bids will be put together to include the City Manager, Jeff Repp, representation from McGill Associates, perhaps the mayor and a member from the Board of Commissioners if they wish to participate in this process..

While the City is reviewing eligible contractors at the same time 90% drawing will be submitted to NC Dam Safety for final approval and issuance of the necessary construction permit. It is planned that the issuance of the permit will coincide with the awarding of a contract to the successful construction firm., which will bring us to the March 2021 timeframe. However, we hope to have final design back from Dam Safety in the timeframe anticipated; but I have had experience in the past on projects taking longer to get to completion of review. The bid process will begin in March until May awarding the bid. This will put us at the start of the construction in early May 2021.


Mayor Caster and the Board thanked Mr. Hanson and Mr. Norton of McGill Associates for the presentation and assistance with respect to the Industry Day meeting with prospective contractors.

The Dam Workshop of the Board of Commissioners adjourned at 2:40 PM on September 18, 2020.



Craig M. Caster, Mayor

ATTEST:



Jane McMinn, City Clerk



Date

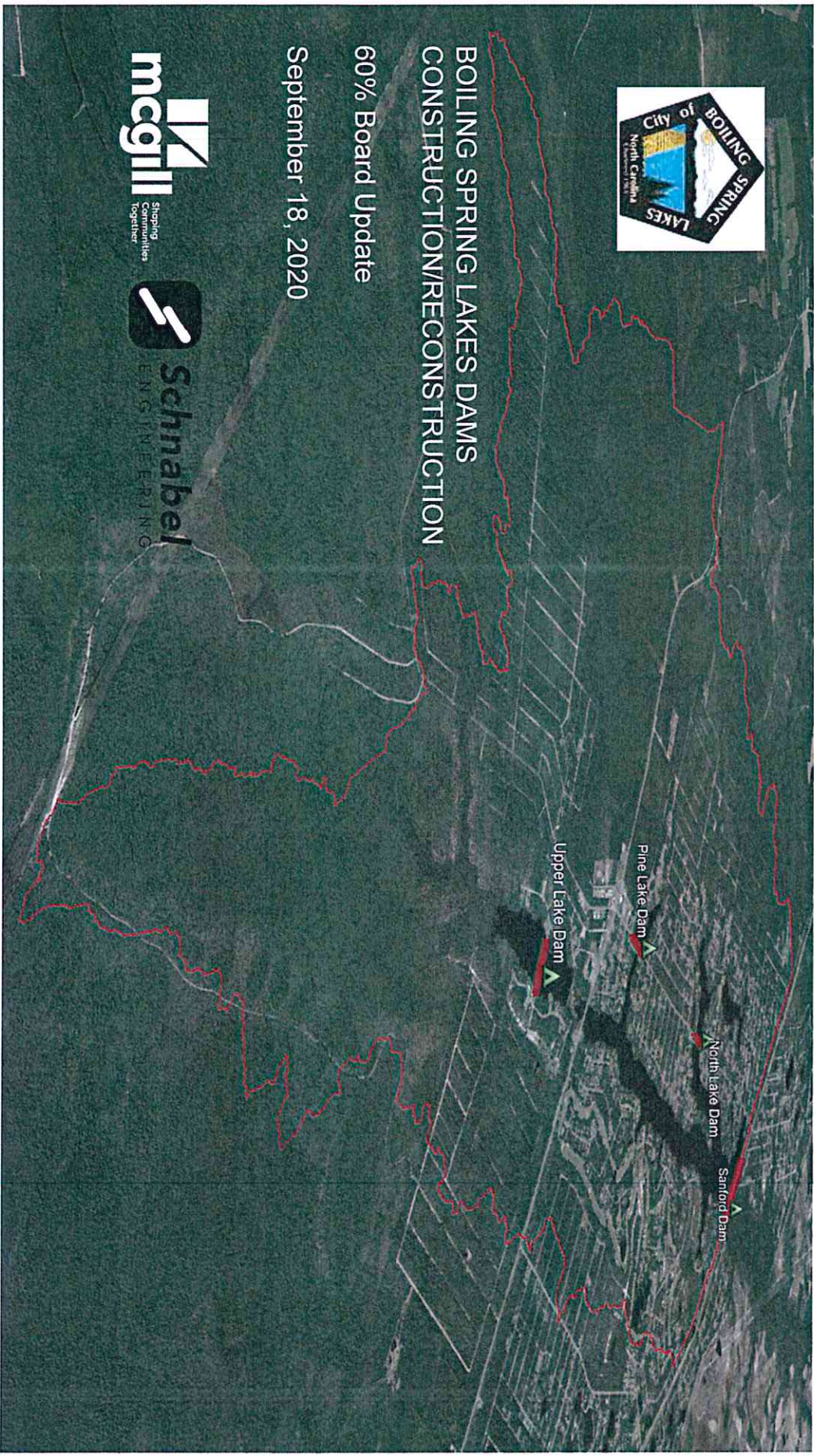




BOILING SPRING LAKES DAMS CONSTRUCTION/RECONSTRUCTION

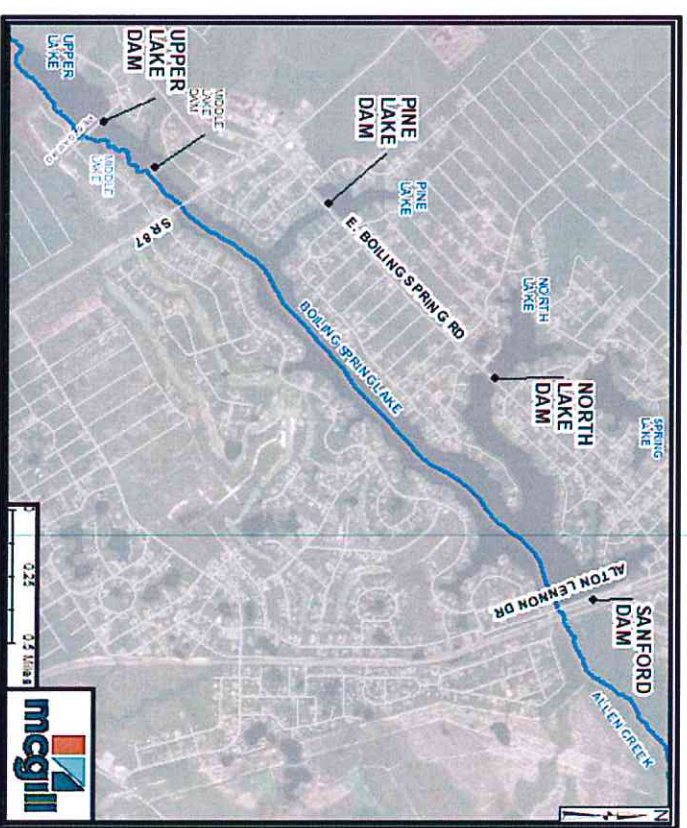
60% Board Update

September 18, 2020



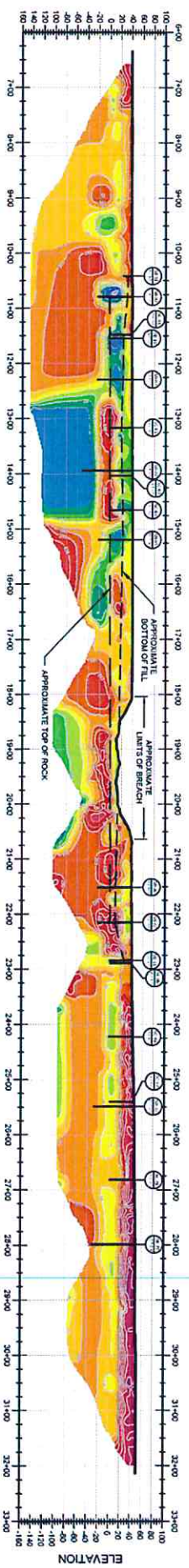
Agenda

- 60% Design Update
- Industry Day
- FEMA
- RFQ (Prequalification)
- Next Steps



60% Submittal Dam Safety Meeting

- Date: 7/31/2020
- Topics
 - ✓ Hydrology/Hydraulics and spillways
 - ✓ Control of water
 - ✓ Roads and utilities
 - ✓ Geotechnical exploration and evaluation
- Results – Approval of design concepts



Industry Day

- Date: 7/31/2020
- Topics
 - ✓ Mobilization and temporary construction facilities
 - ✓ Road closures and traffic controls, including acquisition of related permits
 - ✓ Power and telecom utility relocation/coordination
 - ✓ Erosion and sediment control
 - ✓ Control of water (stream diversion using cofferdams over 10 feet high)
 - ✓ Demolition
 - ✓ Cast-in-place concrete riser and box culvert spillways (4,000 cubic yards (CY) of structural concrete)
 - ✓ Approximately 98,000 CY of bulk excavation



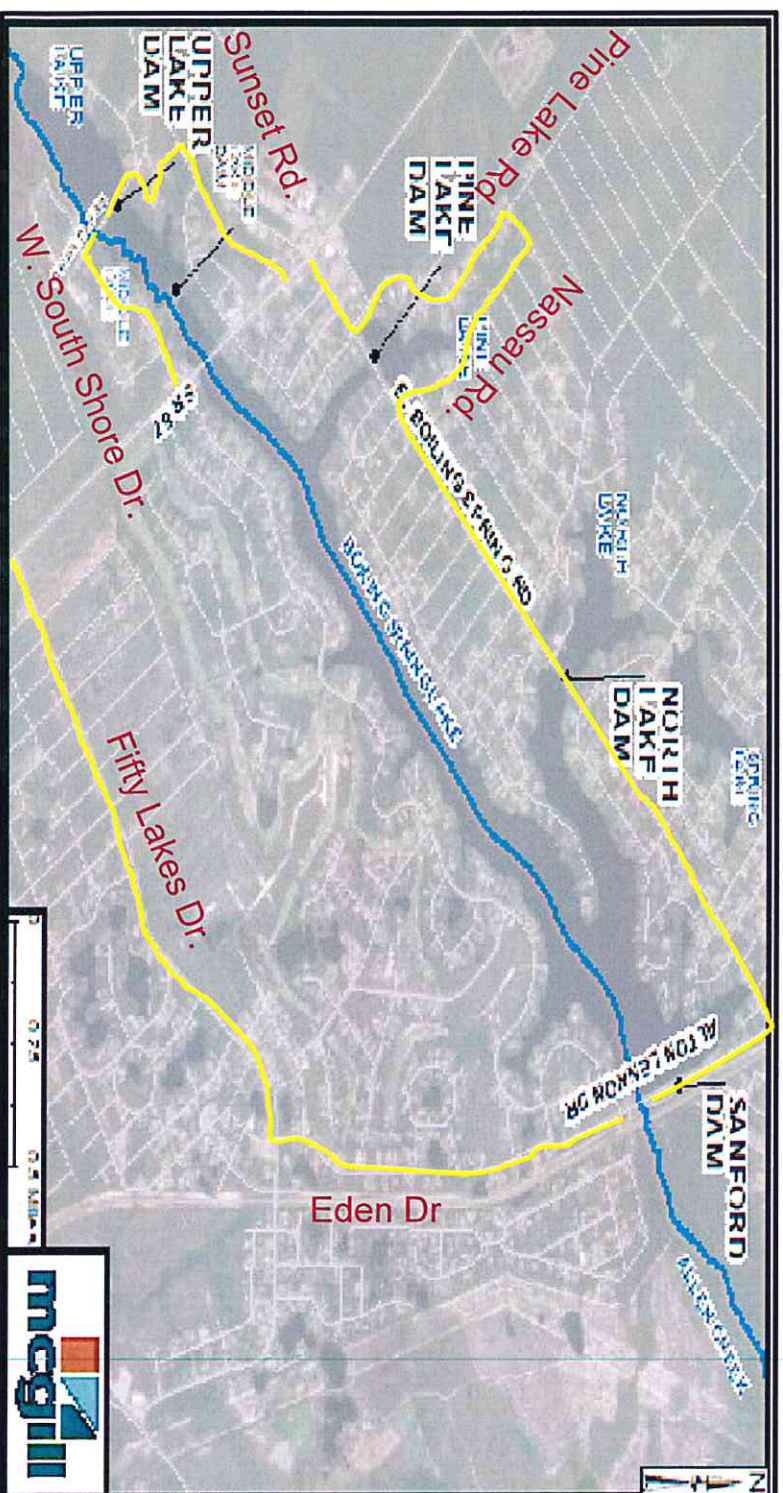
Industry Day

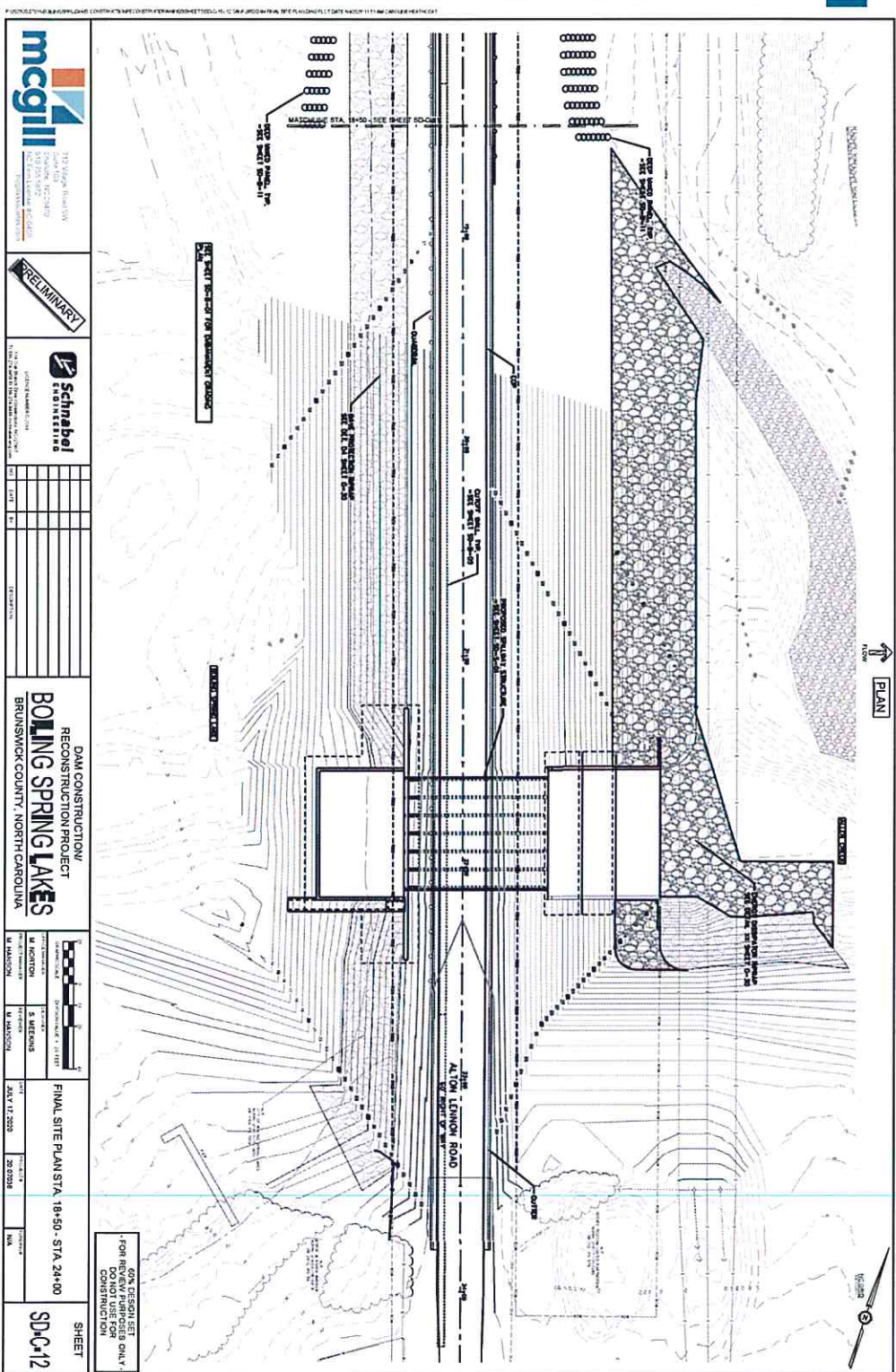


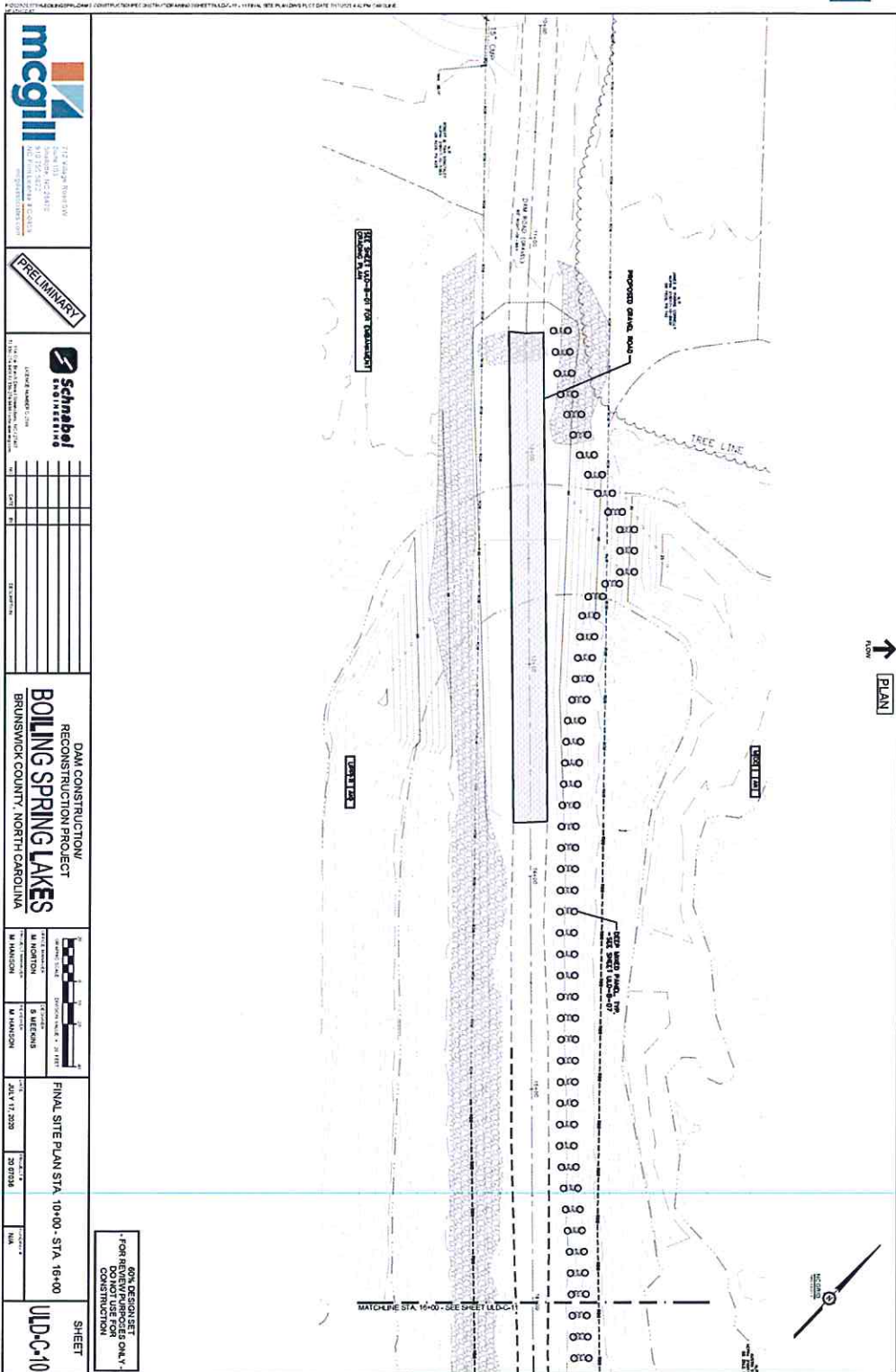
- Topics (continued)
 - ✓ Embankment Construction including core materials, drains and filters (~110,000 CY of earthfill placement and ~7,400 CY of drainfill)
 - ✓ Construction of deep mixing panels, including soilcrete mix design, design and installation of temporary work platforms, demonstration panels, sampling and laboratory testing (~26,000 CY of soilcrete)
 - ✓ Roadway reconstruction
 - ✓ Sanford Dam only:
 - cutoff wall through the entire length 20 feet into the limestone rock (~80,000 square feet of wall profile area)
 - Installation of new instrumentation (structure monitoring points, vibrating wire piezometers, automated data collection and transmission equipment)



ID - Potential Maintenance of Traffic Routes





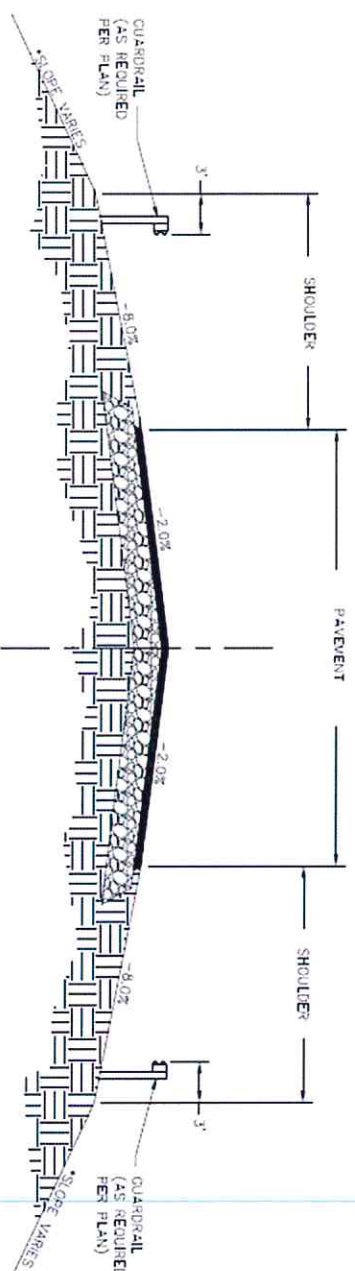


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60% DESIGN SET
- FOR REVIEW PURPOSES ONLY -
DO NOT USE FOR
CONSTRUCTION

ID - Roadway and Utilities



Recent FEMA Coordination

- Date: 8/19/2020
- Topics
 - ✓ PLD, NLD and EBSR
 - ✓ NCDOT project
- Results
 - ✓ FEMA has agreed to allow 2 applicants to claim the same physical site – Success!
 - ✓ FEMA will reimburse cost for reconstruction of water control features back to pre-disaster condition
 - ✓ Codes and Standards are only applicable for original dam design (guardrail, low drain, etc.)
 - ✓ Submitted SOW to FEMA on 8/31/2020

RFQ

- Due to the complexity of the construction required and the overall magnitude of the project McGill/Schnabel recommends that the City prequalify bidders for this project.
- A Request for Qualifications (RFQ) will be publicly distributed. Qualification submittals from Contractor Teams will be reviewed by the City and Engineer of Record based on meeting minimum levels of experience with various unique construction methodologies required for this project. Contractor Teams will be notified regarding meeting minimum qualifications prior to distribution of the bid package.

RFQ

- For Prequalified Bids the NC GS requires
 - The City adopts an objective prequalification policy and
 - The City adopts the assessment tool and criteria for that specific project
- McGill has provided suggested language for Board adoption
- The Board is scheduled to meet October 6, 2020
- If approved, the RFQ is scheduled for release October 9, 2020



Next Steps

Critical Dates

- Submittal to Dam Safety 12/23/20
- Dam Safety Review 12/23/20 to 3/23/21
- Bidding and Contractor Selection 3/31/21 to 5/28/21
- Start Construction 5/28/21

