

Upper La Cueva Improvements Project

▲ Primrose Pointe HOA
Information Meeting
September 11, 2024

Bohannon  **Huston**
great people *supporting* great communities

▲ Presented by
▲ Bohannon Huston,
Inc. and Bernalillo
County

BERN
CO  | Bernalillo
County

Bohannon  **Huston**

Contents/Agenda

- ▲ Introductions/Background
- ▲ Study Area Description
- ▲ Project Scope
 - Study Phase - completed
 - Design Phase - ongoing
 - Construction Phase - upcoming
- ▲ Project Benefits Summary
- ▲ Next Steps
- ▲ Questions

Introductions/Background

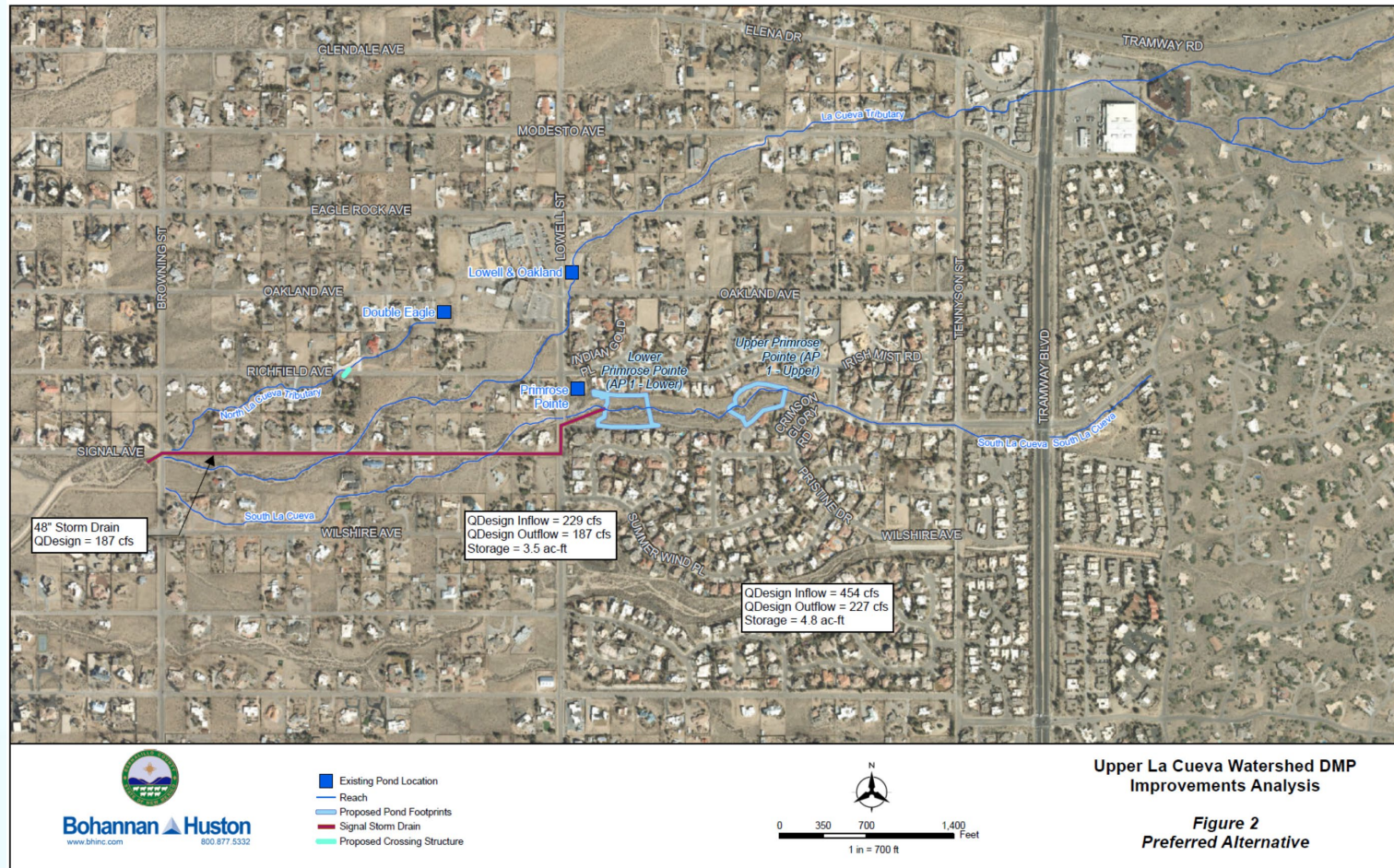
– Introductions

- Bernalillo County
- Brian Lopez, Jennifer Flor
- Bohannon Huston, Inc.
- Craig Hoover
- Elected officials

– Background

- Project: Study and design and construction of watershed improvements in the Upper La Cueva Watershed
- Project Need/Objectives: Reduce operation & maintenance costs, improve resilience of existing infrastructure,
- Funding: Federal American Rescue Plan Act (ARPA)
- Project objective: Provide regional sediment capture, and water quality improvements
- Design Consultant: Bohannon Huston, Inc.

Study Area Description



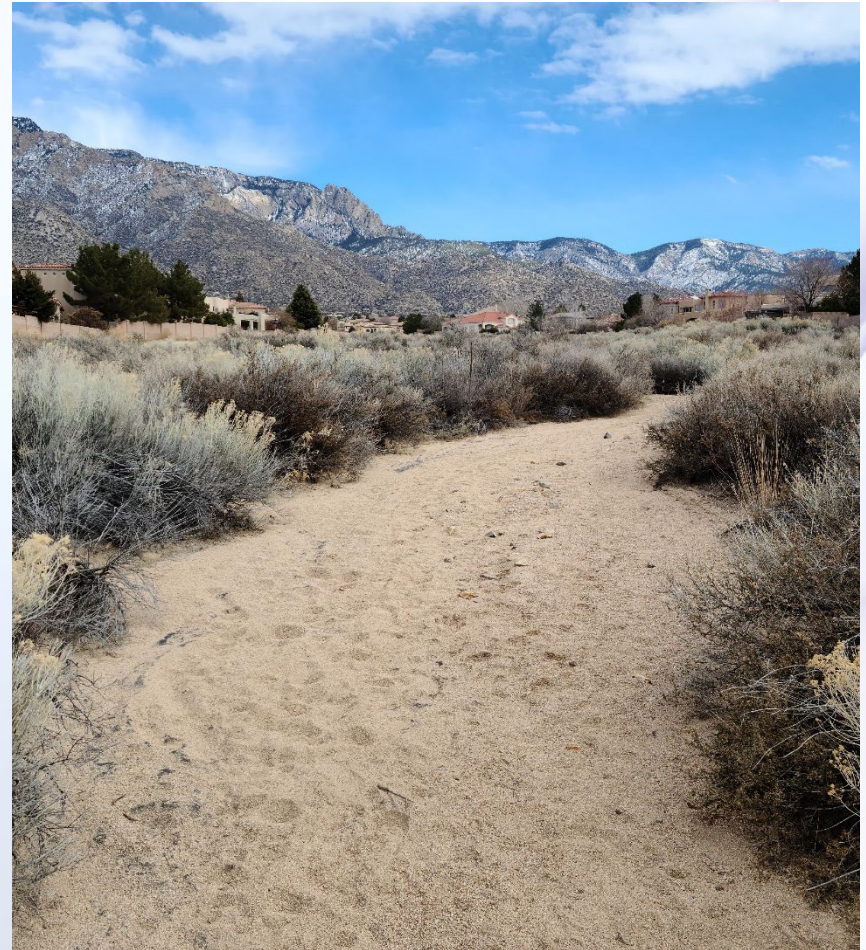
Project Scope – Study Phase

- Data Collection and Field Inventory
 - Review of existing area drainage reports
 - Gathering information on existing study area utilities
 - Complete field survey

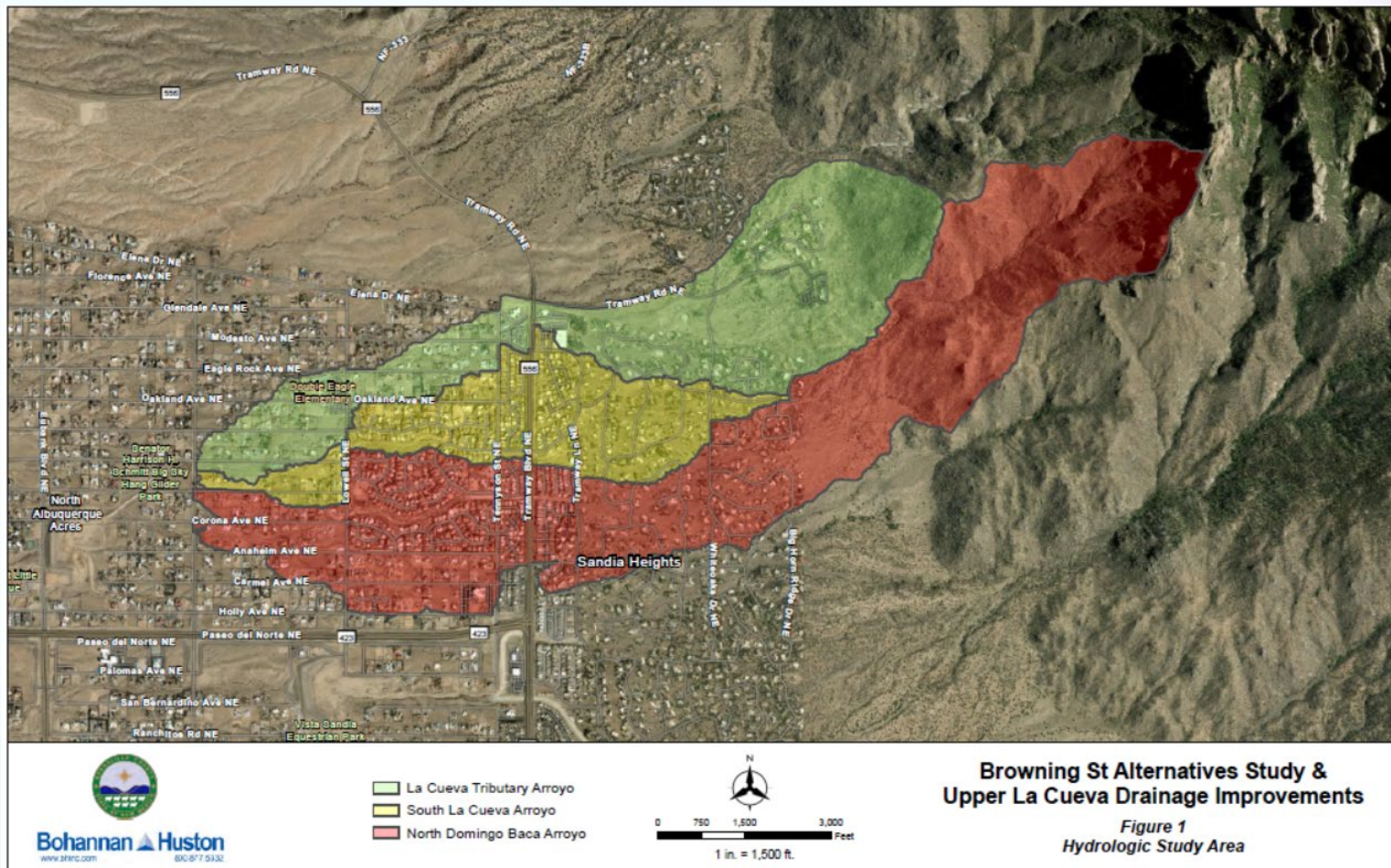


Project Scope – Study Phase

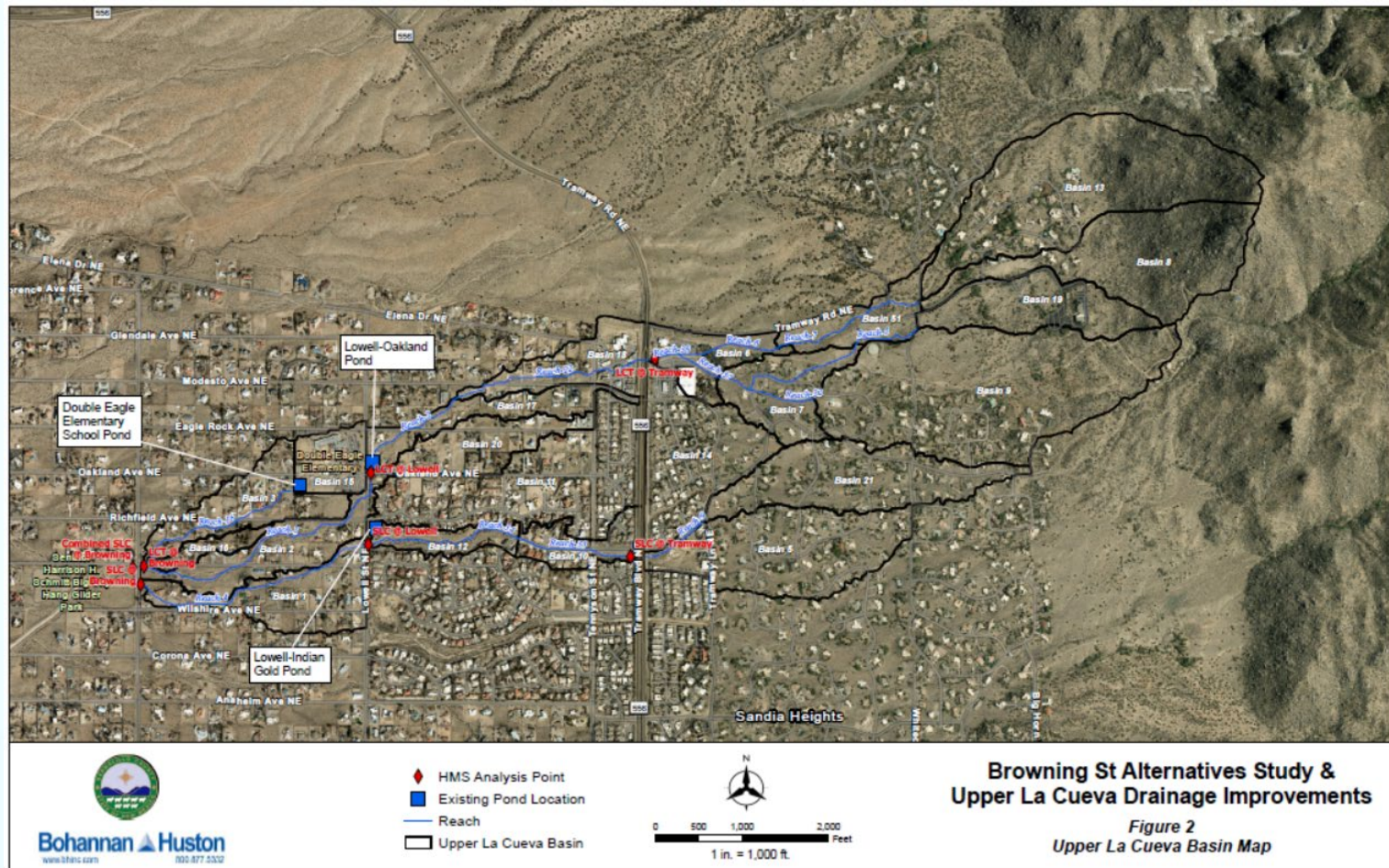
- Hydrologic & Hydraulic Analysis
 - Hydrologic models using current AMAFCA and County standards
 - Hydraulic models of area arroyos



Study Area Watersheds



Upper La Cueva Watershed



Project Scope – Study Phase

- Improvements Analysis
 - Upper Primrose Pointe Pond
 - Lower Primrose Pointe Pond
 - Signal Storm Drain



Project Scope – Study Phase

- Design Analysis Report
 - Purpose
 - Design Criteria
 - Cost Estimates
 - Recommended Improvements

DRAINAGE ANALYSIS REPORT FOR UPPER LA CUEVA DRAINAGE IMPROVEMENTS

DRAFT

FEBRUARY 8, 2024

Prepared for:

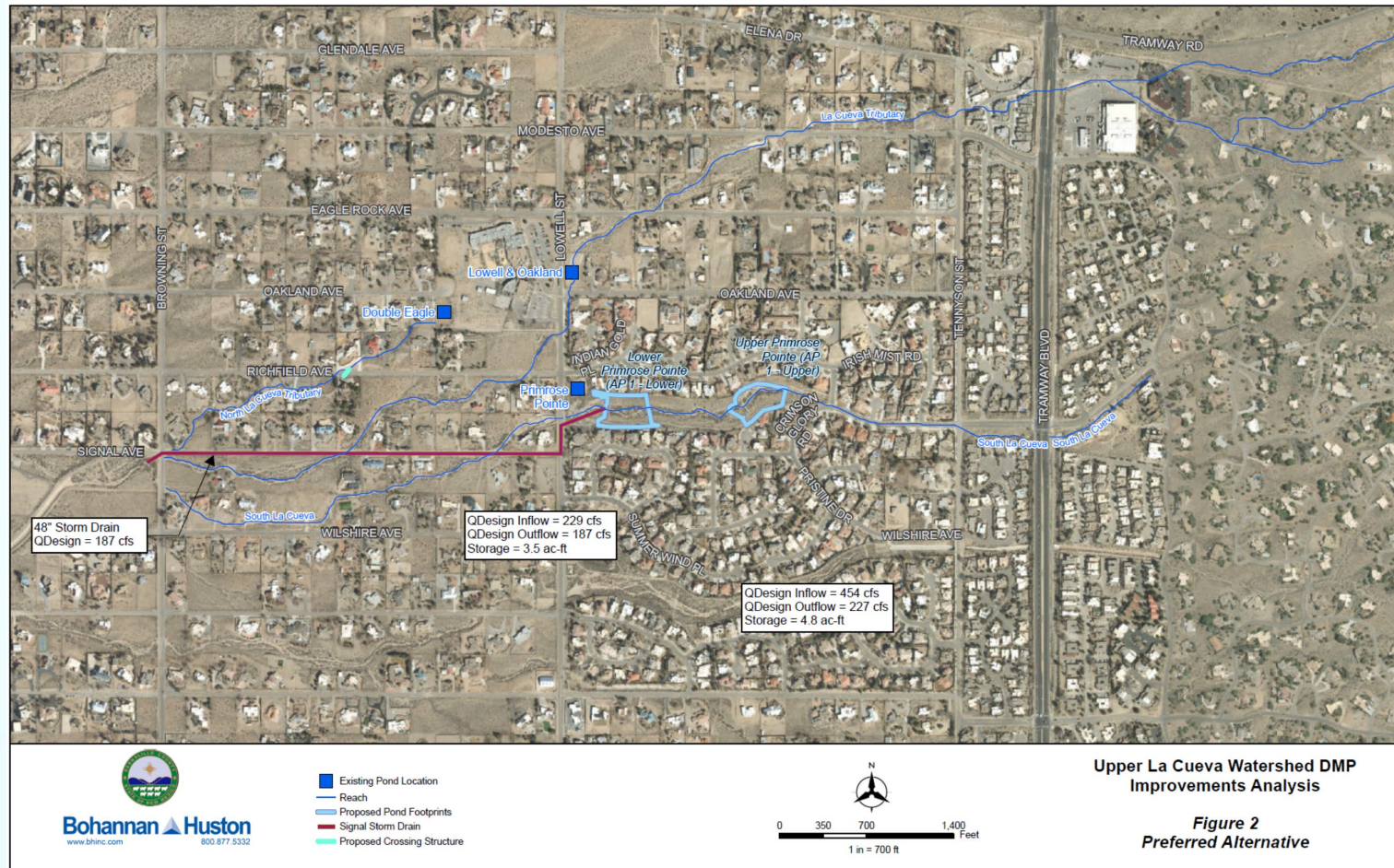


Prepared by:

Bohannon ▲ **Huston**



Recommended Improvements



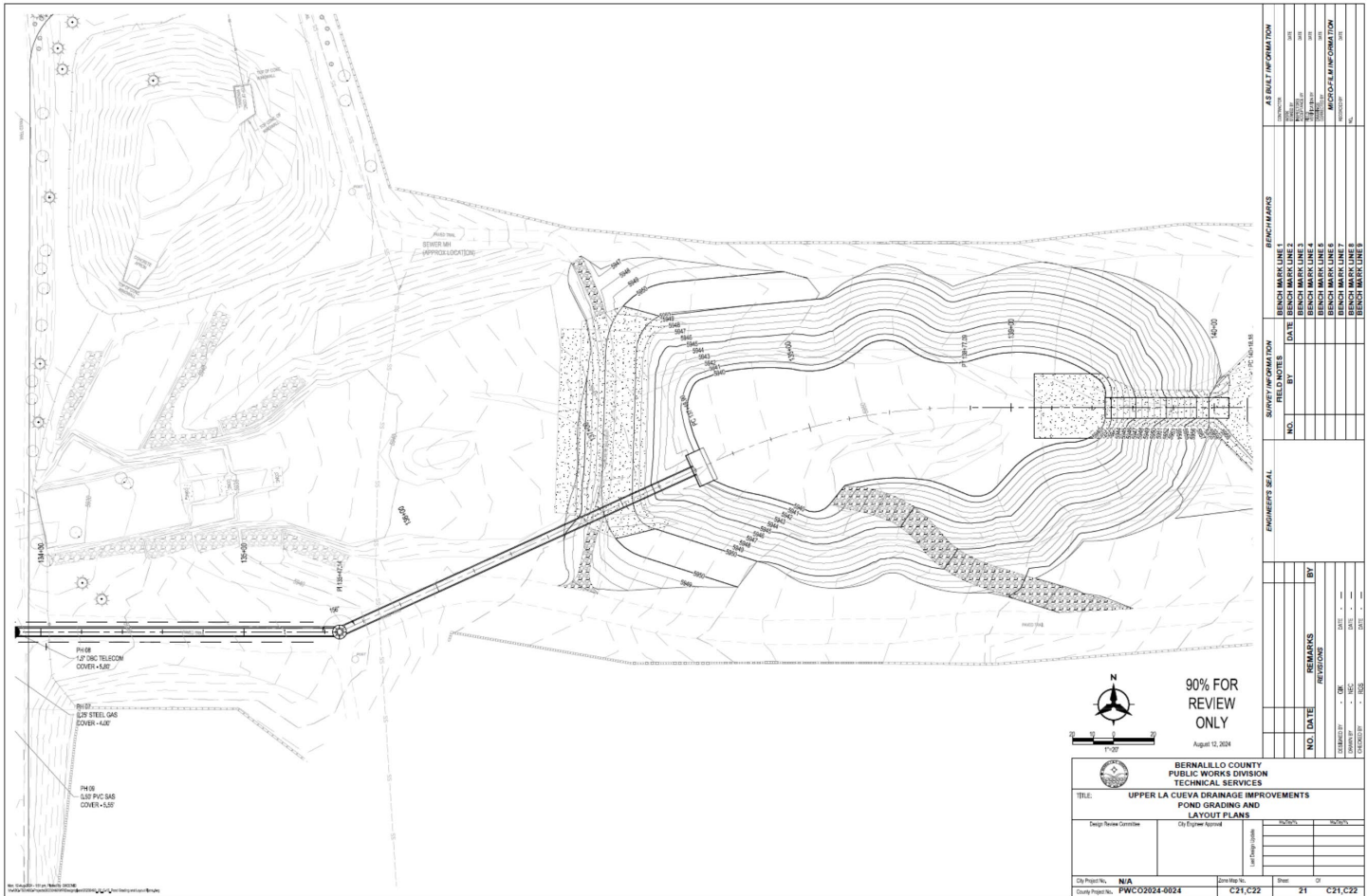
Project Scope – Design Phase

- Additional Data Gathering, Field Survey and Subsurface Utility Engineering
- Geotechnical Analysis
- Environmental Analysis
- 60% Design
- 90% Design
- Final Design



Project Scope – Design Phase





LPPP Rendering: – Trail eye level

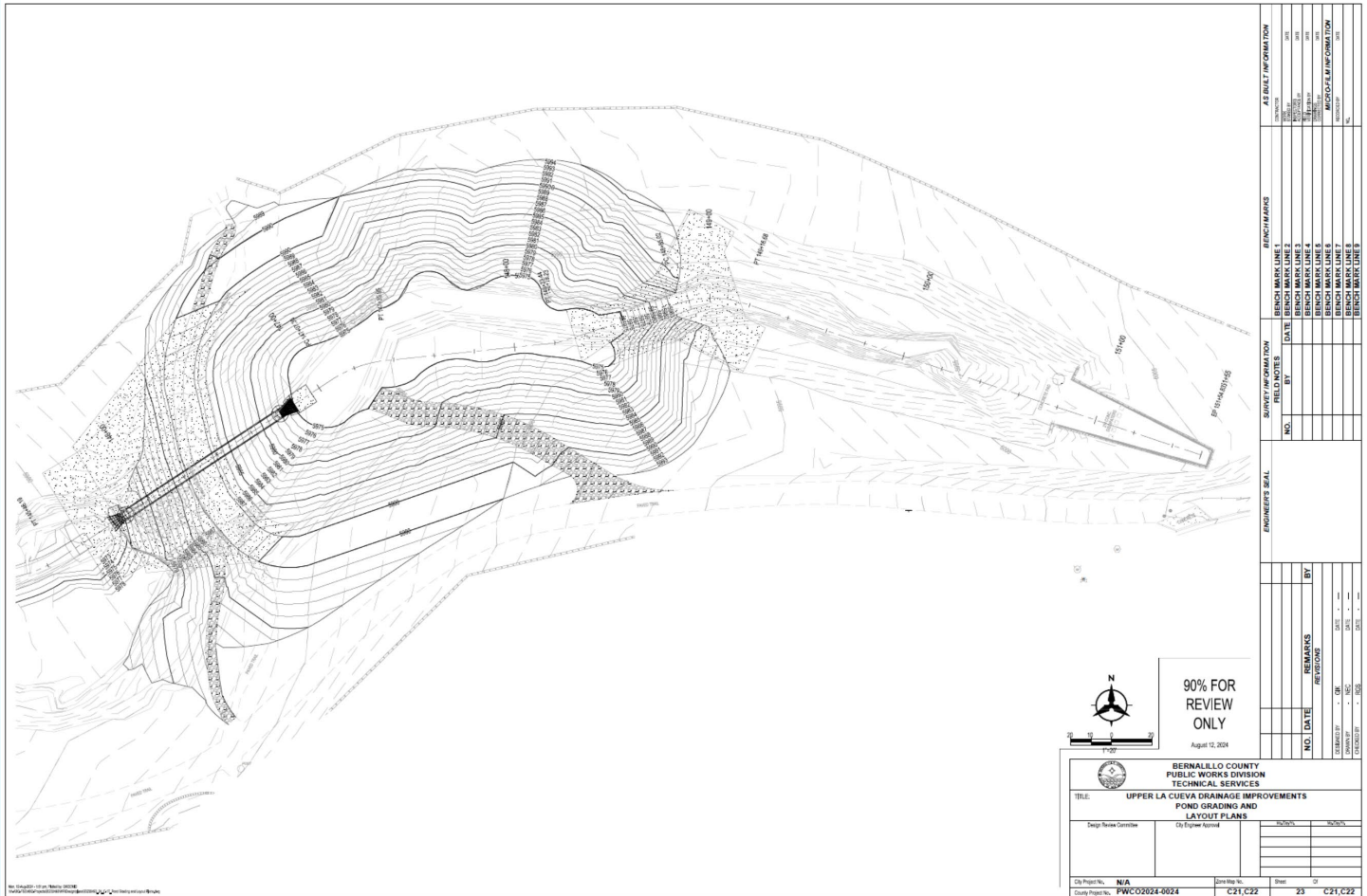


LPPP Rendering: ~ 10' elevated eye level



UPPP Rendering: ~ 10' elevated eye level





UPPP Rendering: ~ 10' elevated eye level



LPPP Rendering: Upstream end of rundown



UPPP Rendering: From Arroyo eye level



Upstream Arroyo: ~ 10' elevated eye level



Project Scope – Construction Phase

- Potential construction impacts
 - Along roadways
 - Along arroyo – through Primrose Pointe
- Design efforts to minimize construction impacts
 - Keeping one lane on Signal open
 - Limited road closures
 - Minimizing pond sizes
 - Limiting areas that can be disturbed
- County and Contractor will work to minimize impacts during construction



Project Benefits Summary

- Reduced sediment transport
- Reduced sediment impacting area roads
- Reduced damages to property and infrastructure due to flooding
- Reduced operation & maintenance costs
- Improved stormwater quality
- Improved resilience of existing infrastructure

Next Steps

- Finalize project design – late fall
- Obtain necessary permits for construction – late fall
- Advertise for construction – early winter
- Project construction – begin early 2025

**BERNALILLO COUNTY OF NEW MEXICO
PUBLIC WORKS DIVISION**

**CONSTRUCTION PLANS
FOR
UPPER LA CUEVA DRAINAGE
IMPROVEMENTS**

PROJECT NO. PWCO2024-0024

DRAWING INDEX

BERNALILLO COUNTY
PUBLIC WORKS

STATE
OF
NEW MEXICO

P.W.C.O. 2024-0024

BERNALILLO COUNTY PUBLIC WORKS DIVISION

DATE

90% FOR REVIEW ONLY

90% FOR REVIEW ONLY

PROJECT MANAGER

DATE

SHEET 01 of 40

Questions

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