CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

March 19, 2025

John Stapleton, PE Community Design Solutions 9384 Valley View Dr. NW Albuquerque, NM 87114

RE: Bridge and 86th Subdivision (at SE Corner) Grading and Drainage Plans Engineer's Stamp Date: 1/27/2025 Hydrology File: L09D046 Case # HYDR-2025-00004

Dear Mr. Stapleton:

Based upon the information provided in your submittal received 01/28/2025, the Grading & Drainage Plans **are approved** for action by the Development Facilitation Team (DFT), Development Hearing Officer (DHO) for Preliminary/Final Plat approval, and Grading Permit.

PO Box 1293 PRIOR TO BUILDING PERMIT:

Please submit a more detailed Grading & Drainage Plan to Hydrology for review and approval.

Albuquerque

NM 87103

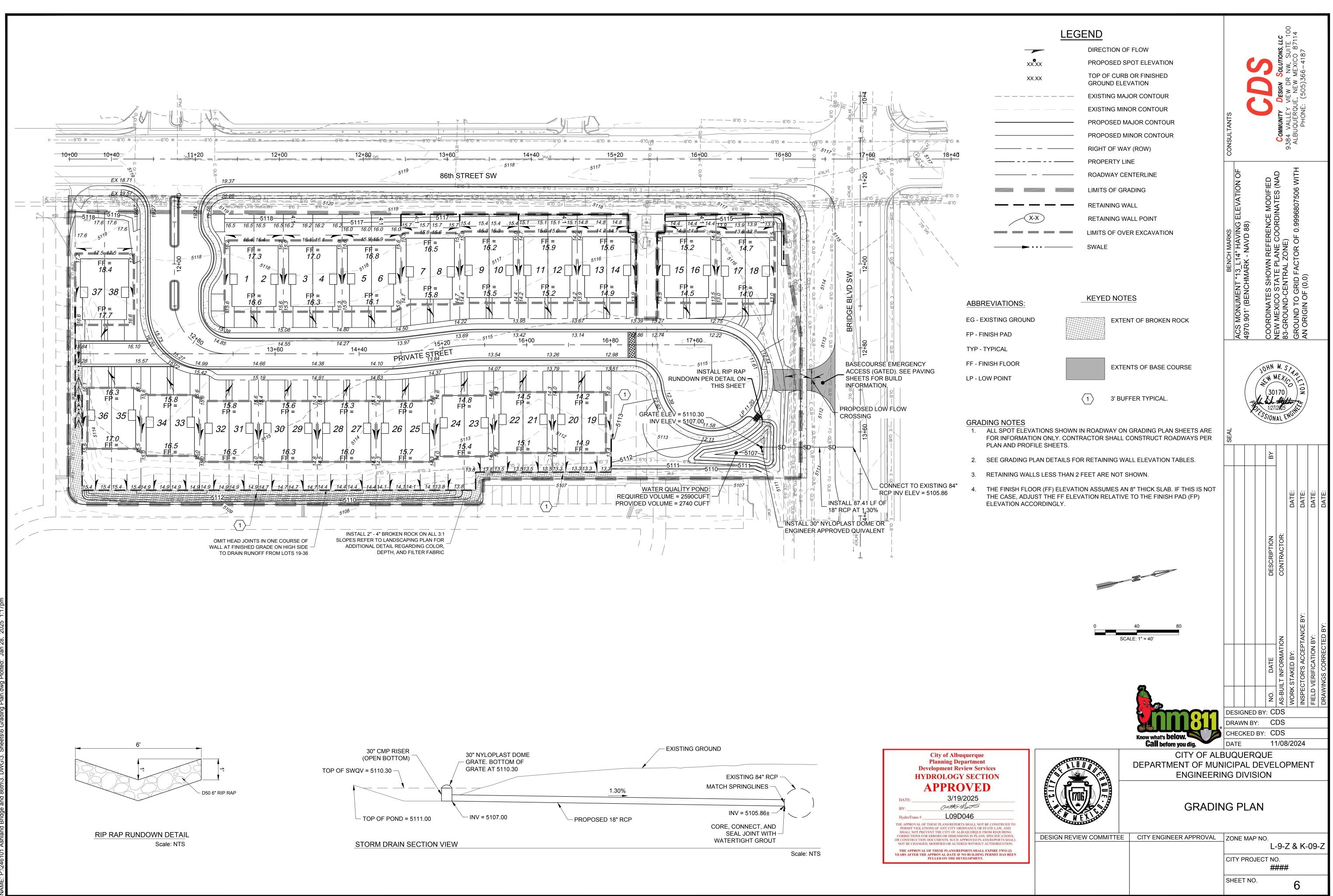
As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

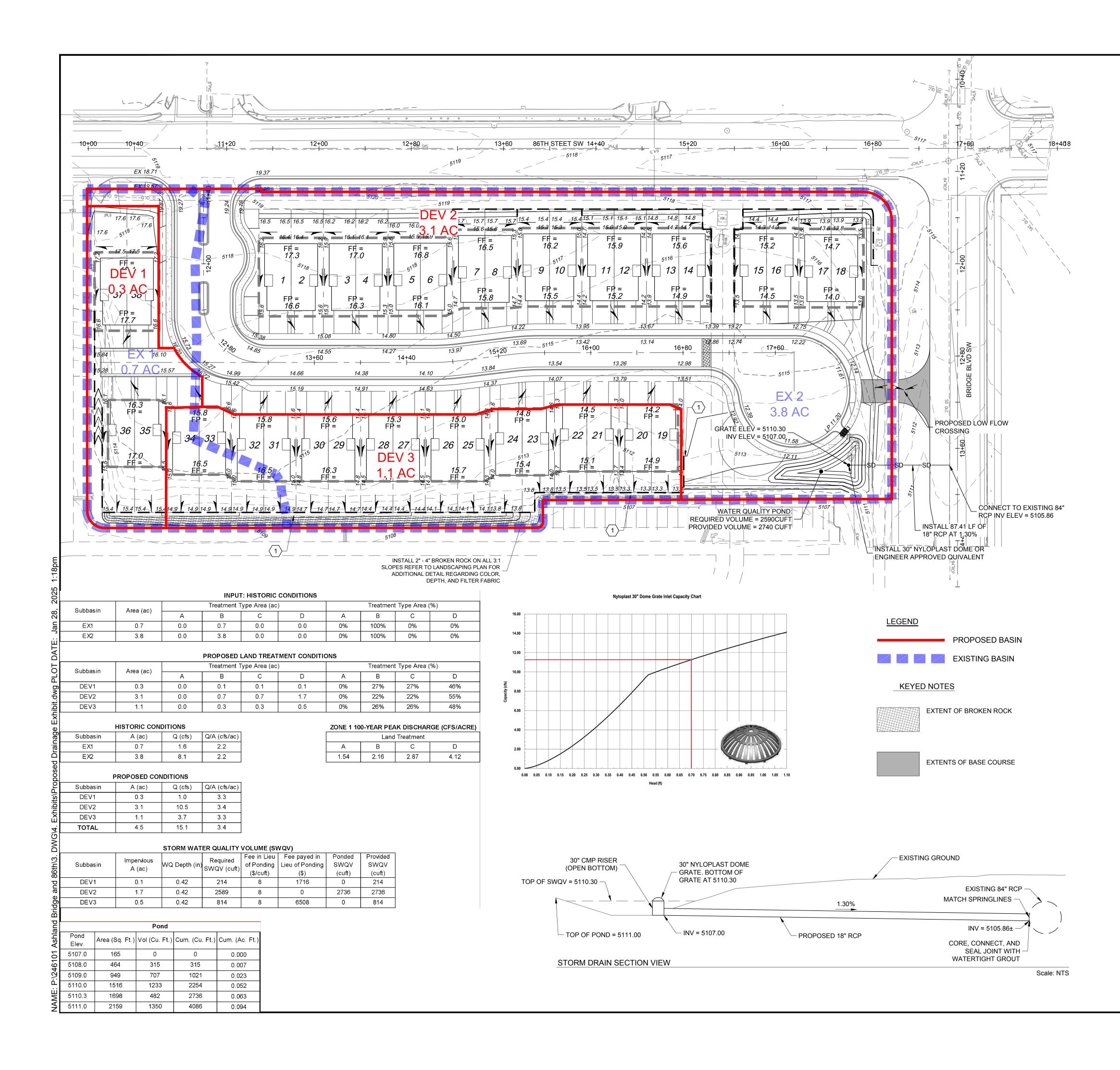
Sincerely,

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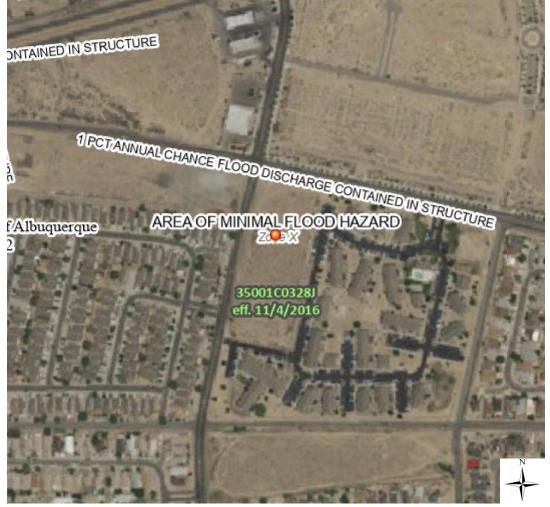
Anthony Montoya, Jr., P.E. Senior Engineer, Hydrology Planning Department, Development Review Services



E: P:/246101 Ashland Bridge and 86th/3. DW/G/3. Sheets/6 Grading Plan.dwg Plotted: Jan 28. 2025 1:17



PROPOSED & EXISTING DRAINAGE EXHIBIT January 28, 2025



FEMA FIRM

MAP NUMBER 35001C0328J

BACKGROUND

THE DEVELOPMENT IS LOCATED AT THE SOUTHEAST CORNER OF 86TH STREET SW AND BRIDGE BOULEVARD SW AND CONTAINS 4.5 ACRES. THE SITE WILL BE SUBDIVIDED INTO 38 LOTS.

THE SITE IS GOVERNED BY THE 2013 AMOLE-HUBBELL DRAINAGE MASTER PLAN.

METHODOLOGY

HYDROLOGY CALCULATIONS FOR THE SITE ARE PERFORMED IN ACCORDANCE WITH THE ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) ARTICLE 6.2 USING THE RATIONAL METHOD TO CALCULATE PEAK FLOW RATES TO ENSURE ALL FLOW PATHS ARE SUFFICIENT TO CARRY FLOWS. THE REQUIRED WATER QUALITY VOLUME WAS CALCULATED BY MULTIPLYING THE IMPERVIOUS AREA BY THE FIRST FLUSH RUNOFF VALUE OF 0.42". ALL HYDROLOGIC AND HYDRAULIC CALCULATIONS CAN BE FOUND ON THIS SHEET.

EXISTING CONDITIONS

UNDER THE EXISTING CONDITIONS, THE MAJORITY OF THE SITE (EX 2) SLOPES FROM SOUTHWEST TO NORTHEAST. A SMALL PORTION OF THE SITE (EX 1) SLOPES TO THE SOUTH. STORMWATER RUNOFF FROM THE SITE IS CONVEYED VIA SURFACE FLOW ACROSS THE LOT AND FREELY DISCHARGES INTO THE PARKING LOT OF THE ADJACENT PROPERTY TO THE EAST. RUNOFF FROM THE EXISTING BASINS EACH ARE DIRECTED TO DIFFERENT PONDS WITHIN THE ADJACENT PROPERTY. HOWEVER, THE RUNOFF FROM BOTH EXISTING SUBBASINS IS ULTIMATELY CONVEYED ALONG WITH RUNOFF FROM THE ADJACENT PROPERTY INTO THE DRAINAGE CHANNEL AT THE SOUTHEAST CORNER OF UNSER BLVD AND BRIDGE BLVD.

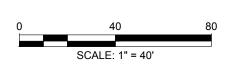
DEVELOPED CONDITIONS

SUBBASIN DEV2 CONTAINS 3.1 ACRES AND DRAINS VIA ROADWAY GUTTER FLOW TO A WATER QUALITY RETENTION POND BY THE CUL-DE-SAC. THE POND DISCHARGES VOLUME IN EXCESS OF THE WATER QUALITY TREATMENT VOLUME INTO AN EXISTING 84" RCP LOCATED IN BRIDGE BOULEVARD AT A RATE OF 11.2 CFS (3.61 CFS/AC) WHICH IS LESS THEN THE ALLOWABLE DISCHARGE RATE OF 12.5 CFS (4.0 CFS/AC) ACCORDING TO THE 2013 DRAINAGE MASTER PLAN BY AMOLE-HUBBELL.

SUBBASINS DEV1 AND DEV 3 CONTAIN A COMBINED TOTAL OF 1.4 ACRES AND DRAIN TO THE ADJACENT PROPERTY TO THE EAST VIA SHEET FLOW AT A RATE OF 4.7 CFS (3.4 CFS/AC) WHICH IS LESS THE ALLOWABLE DISCHARGE RATE OF 5.6 CFS (4.0 CFS/AC) ACCORDING TO THE 2013 AMOLE-HUBBELL DRAINAGE MASTER PLAN.

SUBBASINS DEV 1 AND DEV 3 DISCHARGE LESS RUNOFF TO THE AJACENT PROPERTY THAN IN THE EXISTING CONDITION (SUBBASINS EX1 AND EX2, RESPECTIVELY). SUBBASINS DEV1 AND DEV3 MEET THEIR WATER QUALITY REQUIREMENTS VIA FEE IN LIEU.

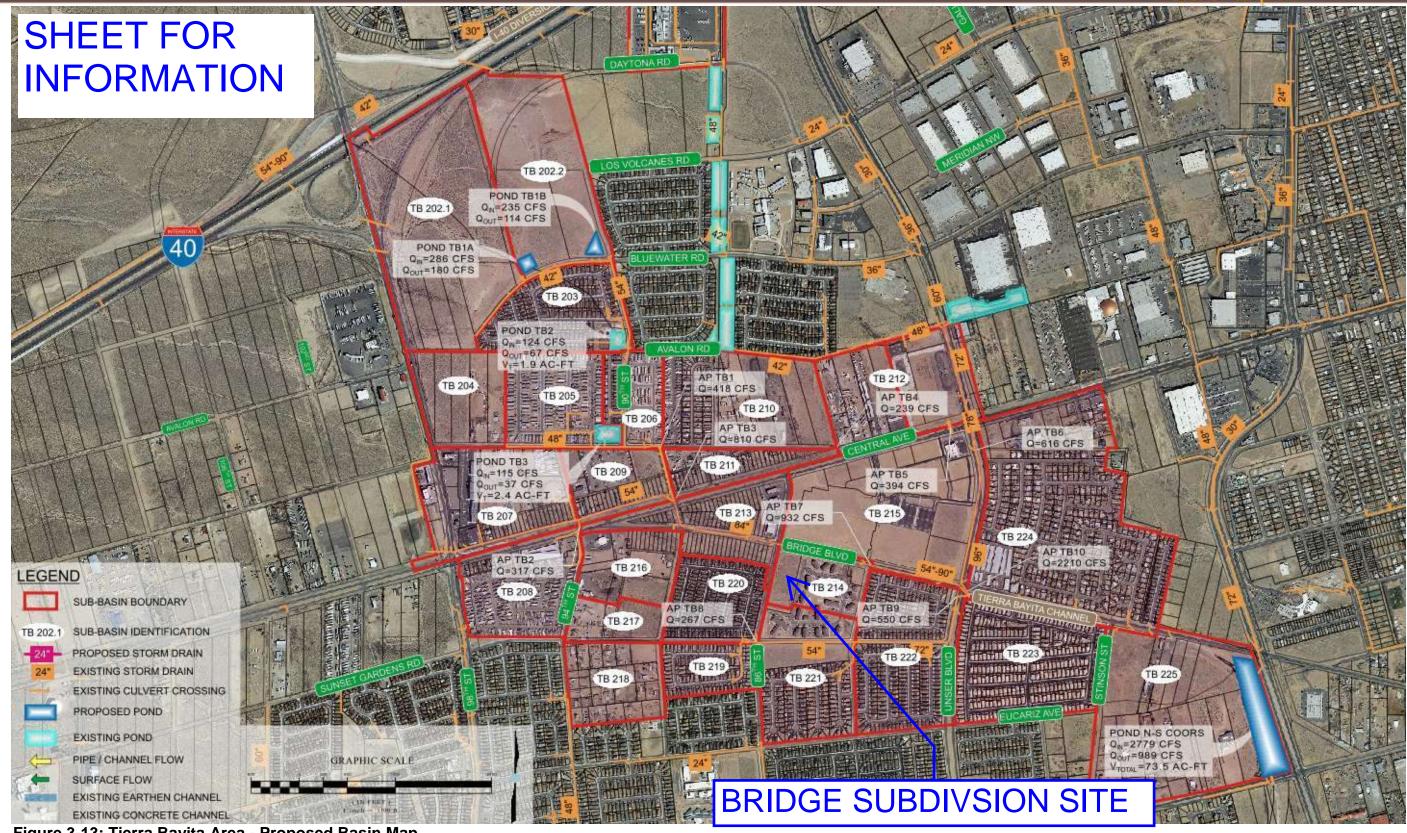
CALCULATIONS OF WATER QUALITY VOLUME AND THE FEE IN LIEU AMOUNT ARE SHOWN IN THE TABLES ON THIS SHEET.





COMMUNITY DESIGN SOLUTIONS, LLC 9384 VALLEY VIEW DR NW, SUITE 100 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187









Amole-Hubbell Drainage Master