CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



August 27, 2015

Scott M. McGee, P.E. 9700 Tanoan Dr NE Albuquerque, NM 87111 Richard J. Berry, Mayor

RE: Marie Hughes Elementary School – 2701 Mojave Street, NW Grading and Drainage Plan for Building Permit Engineer's Stamp Date 7-31-2015 (D11D007)

Dear Mr. McGee:

Based upon the information provided in your submittal received 8-4-15, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- 1. In the street capacity calculations:
 - a. Provide a basin map showing the upstream drainage area contributing to the street flows.
 - b. In the Manning's equation, show how input values are determined.
 - c. Show that the inlets can collect flows from the street and this development without flooding.
 - d. Are inlets in a sump? Contour information is cut off.
- 2. The older plan by JMA in 1995 states that the outfall for this site was the Mariposa Diversion Channel, and there is already a penetration into the channel. Discharging directly into the Channel is the preferable option and should be re-evaluated. I believe there is already a penetration into the channel.
- 3. Analysis Points:
 - a. Provide calculations for inlet and culvert capacities shown on table in "Notes"
 - b. The 4 Analysis Points add to 6.8cfs, but the total is 32.7 cfs. Provide an onsite basin map showing the contributing flows from each basin.
 - c. Show amount of flow at all discharge points into streets, ponds, inlets, etc.
 - d. Basin Map should show how much flow is going in private storm drain system. Provide capacity calculations for the private Storm Drain.
- 4. How much flow is discharging into the most easterly pond (connected to inlet)? How much flow is discharging out of pond? Since it is functioning as detention pond, what is the Max WSEL? Provide calculations.

PO Box 1293

Albuquerque

New Mexico 87103

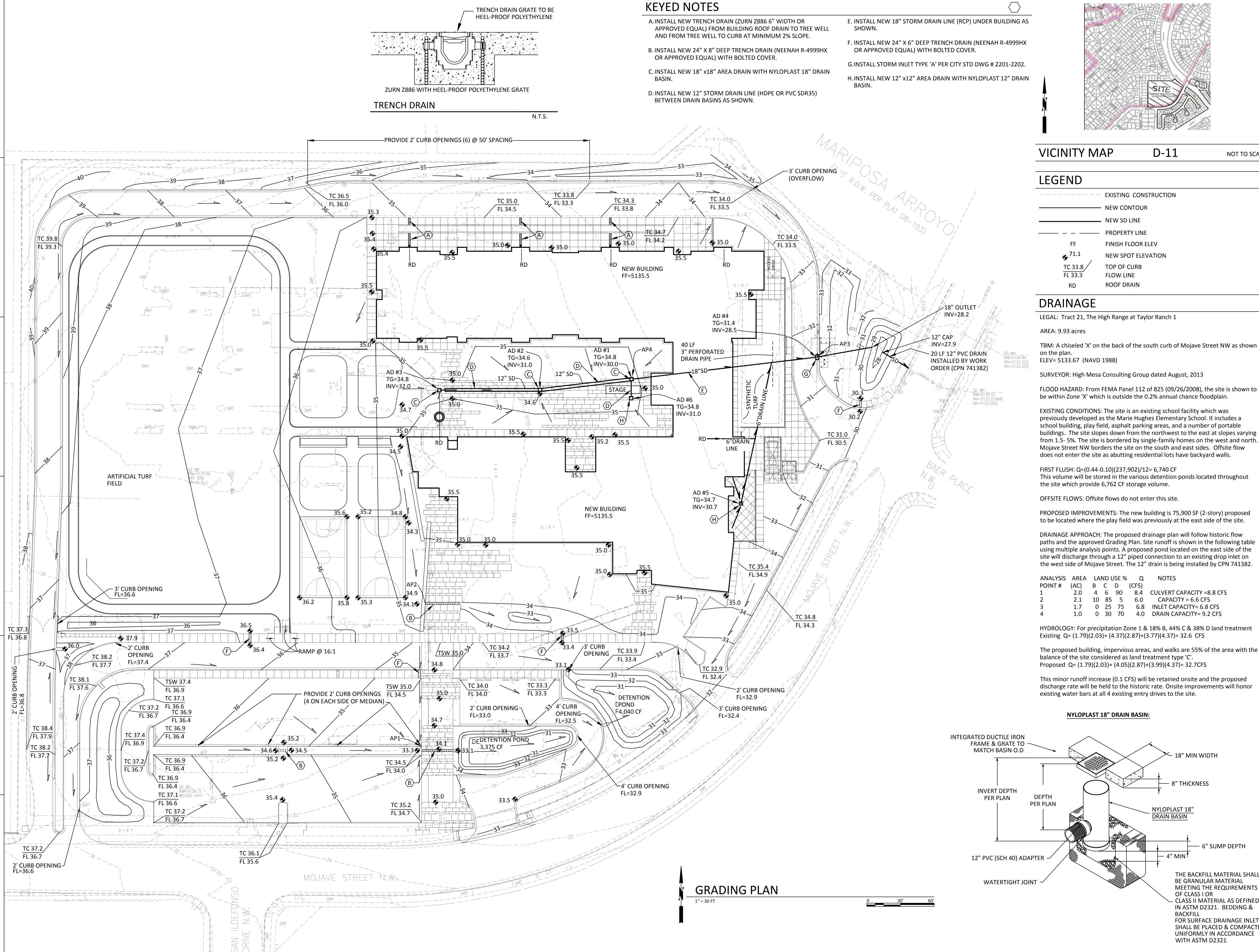
www.cabq.gov

If you have any questions, you can contact me at 924-3695.

Sincerely,

Rita Harmon, P.E. Senior Engineer, Planning Dept. Development Review Services

Orig: c.pdf Drainage file Addressee via Email



NOT TO SCALE

TBM: A chiseled 'X' on the back of the south curb of Mojave Street NW as shown

buildings. The site slopes down from the northwest to the east at slopes varying from 1.5-5%. The site is bordered by single-family homes on the west and north. Mojave Street NW borders the site on the south and east sides. Offsite flow

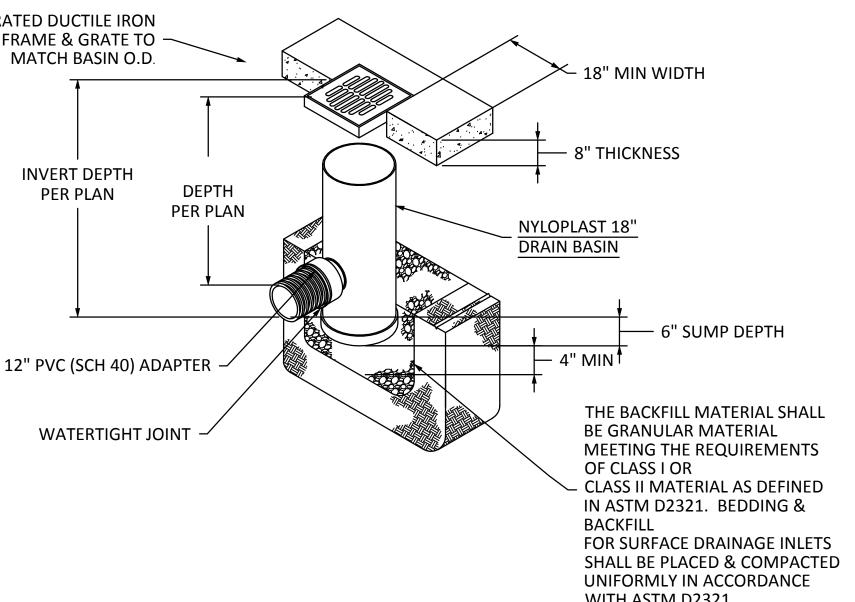
This volume will be stored in the various detention ponds located throughout

DRAINAGE APPROACH: The proposed drainage plan will follow historic flow paths and the approved Grading Plan. Site runoff is shown in the following table using multiple analysis points. A proposed pond located on the east side of the site will discharge through a 12" piped connection to an existing drop inlet on

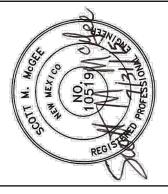
HYDROLOGY: For precipitation Zone 1 & 18% B, 44% C & 38% D land treatment

The proposed building, impervious areas, and walks are 55% of the area with the

This minor runoff increase (0.1 CFS) will be retained onsite and the proposed discharge rate will be held to the historic rate. Onsite improvements will honor



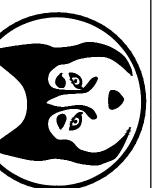
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OOL NW 87120 MARIE HUGHES LEMENTARY SCHOO œSt, NM ELEMENTAIN 1 5701 Mojave Albuquerque, [

GDDA PROJECT NO: 13-004 DATE: 08.10.2015 DRAWN BY: CHECKED BY:

SET NO: SHEET TITLE: **GRADING PLAN**

C101