CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

October 6, 2022

Amit Pathak, P.E. Bohannan Huston Inc. 7500 Jefferson St. NE Courtyard I Albuquerque, NM 87109

RE: Monte Vista Elementary School 3211 Monte Vista Dr. NE Grading and Drainage Plan Engineer's Stamp Date: 09/06/2022 Hydrology File: K16D017

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 9/12/2022, the Grading & Drainage Plan **is not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

- 1. Please clean the plan up. It is really overwhelmed with information and is hard to read.
 - a. See below example screen shot. Cannot make sense of what is being constructed.

NM 87103

PO Box 1293

Albuquerque

www.cabq.gov



- Please follow example G & D sent previously to assist in readability of a G & D.
 Construction limits are not defined. Place a boundary for construction limits on the set.
- 3. It is difficult to tell what works and what does not with what is presented. I do not want to
- 3. It is difficult to tell what works and what does not with what is presented. I do not want to review this in this format.

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

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(ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3695 or <u>dggutierrez@cabq.gov</u>

Sincerely,

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David G. Gutierrez, P.E. Senior Engineer, Hydrology Planning Department

PO Box 1293

Albuquerque

NM 87103

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City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title:	Building Per	mit #:	Hydrology File #: Work Order#:	
DRB#:	EPC#:			
Legal Description:				
City Address:				
Applicant:			Contact:	
Address:				
Phone#:	Fax#:		E-mail:	
Other Contact:			Contact:	
Address:	- 1040 m			
Phone#:	Fax#:		E-mail:	
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE	DRB SITE <u>X</u> ADMIN SITE	
IS THIS A RESUBMITTAL?	Yes No			
DEPARTMENT TRANSPOR	TATION HYD	ROLOGY/DRAINAG	E	
Check all that Apply:		TYPE OF APPRO	DVAL/ACCEPTANCE SOUGHT:	
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERT PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC IMPACT STUDY (TIS STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	PERMIT APPLIC OUT (TCL)	CERTIFICAT PRELIMINA SITE PLAN FINAL PLAT SIA/ RELEA FOUNDATIO GRADING F SO-19 APPR PAVING PE GRADING/ H WORK ORDH CLOMR/LON FLOODPLAI OTHER (SPI	TE OF OCCUPANCY RY PLAT APPROVAL FOR SUB'D APPROVAL FOR BLDG. PERMIT APPROVAL T APPROVAL SE OF FINANCIAL GUARANTEE DN PERMIT APPROVAL PERMIT APPROVAL OVAL RMIT APPROVAL PAD CERTIFICATION ER APPROVAL MR IN DEVELOPMENT PERMIT ECIFY)	
DATE SUBMITTED:	By:			
COA STAFF:	ELECTRONIC	SUBMITTAL RECEIVED:		

Bohannan 🛦 Huston

7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

September 7, 2022

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

Mr. David Gutierrez, PE Senior Engineer, Hydrology City of Albuquerque Planning Department Plaza del Sol Building 600 Second NW Albuquerque, NM 87102

Re: Monte Vista Elementary School, 3211 Monte Vista Dr. NE, Albuquerque, NM 87106 Grading and Drainage Plan, Hydrology File: K16D017 Comment Response/ Re-Submittal

Dear Mr. Gutierrez:

Enclosed for your review is a copy of the revised grading and drainage plan set. Below is a brief description of how the comments from your response letter (dated 02/18/2022) were addressed:

1. Please show how the site drainage is getting off-site.

Response: The drainage patterns are explained in the attached Drainage Management Plan (DMP)

2. Please provide a detail of the proposed swale.

Response: These construction details are provided in the landscape plans, attached.

a. This appears to act more like a pond for water quality. Is that the intention? If so, please call this out and provide volume.

Response: This is shown and explained in the DMP.

3. Elaborate how you will treat the flow for the proposed parking lot for storm water quality.

Response: This is shown and explained in the DMP.

4. Please show how the site drainage is getting off-site.

Response: Putting all the information on the overall plan would not read clearly per that sheet's scale. Detailed elevations are defined on the individual grading sheets. Furthermore, the drainage patterns are explained in the DMP.

Engineering **A**

- Spatial Data 🔺
- Advanced Technologies **A**

Mr. David Gutierrez, PE Senior Engineer, Hydrology City of Albuquerque Planning Department September 7, 2022 Page 2

5. You are showing sections (A and B) on C-200 but do not show where these are on the site. Please show what location.

Response: This is shown on grading sheet C201.

6. Clearly delineate the affected construction area.

Response: Spot elevations on the grading plan clearly define the outline and limits of construction.

7. It is difficult to know what is being proposed vs what is existing. Is there any new pavement? If so show it.

Response: Existing features and survey information are depicted as gray, proposed items are depicted in black on the plans. Yes, there is new paving; the paving plan has been attached to this submittal for hydrology review.

8. Label all affected area and calculate what is proposed vs existing clearly in narrative.

Response: This is shown and explained in the revised DMP.

9. Please calculate the water quality volume required (this will include the entire construction area that is affected/changed for redevelopment per DPM CH 6).

Response: This is shown and explained in the DMP

10. Please clean the plans up so it is clear how the elevations are changing.

Response: Elevations are defined in the grading plan. There is a lot of detailed definition needed so that it gets built correctly; therefore, a lot of spot elevations provided.

11. Clearly show how existing flows will be affected by the proposed building and drain system.

Response: The drainage patterns are explained in the DMP narrative.



Response: The keynote applied to this point calls out the connection to downspout.

Mr. David Gutierrez, PE Senior Engineer, Hydrology City of Albuquerque Planning Department September 7, 2022 Page 3



Response: This area is an elevated play area with a ramped path/ tricycle track around it.

14. Overall, the site needs to clearly show how water is moving through the site and where it ends up.

Response: The drainage patterns are explained in the DMP. Furthermore, flow arrows are provided in the grading sheets.

With this submittal, we are requesting Hydrology Approval. If you have any questions or require further information, please feel free to contact me.

Sincerely,

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Patrick Sisneros, PE Project Engineer Community Development and Planning

Enclosures Civil Plans, DMP, Landscape Plans



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	E	DATE: MARCH 2018			
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			IS=IOP OF SIDEWALK TG=TOP OF GRATE, FGH=FINISH GRADE HIGH, FGL=FINISH GRADE LOW	COPYRIGHT: DESIGN PLUS, LLC	
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PROPOSED STORM DRAIN INLETS

SHEET ____ 0F ____

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LEGEND ----- PROPERTY LINE LIMITS OF GRADING ____ -5024 -----EXISTING INTERMEDIATE CONTOUR ∠ ∧ . œ Ľ∆≦ 25 PROPOSED INDEX CONTOUR PROPOSED INTERMEDIATE CONTOUR DRAINAGE BASIN 50, 50, DRAINAGE NARRATIVE INTRODUCTION AND METHODOLOGY: THE PURPOSE OF THIS SUBMITTAL IS TO PRESENT A DRAINAGE AND GRADING PLAN FOR THE MONTE VISTA ELEMENTARY SCHOOL (MVES) BUILDING ADDITION AND PARKING LOT RENOVATION. THIS PROJECT WILL CONSIST OF THE REMOVAL AND REPLACEMENT OF EXISTING WEST PARKING LOT AND COURTYARD. IN ADDITION, THE EXISTING PORTABLE PORTABLE BUILDINGS WILL BE REMOVED AND THE NORTH PARKING LOT WILL BE EXPANDED. THE SCHOOL IS LOCATED ON THE NORTHWEST CORNER OF MONTE VISTA BLVD AND CAMPUS BLVD NE. PER FEMA COMMUNITY MAP PANEL #35001C0353H, THE SITE IS NOT LOCATED WITHIN A FLOODPLAIN. CAMPUS DRIVE NW IS IDENTIFIED AS BEING IN ZONE AO WITH A DEPTH OF 1-FT. THE SITE IS IN RAINFALL ZONE 2. THE LIMITS OF CONSTRUCTION ARE 1.05 ACRES.

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ALBUQUERQUE PUBL MONTE VISTA ELEMEN CLASSROOM AD 3211 MONTE VISTA ALBUQUERQUE, NEW N

DATE: MARCH 2018

REVISIONS

PROJECT NO:

CAD DWG FILE:

DRAWN BY: LS

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COPYRIGHT:

SHEET TITLE

PLAN

DESIGN PLUS, LLC

DRAINAGE MANAGEMENT

DMP-00

SHEET ____ 0F ____

THE HYDROLOGIC ANALYSIS PROVIDED WITH THIS DRAINAGE SUBMITTAL HAS BEEN PREPARED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 6 (DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL), LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE EXISTING AND PROPOSED CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "APS-MVES BASIN DATA TABLE" (THIS SHEET). THIS SITE WAS ANALYZED FOR THE 100-YEAR, 6-HOUR AND THE 100-YEAR, 10-DAY STORM EVENTS. THE STORM DRAIN IS SIZED TO CONVEY THE 100-YR, 10-DAY STORM EVENT AND THE PROPOSED POND IS SIZED TO RETAIN THE FIRST FLUSH VOLUME.

EXISTING CONDITIONS:

THE SITE IS CURRENTLY DEVELOPED AND ALMOST ENTIRELY IMPERVIOUS. THE SITE CONTAINS PORTABLE BUILDINGS, A COURTYARD, SMALL LANDSCAPED ISLANDS, AND PARKING AREAS. THE SITE GENERALLY SLOPES FROM SOUTHEAST TO NORTHWEST. THERE IS NO EXISTING ONSITE STORM DRAINAGE INFRASTRUCTURE. EXISTING STORM RUNOFF SHEET FLOWS TO A SHALLOW STORM WATER QUALITY POND LOCATED AT THE NORTHWEST BOUNDARY OF THE MVES PROPERTY. THE ONSITE GENERATED RUNOFF IS RELEASED TO EXISTING STORM DRAIN INFRASTRUCTURE WITHIN CAMPUS BLVD NE. THE EXISTING INFRASTRUCTURE IS PART OF A PREVIOUSLY APPROVED DRAINAGE MANAGEMENT PLAN.

THE EXISTING 1.05 ACRE SITE DISCHARGES APPROXIMATELY 4.45 CFS TO THE NORTH POND AND INTO THE EXISTING STORMWATER INFRASTRUCTURE OF COLLEGE BLVD.

PROPOSED:

THIS DRAINAGE MANAGEMENT PLAN IS PROVIDED FOR THE FULLY DEVELOPED SITE TO SAFELY MANAGE THE DESIGN STORM EVENTS USING ONSITE LID MEASURES. THE PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A NEW BUILDING AND THE REPLACEMENT OF ASSOCIATED PARKING, PORTABLE BUILDINGS, AND COURTYARD AREAS. THESE IMPROVEMENTS WILL REQUIRE REFINEMENT OF EXISTING GRADES AND THE IMPLEMENTATION OF STORM DRAIN INFRASTRUCTURE. IN PROPOSED CONDITIONS, DEVELOPED PEAK FLOWS WILL DISCHARGE AT A RATE EQUAL TO THE EXISTING PEAK FLOWS FOR THE 100-YEAR, 6-HOUR STORM EVENT. THE PROPOSED SITE WILL MAINTAIN EXISTING DRAINAGE PATTERNS. THE SITE IS DIVIDED INTO 10 ONSITE BASINS, WHICH ARE MANAGED BY STORM DRAINS AND STORMWATER QUALITY POND. THE LAND TREATMENTS AND VOLUME CALCULATIONS FOR THE CONTRIBUTING BASINS ARE SHOWN IN TABLE FORMAT ON THIS SHEET.

STORM DRAIN INFRASTRUCTURE WILL BE INSTALLED AROUND THE PROPOSED BUILDING AND WITHIN THE PARKING LOT TO CONVEY FLOWS TO THE POND. STORM RUNOFF FROM BASINS PB3, PB6-PB8, AND PB10 (WHICH INCLUDES THE COURTYARD, BUILDING ROOF DRAINS, NEW PARKING LOT, AND NEW PLAY AREAS) ARE COLLECTED BY A SERIES OF STORM DRAINS AND INLETS. STORM RUNOFF WITHIN BASINS PB-1 AND PB-2 SHEET FLOW NORTHEAST TO THE POND. BASINS PB4, PB5, AND PB9 ARE DIRECTED TO THE EXISTING ROADSIDE SWALE ALONG THE WEST PROPERTY EDGE BY RE-GRADING. THE RUNOFF FROM THE PROPOSED IMPROVEMENTS IS CONVEYED TO THE MODIFIED POND AT THE NORTH SITE BOUNDARY.

THE NORTH POND HAS BEEN DEEPENED AND EXPANDED TO AUGMENT THE DETENTION CAPACITY, ALLOWING THE FULL FIRST FLUSH VOLUME OF THE PROPOSED IMPROVEMENTS TO BE RETAINED ON SITE. AN EXISTING STORM DRAIN PIPE CONVEYS DISCHARGE FROM THE EXISTING POND TO OFFSITE STORM DRAIN INFRASTRUCTURE. THE PROPOSED IMPROVEMENTS TO THE NORTH POND ACCOMMODATE THIS EXISTING STORM DRAIN PIPE AND ALLOW FOR THE PIPE TO REMAIN IN PLACE, CONVEYING DISCHARGE AT HISTORIC RATES.

THE TOTAL STORM RUNOFF FROM THE SITE IS 4.27 CFS. THIS IS LESS THAN THE 4.45 CFS IN EXISTING CONDITIONS. THE PROPOSED SITE IS REQUIRED TO INCORPORATE 775 CF OF STORM WATER QUALITY PONDING ONSITE (0.26 INCHES OVER THE IMPERVIOUS AREA). STORM WATER QUALITY PONDING IS A BEST PRACTICE. THERE IS CURRENTLY 600 CF OF STORM WATER QUALITY VOLUME PROVIDED IN THE EXISTING POND. THE EXISTING ONSITE POND AT THE NORTHWEST CORNER OF THE PROPERTY IS EXPANDED TO PROVIDE STORAGE FOR THE ADDITIONAL 775 CF STORM WATER QUALITY VOLUME. REGRADING OF THE ONSITE POND PROVIDES A TOTAL STORAGE VOLUME OF 1563 CF. THIS IS GREATER THAN THE TOTAL REQUIRED STORAGE VOLUME OF 1375 CF.

CONCLUSION:

THE ONSITE STORM DRAIN NETWORK AND ASSOCIATED INLETS ARE SIZED TO FULLY ACCOMMODATE THE DESIGN STORM EVENT. THE DETENTION PONDS HAVE ADEQUATE CAPACITY TO FULLY RETAIN THE REQUIRED FIRST-FLUSH VOLUME. THIS DRAINAGE MANAGEMENT PLAN DEMONSTRATES THAT THE PROPOSED DEVELOPMENT IS IN CONFORMANCE WITH CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS. THIS DRAINAGE MANAGEMENT PLAN IS BEING SUBMITTED IN SUPPORT OF HYDROLOGY APPROVAL.

