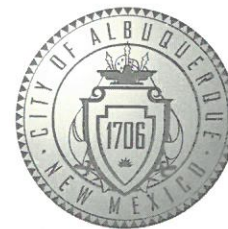


CITY OF ALBUQUERQUE



March 29, 2018

Scott Eddings, P.E.
Huitt-Zollars
333 Rio Rancho Blvd., Suite 101
Rio Rancho, NM, 87124

RE: **ABCWUA Fence**
Tract 2-A, Bosque School
Grading and Drainage Plan
Engineer's Stamp Date: 3/27/18
Hydrology File: E12D015F

Dear Mr. Eddings:

Based on the information provided in your submittal received on 3/28/18, the Grading Plan is approved for Site Plan for Building Permit and Building Permit.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: ABCWUA FENCE Building Permit #: _____ Hydrology File #: E12D015F

DRB#: 1000901 EPC#: 08EPC-40051 Work Order#: _____

Legal Description: Tract 2-A Bosque School

City Address: _____

Applicant: Huitt-Zollars, Inc Contact: Scott Eddings

Address: 333 Rio Rancho Blvd, Rio Rancho NM, 87124

Phone#: 505-892-5141 Fax#: 505-892-3259 E-mail: seddings@huitt-zollars.com

Other Contact ABCWUA Contact: Jon Ertsgaard

Address: One Civil Plaza NW

Phone#: 505-289-3028 Fax#: NA E-mail: jertsgaard@abcwua.org

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☐ TEMPORARY CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☒ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR

☒ **PRE-DESIGN MEETING?**

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

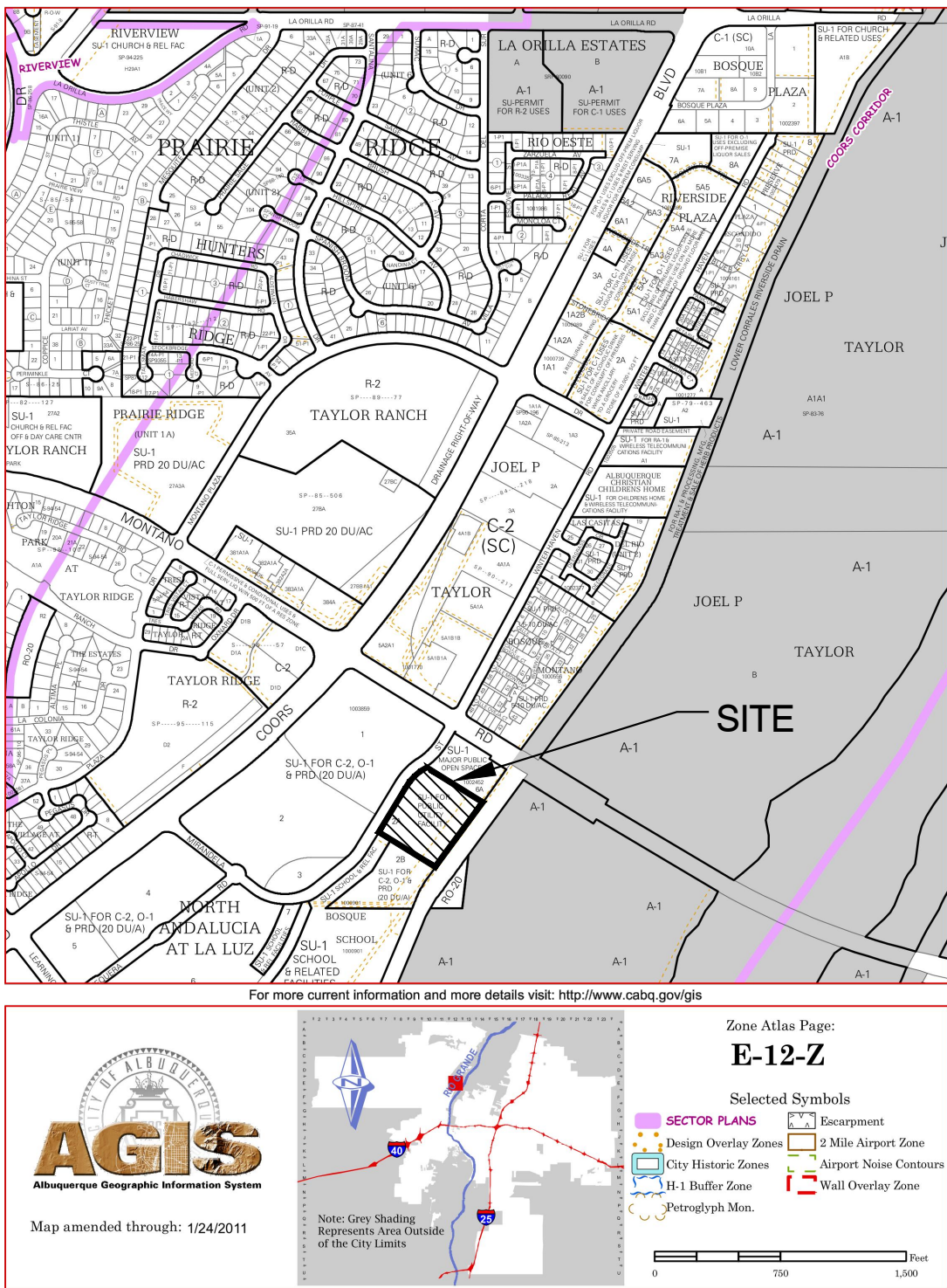
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: March 27, 2018

By: Scott Eddings



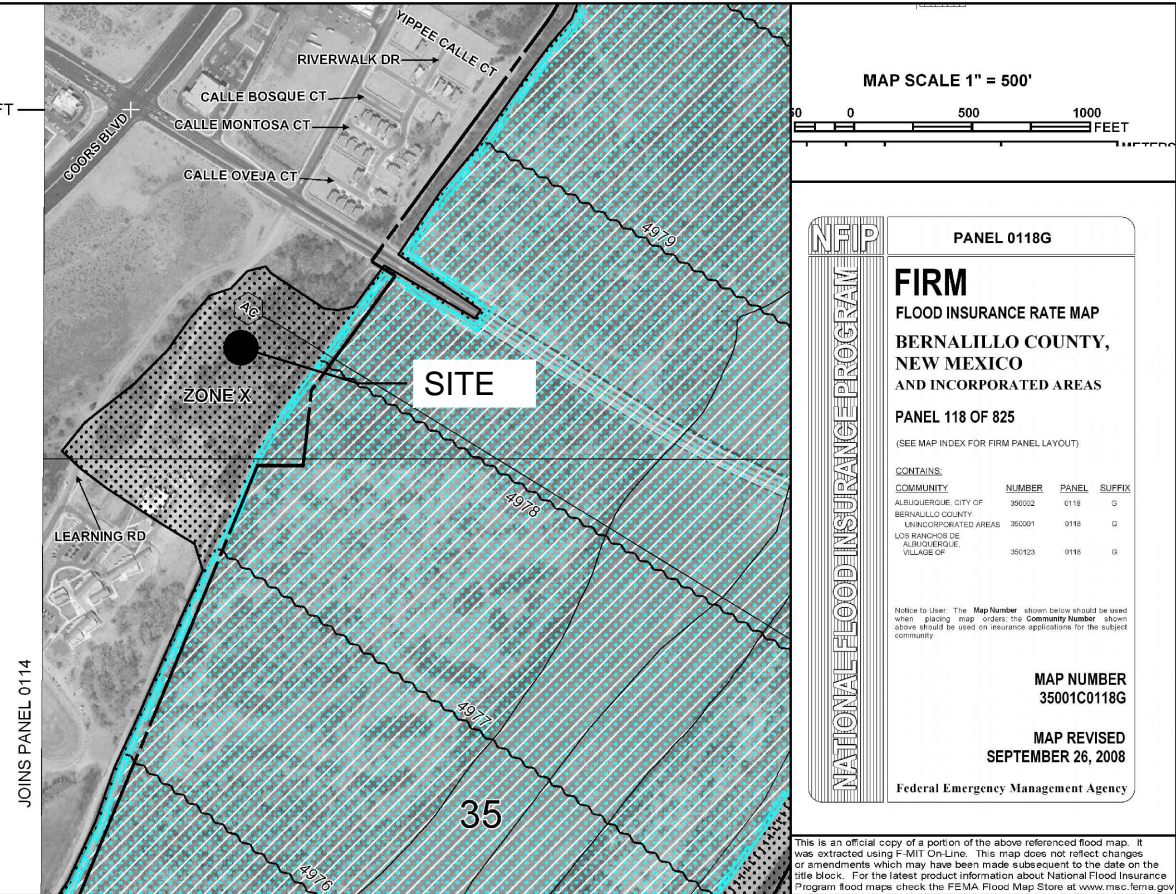
Trect 2-A							
						AREA =	3.27 ac.
DRAINAGE PRECIPITATION:	360 = 2.20 in. 1440 = 2.66 in. 10day= 3.67 in.						
EXCESS PRECIPITATION:				PEAK DISCHARGE:			
TREATMENT A	0.44 in.			1.29 cfs/ac.			
TREATMENT B	0.67 in.			2.03 cfs/ac.			
TREATMENT C	0.99 in.			2.87 cfs/ac.			
TREATMENT D	1.97 in.			4.37 cfs/ac.			
<u>EXISTING CONDITIONS:</u>				<u>PROPOSED CONDITIONS:</u>			
TREATMENT A 3.27 ac.				TREATMENT A 3.268 ac.			
TREATMENT B 0 ac.				TREATMENT B 0.00 ac.			
TREATMENT C 0 ac.				TREATMENT C 0 ac.			
TREATMENT D 0 ac.				TREATMENT D 0.00 ac.			
<u>EXISTING EXCESS PRECIPITATION:</u>							
Weighted E = (0.44)(3.27)+(0.67)(0.00)+(0.99)(0.00)+(1.97)(0.00) / 3.27 ac.							
V100-360 = (0.44)(3.27) / 12 = 0.119830 ac-ft = 5220 cf							
<u>EXISTING PEAK DISCHARGE:</u>							
Q100 = (1.29)(3.27)+(2.03)(0.00)+(2.87)(0.00)+(4.37)(0.00) = 4.22 cfs							
<u>PROPOSED EXCESS PRECIPITATION:</u>							
Weighted E = (0.44)(3.27)+(0.67)(0.00)+(0.99)(0.00)+(1.97)(0.00) / 3.27 ac.							
V100-360 = (0.44)(3.27) / 12.0 = 0.119830 ac-ft = 5220 cf							
V100-1440 = (0.12)+ (0.00)(2.66 - 2.20) / 12 = 0.119830 ac-ft = 5220 cf							
V100-10day = (0.12)+ (0.00)(3.67 - 2.20) / 12 = 0.119830 ac-ft = 5220 cf							
<u>PROPOSED PEAK DISCHARGE:</u>							
Q100 = (1.29)(3.27)+(2.03)(0.00)+(2.87)(0.00)+(4.37)(0.00) = 4.22 cfs							



ZONE ATLAS PAGE E-12-Z

LEGEND

--- 6560 ---	EXISTING MINOR CONTOUR
--- 6561 ---	EXISTING MAJOR CONTOUR
— 6561 —	PROPOSED MINOR CONTOUR
— 6561 —	PROPOSED MAJOR CONTOUR
+ + + + + + + +	LIMITS OF GRADING
□ — □	PROPOSED FENCE - OPEN TO FLOW
—————	PROPOSED SIDEWALK
◀	DISCHARGE LOCATION
← ...	FLOW DIRECTION
▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	RETAINING WALL



FIRM PANEL 35001C0118G

FLOOD ZONE

PER THE FEMA MAP NUMBER 35001 C0118G DATED
SEPTEMBER 26, 2008 SHOWS THE SITE IS WITHIN FLOOD
HAZARD ZONE X.

ENGINEER'S CERTIFICATION

I PERSONALLY INSPECTED THIS SITE AND NO GRADING, FILLING, OR EXCAVATION HAS OCCURRED SINCE THE PREPARATION OF THE TOPOGRAPHY SHOWN ON THIS PLAN.

SURVEY

SURVEY FROM BERNALILLO COUNTY PUBLIC LIDAR
MAPPING.

PROPOSED DRAINAGE CONDITIONS

THE PROPOSED DRAINAGE CONDITIONS INCLUDE CONSTRUCTING A PUBLIC SIDEWALK AND DEVELOPING THE RIGHT OF WAY TO SLOPE FROM BACK OF CURB TO PROPERTY LINE AT 2 PERCENT. THE SITE WILL BE TAPERED FROM THE NEW RIGHT OF WAY FILL TO 15 FEET INSIDE THE PROPERTY LINE ADJACENT TO MIRANDELA TO SLOPE AT 2 PERCENT AWAY FROM THE RIGHT OF WAY AND THEN SLOPE AT 10 PERCENT TO DAYLIGHT.

THE SITE DISCHARGES APPROXIMATELY 9,647 CF OF STORM WATER AT A RATE OF 7.75 CFS INTO THE PUBLIC STORM POND. THIS REMAINS UNCHANGED BETWEEN THE EXISTING AND PROPOSED CONDITIONS.

EXISTING DRAINAGE CONDITIONS

THERE IS A 100' WIDE PUBLIC DRAINAGE POND EASEMENT ALONG THE EASTERN BOUNDARY AND A PUBLIC POND HAS BEEN DEVELOPED WITHIN THE EASEMENT. THERE IS A 20' WIDE PUBLIC DRAINAGE EASEMENT ALONG THE NORTH PROPERTY LINE AND A 42" DIAMETER STORM DRAIN HAS BEEN PLACED WITHIN THE EASEMENT TO CONVEY STORM WATER FROM MIRANDELA ST. TO THE POND. THE LANDS ENCUMBERED BY A DRAINAGE EASEMENTS TOTALS 1.2319 AC. THE REMAINING 3.2681 AC OF THE PROPERTY HAS NOT BEEN DISTURBED.

EXISTING TERRAIN SLOPES FROM WEST TO EAST AND GENERALLY NORTH TO SOUTH. STORM WATER SHEET FLOWS ACROSS THE SITE AND DISCHARGES INTO THE PUBLIC STORM DRAINAGE POND.

MIRANDELA ST. TO THE WEST, PREVENTS OFF-SITE STORM WATER FROM
LANDS WEST OF THE SITE.

TRACT 6-A TO THE NORTH PROVIDES ACCESS TO OPEN SPACE AND HAS BEEN GRADED TO PREVENT STORM WATER FROM FLOWING ACROSS THE PROPERTY LINE.

MRGCD LOWER CORRALES DRAIN EXTENSION TO THE EAST DOES NOT ACCEPT OR RELEASE STORM WATER TO TRACT 2-A, TRACT 2-B TO THE SOUTH SLOPES FROM WEST TO EAST AND GENERALLY NORTH TO SOUTH. STORM WATER SHEET FLOWS ACROSS THE SITE AND DISCHARGES INTO THE PUBLIC STORM DRAINAGE POND.

