# CITY OF ALBUQUERQUE

*Planning Department* David Campbell, Director



Mayor Timothy M. Keller

June 7, 2018

Jeffrey T. Wooten, P.E. Wooten Engineering 1005 21st Street SE, Suite 13 Rio Rancho, NM, 87124

RE: 21st Century Academy 4300 Cutler Ave NE Grading Plan Engineer's Stamp Date: 04/10/18 Hydrology File: H17D115

Dear Mr. Wooten:

PO Box1293 Based upon the information provided in your submittal received 06/07/2018, the Grading Plan is approved for Building Permit.

Albuquerque Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

www.cabq.gov Please provide a Private Facility Drainage Covenant per Chapter 17 of the DPM for first flush ponds prior to Certificate of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

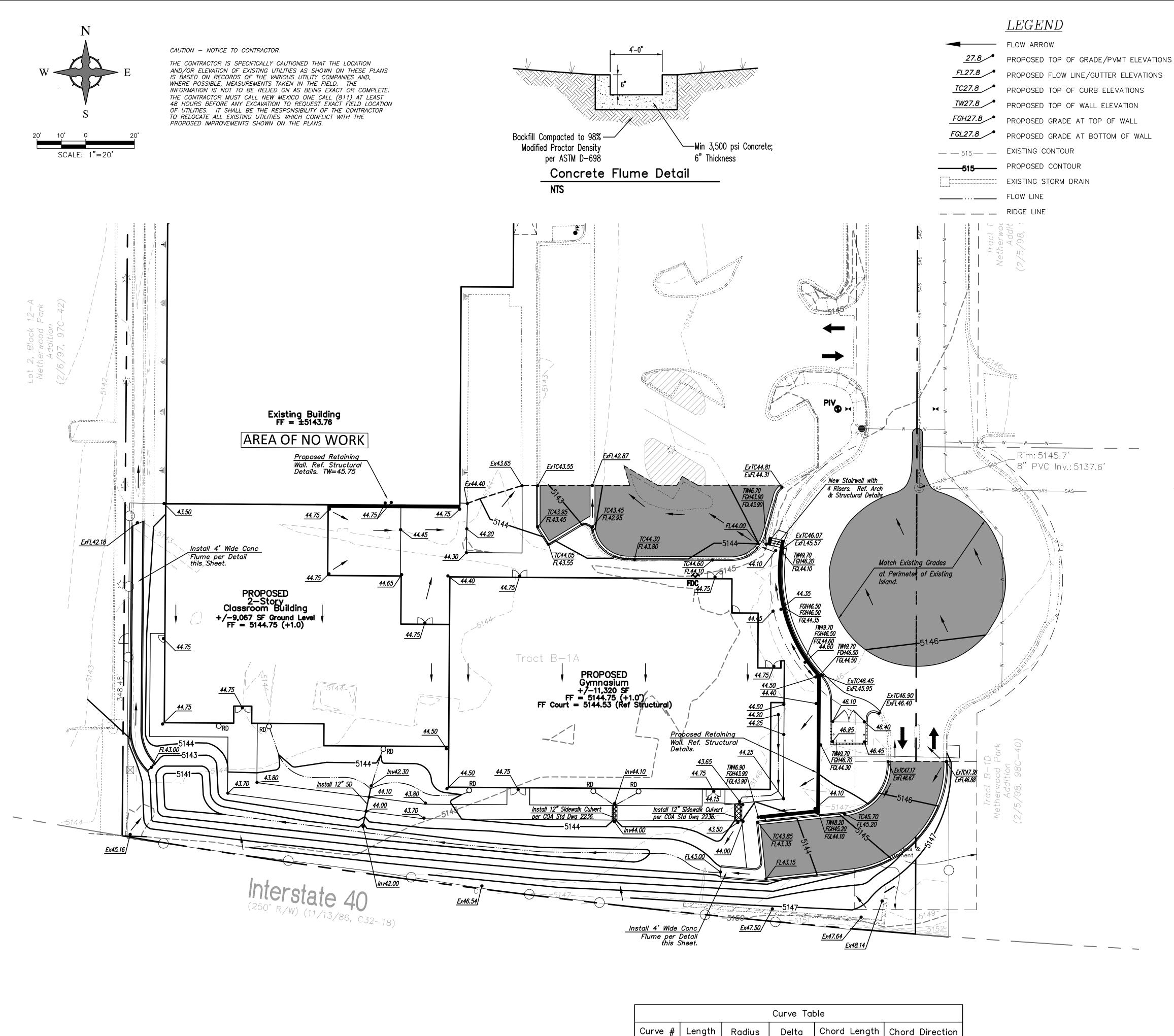


# City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 3/2018)

Project Title:	Building Pe	ermit #: Hydrology File #:				
		Work Order#:				
Legal Description:						
City Address:						
Applicant:		Contact:				
Address:						
		E-mail:				
Other Contact:		Contact:				
Address:						
Phone#:	Fax#:	E-mail:				
Check all that Apply:		IS THIS A RESUBMITTAL?: Yes No				
DEPARTMENT: 	RMIT APPLIC	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL 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 GRADING/ PAD CERTIFICATION				
TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?		WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)				

DATE SUBMITTED:	By:	
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	
	FEE PAID:	



Curve Table						
Curve #	Length	Radius	Delta	Chord Length	Chord Direction	
C1	328.18'	3819.72'	4 <b>°</b> 55'21"	328.07'	N 82°56'56"W	

5 (UNIT 2) SP-77-592 6B C-3 CHANNEL ROW SP-97-13 CUTLER	AMAFCA NORTH DIVERSION CHANNEL C1 EMBUDO CHANNEL ROW SP-84-222 17 19 VAC ORD 52-1971 VAC ORD 52-1971 VAC ORD 52-1971 VAC ORD 52-1971 VAC ORD 52-1971
Υ Y	
NTS	SP-98-8 SP-98-8 AP Zone Atlas H-17 otion: Tract B-1-A, Netherwood Park Add'n
1% ANNUAL ELOODDISC CONTAINED IN	ARGE HANNEL
1% A FLO CONTAIN	STTE DINUAL CHANCE DD DISCHARGE D IN STORM SEVER

### FIRM MAP 35001C0351H

Per FIRM Map 35001C0351H, dated August 16, 2012, the site is not located in the 'Zone X Floodplain' and determined to be within the 0.2% chance Annual Floodplain area with depths of less than 1 foot.

#### GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN. 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

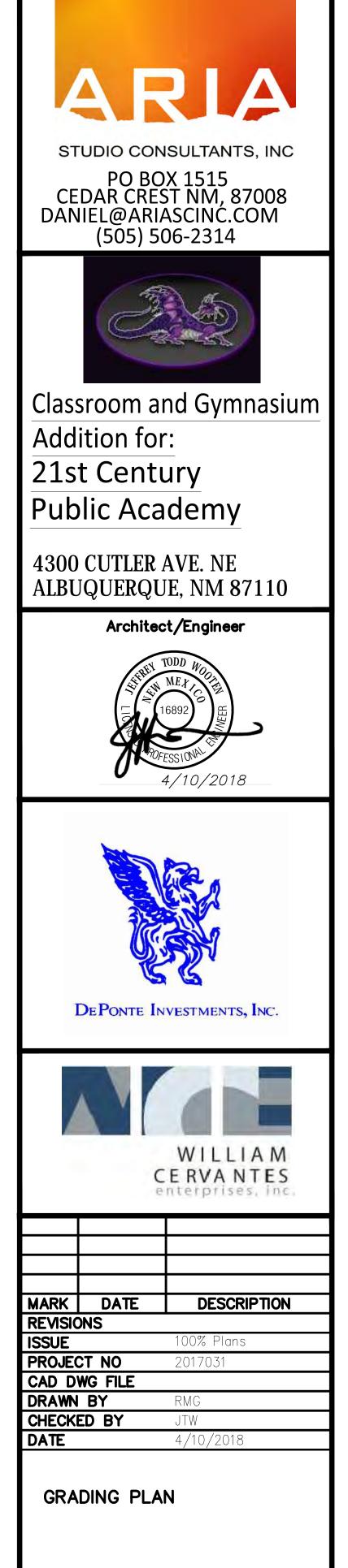
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.

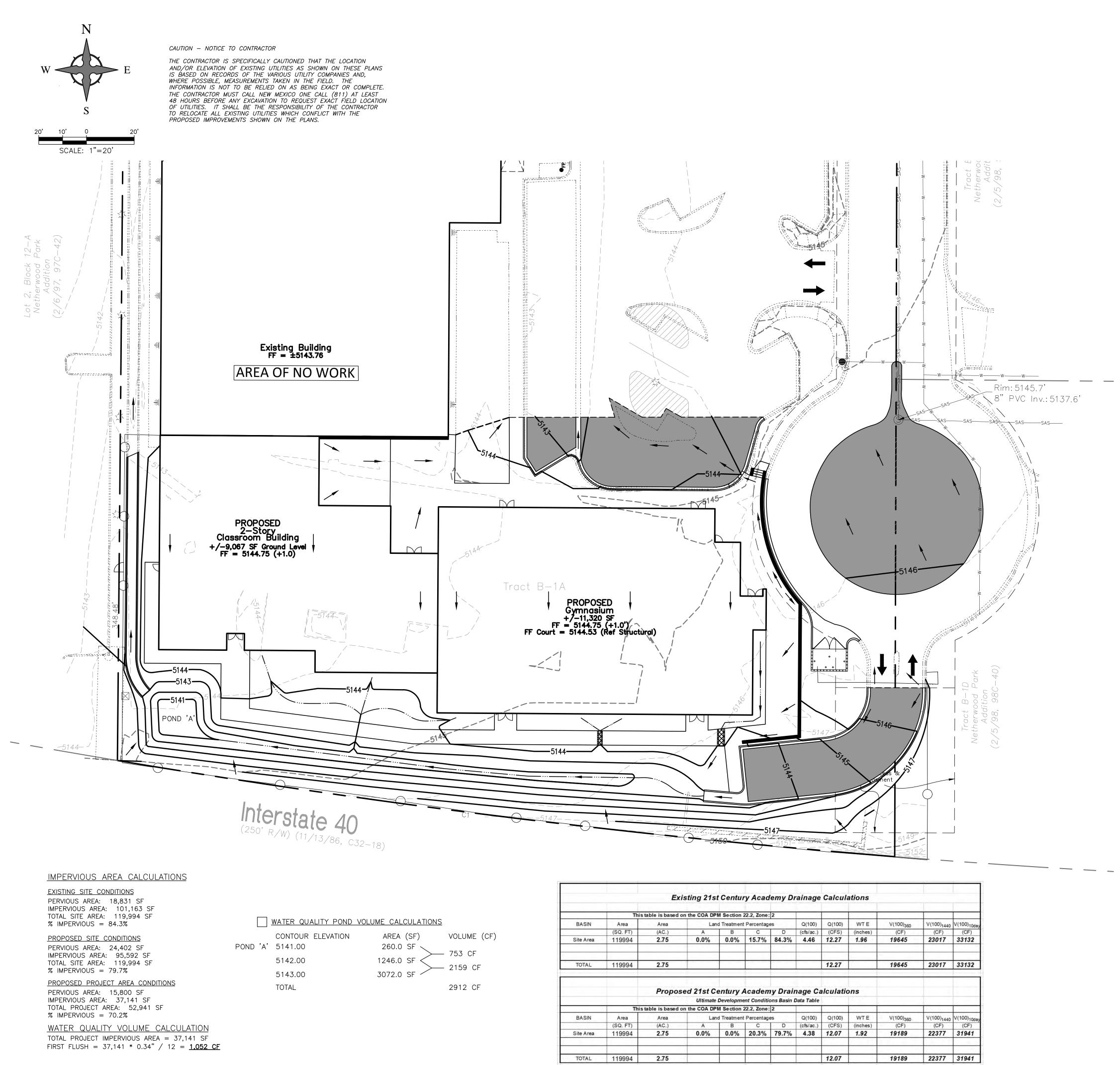
10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF APPLICABLE) PRIOR TO BEGINNING CONSTRUCTION.

11. THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

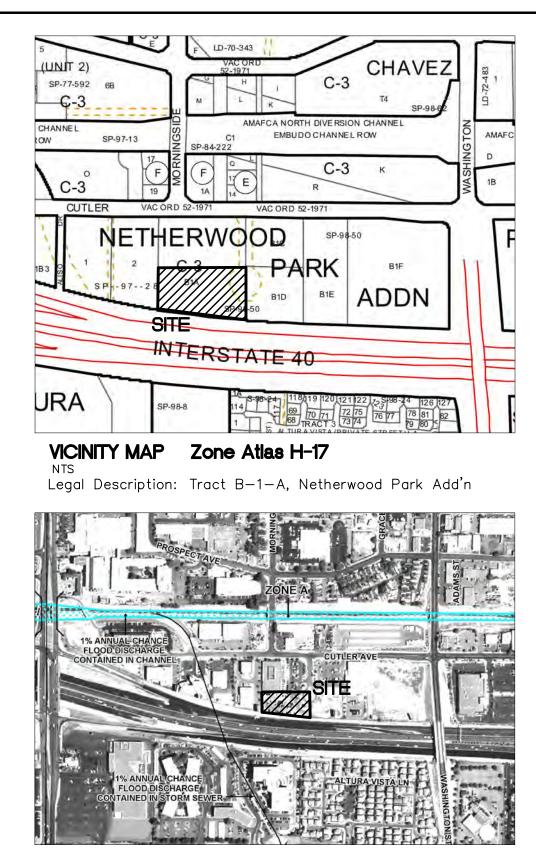


Wooten Engineering 1005 21st St SE Suite 13 Rio Rancho, N.M. 87124 Phone: (505) 980-3560

C101



		Exi	isting 21s	t Centur	ry Acad	emy Di	ainage	Calcula	ations			
					-			1				
	This	table is based o	on the COA DP	M Section	22.2, Zone:	2	1	01				
BASIN	Area	Area	Lan	d Treatment	Percentage	es	Q(100)	Q(100)	WTE	V(100)360	V(100)1440	V(100)100
	(SQ. FT)	(AC.)	A	В	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Site Area	119994	2.75	0.0%	0.0%	15.7%	84.3%	4.46	12.27	1.96	19645	23017	33132
TOTAL	119994	2.75	-					12.27		19645	23017	33132
		Propos	ed 21st C	entury /	Academ	v Draii	nage Ca	alculatio	ons			
					ent Conditio	-						
	This	table is based o	on the COA DP		and a second provide second		1		-			
		abie is bused a	Land Treatment Percentages			0/4001	Q(100)	WTE	V(100)360	V(100)1440	1//1001	
BASIN	Area	Area	Lan	d Treatment	Percentage	es	Q(100)	-()				V(100)100
BASIN			Lan	d Treatment B	Percentage	es D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
BASIN Site Area	Area	Area			-		1917 I. I. K.		(inches) 1.92			



### FIRM MAP 35001C0351H

Per FIRM Map 35001C0351H, dated August 16, 2012, the site is not located in the 'Zone X Floodplain' and determined to be within the 0.2% chance Annual Floodplain area with depths of less than 1 foot.

#### DRAINAGE MANAGEMENT PLAN

#### INTRODUCTION

The purpose of this submittal is to provide a final drainage management plan for the Redevelopment of Tract B-1-A, Netherwood Park Addition, located at 4300 Cutler Ave NE per the Vicinity Map this sheet. The site area is approximately 2.75 acres; however, the project area is approximately 1.52 acres and consists of the southern portion of the site. The site is located in COA Hydrologic Zone 2.

#### EXISTING HYDROLOGIC CONDITIONS

The site currently consists of a  $\pm 25,309$  SF Commercial Building with associated parking and landscaping. The site currently drains from south to north and onto Cutler Ave NE at two separate discharge points. Per the Calculations table this sheet, the total existing flow discharging from the site is 12.27 cfs (19,645 CF) during the 100-Yr, 6-Hr Storm Event.

#### PROPOSED HYDROLOGIC CONDITIONS

The project consists of removing the existing parking lot on the south side of the existing building to allow for the construction of a new 2–Story Classroom Building and a new Gymnasium. The proposed site will continue to drain from south to north and onto Cutler Ave NE using the two existing discharge points. Due to the reduction in impervious areas, there is a decrease in runoff from the site. Per the Calculations table this sheet, the total proposed runoff discharging from the site is 12.07 cfs (19,189 CF) during the 100—Yr, 6—Hr Storm Event. In addition, the runoff volume discharging from the site will be reduced by an additional 2,912 CF due to the new Water Quality Pond described below. The total reduction of runoff volume is 3,368 CF.

#### WATER QUALITY VOLUME CALCULATIONS

Per the Water Quality Volume Calculations this sheet, the total Water Quality Pond Volume required to be collected for the site is 1,052 CF. Per the Water Harvesting Pond Calculations table this sheet, we are actually retaining 2,912 CF of volume from the site which provides 1,860 CF of additional storage than required.

#### CONCLUSION

This drainage management plan provides for grading and drainage elements which reduce the impact to downstream systems; are capable of safely passing the 100 year storm, do not burden downstream systems, and meet city requirements. With this submittal, we are requesting Building Permit approval.

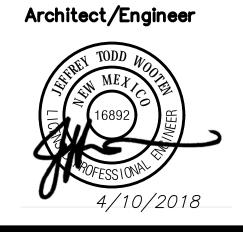


STUDIO CONSULTANTS, INC PO BOX 1515 CEDAR CREST NM, 87008 DANIEL@ARIASCINC.COM (505) 506-2314



Classroom and Gymnasium Addition for: 21st Century Public Academy

# 4300 CUTLER AVE. NE ALBUQUERQUE, NM 87110





DEPONTE INVESTMENTS, INC.



CERVANTES enterprises, inc.

MARK	DATE	DESCRIPTION
REVISIO	<b>DNS</b>	
ISSUE		100% Plans
PROJE	CT NO	2017031
CAD D	WG FILE	
DRAWN	BY	RMG
CHECK	ED BY	JTW
DATE		4/10/2018

## DRAINAGE MANAGEMENT PLAN

C102

Wooten Engineering 1005 21st St SE Suite 13 Rio Rancho, N.M. 87124 Phone: (505) 980-3560