CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

November 6, 2019

Scott Eddings, PE
Huitt-Zollers Inc.
6561 Americas Parkway NE
Albuquerque, NM 87110

RE: Albuquerque Repro Graphics Expansion
4716 McLeod Rd NE
Permanent C.O. - Accepted
Engineer's Certification Date: 10/18/19
Engineer's Stamp Date: 05/01/19
Hydrology File: F17D070A

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Dear Mr. Eddings:

Based on the Certification received 11/04/2019 and site visit on 11/06/19, this certification is approved in support of Permanent Release of Occupancy by Hydrology.

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

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 6/2018)

Project Title: Albuquerque Repro Graphics Building Permit #: _____ Hydrology File #: F17

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Lot 1 Blk G Cashway Subdivision

City Address: 4716 McLeod Rd NE

Applicant: Albuquerque Repo Graphics Contact: Jeff Foss

Address: 4716 McLeod Rd NE

Phone#: 505-892-5141 Fax#: _____ E-mail:

Other Contact: Huitt-Zollars, Inc. Contact: Scott Eddings

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

Phone#: 505-235-7211 Fax#: _____ E-mail: seddings@huitt-zollars.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes X No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
X GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

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
____ PAVING PERMIT APPROVAL
X GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: November 4, 2019 By: Scott Eddings

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

HYDROLOGY

BASIN 1

Albuquerque Repro	**AREA =**	**0.99**	**ac.**								
BASIN 1											
NOAA Atlas 14											
Latitude	**35.1371**										
Longitude	**-106.5905**										
PRECIPITATION:	360 =	2.33	in.								
	1140 =	2.77	in.								
	10day =	4.13	in.								
	EXCESS PRECIPITATION:			PEAK DISCHARGE:							
TREATMENT A	0.53	in.		1.56	cfs/ac.						
TREATMENT B	0.78	in.		2.28	cfs/ac.						
TREATMENT C	1.13	in.		3.14	cfs/ac.						
TREATMENT D	2.12	in.		4.70	cfs/ac.						
EXISTING CONDITIONS:			PROPOSED CONDITIONS:								
	AREA		AREA								
TREATMENT A	0	ac.	0	ac.							
TREATMENT B	0.22	ac.	0.22	ac.							
TREATMENT C	0	ac.	0	ac.							
TREATMENT D	0.774	ac.	0.774	ac.							
EXISTING EXCESS PRECIPITATION:											
Weighted E =	(	0.53)x(	0.00)+(	0.78)x(	0.22)+(	1.13)x(	0.00)+(	2.12)x(	0.77)/	0.99	ac.
=	1.82	in.									
V100-360 =	(	1.82)x(	0.99)/	12	=	0.151040	ac-ft	=	6579	cf	
EXISTING PEAK DISCHARGE:											
Q100 =	(	1.56)x(	0.00)+(	2.28)x(	0.22)+(	3.14)x(	0.00)+(	4.70)x(	0.77)=	4.14	cfs
PROPOSED EXCESS PRECIPITATION:											
Weighted E =	(	0.53)x(	0.00)+(	0.78)x(	0.22)+(	1.13)x(	0.00)+(	2.12)x(	0.77)/	0.99	ac.
=	1.82	in.									
V100-360 =	(	1.82)x(	0.99)/	12.0 =	0.151040	ac-ft	=	6579	cf		
V100-1440 =	(	0.15)+(	0.77)x(	2.77 -	2.33)/	12	=	0.179420	ac-ft	=	7816 cf
V100-10day =	(	0.15)+(	0.77)x(	4.13 -	2.33)/	12	=	0.267140	ac-ft	=	11637 cf
PROPOSED PEAK DISCHARGE:											
Q100 =	(	1.56)x(	0.00)+(	2.28)x(	0.22)+(	3.14)x(	0.00)+(	4.70)x(	0.77)=	4.14	cfs
RESULTS											
	4.14 -	**4.14 =**	**0.00**	**cfs**	**Increase in peak discharge**						
	6579 -	**6579 =**	**0**	**cf**	**Ponding Requirement**						

BASIN 2

Albuquerque Repro	**AREA =**	**0.6**	**ac.**								
BASIN 2											
NOAA Atlas 14											
Latitude	**35.1371**										
Longitude	**-106.5905**										
PRECIPITATION:	360 =	2.33	in.								
	1140 =	2.77	in.								
	10day =	4.13	in.								
	EXCESS PRECIPITATION:			PEAK DISCHARGE:							
TREATMENT A	0.53	in.		1.56	cfs/ac.						
TREATMENT B	0.78	in.		2.28	cfs/ac.						
TREATMENT C	1.13	in.		3.14	cfs/ac.						
TREATMENT D	2.12	in.		4.70	cfs/ac.						
EXISTING CONDITIONS:			PROPOSED CONDITIONS:								
	AREA		AREA								
TREATMENT A	0	ac.	0	ac.							
TREATMENT B	0.083	ac.	0.083	ac.							
TREATMENT C	0	ac.	0	ac.							
TREATMENT D	0.512	ac.	0.512	ac.							
EXISTING EXCESS PRECIPITATION:											
Weighted E =	(	0.53)x(	0.00)+(	0.78)x(	0.08)+(	1.13)x(	0.00)+(	2.12)x(	0.51)/	0.60	ac.
=	1.93	in.									
V100-360 =	(	1.93)x(	0.60)/	12	=	0.095848	ac-ft	=	4175	cf	
EXISTING PEAK DISCHARGE:											
Q100 =	(	1.56)x(	0.00)+(	2.28)x(	0.08)+(	3.14)x(	0.00)+(	4.70)x(	0.51)=	2.60	cfs
PROPOSED EXCESS PRECIPITATION:											
Weighted E =	(	0.53)x(	0.00)+(	0.78)x(	0.08)+(	1.13)x(	0.00)+(	2.12)x(	0.51)/	0.60	ac.
=	1.93	in.									
V100-360 =	(	1.93)x(	0.60)/	12.0 =	0.095848	ac-ft	=	4175	cf		
V100-1440 =	(	0.10)+(	0.51)x(	2.77 -	2.33)/	12	=	0.114622	ac-ft	=	4993 cf
V100-10day =	(	0.10)+(	0.51)x(	4.13 -	2.33)/	12	=	0.172648	ac-ft	=	7521 cf
PROPOSED PEAK DISCHARGE:											
Q100 =	(	1.56)x(	0.00)+(	2.28)x(	0.08)+(	3.14)x(	0.00)+(	4.70)x(	0.51)=	2.60	cfs
RESULTS											
	2.60 -	**2.60 =**	**0.00**	**cfs**	**Increase in peak discharge**						
	4175 -	**4175 =**	**0**	**cf**	**Ponding Requirement**						

DRAINAGE CERTIFICATION

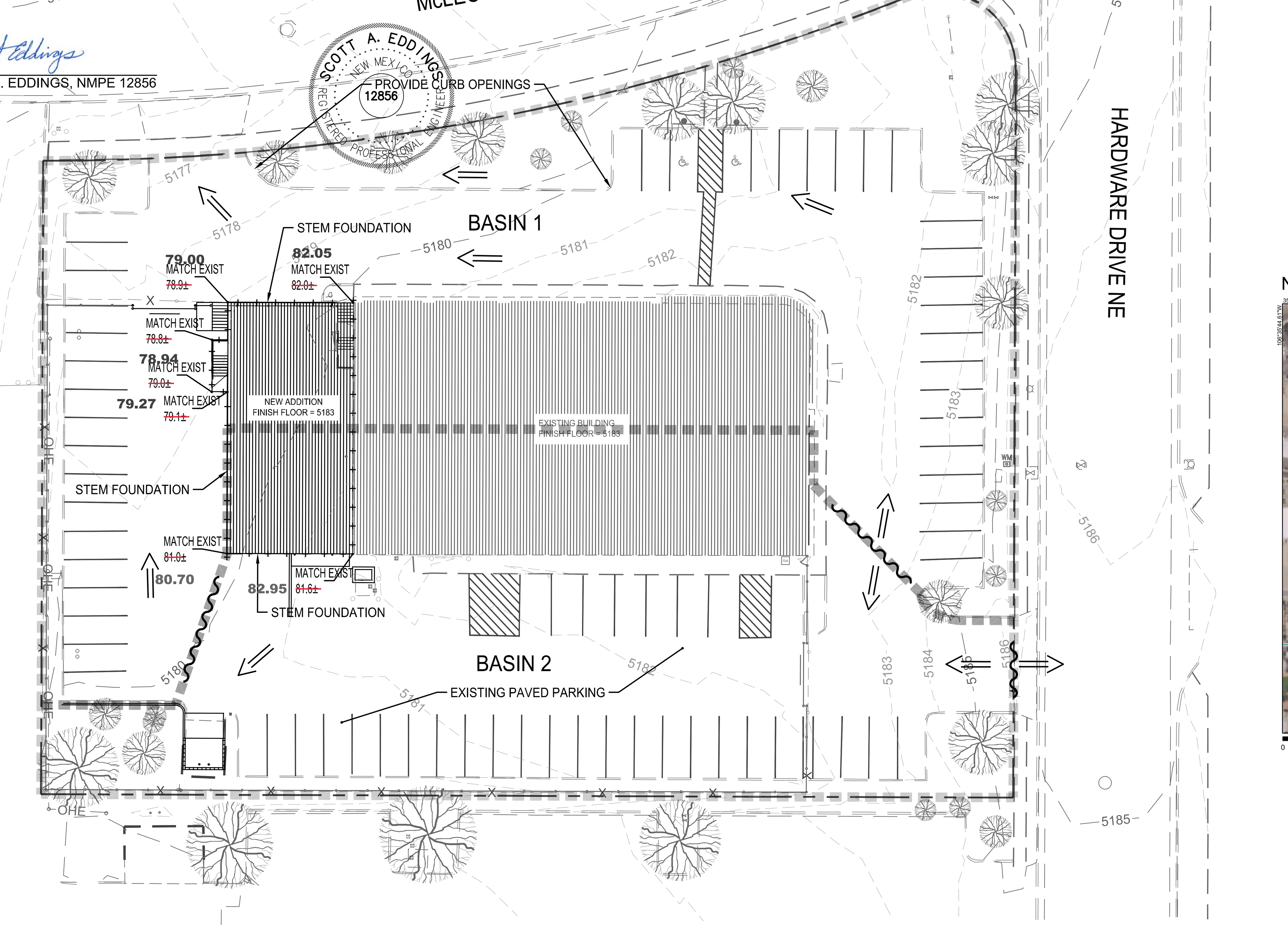
I, SCOTT A. EDDINGS, NMPE 12856, OF THE FIRM HUITT-ZOLLARS, INC. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 5/1/19. THE RECORD INFORMATION EDITED ON TO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED FROM THE SURVEY DATED 10/15/19 PROVIDED BY KIM STELZER, NMPS 7482 OF THE FIRM HUITT-ZOLLARS, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10/18/19 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF IT'S ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Scott Eddings

SCOTT A. EDDINGS, NMPE 12856

10/18/19
DATE



A GRADING AND DRAINAGE PLAN

SCALE: 1"=30'

0 30' 60'
SCALE: 1" = 30'

DRAINAGE NARRATIVE:

CURRENTLY THE SITE IS DEVELOPED. THERE IS A BUILDING (APPROX. 12,000 SQ. FT.), PAVED PARKING LOT AND LANDSCAPING ON SITE. THE PROPOSED PROJECT WILL PROVIDE AN ADDITION (3,200 SQ. FT.) TO THE EXISTING BUILDING THAT WILL REPLACE A PORTION OF THE PAVED PARKING AREA.

IN GENERAL, 37.4% OF THE SITE DRAINS TOWARDS LUMBER AVE. AND 62.6% OF THE SITE DRAINS TO MCLEOD ROAD. IT IS NOT PROPOSED TO CHANGE THIS FLOW PATTERN.

THE EXISTING SURVEY INFORMATION SHOWN HEREON WAS PREPARED FROM A FIELD SURVEY DONE BY HUITT-ZOLLARS, INC. IN MARCH OF 2019.

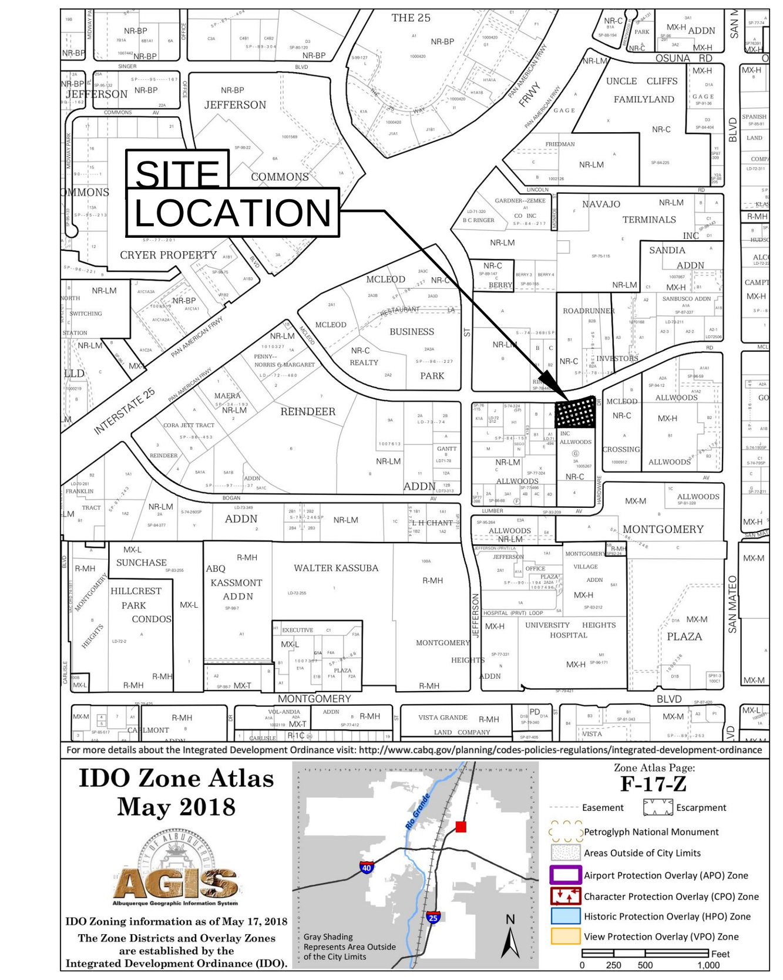
THIS PROJECT IS FOR A BUILDING ADDITION ONLY. THE PROPOSED BUILDING OCCURS OVE AN EXISTING ASPHALT PARKING LOT SO THERE IS NOT ANY ADDITIONAL RUNOFF CREATED BY THE PROPOSED IMPROVEMENTS.

FIRST FLUSH

AREA = 3,200 SQ. FT.
VOLUME = 3200 SQ. FT. x 0.026" = 70 CU. FT.

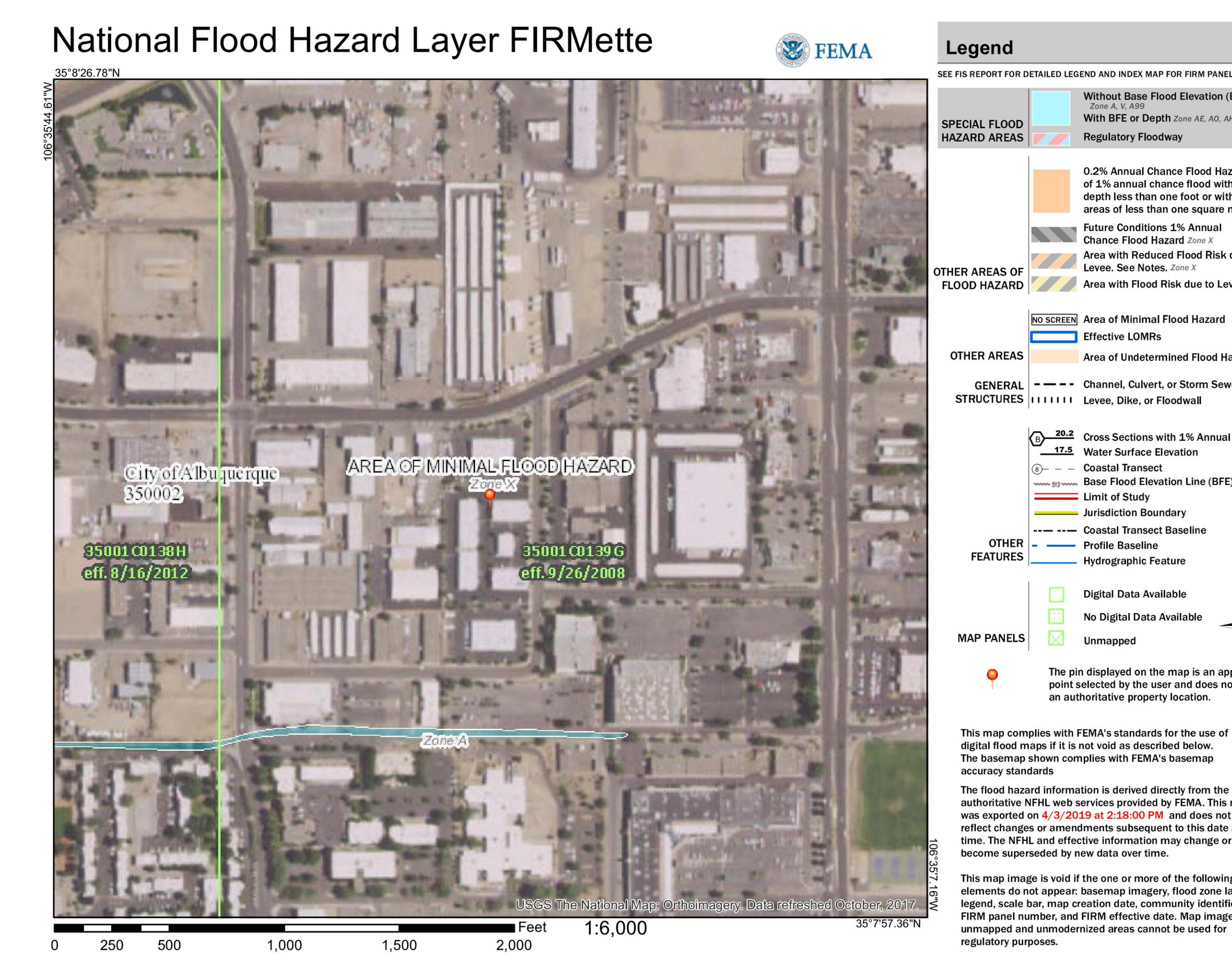
LEGEND

- 5050 — EXISTING (INDEX) CONTOUR
- 5251 — EXISTING (INTERMEDIATE) CONTOUR
- 5040 — PROPOSED (INDEX) CONTOUR
- 5041 — PROPOSED (INTERMEDIATE) CONTOUR
- WATER BLOCK
- EXISTING CURB & GUTTER
- FLOW DIRECTION
- GRADING LIMITS
- DRAINAGE BASIN



ZONE AND LOCATION MAP

National Flood Hazard Layer FIRMette



FLOOD BOUNDARY MAP

LEGAL DESCRIPTION

LOT 1, BLOCK G OF THE PLAT OF CASHWAY BUILDING MATERIALS, INC., ALLWOODS SUBDIVISION.

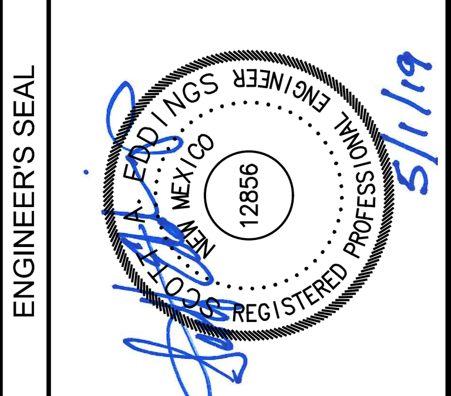
nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
FOUND MONUMENT "9_F18"
BRASS CAP
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)
N=1,504,358.281
E=1,539,870.687
PUBLISHED EL=5212.228 (NAVD 1988)
GROUND TO GRID FACTOR=0.99966141
MAPPING ANGLE=-0°11'36.74"

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL



REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY: KLS — DATE: APRIL 2, 2019
DRAWN BY: KLS — DATE: APRIL 2, 2019
DWG NAME: ARI-GRADE-DRAIN.dwg — PROJ #: R310734.01
CHECKED BY: SAE — DATE: APRIL 2, 2019

Designed By:
HUITT-ZOLLARS
Huitt-Zollars, Inc. Albuquerque
6501 Americas Pkwy NE, Suite 550
Albuquerque, New Mexico 87110
Phone (505) 883-8114 Fax (505) 883-5022

ALBUQUERQUE REPRO GRAPHICS

TITLE: ALBUQUERQUE REPRO GRAPHICS
GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer	Last Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. | Zone Map No. | Sheet 1 Of 1

CONTROL NO. ______ SHEET 1

Plotted: 5/1/2019 8:30:44 AM, By:Scharf, Karen
H:\proj\R310734.01 - Albuquerque Reprographics Addition\10 CAD & BIM\10.1 AutoCAD\Sheet Set\ARI-GRADE-DRAIN.dwg
Last Saved:5/1/2019 8:07:27 AM, kscharf