

CITY OF ALBUQUERQUE



May 8, 2018

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

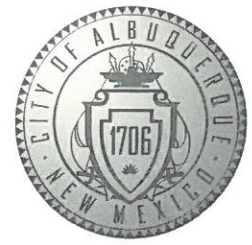
RE: **3300 2nd St NW**
Grading and Drainage Plan
Engineer's Stamp Date: 5/2/18
Hydrology File: G14D091

Dear Mr. Eddings:

Based on the information provided in your submittal received on 5/8/18, the Grading Plan cannot be approved for Paving Permit until the following are addressed:

1. Provide spot elevations and proposed contours.
2. Provide benchmark and elevation data.
3. What is the area of new pavement? The first flush requirement needs to be calculated and shown on plans; use the redevelopment requirement of 0.26"/12 x new impervious. The first flush pond needs to be sized for this volume.
4. The waterblock needs to be sufficient to convey site flow to the pond. The sidewalk culvert, not the drive entrance should be the discharge point for this site.
5. A Private Facility Drainage Covenant is required for the stormwater quality pond. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to City of Albuquerque) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.
6. The sidewalk culvert needs to be built per 2236 and requires an SO-19 permit. Include the latest SO-19 notes on the grading plan (attached).
7. Provide supporting calculations to ensure the sidewalk culvert is sized for the 100-yr flow.

CITY OF ALBUQUERQUE



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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: 3300 Second Street Building Permit #: _____ Hydrology File #: _____

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

Legal Description: 97-B-2 MRGCD Map 33

City Address: 3300 Second Street NW

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 SCM Partners Contact: Martin Haynes

Address: PO Box 9043 Albuquerque

Phone#: 505-898-6622 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) _____

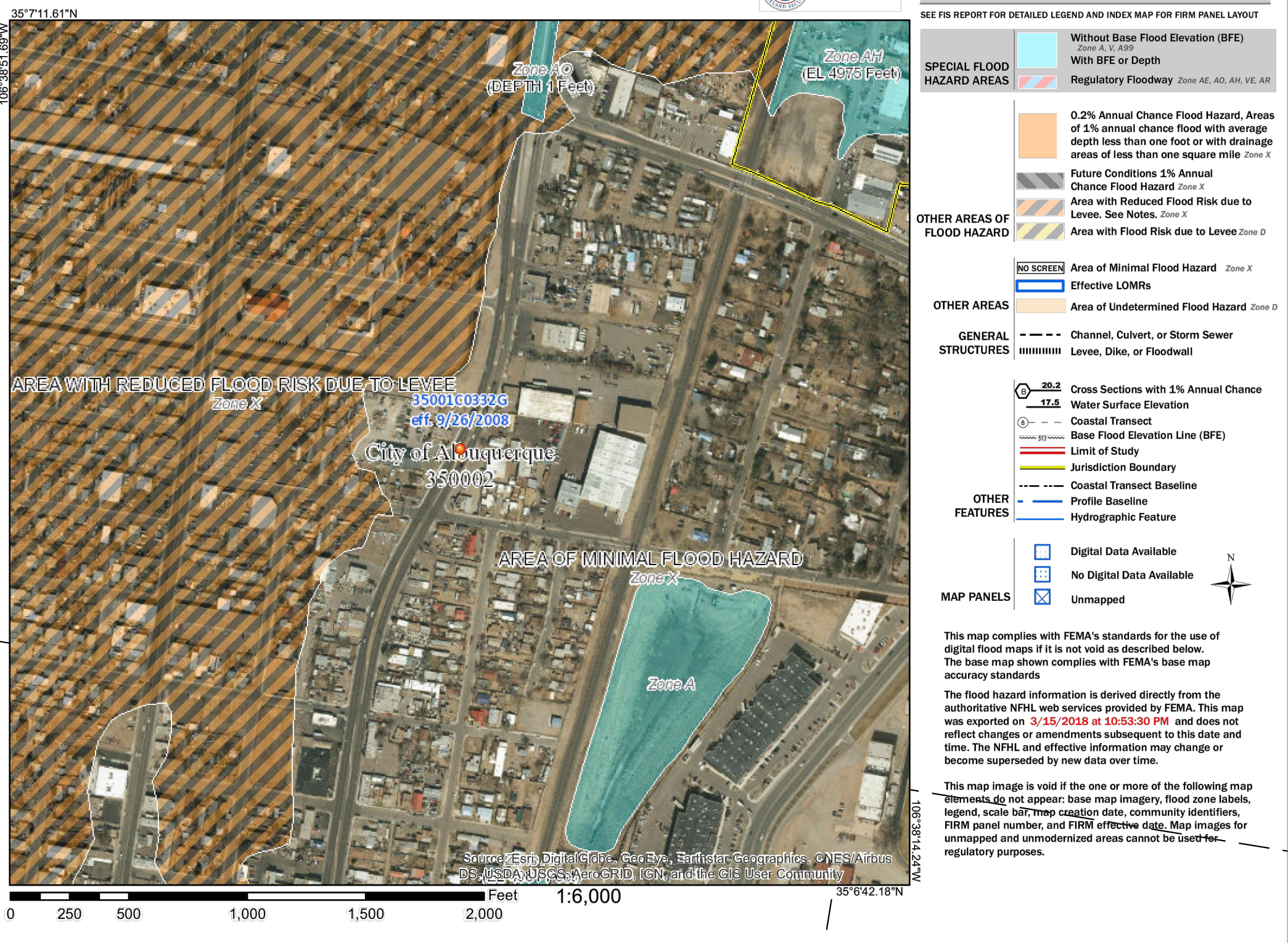
DATE SUBMITTED: May 7, 2018

By: Scott Eddings

EXISTING HYDROLOGY

3300 2ND ST.	AREA =	2,519 ac.
NOAA Atlas 14		
Latitude	35.2649	
Longitude	-106.6857	
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:	
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0.126 ac.	0.0756 ac.
TREATMENT C	0 ac.	0.0756 ac.
TREATMENT D	2.3931 ac.	2.3931 ac.
EXISTING EXCESS PRECIPITATION:		
Weighted E =	(0.53 x(0.00)+(0.78 x(0.13)+(1.13 x(0.00)+(2.12 x(2.39)	2.52 ac.
V100-360 =	(2.05 x(2.52) 12 =	0.430959 ac-ft = 18773 cf
EXISTING PEAK DISCHARGE:		
Q100 =	(1.56 x(0.00)+(2.28 x(0.13)+(3.14 x(0.00)+(4.70 x(2.39)	11.53 cfs
PROPOSED EXCESS PRECIPITATION:		
Weighted E =	(0.53 x(0.00)+(0.78 x(0.08)+(1.13 x(0.08)+(2.12 x(2.39)	2.52 ac.
V100-360 =	(2.07 x(2.52) 12.0 =	0.434800 ac-ft = 18940 cf
V100-1440 =	(0.43 x(2.39 x(2.77 - 2.33) 12 =	0.522546 ac-ft = 22762 cf
V100-10day =	(0.43 x(2.39 x(4.13 - 2.33) 12 =	0.793758 ac-ft = 34576 cf
PROPOSED PEAK DISCHARGE:		
Q100 =	(1.56 x(0.00)+(2.28 x(0.08)+(3.14 x(0.08)+(4.70 x(2.39)	11.66 cfs
RESULTS	11.66 - 11.53 = 0.12 cfs	Increase in peak discharge
	18940 - 18773 = 167 cf	Ponding Requirement

National Flood Hazard Layer FIRMette



FIRM PANEL 35001C0352G

EXISTING DRAINAGE CONDITIONS

THIS SITE IS FULLY DEVELOPED AND CURRENTLY DIRECTLY DISCHARGES ONTO SECOND STREET.

PROPOSED DRAINAGE CONDITIONS

DEVELOPMENT SHALL BE IN ACCORDANCE WITH EXISTING DRAINAGE PATTERNS. LANDSCAPE AREAS SHALL BE DEPRESSED AND GRADES SHALL BE DESIGNED TO PROVIDE POSITIVE DRAINAGE TOWARD DEPRESSED LANDSCAPE AREAS. STORM WATER DESIGN EVENT SHALL DISCHARGE INTO THE SITE IN ACCORDANCE WITH THE APPROVED DRAINAGE MASTER PLAN.

THE TOTAL SITE AREA IS APPROXIMATELY 2.52 ACRES WITH THE FOLLOWING ESTIMATED LAND TREATMENTS FOR THE SITE:
A: 0% B: 5% C: 0% D: 95%

CURRENT SITE DISCHARGE IS 11.53 CFS AND THE VOLUME OF RUNOFF FROM THE SIX HOUR 100-YEAR EVENT IS 22,762 CF.

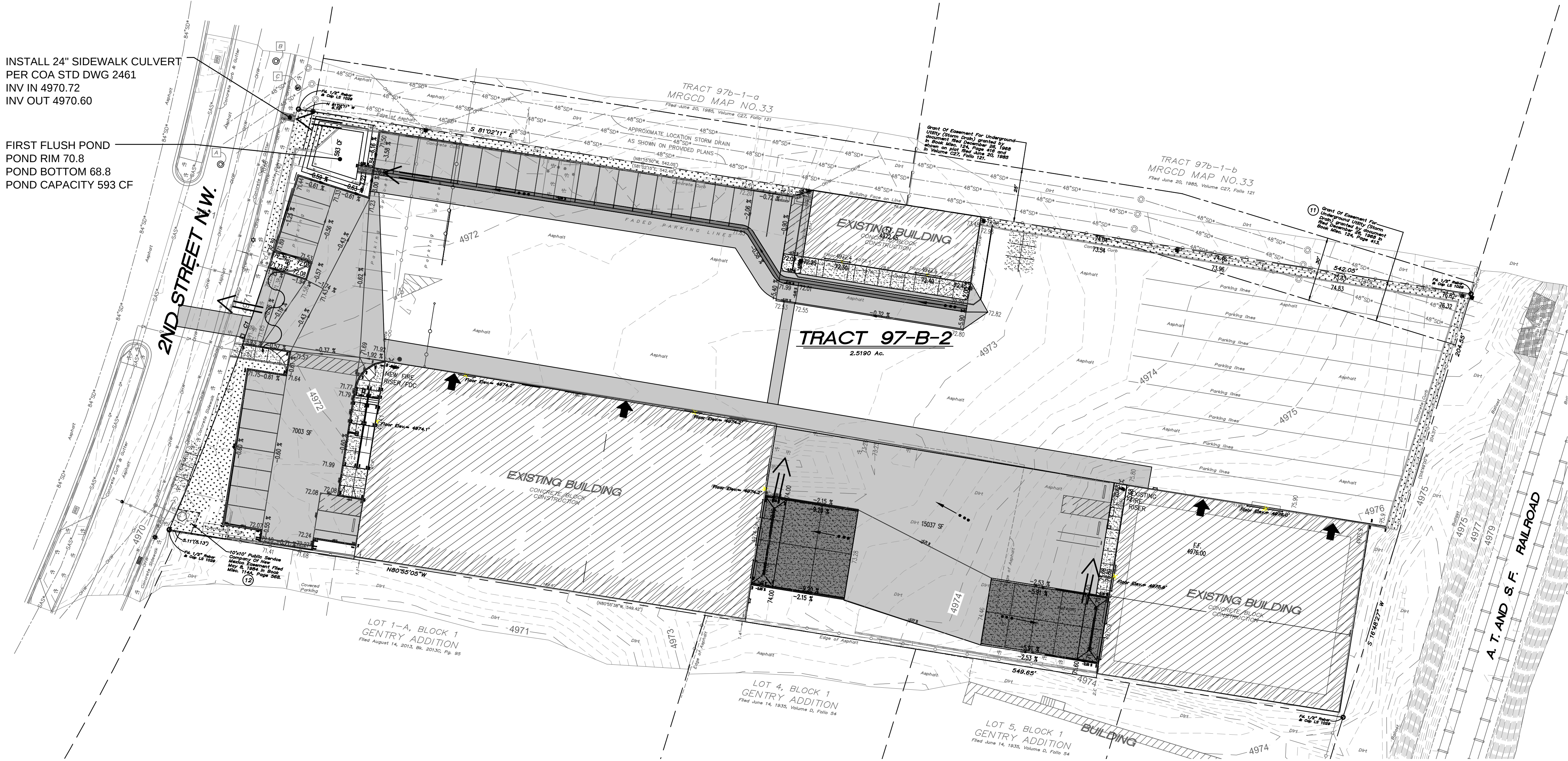
FIRST FLUSH REQUIRED VOLUME FOR THE DISTURBED AREA IS 500 CF.

FLOOD ZONE

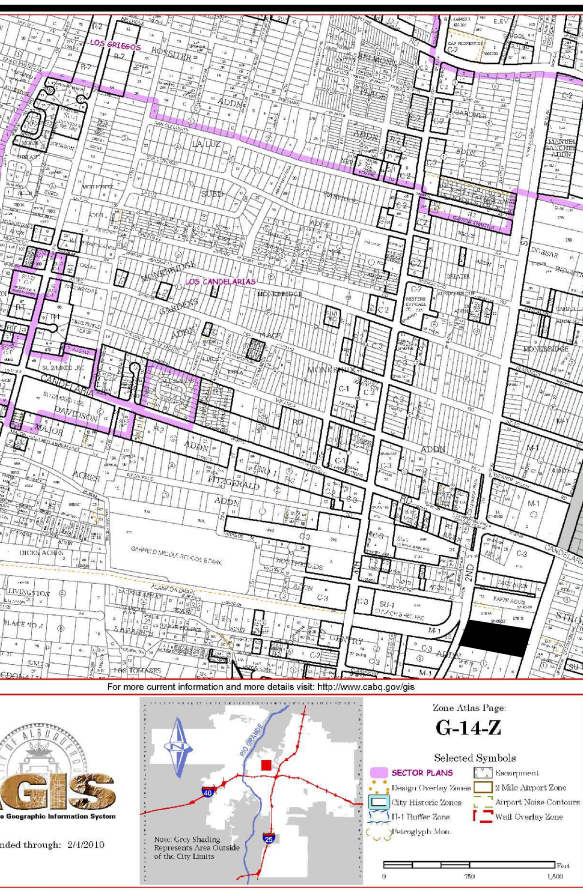
PER THE FEMA MAP NUMBER 35001 C0332G DATED SEPTEMBER 26, 2008 SHOWS THE SITE IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AREA.

INSTALL 24" SIDEWALK CULVERT
PER COA STD DWG 2461
INV IN 4970.72
INV OUT 4970.60

FIRST FLUSH POND
POND RIM 70.8
POND BOTTOM 68.8
POND CAPACITY 593 CF



A1 GRADING PLAN
SCALE 1"=30'
0 15' 30' 60'



ZONE ATLAS PAGE G-14-Z

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			
NO.			

Designed By: **HUIT-ZOLARS**
HUIT-ZOLARS, LLC
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259
Designed For: **LEAPING LAB PROPERTIES, LLC.**
P.O. BOX 9043
ALBUQUERQUE, NEW MEXICO 87119

GRADING AND DRAINAGE PLAN
3300 SECOND STREET
TENANT IMPROVEMENTS

PROJECT NO. R307382.02
DESIGNED BY: GM
DRAWN BY: VKL
CHECKED BY: SE
DATE: MAR. 28, 2018
DPW CHK: -
SHEET: **C102**