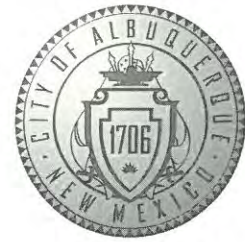


CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

October 6, 2017

Phillip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015

RE: Olague Warehouse – 1212 3rd St. NW
Grading Plan
Stamp Date: 9/20/17
Hydrology File: J14D184

Dear Mr. Clark:

Based upon the information provided in your submittal received 9/19/17, the Grading and Drainage Plan **is not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

1. As per the DPM Chapter 22, Section 5.G (Flat Grading Scheme), The required 100 year 10 Day retention volume should have been 1,228 CF instead of the noted 1, 045 CF.
2. Please provide more detail and calculations for each retention pond, so the volumes can be verified.

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

Sincerely,

Reneé C. Brissette

Reneé 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 1/2016)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: CLARK CONSULTING ENGINEERS **Contact:** Philip Clark

Address: 19 Ryan Road Edgewood, NM 87015

Phone#: 281.2444 **Fax#:** _____ **E-mail:** CCEalbq@aol.com

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

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

TYPE OF SUBMITTAL:

- ☐ AS-BUILT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ DRAINAGE MASTER PLAN
- ☐ DRAINAGE REPORT
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ NEIGHBORHOOD IMPACT ASSESMENT (NIA)
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) _____

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ GRADING/ESC PERMIT APPROVAL
- ☐ 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
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR

PRE-DESIGN MEETING?

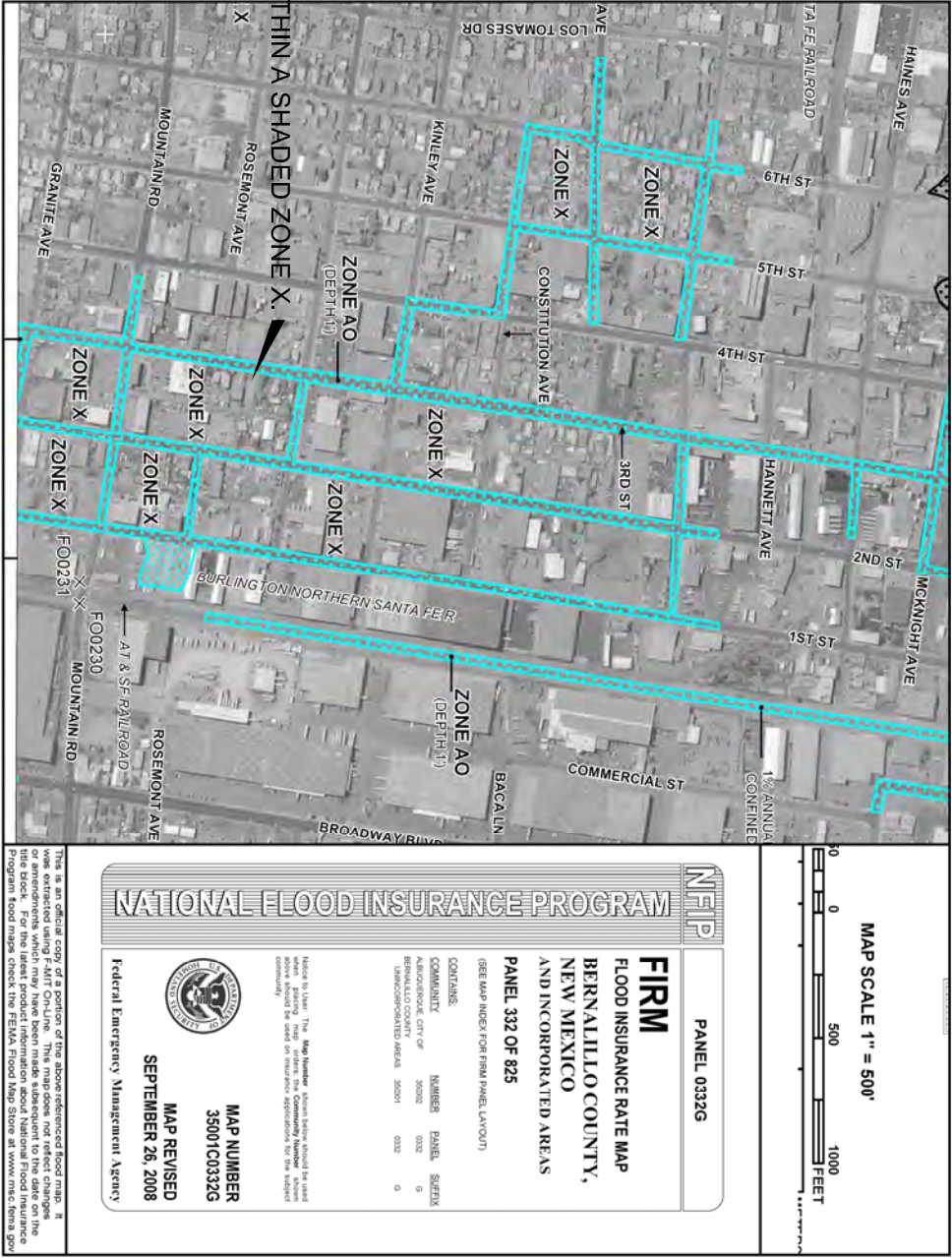
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ **ELECTRONIC SUBMITTAL RECEIVED:** _____

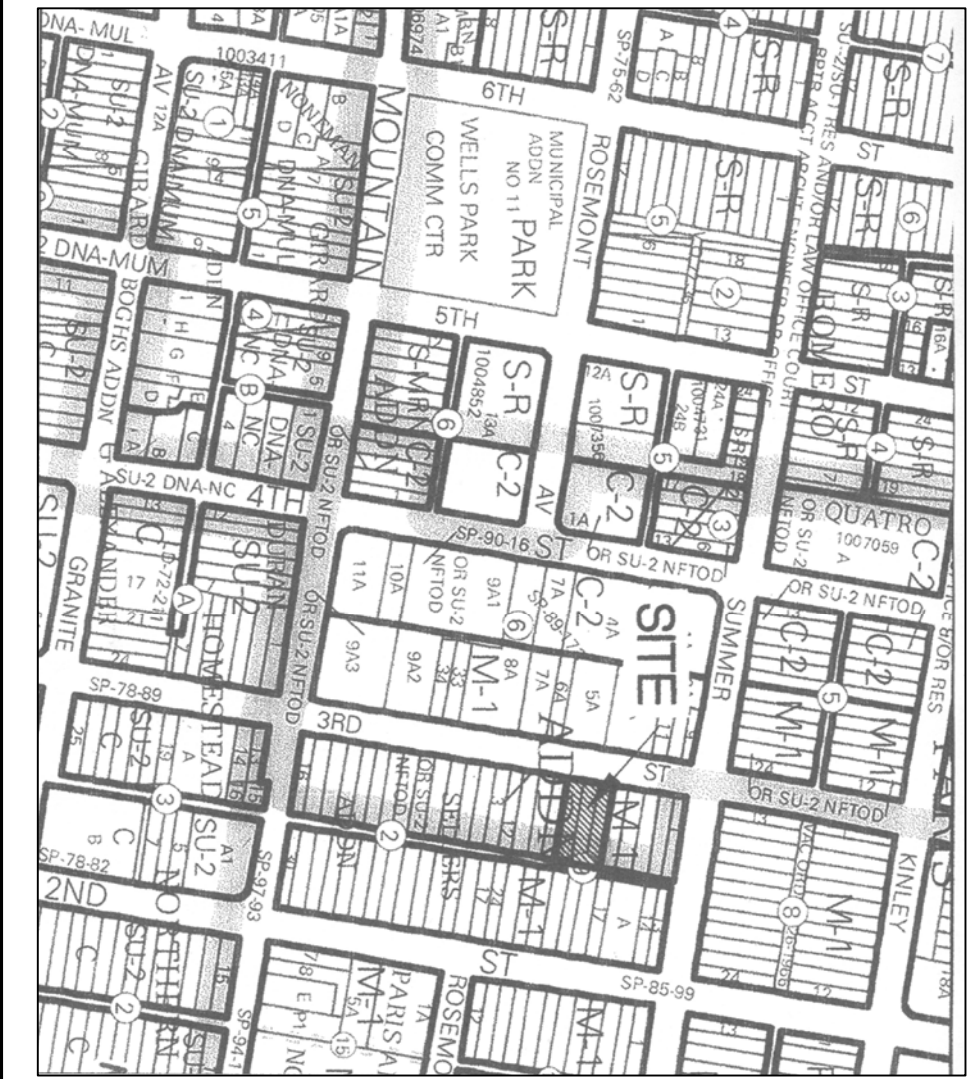
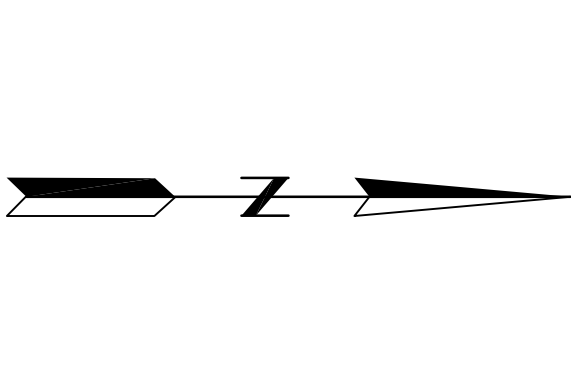
FEE RECEIVED: _____



SUBJECT PROPERTY IS ADJACENT TO AN A0 FLOOD HAZARD ZONE.

FIRM MAP

PANEL # 332 G



VICINITY MAP

ZONE J-14

NOTES

- ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 1986, 9TH UPDATE.
- AN EXCAVATION /CONSTRUCTION DEBIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL. RECYCLED ASPHALT GRAVEL CRUSHER FINES SHALL DRAIN DIRECTLY TO EXPANDED DRIEPAID.
- CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
- REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
- MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

EXIST. SPOT ELEVATION	+24.0
EXIST. CONTOUR	10
NEW SPOT ELEVATION	24.0
NEW CONTOUR	12
NEW SHALE	
DRAINAGE DIRECTION, EXISTING	
NEW CONCRETE CURB OR R/R, TIE (0.5' HEIGHT)	
NEW P.C.C., CONCRETE	
FLOWLINE	o P.P.
EXISTING POWER POLE	EA
EDGE OF ASPHALT	
TYPE 'WL' RIPRAP, 6" BURY (AVG. DIA. 4")	
STORM WATER QUALITY	SNO

PROJECT DATA

LEGAL DESCRIPTION
LOT 6-A, BLOCK 9, PARIS ADDITION
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK
TOP OF CURB, PROJECTED SW CORNER. ELEVATION = 4956.65.
SEE PLAN, NSVD088, TIED FROM ACS "8-H13".

TOPOGRAPHIC DESIGN SURVEY
PROVIDED BY ALPHA PRO SURVEYING, LLC. DATED SEPTEMBER 2017, GARY GRITSKO, PLS 8866.

Clark Consulting Engineers
19 Ryan Road
Edgewood, New Mexico 87015
Tel: (505) 281-2444

DATE	REVISION	LOT 6-A, BLOCK 9, PARIS ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO	1212 3RD ST., NW OLIQUE WAREHOUSE - GREEN DESERT LLC

DESIGNED BY: PWC	DRAWN BY: CCE	JOB #: OLIQUE-3RD	1 OF 1
CHECKED BY: PWC	DATE: SEPT2017	FILE #: G/D	

GRADING & DRAINAGE PLAN

THE WAREHOUSE-STORAGE PROJECT IS LOCATED IN THE HISTORICAL DOWNTOWN AREA OF ALBUQUERQUE, APPROXIMATELY 1/2 MILE NORTH OF THE DOWNTOWN CORE. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE CITY FLOOD HAZARD ORDINANCE, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

- EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS, INCLUDING EXISTING SIDEWALK, AND STREET IMPROVEMENTS.
- PROPOSED IMPROVEMENTS: 1344 SQUARE FOOT METAL WAREHOUSE STORAGE BUILDING, PARKING, GRAVEL DRIVES, NEW GRADE ELEVATIONS, ADA ACCESS AND LANDSCAPING.
- CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
- QUANTIFICATION AND ACCEPTANCE OF ALL ON-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS ONE-WAY SOUTHBOUND THIRD STREET ON THE WEST IS PAVED WITH CURB AND SIDEWALK, AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 1-2% FROM EAST TO WEST. HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE THIRD STREET IS IMPROVED ONLY MINIMAL GRADING (DRIVEWAY EXPANSION) IS PROPOSED WITHIN THE CITY R.O.W. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWS SINCE THE ADJACENT ALLEY IN THE REAR DRAINS TO THE SOUTH.

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO
DISCHARGE RATE: $Q = \text{PEAK} \times \text{AREA}$, "Peak Discharge Rates for Small Watersheds"
VOLUMETRIC DISCHARGE: $\text{VOLUME} = \text{EWeighted} \times \text{AREA}$
 $\text{PIED} = 2.35 \text{ inches, Zone 2}$ "PIED" = 3.95"
Time of Concentration, $T_C = 12 \text{ Minutes}$
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

LOT AREA = 0.24 ACRES, WHERE EXCESS PRECIP. $C' = 1.13 \text{ in. [0.52]}$
PEAK DISCHARGE, $Q_{100} = 0.74 \text{ CFS [0.4]}$ WHERE UNIT PEAK DISCHARGE $C' = 3.1 \text{ CFS/AC. [1.7]}$
THEREFORE: $\text{VOLUME } 100 = 984 \text{ CF [453]}$

DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA	AREA	LAND TREATMENT	Q Peak	E
UNDEVELOPED	0.00 AC.(0%)	A	1.56[0.38]	0.53[0.13]
LANDSCAPING/POUD	0.03 AC.(13%)	B	2.28[0.95]	0.78[0.28]
GRAVEL & COMPACTED SOL	0.18 AC.(75%)	C	3.14[1.71]	1.13[0.52]
ROOF - PAVEMENT	0.03 AC.(12%)	D	4.70[3.14]	2.12[1.34]
	0.24 AC.			

THEREFORE: $E_{\text{Weighted}} = 1.20 \text{ in. [0.48]}$ &

$Q_{100} = 0.77 \text{ CFS}$

VOLUME 100 = 1045 CF
VOLUME 10 = xxxx CF

THEREFORE, CALC. VOLUME LEAVING SITE (LESS HARVEST AREAS, 0.03 AC. SEE 1, BELOW)
 $0.21 \times 12 (4380/12) = 916 \text{ CF} < 984 \text{ CF (EXISTING)...OK}$

SIZE REQUIRED STORM WATER QUALITY REQ.

- HARVEST DEVELOPED POINT RAINFALL, THROUGH SOFT, DEPRESSED LANDSCAPING 3-AREAS..TOTAL AREA = 1375 SF
- DEPRESSED DRIVE THROAT SHALL RETAIN THE "FIRST FLUSH" VOLUME OF: 0.34 INCHES X 1344 (SF)/12 = 38 CF

PHILIP W. CLARK NME #10265

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT I HAVE LISTED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

