

# CITY OF ALBUQUERQUE

Planning Department  
Suzanne Lubar, Director



Mayor Richard J. Berry

October 4, 2016

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

RE: **Matthew Drive Storage**  
**3309 Matthew Dr. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 9/28/16 (H16D147)**

Dear Mr. Soule,

PO Box 1293

Based upon the information provided in your submittal received 9/29/16, this plan is approved for Grading Permit, Building Permit and SO-19 for the proposed buildings and improvements.

Albuquerque

Please inform the owner/contractor to attach a copy of this approved plan dated 9/29/16 to the construction sets in the permitting process prior to sign-off by Hydrology.

New Mexico 87103

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

www.cabq.gov

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Abiel Carrillo, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/AC  
C: File



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

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) \_\_\_\_\_

**CHECK 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  
☐ 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: \_\_\_\_\_

Rudy E. Rael, CE, CFM  
Engineer Associate, Hydrology  
Planning Department  
600 2nd St. NW Suite 201  
Albuquerque NM 87102

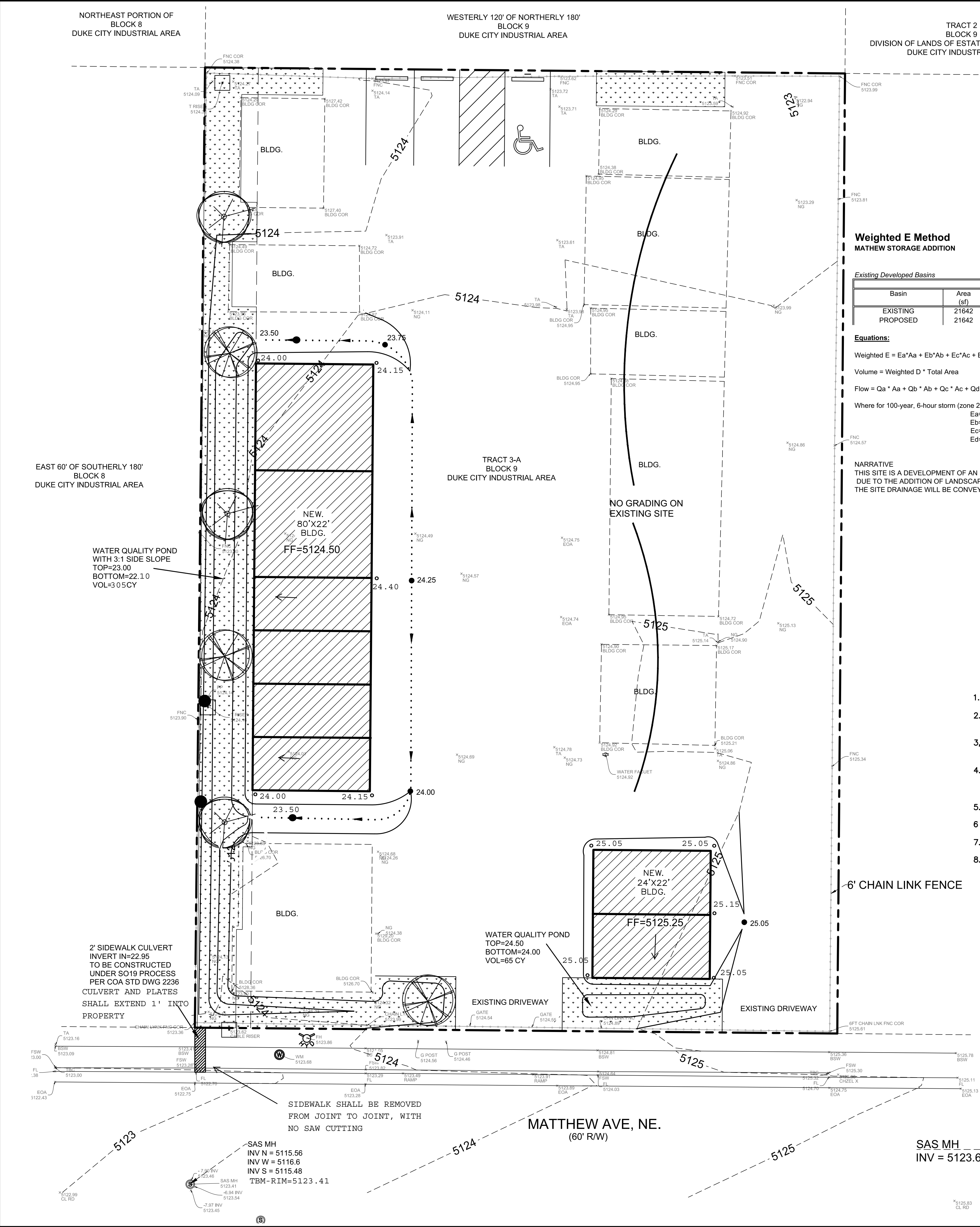
The purpose of this letter is to accompany the attached grading plan. The plan has been revised to address your emailed comments dated 9/28/16. We have included your comments and responded as to how we have addressed your comments

- Enlarge the drainage calcs or provide on a separate sheet with the proper font size. Once submitted the calculations will be checked.  
**We have increased scale of the calculations**
- Provide spot elevations outside the new buildings.  
**We have added spots**
- Statement on sidewalk culvert, add extend passed property line 1 foot.  
**We have added note**
- Are the landscaping areas new? Is there a curb at the edge of pavement? Is the entire site paved?  
**The existing site is entirely compacted base course. We are not proposing pavement.**
- Provide a note in the SO-19 notes stating, to contact Jason Rodriguez at 235-8016 for the sidewalk culvert inspection before and after pouring the concrete.  
**We have added Jason's contact information and instructions**
- Provide a notes stating, The curb stone for the sidewalk culvert must be removed from joint to joint, no cutting.  
**We have added this note**



David Soule  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM 87122





**EROSION CONTROL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

**Weighted E Method  
MATHEW STORAGE ADDITION**

**Existing Developed Basins**

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year, 6-hr.		10-day	
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
EXISTING	21642	0.497	0%	0	0.0%	0.000	82.0%	0.4074	18%	0.089	1.308	0.054	1.70	0.066								
PROPOSED	21642	0.497	0%	0	13.0%	0.065	60.0%	0.2981	27%	0.134	1.352	0.056	1.71	0.074								

**Equations:**

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm (zone 2)

Ea= 0.53  
Eb= 0.78  
Ec= 1.13  
Ed= 2.12

Qa= 1.56  
Qb= 2.28  
Qc= 3.14  
Qd= 4.7

**FIRST FLUSH REQUIREMENT**

165,5613 CUBIC FEET REQUIRED  
370 CUBIC FEET PROVIDED

**RETAIN WATER FROM NEW CONSTRUCTION**

338,3366 CUBIC FEET -100YEAR, 10 DAY

**SIDE WALK CULVERT CAPACITY**

2.95X2X(67)\*1.5= 3.23 CFS

**NARRATIVE**

THIS SITE IS A DEVELOPMENT OF AN EXISTING SITE. THE ADDITION WILL OCCUR IN A LOCATION THAT IS CURRENTLY HARD PACKED GRAVEL, THE NET INCREASE IN FLOW RATE SHALL BE DUE TO THE ADDITION OF LANDSCAPING. THE INCREASED VOLUME FOR A 10-DAY EVENT WILL BE RETAINED ONSITE. THIS VOLUME EXCEEDS THE FIRST FLUSH REQUIREMENT. THE SITE DRAINAGE WILL BE CONVEYED TO THE RIGHT OF WAY VIA A 2' SIDEWALK CULVERT.

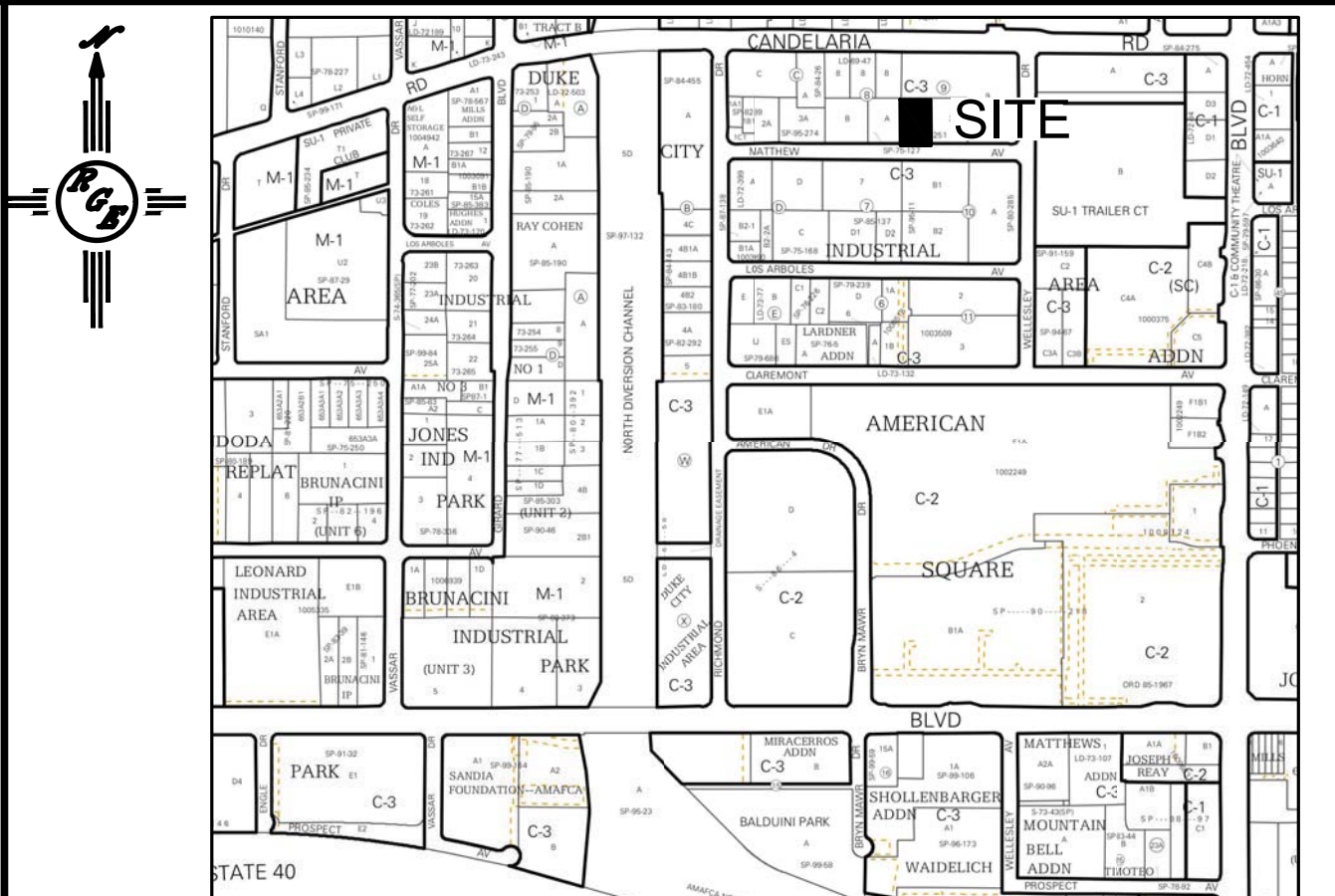
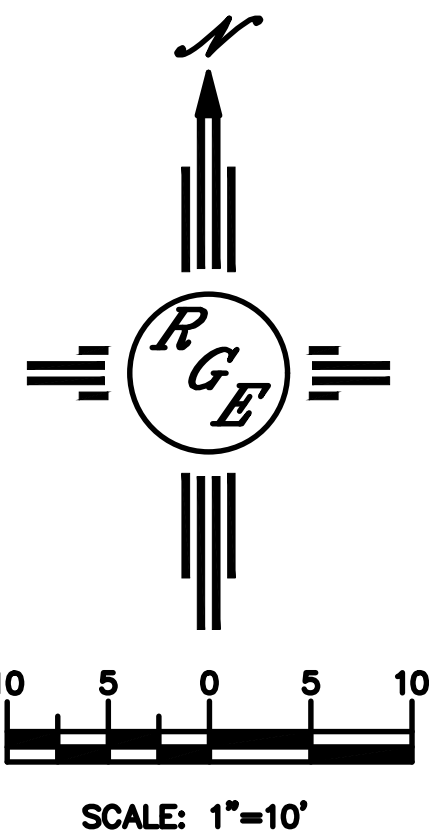
**PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW  
NOTICE TO CONTRACTORS (SPECIAL ORDER "SO-19")**

1. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. 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.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR 505-260-1990.) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
8. PRIOR TO POURING CONCRETE, CONTRACTOR SHALL NOTIFY THE STORM DRAIN INSPECTOR, Jason Rodriguez at 235-8016 prior to pouring and after pouring

APPROVAL	NAME:	DATE:
INSPECTOR		

**CAUTION:**

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



**VICINITY MAP: H-16-Z**



**FIRM MAP: FM35001C0351H**

**LEGAL DESCRIPTION:**


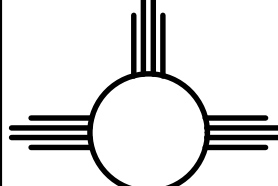
TRACT 3-A BLOCK 9 DUCK CITY INDUSTRIAL AREA  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

**LEGEND**

- 5601--- EXISTING CONTOUR
- 5600--- EXISTING INDEX CONTOUR
- 5601--- PROPOSED CONTOUR
- 5600--- PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
- RIGHT-OF-WAY
- EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
- PROPOSED ROCK FACE WALL
- EXISTING CURB AND GUTTER
- PROPOSED EDGE OF CONCRETE
- PROPOSED FLOWLINE
- EXISTING WALL
- ROOF DRAIN DIRECTION (TYPICAL)

<b>ENGINEER'S SEAL</b>  9/9/16 9/28/16 <b>DAVID SOULE</b> P.E. #14522	<b>BOMACH STORAGE</b>	<b>DRAWN BY DEM</b> <b>DATE</b> 9-9-16 <small>FILED: DAVID SOULE/ARCHITECT</small>
	<b>GRADING AND DRAINAGE PLAN</b>  <b>Pto Grande Engineering</b> 1808 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87106 (505) 672-0000	<b>SHEET #</b> 1 of 1 <b>JOB #</b> XXXXX