

CITY OF ALBUQUERQUE



December 22, 2017

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

RE: **929 19th St**
Grading Plan
Engineer's Stamp Date: 12/20/17
Drainage File: H13D022

Dear Mr. Soule:

Based on the information provided in your submittal received 12/21/17 this submittal is approved for Building Permit.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

PO Box 1293

Sincerely,

Albuquerque

A handwritten signature in black ink, appearing to read 'Dana Peterson'.

NM 87103

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

www.cabq.gov



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

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) _____

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) _____

IS THIS A RESUBMITTAL?: Yes No

DATE SUBMITTED: _____ By: DAVID SOULE

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment				100-Year, 6-hr.		10-day	
			Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)	Weighted E (ac-ft)	Volume (ac-ft)	Flow (cfs)	Volume (ac-ft)
EXISTING	7310.00	0.168	0%	50%	50%	0.000	0.955	0.013	0.45	0.013
Proposed increase	7310.00	0.168	0%	10%	37%	0.089	1.620	0.023	0.65	0.035
	0.00	0.00	0%	-40%	-13%	-0.022	0.009	0.20	0.20	0.021

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

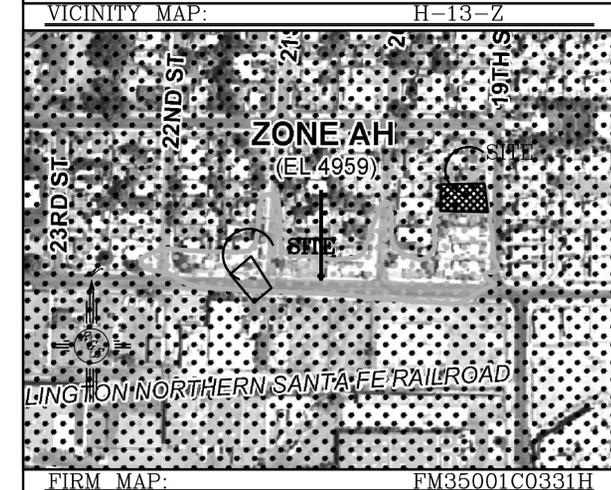
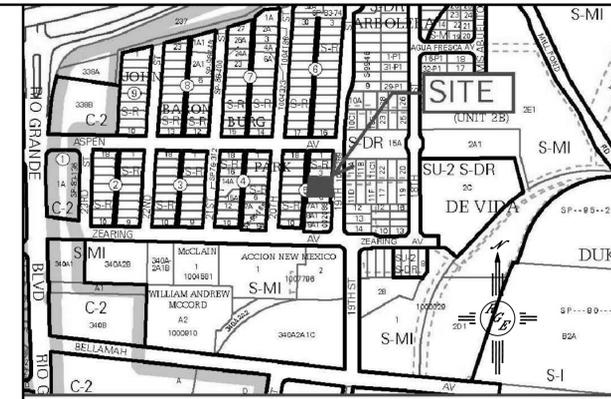
Where for 100-year, 6-hour storm
 Ea= 0.53
 Eb= 0.78
 Ec= 1.13
 Ed= 2.12
 Qa= 1.56
 Qb= 2.28
 Qc= 3.14
 Qd= 4.7

Developed Conditions
 PONDING REQUIRED 0.021 ac-ft 921 CF increased 100-year-10day volume compared to existing
 FIRST FLUSH REQUIRED 110 CF
 PROVIDED 1159 CF

NARRATIVE
 SITE IS CURRENTLY A VACANT LOT THAT HAS BEEN DEVELOPED IN THE PAST. THERE ARE NO UNDISTURBED AREAS OF THE SITE. THE SITE IS COVERED WITH COMPACTED EARTH AND GRAVEL. THE SITE IS IMPACTED BY FLOOD ZONE AE. YET THE NO PART OF THE SITE IS BELOW THE BASE FLOOD ELEVATION. THE SITE IS NOT IMPACTED BY UPLAND FLOWS AND GENERALLY PONDS THE EXISTING FLOWS AND DISCHARGES TO THE SURROUNDING LOTS AND ROADWAY. THE DRAINAGE MANAGEMENT PLAN CALLS FOR RETENTION OF THE INCREASE IN DEVELOPED FLOWS. THE EXISTING PATTERNS WILL REMAIN

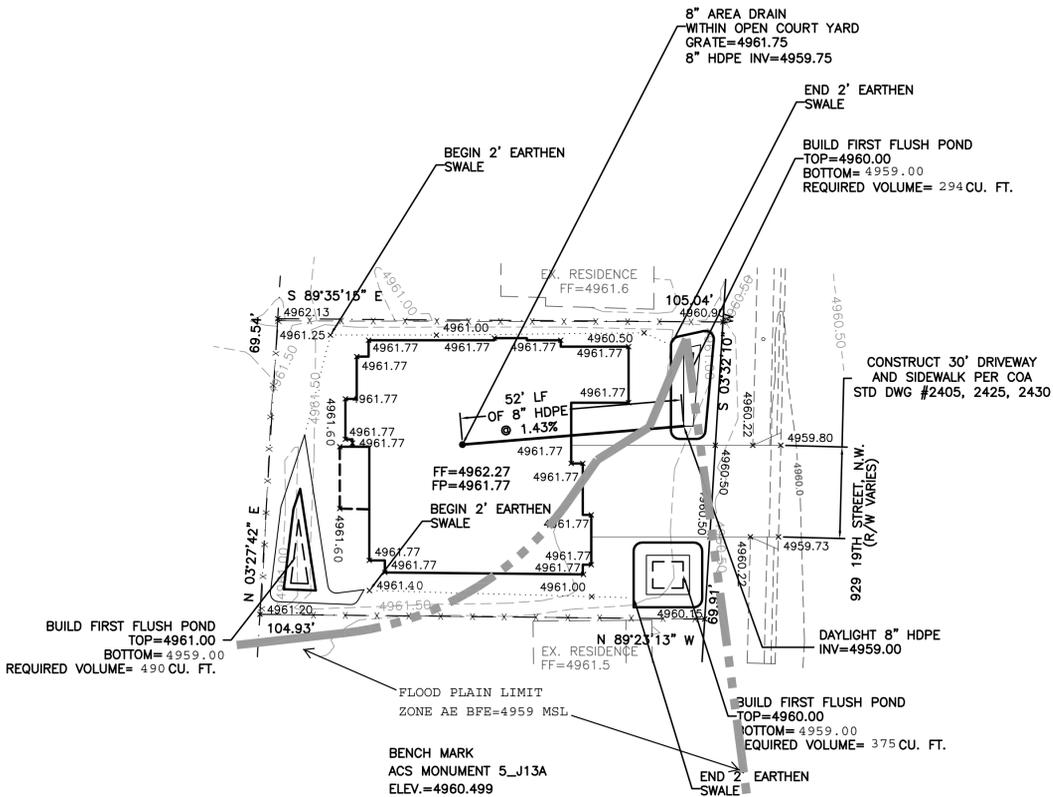
EROSION CONTROL NOTES:

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.



LEGAL DESCRIPTION:
 LOT 5, BLK 5, BACON BURG SUBDIVISION

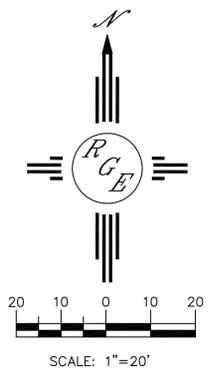
- NOTES:**
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.



LEGEND

---XXXX---	EXISTING CONTOUR
-XXXX-	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
-----	PROPOSED INDEX CONTOUR
-----	SLOPE TIE
•XXXX	EXISTING SPOT ELEVATION
•XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	CENTERLINE
-----	RIGHT-OF-WAY
=====	EXISTING CURB AND GUTTER
-----	PROPOSED CMU SCREEN WALL
-----	FLOODPLAIN

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.



	929 19TH STREET	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 12-20-17
		21840-LAYOUT-12-20-17
		SHEET #
		JOB # 21840