

CITY OF ALBUQUERQUE



February 25, 2016

Richard J. Berry, Mayor

David Soule, PE
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: Continental Machining Co
Grading and Drainage Plan
Engineer's Stamp Date – 1-25-2016
Hydrology File: E17D033**

Dear Mr. Soule:

Based upon the information provided in your submittal received 1-25-2016, the above referenced Grading and Drainage Plan is approved for Building Permit.

Prior to Building Permit approval, Engineer Certification per the DPM checklist will be required.

PO Box 1293

If you have any questions, you can contact me at 924-3986.

Albuquerque

Sincerely,

New Mexico 87103

Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

www.cabq.gov

Orig: Drainage 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: _____

Weighted E Method
6824 WASHINGTON

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)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
EXISTING	3680	0.084	0%	0	0.0%	0.000	84.0%	0.07096	16%	0.014	0.836	0.008	0.20	0.008
PROPOSED	3680	0.084	0%	0	0.0%	0.000	13.0%	0.01098	87%	0.073	1.991	0.014	0.38	0.024
COMPARISON													0.18	0.02

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

Where for 100-year, 6-hour storm (zone2)

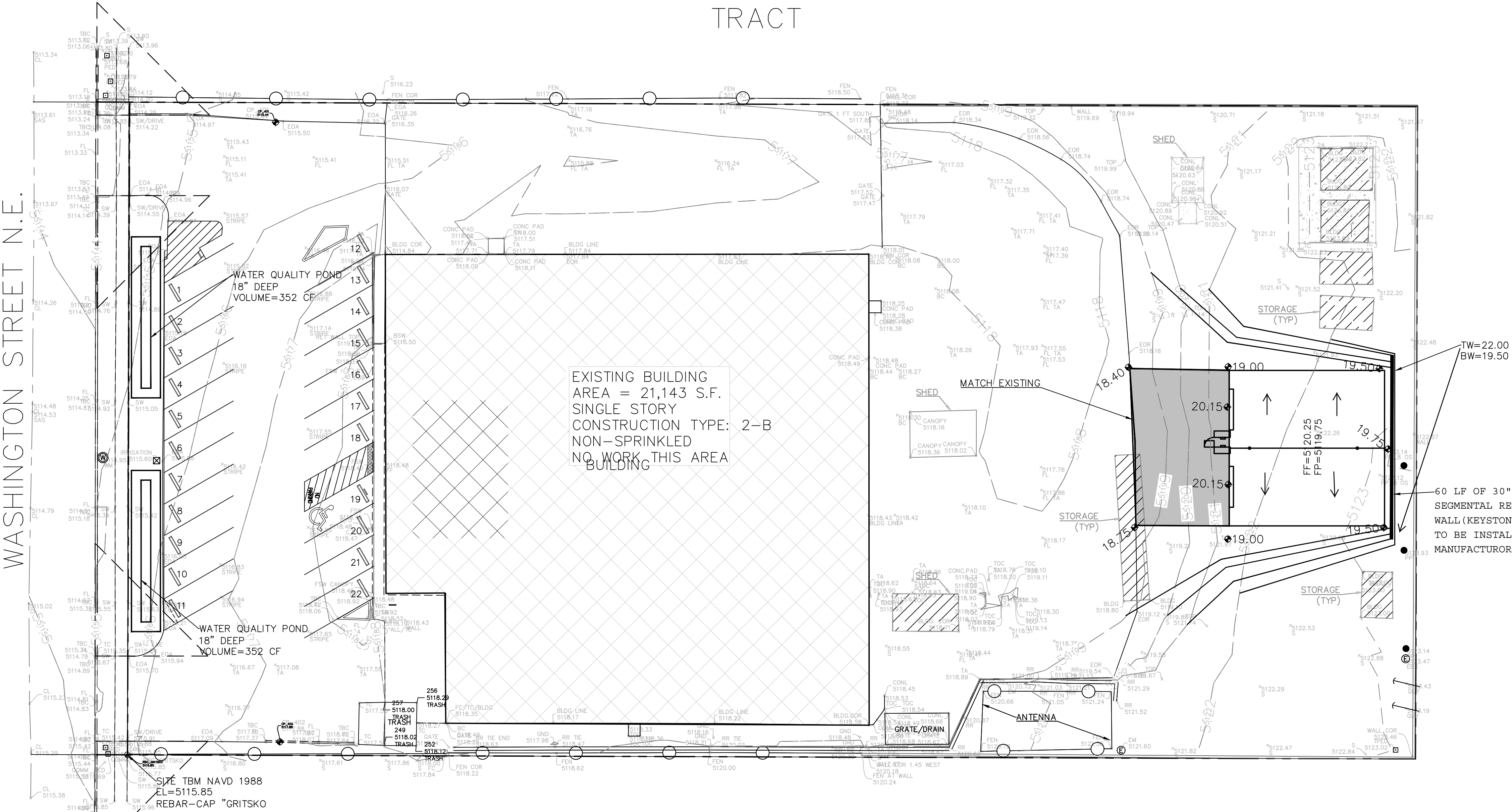
Ea= 0.53
Eb= 0.78
Ec= 1.13
Ed= 2.12

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

WATER HARVEST VOLUME 90,712 CUBIC FEET
INCREASED VOLUME 702,663 CUBIC FEET
PROVIDED VOLUME 704 CUBIC FEET

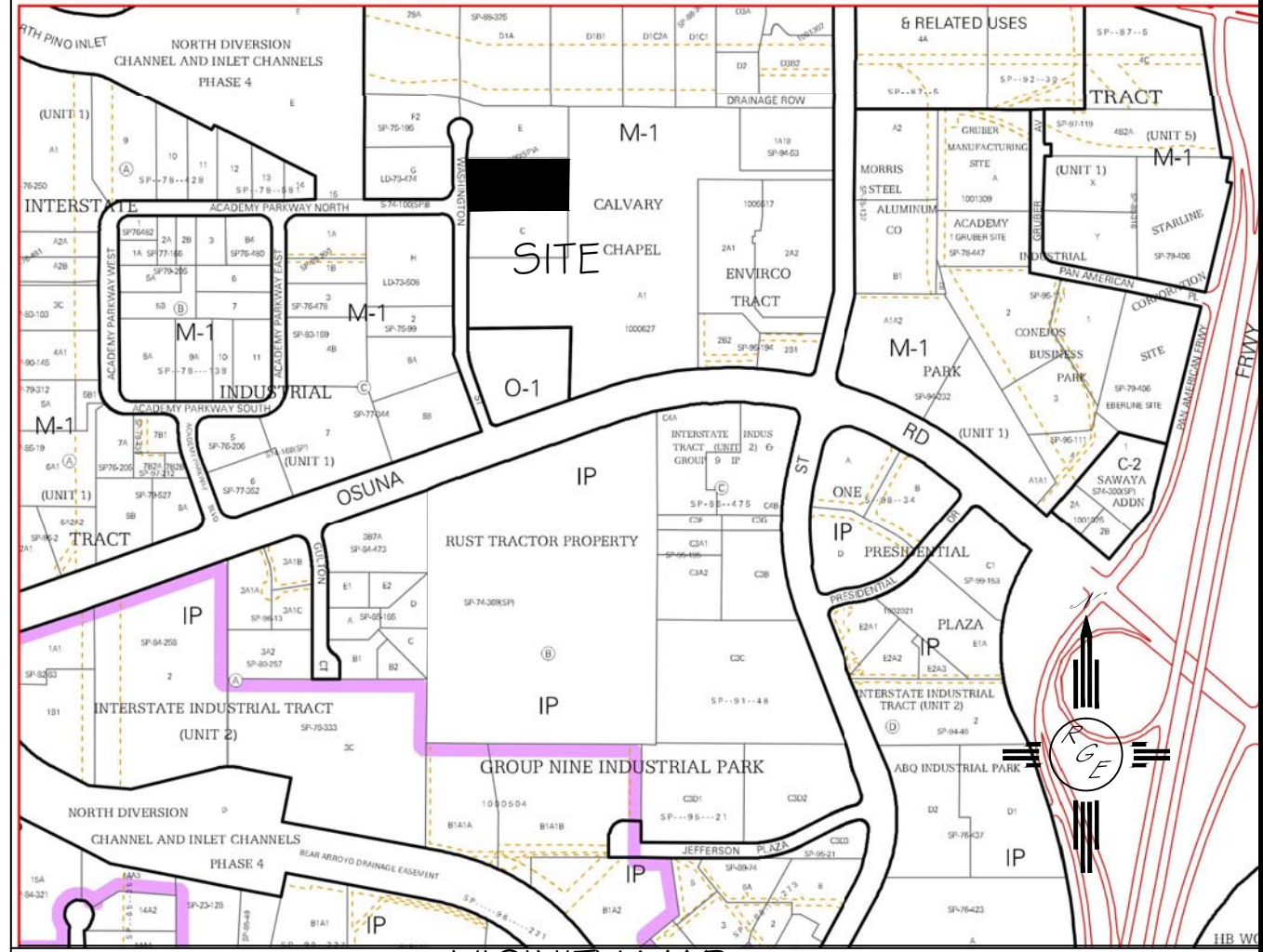
DRAINAGE NARRATIVE
THE SUBJECT PROPERTY IS LOCATED WITHIN A FULLY DEVELOPED, FREE DISCHARGE BUSINESS PARK. THE PROPOSED IMPROVEMENTS CONSIST OF A SMALL METAL BUILDING AND PAVEMENT APRON. THE DRAINAGE MANAGEMENT PLAN WILL RETAIN IN EXCESS THE WATER QUALITY REQUIREMENT FOR THE IMPROVED AREA AND RETAIN THE INCREASED VOLUME GENERATED. THIS WILL REDUCE THE PEAK FLOW TO CLOSE TO EXISTING AND INCREASE THE STORM WATER QUALITY LEAVING THE SITE.

TRACT C
INTERSTATE INDUSTRIAL
TRACT



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 (CITY) ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



LEGAL DESCRIPTION:

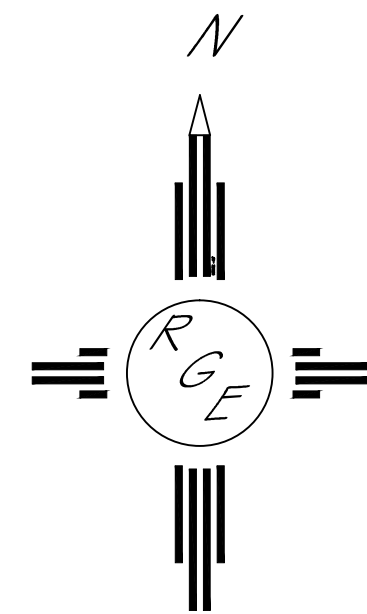
TRACT C, INTERSTATE INDUSTRIAL TRACT

NOTES:

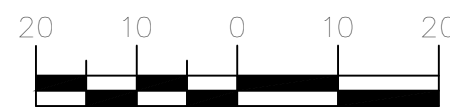
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 21082, DATED JANUARY 2016

LEGEND


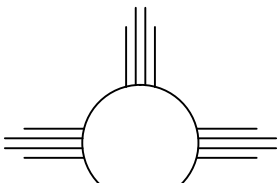
- -5411 --- EXISTING CONTOUR
- -5410 --- EXISTING INDEX CONTOUR
- -5411 --- PROPOSED CONTOUR
- -5410 --- PROPOSED INDEX CONTOUR
- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)



GRAPHIC SCALE



SCALE: 1"=20'

ENGINEER'S SEAL  1/25/16 DAVID SOULE P.E. #14522	TRACT C, INTERSTATE INDUSTRIAL 6824 WASHINGTON NE	DRAWN BY JDG
	GRADING AND DRAINAGE PLAN	DATE 01-25-2016
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999		SHEET # 1 OF 1
		JOB #