CITY OF ALBUQUERQUE



July 21, 2016

Richard J. Berry, Mayor

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

RE: Coles Metal Building/Shed addition Grading and Drainage Plan

Engineer's Stamp Date 6-23-16 (File: G16D150)

Dear Mr. Soule:

Based upon the information provided in your submittal received 6-27-2016, the above-referenced plan is approved for Building Permit; no separate Grading Permit is needed.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

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

Sincerely,

New Mexico 87103

www.cabq.gov

Abiel Carrillo, P.E.

Principal Engineer, Planning Dept. Development Review Services

Orig: Drainage file



COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

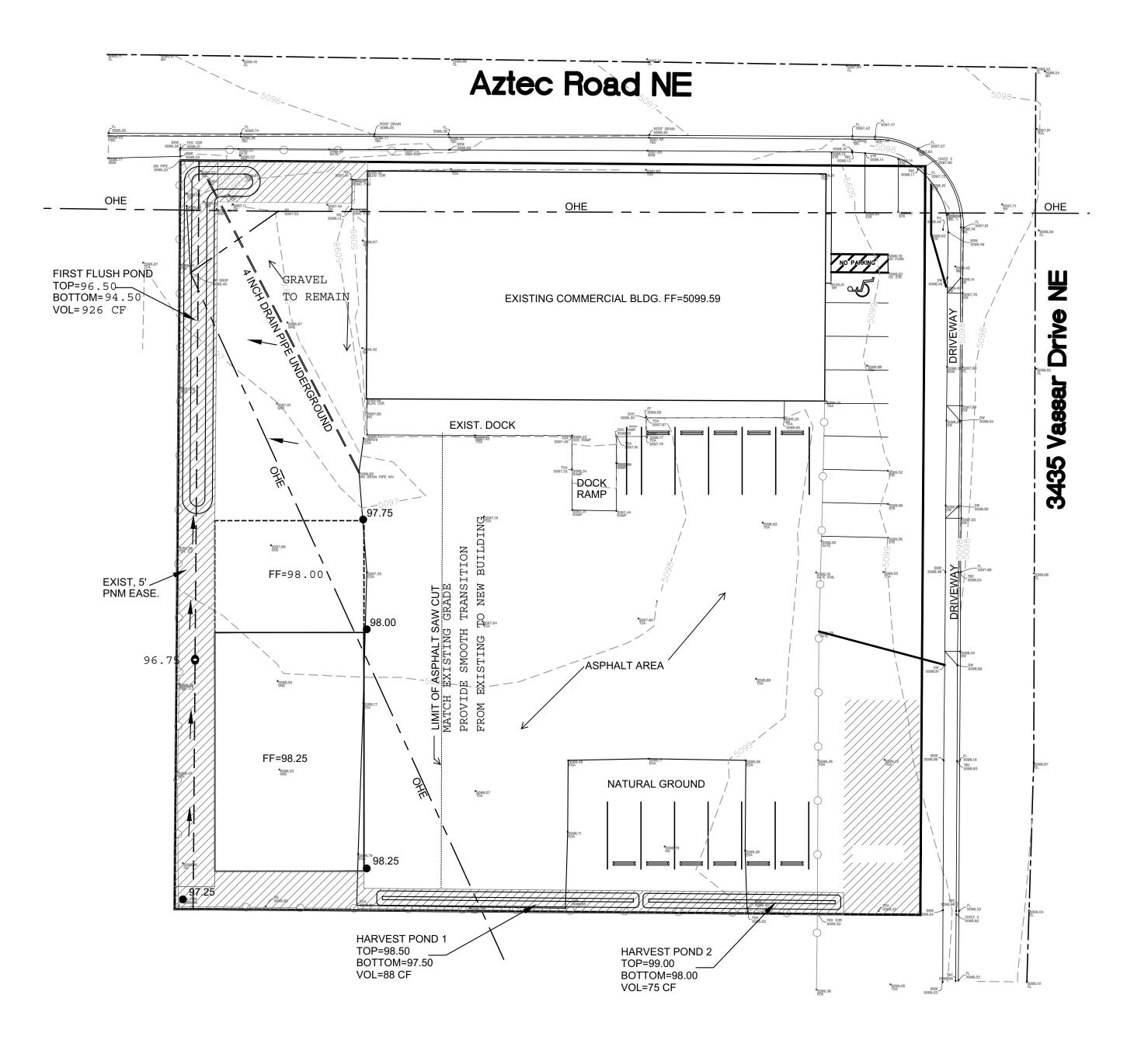
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: coles metal	Building Permit #:	City Drainage #:					
DRB#: EPC#:	_	Work Order#:					
Legal Description: N 200FT OF E1/2 OF BLK N COLES INDUSTRIAL SUBD							
City Address: 3435 VASSAR DR NE, ALB, NM 87107							
Engineering Firm: RIO GRANDE ENGINEERING		Contact: DAVID SOULE					
Address: PO BOX 93924, ALBUQUERQUE, NM 87199		-					
Phone#: 505.321.9099 Fax#: 505.872.0999		E-mail: DAVID@RIOGRANDEENGINEERING.CO					
Owner: COU LLC		Contact:					
Address: 3435 VASSAR DR NE, ALB, NM 87107							
Phone#: Fax#:		E-mail:					
Architect: PETER BUTTERFIELD		Contact:					
Address:							
Phone#: Fax#:		E-mail:					
Other Contact:		Contact:					
Address:							
Phone#: Fax#:		E-mail:					
X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUG X BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY						
MS4/ EROSION & SEDIMENT CONTROL	CERTIFICAT	E OF OCCUPANCY					
TYPE OF SUBMITTAL:	PRELIMINAL	RY PLAT APPROVAL					
ENGINEER/ ARCHITECT CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL						
CONCEPTUAL G & D PLAN		FOR BLDG. PERMIT APPROVAL					
X GRADING PLAN	FINAL PLAT						
DRAINAGE MASTER PLAN	SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL						
DRAINAGE REPORT	X GRADING PERMIT APPROVAL						
CLOMR/LOMR	SO-19 APPR						
	PAVING PEI	RMIT APPROVAL					
TRAFFIC CIRCULATION LAYOUT (TCL)	AD CERTIFICATION						
TRAFFIC IMPACT STUDY (TIS)	WORK ORDE						
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LON	ЛR					
OTHER (SPECIFY)	PRE-DESIGN	MEETING					
		ECIFY)					
IS THIS A RESUBMITTAL?: YesX No							
DATE SUBMITTED: 6/23/16 By:							



EROSION CONTROL NOTES:

AC-Plan notes 7-21-2016

area (dashed linework)

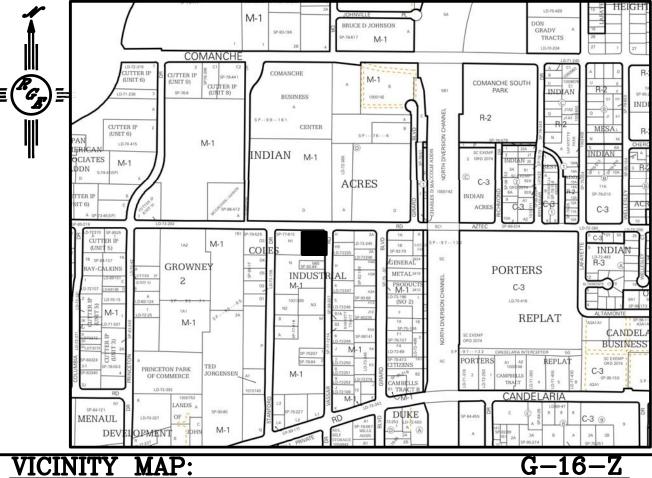
4-inch drain is existing

New building is a new with a covered storage

Hatching on lower right corner is typo

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
- 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.



PANEL 0351H FIRM FLOOD INSURANCE RATE MAP BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS PANEL 351 OF 825 BERNALILLO COUNTY
UNINCORPORATED AREAS 350001 0351 office to User. The Map Number shown below should be used sen gracing map orders; the Community Number shown ove should be used on insurance applications for the subject 35001C351H FIRM MAP:

LEGAL DESCRIPTION:

NORTH 200' OF THE EAST 1/2 OF TRACT N, COLE'S INDUSTRIAL SUBDIVISION NO. 2 CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

LEGEND

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR — PROPOSED CONTOUR —5600———— PROPOSED INDEX CONTOUR LOT LINE ----- RIGHT-OF-WAY EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS PROPOSED ROCK FACE WALL — PROPOSED EDGE OF CONCRETE · · · · · · · · · · · · PROPOSED FLOWLINE

EXISITNG WALL

Weighted E Method

Existing Developed Basins

							100-Year, 6-hr.			10-day				
Basin	Area	Area	Treatment A Treatment B		nt B	3 Treatment C		Treatment D		Weighted E	Volume	Flow	Volume	
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
PROPOSED ONSITE	40385	0.927	0%	0	0.0%	0.000	25.0%	0.23178	75%	0.695	1.873	0.145	4.00	0.237
EXISTING ONSITE	40385.00	0.927	0%	0	5.0%	0.046	15.0%	0.13907	85%	0.788	2.011	0.155	4.25	0.260
COMPARISON(onsite historical to proposed)					0.05		-0.09		0.09		0.011	0.25	0.023	

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)

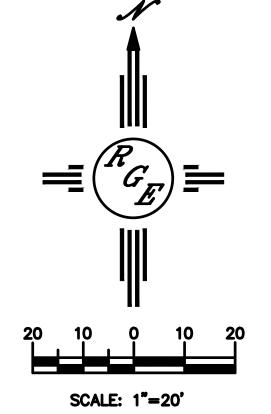
Ea= 0.53 Qa= 1.56 Eb= 0.78 Qb= 2.28 Ec= 1.13 Qc= 3.14 Ed= 2.12 Qd= 4.7

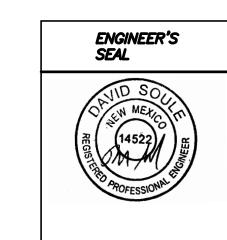
FIRST FLUSH REQUIREMENT

POND INCREASED RUNOFF VOLUME

972.6054 CUBIC FEET REQUIRED

1089 CUBIC FEET PROVIDED





6/23/16

DAVID SOULE P.E. #14522

COLES METAL BUILDING IMPROVEMENTS GRADING AND DRAINAGE PLAN



SHEET # of 1 JOB #

BY DEM

6-22-16

COLES GAD.dug

XXXXX

THIS SITE IS A REDEVELOPMENT OF AN EXISTING SITE . THE ADDITION WILL OCCUR IN A LOCATION THAT IS CURRENTLY HARD COMPACTED GRAVEL, THE NET INCREASE IN FLOW RATE SHALL BE .25 CFS. THE FIRST FLUSH POND HAS BEEN INCREASE TO CONTAIN THE INCREASE VOLUME GENERATED BY THE IMPROVMENTS FOR THE 100-YEAR, 10-DAY EVENT DUE TO THE ADDITIONAL ABSTRACTION AND INFILTRATION CAUSED BY FIRST FLUSH POND, THE PEAK DISCHARGE WILL SIMILAR TO HISTORIC WITH INCREASE WATER QUALITY.

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.

CAUTION: