

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



February 9, 2015

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

Richard J. Berry, Mayor

**RE: Kirkpatrick Warehouse (File: C17D122)
Grading and Drainage Plan, Engineer's Stamp Date 2-5-15
Drainage Report, Engineer's Stamp dated 11-25-14**

Dear Mr. Soule:

Based upon the information provided in your submittal received 2-6-15, the above referenced submittal is approved for Building Permit and SO-19 with the following condition:

- Add rip-rap where the drainage channel along the south side discharges to the retention pond.
- Note that the fence is to be removed.
- Limit the diameter or size of any landscaping that is to be put within the channel so that the capacity of the channel is not reduced.

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

New Mexico 87103

A separate SO-19 permit is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit. The work in the City ROW must be inspected and accepted. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an inspection.

www.cabq.gov

If you have any questions, you can contact me at 924-3695.

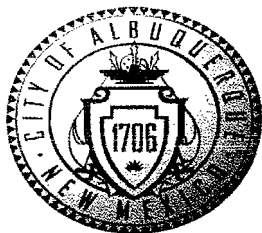
Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf: via Email: Recipient, Monica Ortiz, Jason Rodriguez and Antoinette Baldonado (DMD)

C17D122_BP_SO19_Appr.doc

1 of 1



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: kirkpatrick Building Permit #: _____ City Drainage #: C17D122
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: B1A5 CLIFFORD INDUSTRIAL PARK
City Address: 8610 presidents place

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.COM

Owner: KIRKPATRICK COMPANY Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Architect: DAN HERR Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: CONSTRUCTION SURVEY INCORPORATED Contact: JOHN GALLEGOS
Address: _____
Phone#: 917.8921 Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ ENGINEER'S CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL ☒ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL ☐ ESC PERMIT APPROVAL
☐ WORK ORDER APPROVAL ☐ ESC CERT. ACCEPTANCE
☐ GRADING CERTIFICATION ☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes ☒ No _____ Copy Provided

DATE SUBMITTED: 020515 By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

February 5, 2015

Ms. Rita Harmon
Senior Engineer
Hydrology Department
Public Works Department
City of Albuquerque

RE: Revised Grading Plan (C-17D122)
Kirkpatrick Warehouse
Albuquerque, New Mexico

Dear Ms. Harmon:

The purpose of this letter is to accompany the enclosed revised grading plan. The plan has been revised to accommodate your verbal comments dated 2/4/15. We have added a detail for the openings in the block walls. We also have included the weir calculation for this opening. We have included the percolation test results as well

Should you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

David Soule, PE
RIO GRANDE ENGINEERING
PO Box 93924
ALBUQUERQUE, NM 87199
321-9099

Investment = $(\text{Initial} + \text{PV}(\text{Rate}, \text{EndYear} - \text{StartYear}, \text{Total}))$

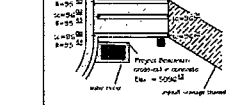
Volume = $\text{Investment} \div \text{TotalValue}$

Rate = $(\text{Cost} - \text{Net} \div \text{Cost} - \text{Net}) \div (\text{Net} - \text{Net}) \div \text{Net}$

How far beyond investment breaks 0

Year	Net	Cost	Net
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
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9	9	9	9
10	10	10	10
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100	100	100	100

Figure 1 shows a schematic diagram of a 2D hexagonal lattice. A central black dot is labeled "MH unit = 96". It is surrounded by six white dots, each labeled "MH unit = 96". These are further surrounded by a ring of 12 white dots, each labeled "MH unit = 96". The lattice extends outwards with more dots, some labeled "MH unit = 96" and others "MH unit = 96".



DETAIL NTS

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.

Notice to Contractor
(Special Order 19 ~ '50-19')

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. Within 5 days prior to any excavation, the contractor must contact New Mexico On Call, dial "311" or (505) 260-1990 for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the 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 composition shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on utility street shall be performed on a 24-hour basis. Prior to beginning any excavation, the contractor shall notify the Alamogordo inspector, 857-8704, for inspection requirements.

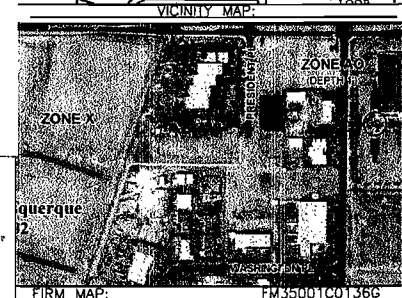
6" WIDE X 1.5" DEEP WITH 1.5:1 SIDE SLOPES

MATCH EXISTING GRADE

6"-8" FRACTURED ROCK OVER FILTER FABRIC PLANTING ALLOWED CHANNEL. SEE LANDSCAPE FOR LOCATION TYPE

20 10 0 10

SCALE: 1"=20'





Tract B-1-A-5, Clifford Industrial Park

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Delier, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

- - - -5411- - - - - EXISTING CONTOUR
 - - - -5410- - - - - EXISTING INDEX CONTOUR
 _____5411_____ PROPOSED CONTOUR
 _____5410_____ PROPOSED INDEX CONTOUR
 ② DESIGN ELEVATION

ENGINEER'S SEAL	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY: JCG
	GRADING AND DRAINAGE PLAN	DATE 01-12-2015
	 <i>Rio Grande Engineering</i> 1500 CHERRY AVENUE, SE SUITE 100 ALBUQUERQUE, NEW MEXICO 87102-0695 (505) 872-0695	SHEET # 1 OF 1
2/5/15		JOB #
DAVID SOBOL P.E. #144522		

WALL OPENING

Weir Equation:

$$Q = CLH^{3/2}$$

$$Q = 13 \text{ cfs}$$

$$C = 2.95$$

$$H = 1.33 \text{ ft}$$

$$L = 3.33 \text{ r}$$

$$Q = 2.95 \times 3.33 \times 1.33^{1.5} =$$

$$Q = 15.07 \text{ CFS}$$

THEREFORE 2.5 BLOCK WIDE BY 2 BLOCK TALL IS OK



EARTHWORKS ENGINEERING GROUP, LLC
• GEOTECHNICAL ENGINEERING •
MATERIALS TESTING • DISTRESS INVESTIGATIONS

January 26, 2015

Rio Grande Engineering
PO Box 93924
Albuquerque, NM 87199

Attention: David Soule

Subject: 8610 President Pl. NE
EEG Project No.: A15-47

This letter provides the results of percolation testing for design of a stormwater retention pond at 8610 President Pl. NE in Albuquerque New Mexico.

A single test hole was drilled to 3 feet below existing grade in the proposed stormwater retention pond area. The test hole was cased to prevent collapse and percolation testing was performed. The location of the percolation test hole is shown on Figure 1.

Soils within the proposed retention pond area appear to consist of silty to clayey sand. The test results indicate a percolation rate of 30 minutes/inch.

The staff of Earthworks Engineering Group is available for additional consultation as necessary. Should you have any questions concerning this information, please contact us at (505) 899-4886.

Prepared by

Reviewed by

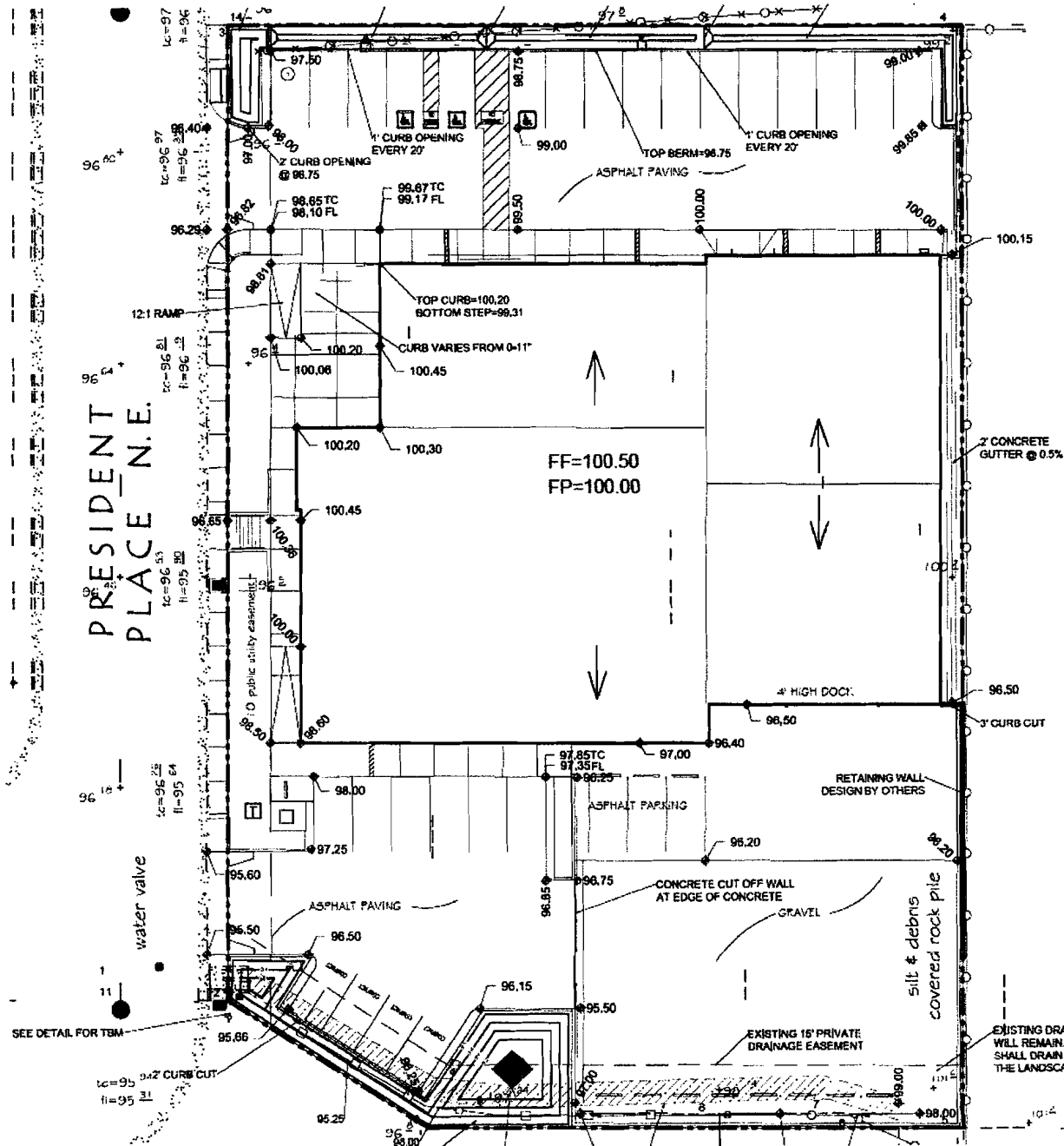


Patrick Gallegos, EIT

Dave Liebelt, P.E.
Earthworks Engineering Group LLC



*Not To Scale



◆ Percolation Test Hole Location