

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

- LEGEND**
- FLOW ARROW
 - 27.8 PROPOSED TOP OF GRADE/PVMT ELEVATIONS
 - FL27.8 PROPOSED FLOW LINE/GUTTER ELEVATIONS
 - TC27.8 PROPOSED TOP OF CURB ELEVATIONS
 - 515 EXISTING CONTOUR
 - 615 PROPOSED CONTOUR
 - EXISTING STORM DRAIN
 - FLOW LINE
 - RIDGE LINE

DRAINAGE MANAGEMENT PLAN

INTRODUCTION

The purpose of this submittal is to provide a final drainage management plan for the proposed building expansion of TLC Animal Hospital located at 1300 Wyoming Blvd NE in Albuquerque, NM. The project consists of demolition of the existing parking lot, construction of two building additions, and a new parking lot with associated landscaped areas. The existing curb cuts along Wyoming and Summer will remain. The site contains approximately 0.4554 acres.

EXISTING HYDROLOGIC CONDITIONS

The site is currently developed and 90.3% impervious per the Impervious Area calculations this sheet. Surrounding streets and infrastructure are in place. The site slopes from east to west in a sheet flow condition and drains to both Summer Av. and Wyoming Blvd. Per the basin calculations table this sheet, the site currently discharges 2.22 cfs (3,730 CF) during the 100-Yr, 6-Hr Storm. Analysis for these and all drainage calculations were performed using the COA DPM Section 22.2, released June 1997.

PROPOSED HYDROLOGIC CONDITIONS

The site will continue to drain to Summer Ave and Wyoming Blvd in a sheet flow condition. There is an increase in landscaped area on the site which decreases the total impervious area to 84.3%. Per the basin calculations table this sheet, the proposed site will discharge 2.17 cfs (3,624 CF) during the 100-Yr, 6-Hr Storm, which is a reduction of 0.05 cfs (106 CF).

FIRST FLUSH CALCULATIONS

The first flush volume impervious area is 16,720 SF (Impervious Area) * 0.34" / 12" = 474 cubic feet. The pond provided contains +/- 585.5 cubic feet which is sufficient to contain the first flush. The pond will discharge onto the sidewalk at the north end of the existing curb cut.

CONCLUSION

This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm and meets city requirements. With this submittal, we are requesting approval of this plan for Grading Permit, Building Permit, and SO-19 Approval.

IMPERVIOUS AREA CALCULATIONS

EXISTING SITE CONDITIONS	PROPOSED SITE CONDITIONS
PERVIOUS AREA: 1,921 SF	PERVIOUS AREA: 3,117 SF
IMPERVIOUS AREA: 17,916 SF	IMPERVIOUS AREA: 16,720 SF
TOTAL SITE AREA: 19,837 SF	TOTAL SITE AREA: 19,837 SF
% IMPERVIOUS = 9.68%	% IMPERVIOUS = 15.71%

- Private Drainage Facilities within City Right-of-Way**
Notice to Contractor
(Special Order 19 ~ "SO-19")
- An excavation permit will be required before beginning any work within City Right-Of-Way.
 - 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.
 - Two working days prior to any excavation, the contractor must contact **New Mexico One Call, dial "811"** [or (505) 260-1990] for the location of existing utilities.
 - 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.
 - Backfill compaction shall be according to traffic/street use.
 - Maintenance of the facility shall be the responsibility of the owner of the property being served.
 - Work on arterial streets shall be performed on a 24-hour basis.

CITY INSPECTOR APPROVAL

Signature _____ Date _____

Existing TLC Animal Hospital Drainage Calculations												
This table is based on the COA DPM Section 22.2, Zone: B												
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) ₁₀₈₀₀
	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Existing Site	19837	0.46	0.0%	0.0%	9.7%	90.3%	4.87	2.22	2.26	3730	4327	6118
TOTAL	19837	0.46						2.22		3730	4327	6118

Proposed TLC Animal Hospital Drainage Calculations												
Ultimate Development Conditions Basin Data Table												
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) ₁₀₈₀₀
	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Proposed Site	19837	0.46	0.0%	0.0%	15.7%	84.3%	4.77	2.17	2.19	3624	4181	5853
TOTAL	19837	0.46						2.17		3624	4181	5853

DRAINAGE CERTIFICATION

I, JEFFREY T. WOOTEN, NMPE 16892, OF THE FIRM WOOTEN ENGINEERING, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10/29/14. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY TIM MARTINEZ, NMPS 13982. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE ON 5/15/15 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR FINAL CERTIFICATE OF OCCUPANCY (FINAL C.O.).

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

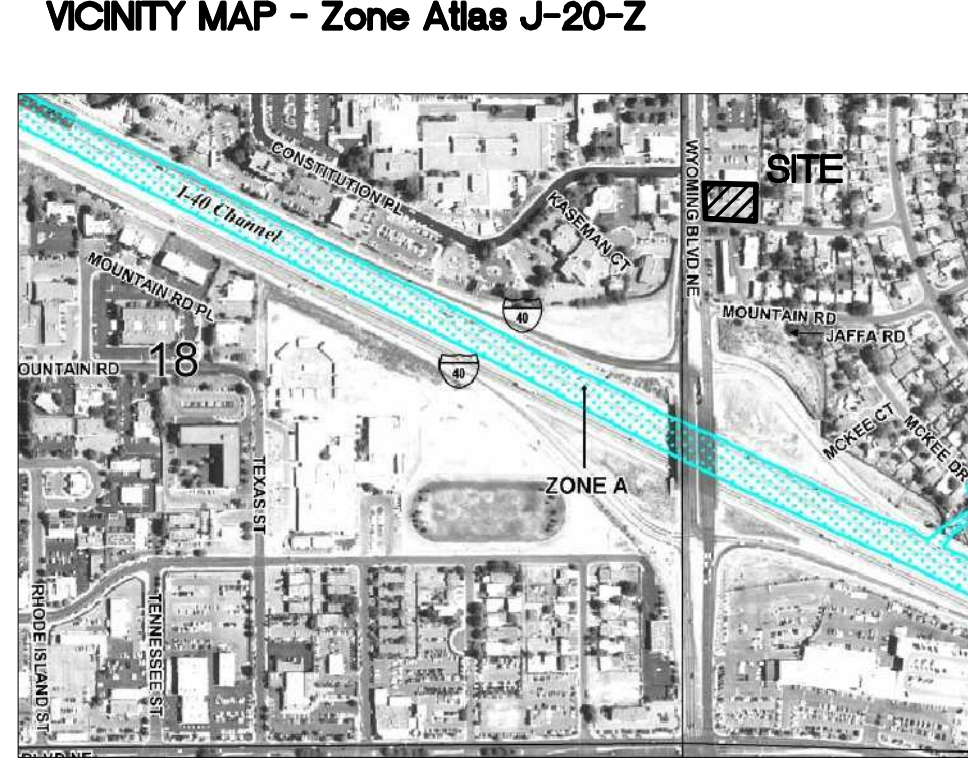
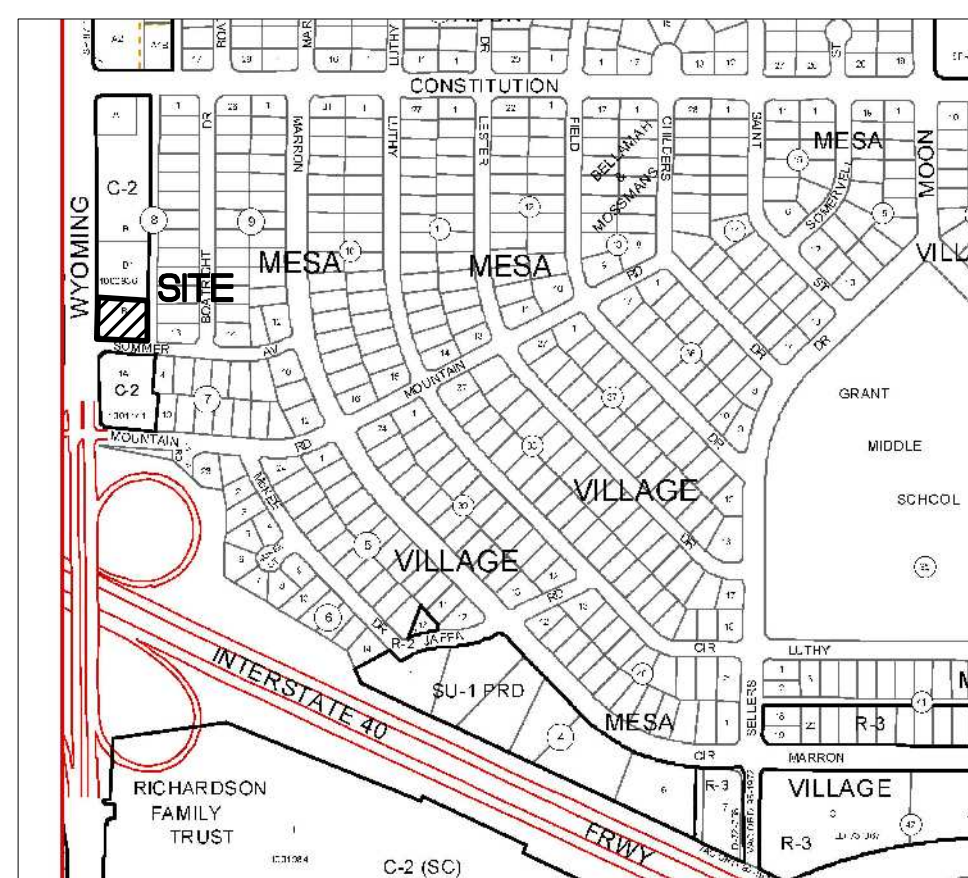
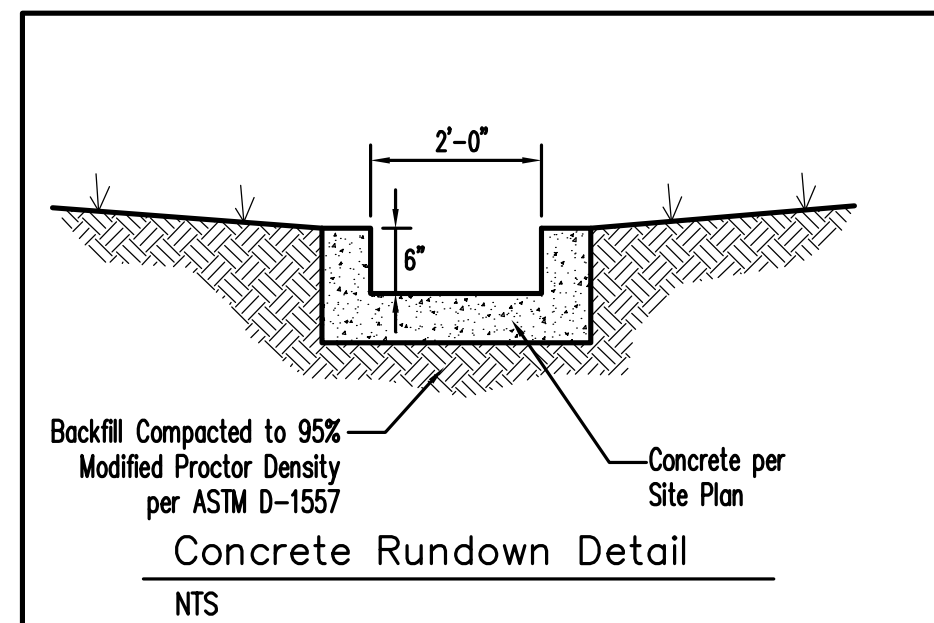


JEFFREY T. WOOTEN, NMPE 16892 5/27/15

POND VOLUME CALCULATIONS

CONTOUR ELEVATION	AREA (SF)	VOLUME (CF)
5359.00	197 SF	244.0 CF
5360.00	291 SF	341.5 CF
5361.00	392 SF	585.5 CF
TOTAL		

NOTE: THE ABOVE POND VOLUMES SHALL BE VERIFIED AS PART OF THE DRAINAGE CERTIFICATION AND WILL BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.



FIRM MAP 35001C0358H
Per FIRM Map 35001C0358H, dated Aug 16, 2012, the site is not located in the Floodplain.

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 UPDATE NO. 8.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NM ONE CALL FOR LOCATION OF EXISTING UTILITIES. (NM ONE CALL = "811")
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

GRADING NOTES

- EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND Haul TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF APPLICABLE) PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

Wooten Engineering
4700 Lincoln NE, Suite 111
Albuquerque, NM 87109
Ph: 505.980.3560

revision _____

by _____

date _____

rev

project title
TLC Pet and Uptown Cat Hospitals
1300 Wyoming Boulevard, NE,
Albuquerque, New Mexico 87112

sheet title
Grading / Drainage Plan

job number
2014043

drawn by
JTW

project manager
Jeffrey Wooten, P.E.

date
10/24/14

sheet-
C001



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

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: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ 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
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ GRADING CERTIFICATION
- _____ SO-19 APPROVAL
- _____ ESC PERMIT APPROVAL
- _____ ESC CERT. ACCEPTANCE
- _____ OTHER (SPECIFY)

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

DATE SUBMITTED: _____ 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 that are part of a larger common plan of development

CITY OF ALBUQUERQUE



June 2, 2015

Jeff Wooten, PE
Wooten Engineering
4700 Lincoln NE Suite 111
Albuquerque, NM 87109

**Re: TLC Pet and Uptown Cat Hospital
1300 Wyoming Blvd NE
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 10-29-14 (J20D027)
Certification dated: 5-27-15**

Dear Mr. Randall,

Based on the Certification received 6/1/2015, the above named pet hospital is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

Sincerely,

New Mexico 87103

Rita Harmon, P.E.
Principal Engineer, Hydrology
Planning Department

www.cabq.gov

C: RR/RH
email