

# CITY OF ALBUQUERQUE



October 29, 2014

Mr. Jeff Wooten  
4700 Lincoln NE  
Suite 111  
Albuquerque, NM 87109

**Re: TLC Pet and Uptown Cat Hospital  
Grading and Drainage Plan  
Engineer's Stamp Date 10-29-14 (J20D027)**

Dear Mr. Wooten,

Based upon the information provided in your submittal received October 29, 2014, the above referenced plan is approved for Building Permit and SO-19 Permit. The SO-19 Permit is required for construction within the City Right of Way. A copy of this approval letter must be on hand when applying for the Excavation Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

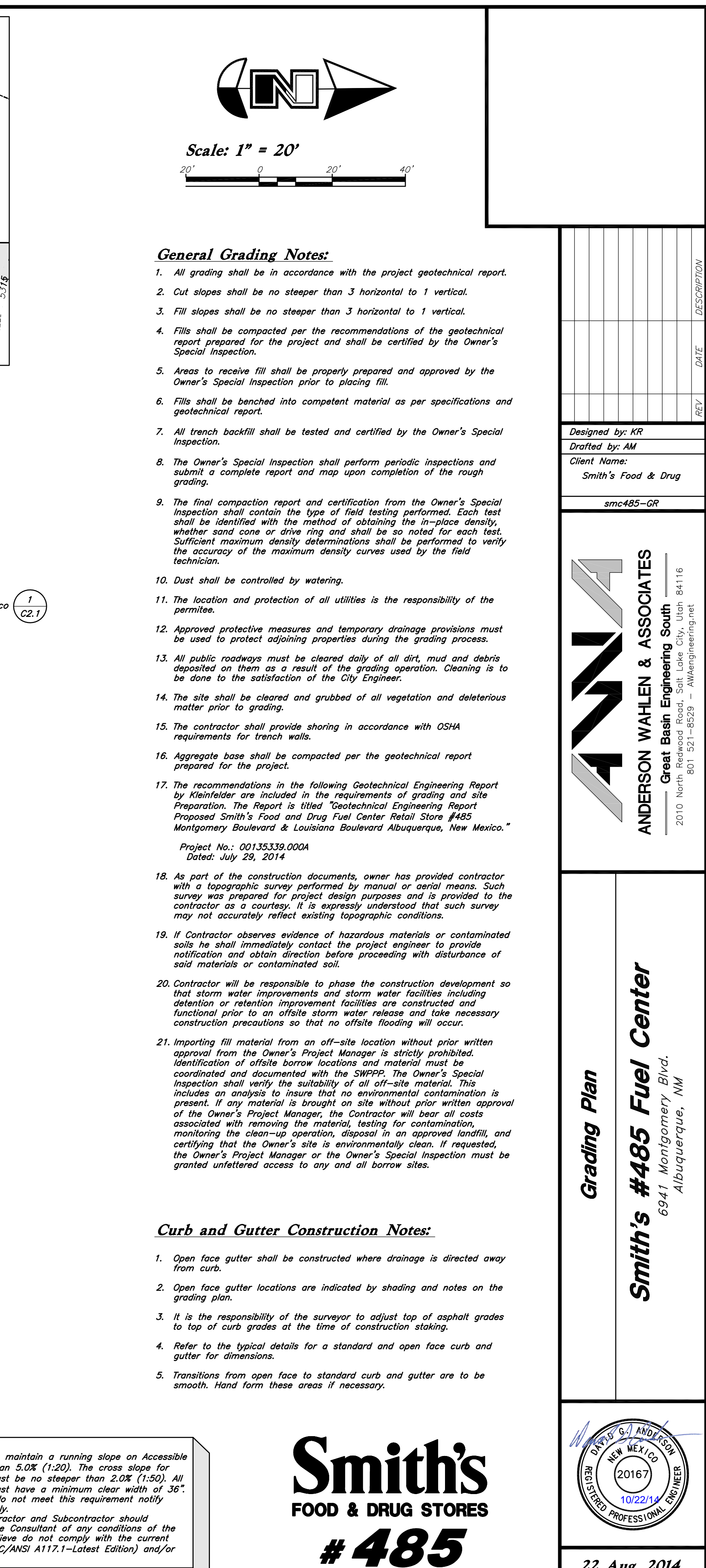
If you have any questions, you can contact me at 924-3994.

Sincerely,

Amy L. D. Niese, P.E.  
Senior Engineer, Hydrology  
Planning Department

C: e-mail





1. All grading shall be in accordance with the project geotechnical report.
2. Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the Owner's Special Inspection.
5. Areas to receive fill shall be properly prepared and approved by the Owner's Special Inspection prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the Owner's Special Inspection.
8. The Owner's Special Inspection shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the Owner's Special Inspection shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permittee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. The recommendations in the following Geotechnical Engineering Report by Kleinfelder are included in the requirements of grading and site Preparation. The Report is titled "Geotechnical Engineering Report Proposed Smith's Food and Drug Fuel Center Retail Store #485 Montgomery Boulevard & Louisiana Boulevard Albuquerque, New Mexico."

Project No.: 001353339.000A  
Dated: July 29, 2014

18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey may be used for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
19. If contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of soil materials or contaminated soil.
20. Contractor will be responsible to phase the construction development so that storm water improvements and storm water facilities including detention or retention improvement facilities are constructed and functional prior to an offsite storm water release and take necessary construction precautions so that no offsite flooding will occur.
21. Importing fill material from an off-site location without prior written approval from the Owner's Project Manager is strictly prohibited. Identification of offsite borrow locations and material must be coordinated and approved by the Owner's Special Inspection. The contractor shall verify the suitability of all off-site material. This includes an analysis to insure that no environmental contamination is present. If any material is brought on site without prior written approval of the Owner's Project Manager, the Contractor will bear all costs associated with removing the material, testing for contamination, monitoring the clean-up operation, disposal in an approved landfill, and certifying that the Owner's site is environmentally clean. If requested, the Owner's Project Manager or the Owner's Special Inspection must be granted unfettered access to any and all borrow sites.

1. *Open face gutter shall be constructed where drainage is directed away from curb.*
2. *Open face gutter locations are indicated by shading and notes on the grading plan.*
3. *It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.*
4. *Refer to the typical details for a standard and open face curb and gutter for dimensions.*
5. *Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.*

**ADA Note:**  
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.  
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA (ICC/ANSI A117.1—Latest Edition) and/or FHAA.

**Smith's**  
FOOD & DRUG STORES  
**#485**  
*Albuquerque, NM*

**ANDERSON WAHLEN & ASSOCIATES**  
Great Basin Engineering South  
2010 North Redwood Road, Salt Lake City, Utah 84116

**Grading Plan**

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**Smith's #485 Fuel Center**  
6941 Montgomery Blvd.  
Albuquerque, NM

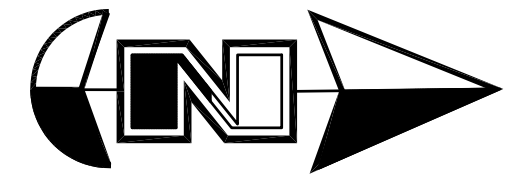
22 Aug, 2014

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SHEET NO.

**C2.1**





Scale: 1" = 20'



#### Storm Drain Keynotes

- 1 Const. 6" PVC SD  
8.7' @ 1.00%
- 2 Const. 6" PVC SD  
9.2' @ 1.00%
- 3 Const. 6" PVC SD  
6.0' @ 1.00%
- 4 Const. 6" PVC SD  
28.4' @ 1.00%
- 5 Const. 15" RCP SD  
13.6' @ 2.00%
- 6 Const. 24" ADS HDPE SD  
11.7' @ 1.00%
- 7 Const. 15" RCP SD  
12.2' @ 2.00%
- 8 Const. 12" PVC SD  
23.6' @ 1.00%
- 9 Const. 12" PVC SD  
4.5' @ 1.00%
- 10 Const. 4" PVC SD  
10.5' @ 2.00%
- 11 Const. 4" PVC SD  
30.0' @ 1.00%
- 12 Const. 12" PVC SD  
27.0' @ 1.00%
- 13 Const. 6" PVC SD  
4.0' @ 1.00%
- 14

#### General Utility Notes:

1. All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
2. Coordinate all utility connections to building with plumbing plans and building contractor.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
4. All catch basin and inlet box grates are to be bicycle proof.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

#### Utility Piping Materials:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

##### Culinary Service Laterals

1. Pipe material as shown on utility plan view and/or to meet city standards.

##### Water Main Lines and Fire Lines

1. Pipe material as shown on utility plan view and/or to meet city standards.

##### Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

##### Storm Drain Lines

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 15" pipes or larger - ADS High Density Polyethylene (HDPE) AASHTO M 294, Types with Smooth Interior or Equal as Approved.

#### Utility Construction Keynotes

- 1 Contractor shall furnish & install 3/4" Mueller Orisetal Mark II stop & waste valve with 3/4" compression x male end adaptor fittings, 2-1/2" cast iron curb service box with screw type extension shaft to grade and lid marked "irrigation." Contractor shall provide owner with pentagon head bolt wrench for maintenance access. Stub 5" minimum 3/4" SDR-9 class 200 polyethylene irrigation pipe for irrigation connection (See Irrigation Plan). Mark stub end with 2"x4" painted "purple."
- 2 Furnish & install 1" polyethylene (PE) water pipe AWWA C901, PE 340B, SDR-9 (200 PSI) to within 5' of Kiosk.
- 3 Const. 2" Black Steel Vent Pipe Provide Continuous Positive Slope Towards Surface
- 4 Const. Vent Riser

#### Storm Drain Note:

All Storm Drainage Pipe Lengths and Slopes are from Center of Box to Center of Box.

#### CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are 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.

New Mexico One Call, Inc.



**Smith's**  
FOOD & DRUG STORES  
**#485**  
Albuquerque, NM

**ANDERSON WAHLEN & ASSOCIATES**  
Great Basin Engineering South  
2010 North Redwood Road, Salt Lake City, Utah 84116  
801.521.8529 - AWAengineering.net

**Utility Plan**  
**Smith's #485 Fuel Center**  
6941 Montgomery Blvd.  
Albuquerque, NM



22 Aug, 2014

SHEET NO.

**C3.1**