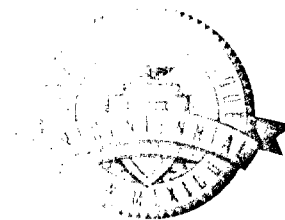


# CITY OF ALBUQUERQUE



May 17, 2006

Ronald R. Bohannon, P.E.  
Tierra West, LLC  
8509 Jefferson St. NE  
Albuquerque, NM 87113

**Re: Sams Club Liquor Sales Add, 10600 Coors Blvd Bypass NW  
Grading and Drainage Plan  
Engineer's Stamp dated 4-19-06 (A13-D015)**

Dear Mr. R. Bohannon,

Based upon the information provided in your submittal received 4-20-06, the above referenced plan is approved for Grading and Building 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 924-3977.

Sincerely,

A handwritten signature in black ink, appearing to read "Rudy E. Rael", is positioned above the typed name.

Rudy E. Rael, Associate Engineer  
Planning Department.  
Development and Building Services

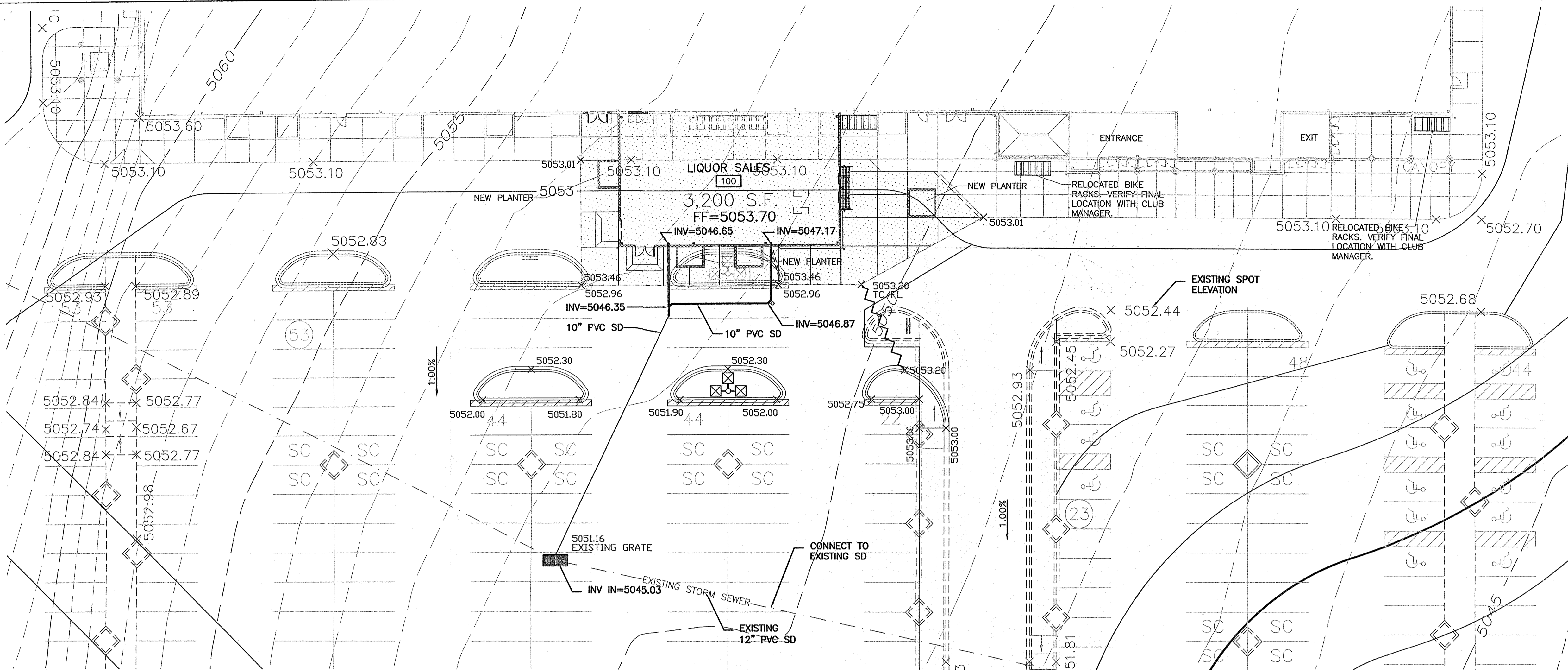
C: File

P.O. Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)



FOUNDATION SUBSURFACE PREPARATION PROPOSED STOCKROOM ADDITION  
EXISTING SAM'S CLUB STORE #4703  
10600 COORS BOULEVARD BYPASS NW (C-13 & 14 Z)  
ALBUQUERQUE, NEW MEXICO  
TERRACON PROJECT NO. 66055015  
03/21/05

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 10 FEET BEYOND THE BUILDING ADDITION AND APPURTENANCES.

APPURTENANCES ARE THOSE ITEMS ATTACHED TO THE BUILDING PROPER (REFER TO DRAWING SHEET SP1), TYPICALLY INCLUDING, BUT NOT LIMITED TO, THE BUILDING SIDEWALKS, STOOPS, ETC. THE SUBBASE DOES NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING ADDITION AND THE APPURTENANCES.

ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE SLAB THICKNESS AND A 6 INCH SUBBASE FOR EXPOSED CONCRETE SLABS CONSISTING OF 4 INCH COARSE AGGREGATE AND 2 INCH FINE AGGREGATE. THE INTERIOR SLAB SUBBASE SHALL CONSIST OF 4 INCHES OF COARSE AGGREGATE MEETING THE GRADATION REQUIREMENTS OF OPEN GRADED BASE COURSE (OGBC) AS DEFINED BY NMDOT, SECTION 304 COVERED WITH 2 INCHES OF FINE AGGREGATE MEETING THE GRADATION REQUIREMENTS OF ASTM D-448, SIZE 10 AGGREGATE WITH 6 PERCENT TO 12 PERCENT PASSING THE NO. 200 SIEVE. THE EXTERIOR SLAB SUBBASE SHALL CONSIST OF 4 INCHES OF COARSE AGGREGATE MEETING THE GRADATION REQUIREMENT OF OGBC AS DEFINED BY NMDOT, SECTION 304 COVERED WITH 2 INCHES OF FINE AGGREGATE MEETING THE GRADATION REQUIREMENTS OF ASTM D-448, SIZE 10 AGGREGATE WITH 6 PERCENT TO 12 PERCENT PASSING THE NO. 200 SIEVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED.

REMOVE EXISTING ASPHALT AND DELETERIOUS MATERIALS, ECT., FROM THE BUILDING ADDITION AREA. UPON REMOVAL OF THE EXISTING SOILS, THE SPREAD FOUNDATIONS SHOULD BEAR ON A MINIMUM OF 3 FEET OF ENGINEERED FILL AND THE INTERIOR SLABS SHOULD BEAR ON A MINIMUM OF 2 FEET OF ENGINEERED FILL. PROOFROLL EXPOSED SUBGRADE. REMOVE AND REPLACE UNSUITABLE AREAS AND BACKFILL OVEREXCAVATION WITH SUITABLE MATERIAL. SUBGRADE AND ENGINEERED FILL MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS AND SHALL MEET THE FOLLOWING REQUIREMENTS:

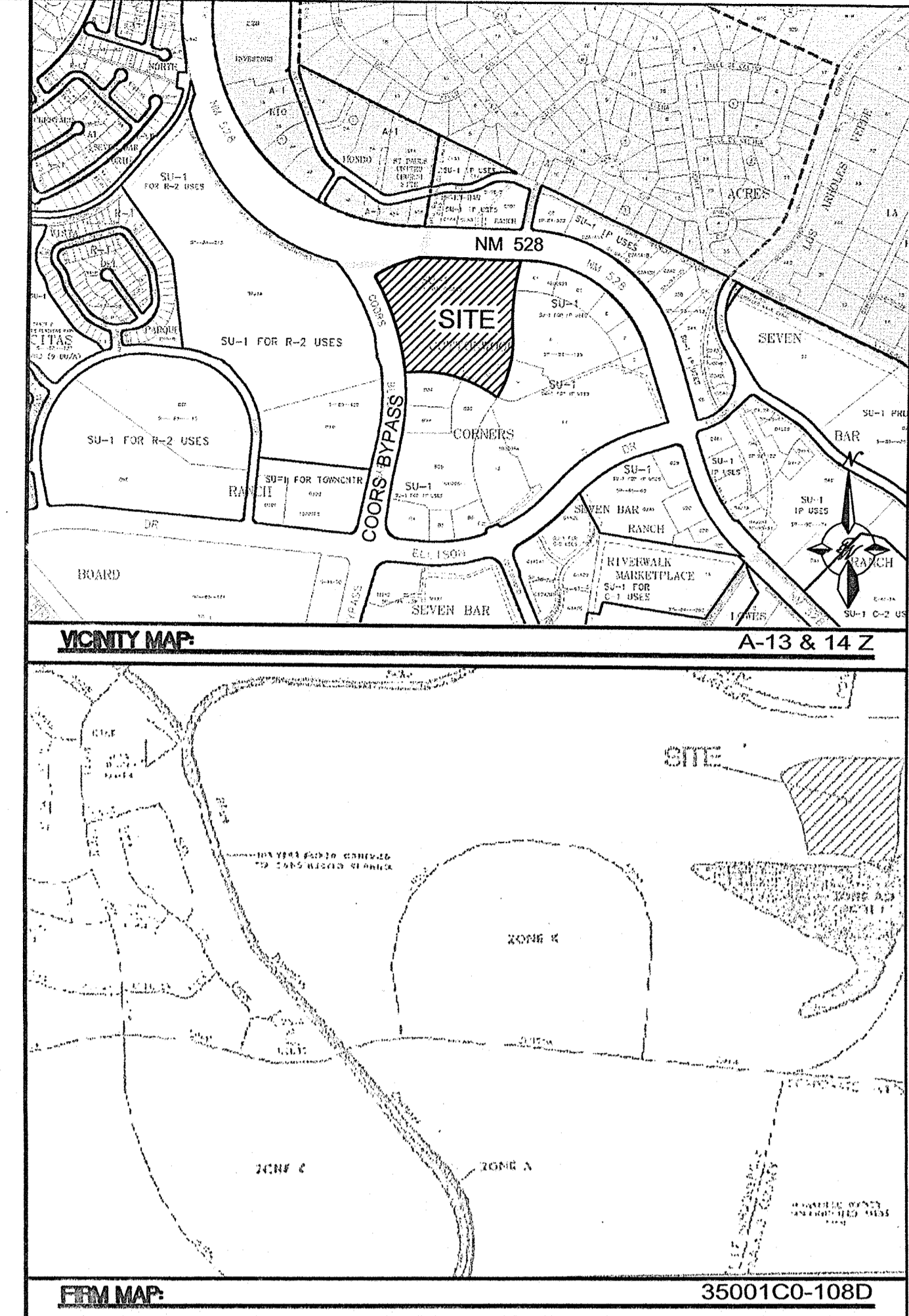
FILL WITHIN LIMITS OF BUILDING PAD	P.I. 12 MAX.	I.L. 35 MAX.
MAX PARTICLE SIZE (ASTM C136)		
3" .....	100	
No. 4 Sieve .....	50-100	
No. 200 Sieve .....	50 (max)	

THE SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 10 INCHES IN THICKNESS IF SOIL HAS NO PI AND 8 INCHES FOR SOILS WITH PI AND COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) AT A MOISTURE CONTENT WITHIN 1 PERCENT BELOW TO 3 PERCENT ABOVE THE OPTIMUM FOR SOILS WITH A PLASTICITY INDEX GREATER THAN 5 AND AT A MOISTURE CONTENT WITHIN 3 PERCENT BELOW TO 3 PERCENT ABOVE THE OPTIMUM FOR ALL OTHER SOILS. THE CONTRACTOR SHOULD ACKNOWLEDGE BOTH COMPACTION AND SOIL MOISTURE CONTENT REQUIREMENTS MUST BE MET TO ACHIEVE A SUITABLE ENGINEERED FILL.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS AND CONTINUOUS SPREAD FOOTINGS AT WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATION. REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY TERRACON, DATED FEBRUARY 21, 2005. (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).

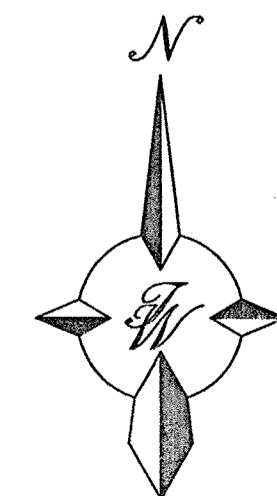
E-Mail addresses for the Geotechnical Engineer is [kjesscott@terracon.com](mailto:kjesscott@terracon.com) and [jsumma@terracon.com](mailto:jsumma@terracon.com).



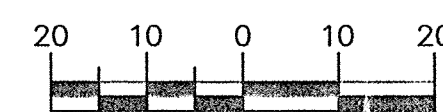
LEGEND	DESCRIPTION
=====	EXISTING CURB & GUTTER
=====	PROPOSED CURB & GUTTER
--- EX. 8" SAS ---	EXISTING SANITARY SEWER LINE
--- EX. 12" PVC ---	EXISTING STORM SEWER LINE
~~~~~	WATER BLOCK

- NOTES:**
1. ALL SPOT ELEVATIONS ARE AT FLOWLINE UNLESS NOTED.
  2. REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS FOR ALL GROUND WORK PREPARATIONS.

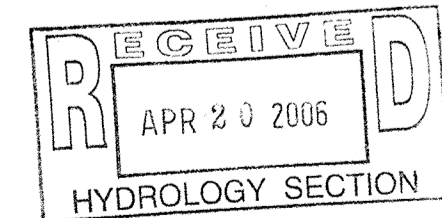
**CAUTION:**  
IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



GRAPHIC SCALE



SCALE: 1"=20'



ENGINEER'S SEAL	ALBUQUERQUE SAM'S CLUB #4703 LIQUOR SALES ADDITION	DRAWN BY BJF
	GRADING AND DRAINAGE PLAN	DATE 04-19-06
	TERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	25006GRB-02-21-05x
RONALD R. BOHANNAN P.E. #7868		SHEET # <b>C4</b>
		JOB # 25006