

CITY OF ALBUQUERQUE



March 14, 2007

D. Mark Goodwin, P.E.
D. Mark Goodwin & Associates, P.A.
PO Box 90606
Rio Rancho, NM 87199

Re: Storage USA Expansion, Engineer's Stamp dated 3-12-07 (A14/D4A6)
Tracts D4G through D4L of Seven Bar Ranch

Dear Mr. Goodwin,

Upon review of the information provided in your submittal received on March 12, 2007, the above referenced plan is approved for Grading, Paving, and Building Permits. 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 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file A14/D4A6

P.O. Box 1293

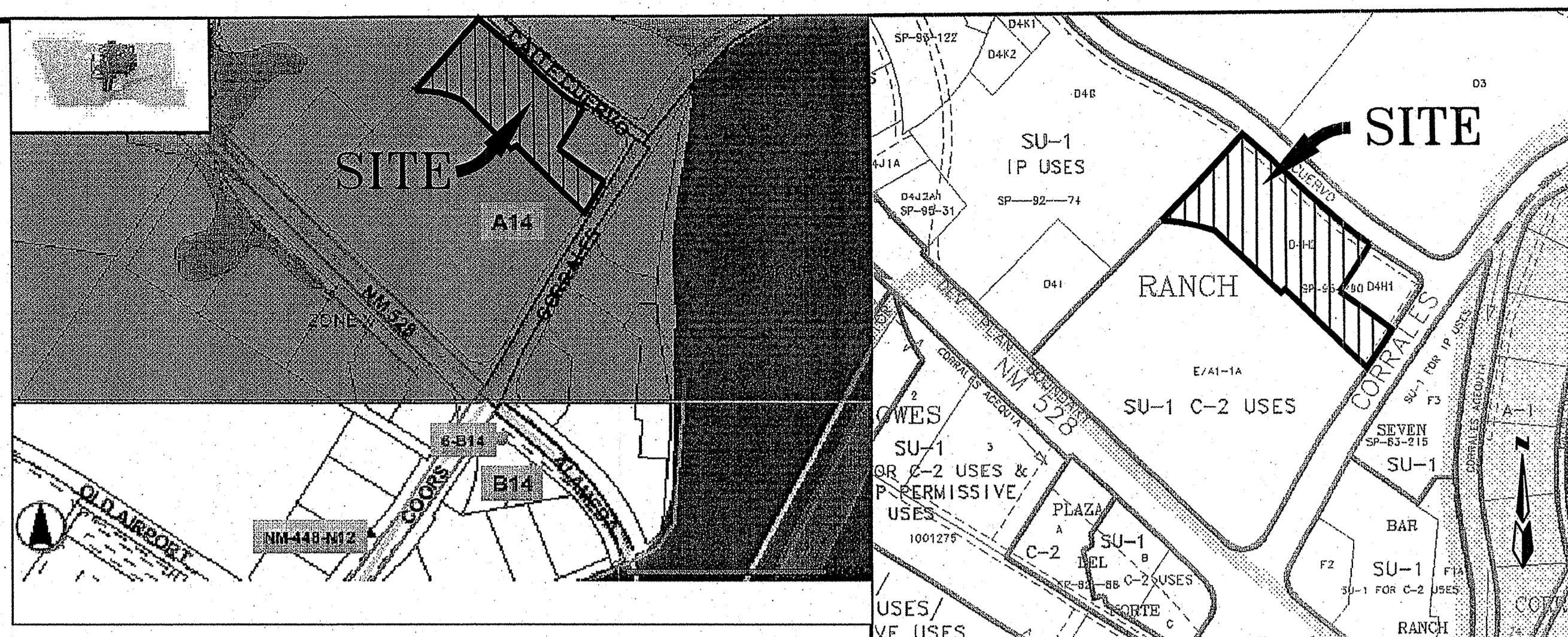
Albuquerque

New Mexico 87103

www.cabq.gov

I, JOHN M. MACKENZIE, NMPE 11819, OF THE FIRM MARK GOODWIN & ASSOCIATES, P.A., 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 3/20/05. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENTS HAS BEEN OBTAINED FROM THE FIRM'S FILES. I LISTED THE FIRM'S CARTESIAN SURVEYS. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 12/27/2007, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA IS CORRECT AND REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR GRADING CERTIFICATION APPROVAL.

John Mackenzie
JOHN M. MACKENZIE
DATE 01.04.08



F.I.R.M. MAP 109 OF 825

ZONE MAP: A-14-Z

EXIST. MANHOLE RIM IN CALLE CUERVO N.W. LOCATED APPROX 298' S.E. ON NORTH PROPERTY CORNER.

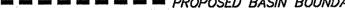
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "NM448-N1.
SET IN TOP OF A CONCRETE TABLET, PROJECTING 0.3 FT. ABOVE GROUND.

TO REACH THE STATION FROM THE INTERSECTION OF STATE RD. 448 AND
CENTRAL AVE., GO NORTH ON STATE RD. 448, 9.30 MILES TO MOUNTAIN BEL
TELE. SUB-STATION AND STATION ON LEFT (WEST).

$$X = 381,108.54, Y = 1,528,910.94, Z = 5023.411$$

TRACTS D-4-G THRU D-4-L, SEVEN-BAR RANCH (BEING A REPLAT
OF TRACTS D-4-A THRU D-4E, SEVEN-BAR RANCH)

1. THIS PROJECT INTAILS THE ADDITION OF 1 NEW COVERED STORAGE BUILDINGS WHERE EXISTING ASPHALT PAVED AREAS ARE AND 1 NEW COVERED BUILDING WHERE THERE IS EXISTING GRAVEL AREA.

	POWER POLE
	LIGHT
	SEWER CLEANOUT
	CONCRETE CURB & GUTTER
	UTILITY PEDESTAL
	WATER VALVE
	WATER METER
	CONC. P.N.M. VAULT
	GAS METER/VALVE
	HYDRANT
	CATCH BASIN
	SANITARY SEWER MANHOLE
	FENCE
	MANHOLE
	PROPOSED SPOT ELEVATION
	PROPOSED FLOW DIRECTION
	PROPOSED VALLEY GUTTER
	PROPOSED PAVEMENT
	PROPOSED WATER BREAK
	PROPOSED BASIN BOUNDARY
	PROPOSED STORM DRAIN
	ROOF DRAIN FLOW
	PROPOSED STORM INLET

GRADING & DRAINAGE PLAN

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 345-2010

Designed: DMG	Drawn: CAR	Checked: DMG	Sheet 1 of 1
Scale: 1" = 40'	Date: 4/96	Job: A6076	

I. PROJECT DESCRIPTION

The proposed site area comprises approximately 3.75 acres and is located along the south side of Calle Cuervo N.W. The current legal description of the site is "TRACTS D-4-G THRU D-4-L, SEVEN-BAR RANCH, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO". The property is contained within the Mini Storage Corrales development for which a Drainage Plan was approved 9 years ago. The Purpose of this report is to present the drainage management plan for the ~~two~~ proposed storage buildings in order to obtain the building permit and grading and drainage plan approval. All applicable ordinances, the DPM and AHYMO were utilized to prepare this plan.

The design criteria used in this report was in accordance with Section 22.2 Hydrology of the Development Process Manual. The 100-year, 6-hour storm event was utilized to determine site runoff rates using $P(1 \text{ hr}) = 1.87"$, $P(6 \text{ hr}) = 2.20"$ and $P(24 \text{ hr}) = 2.66"$.

Mark Goodwin and Associates submitted a drainage plan covering the subject property in connection with its work on the Mini Storage Corrales in 1997(A14/D446). The plan has an engineer's stamp date of July 31, 1997. According to the report, developed runoff discharging from this site and from offsite is designed to be collected and routed at a max peak of 39.71 cfs through a pond located on the west side of the property. The routed peak discharge is connected to storm inlet on Calle Cuervo Road with the help of 36" pipe.

The total developed conditions flow from this site is 14.55 cfs. The proposed grading and drainage plan for the new development complies with the original Mini Storage Corrales Drainage Plan by spilling flow into 2 basins. According to AHYMO total developed flow generated within the site during the 100-year, 6-hour storm is 10.45 cfs (Basin 1) the change in runoff from the existing is 0.16 cfs which is very negligible. The runoff from this basin enters into the existing pond with the help of storm inlets and the concrete valley gutters as shown in the plan. There is no development in basin 2 and the runoff (4.10 cfs) from this basin is discharged freely into the Calle Cuervo road.

The proposed drainage scheme for the ~~two~~ new storage buildings can be readily accommodated through the implementation of this plan. It has been adequately shown in this report that the internal conveyance of storm water to off-site facilities can be accomplished while meeting all current City requirements.

12" 12"

$\frac{3}{4}"$ 8"

2' VALLEY GUTTER

NTS

A06JOBS\A6076 USA STORAGE\DWG\A6076GD 03-09-07 CA