

Drainage Calculations

ALBUQUERQUE INDIAN CENTER
DPM - Section 22.2
Volume 2, January 1993

Precipitation Zone		3			
100 Year Storm Depth, P (360)		2.6			
Treatment Area		A	B	C	D
Excess Precipitation Factors		0.66	0.92	1.29	2.36
Peak Discharge Factors		1.87	2.60	3.45	5.02
Land Treatment Area		Acres	Existing	Allowable	Proposed
Type "D" (Roof) <i>(PAVEMENT)</i>			0.39	0.26	0.43
Type "C" (Unpaved Roadway)			0.46	0.31	0.42
Type "B" (Irrigated Lawns)			0.10	0.31	0.10
Type "A" (Undeveloped)			0.60	0.67	0.60
Total (Acres)			1.55	1.55	1.55
Excess Precipitation(in)			1.29	1.13	1.32
Volume (100), cf			7266.53	6333.19	7421.90
Volume (10),cf			4868.58	4243.24	4972.67
Q (100), cfs			4.93	4.36	4.99
Q (10), cfs			3.30	2.92	3.34

Legal Description

LOTS 5 THRU 14, UNITY ADDITION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO,

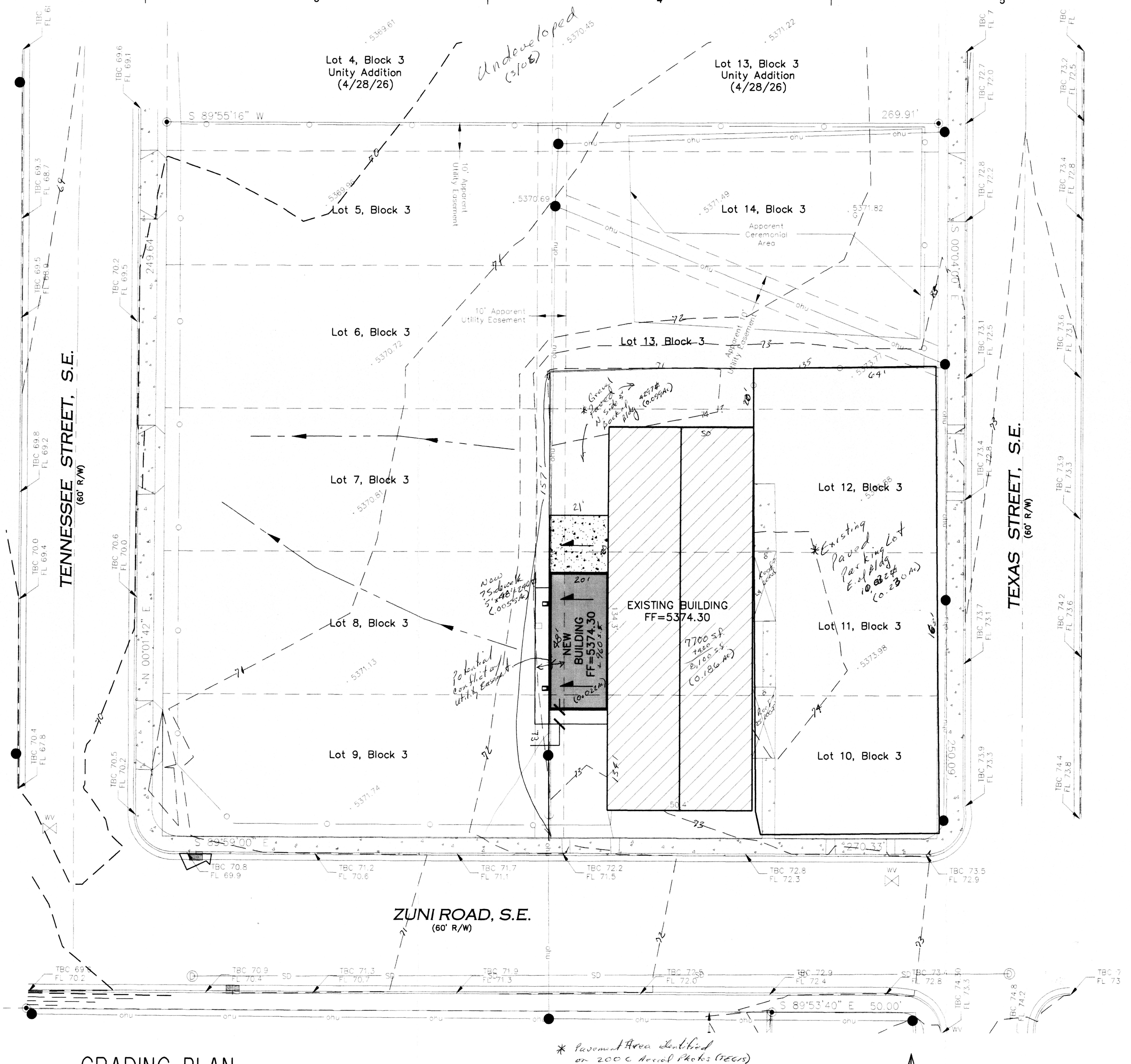
Drainage Narrative

THIS GRADING AND DRAINAGE PLAN DOCUMENTS EXISTING ON-SITE CONDITIONS AND DEVELOPS A PLAN FOR CONSTRUCTION OF AN ADDITION TO THE EXISTING BUILDING. THE SITE LEGAL DESCRIPTION IS LOTS 5 THRU 14, UNITY ADDITION, AND IS LOCATED ON THE NORTHWEST CORNER OF TEXAS STREET S.E. AND ZUNI ROAD S.E. IN THE SOUTHEAST AREA ALBUQUERQUE, NEW MEXICO. IT IS BOUNDED ON THE SOUTH BY ZUNI ROAD S.E., ON THE EAST BY TEXAS STREET S.E., ON THE NORTH BY A RESIDENTIAL PARCEL, AND ON THE WEST BY TENNESSEE STREET S.E.

THE SITE IS CURRENTLY DEVELOPED WITH AN EXISTING OFFICE BUILDING. THE OWNER IS PROPOSING AN ADDITION TO THE OFFICE AS SHOWN. THE SITE IS NOT WITHIN A 100 YEAR FLOOD PLAIN AND DOES NOT ACCEPT OFF-SITE FLOWS. THE SITE CURRENTLY IS ALLOWED FREE DISCHARGE TO TENNESSEE STREET, S.E. AND WITH THE NEW ADDITION, THE CALCULATED FLOWS WILL INCREASE MINIMALLY FROM 4.93 CFS TO 4.99 CFS.

Legend

- EXISTING CONTOUR
- EXISTING FENCE
- SWALE



GRADING PLAN

SCALE: 1" = 20'

General Notes

- A. OWNER OF LOTS 5 THRU 14 AS SHOWN ON THIS PLAN AGREES TO ALLOW THE RUNOFF FOR THE ADDITION TO CROSS LOT LINES TO DRAIN TO TENNESSEE STREET S.E.

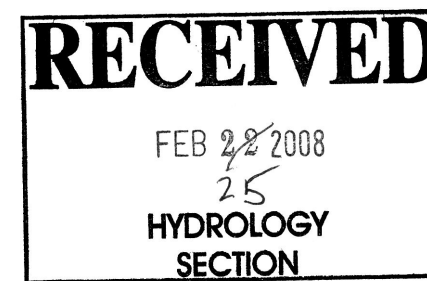
Engineer's Statement

I, THE ENGINEER OF RECORD, CERTIFY THAT I HAVE PERSONALLY VISITED THE SITE AND THE EXISTING GRADES AND CONTOURS DEPICTED ON THE PLAN MATCH WHAT PRESENTLY EXISTS AT THE PRESENT LOCATION.

MARTIN J. GARCIA NMPE #11767

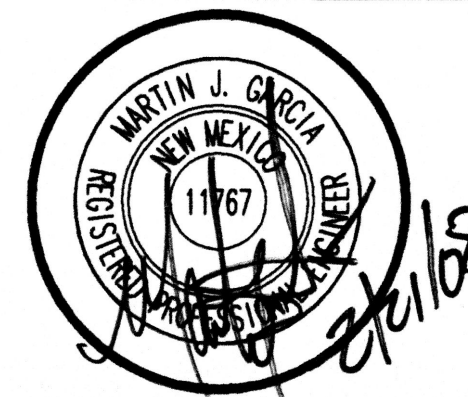
Project Benchmark

PROJECT BENCHMARK:
6-K20R
NORTHING: 1482289.672
EASTING: 1550482.622
ELEV = 5393.35 (NAVD 1988)



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email: dsloanarch@qwest.net

SEAL / CERTIFICATION



ENGINEER / DESIGNER

ABQ
Engineering,
Inc.

Engineers • Planners
Construction Services

6739 Academy Rd. NE, Suite 130
Albuquerque, NM 87109
505-255-7802 FAX 505-255-7902
ABQ Project Number 27050

PROJECT TITLE

Albuquerque Indian Center
Kitchen Addition
Albuquerque, NM

CLIENT NAME

Albuquerque Indian Center

105 Texas St. SE
Albuquerque, New Mexico 87108
T: 505.268.4418
F: 505.268.8955

CD 6/22/07 100% CD SUBMITTALS
MARK MM/DD/YY DESCRIPTION

CONTRACT DATE 04/16/07 MAY 2007
PROJECT NO. 07-032 07-04
CAD DWG FILE:
DRAWN BY:
CHECKED BY:
DATED:

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D. SLOAN ARCHITECTS, P.C.

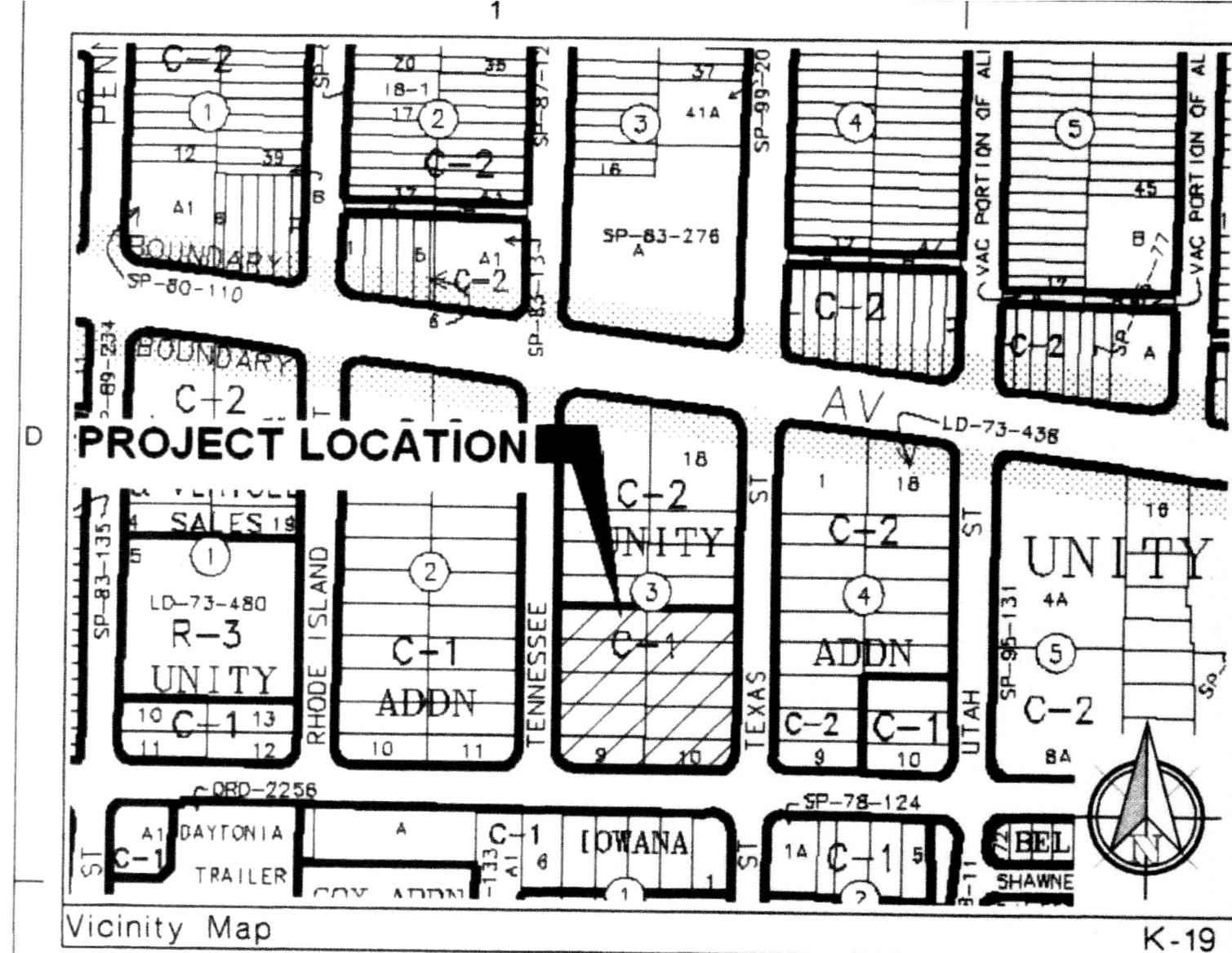
SHEET TITLE

GRADING PLAN

SHEET NO. 5

C-101

SHEET OF



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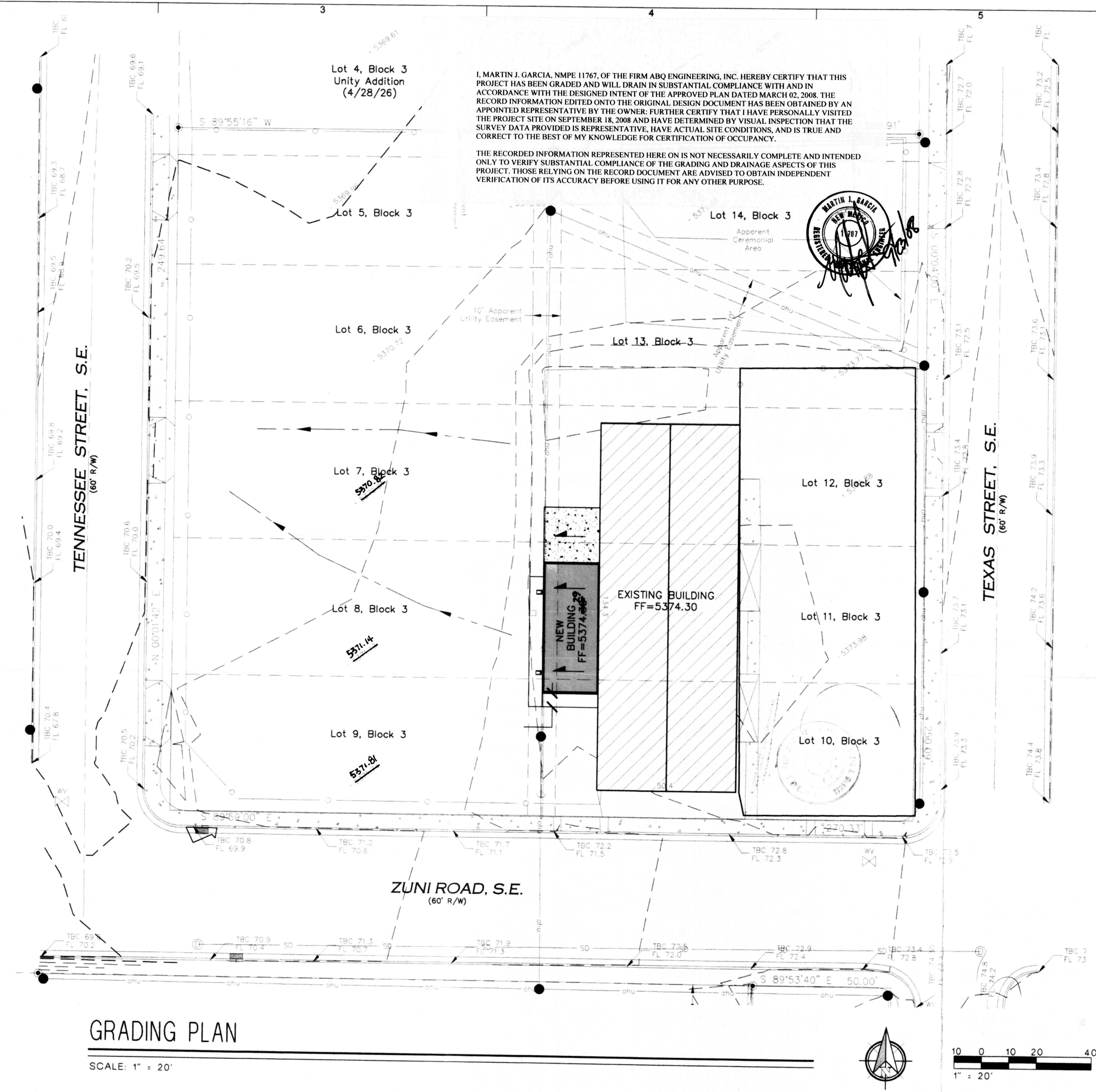
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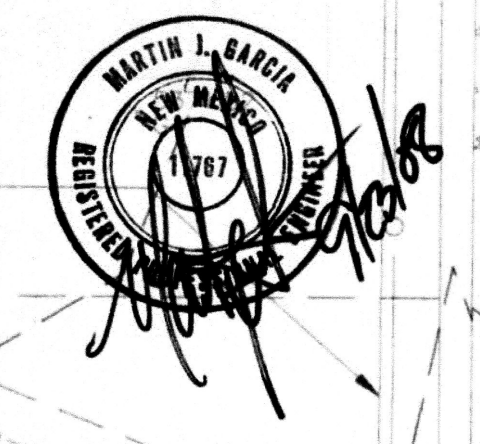
MARTIN J. GARCIA NMPE #11767

Project Benchmark

PROJECT BENCHMARK:
6-K20R
NORTHING: 1482289.672
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ELEV = 5393.35 (NAVD 1988)

I, MARTIN J. GARCIA, NMPE 11767, OF THE FIRM ABQ ENGINEERING, INC. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGNED INTENT OF THE APPROVED PLAN DATED MARCH 02, 2008. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY AN APPOINTED REPRESENTATIVE BY THE OWNER. FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON SEPTEMBER 18, 2008 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE, HAVE ACTUAL SITE CONDITIONS, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE FOR CERTIFICATION OF OCCUPANCY.

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



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