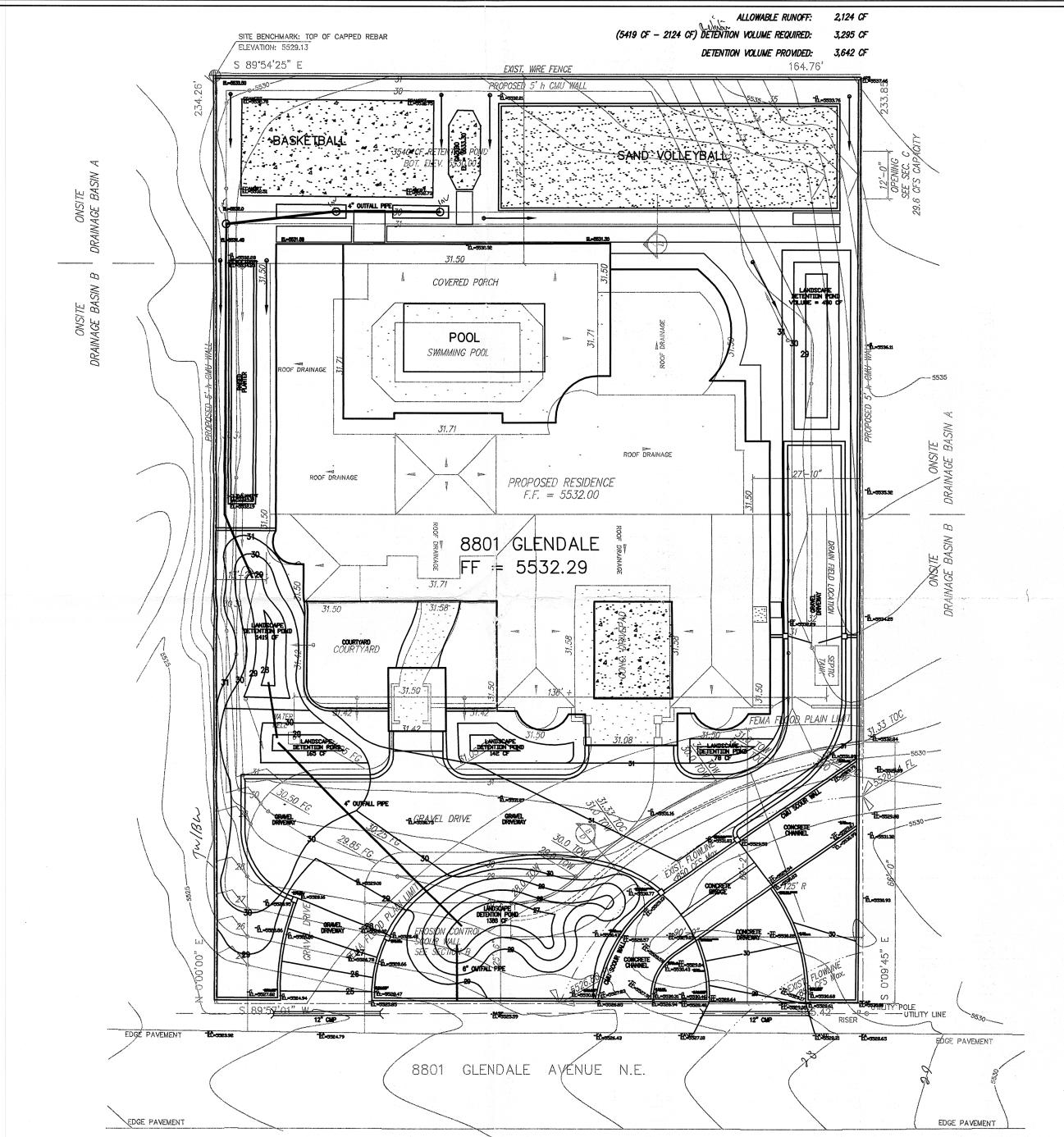
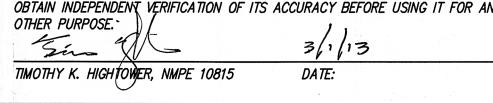


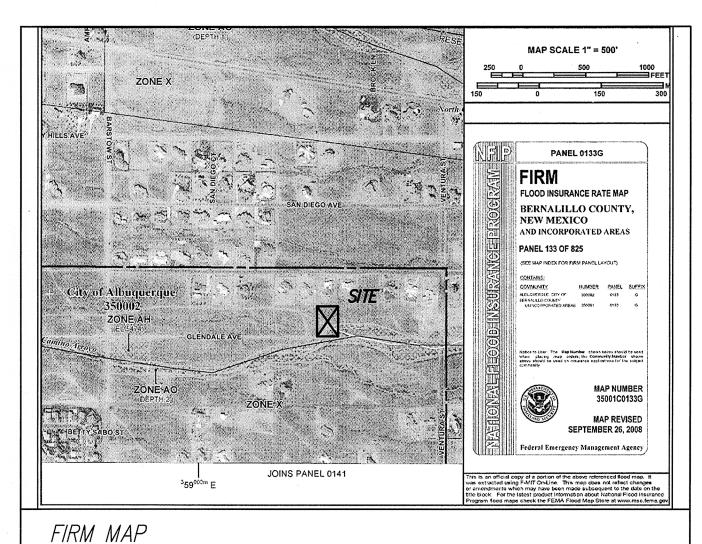
PROPOSED DEVELOPED	ONSITE	BASIN A	0 SF	0 SF	9,038 SF	6,649 SF	15,687 SF	PROPOSED DEVELOPED ONSITE CONDITIONS	ONSITE	BASIN A	1.74	0.99	2,279 CF	1,298 CF	1.48 CFS	0.93 CFS
CONDITIONS		BASIN B	0 SF	500 SF	14,673 SF	7,750 SF	22,923 SF		UNSITE	BASIN B	1.64	0.91	3,140 CF	1,742 CF	2.09 CFS	1.29 CFS
AS-BUILT							38,610 SF	AS-BUILT					5,419 CF			



I TIMOTHY, K. HIGHTOWER, NMPE 10815, OF THE FIRM THAMES ENGINEERING, HEREBY CERTIFY THAT THE PROJECT SHOWN ON THIS PLAN HAS BEEN GRADED AND WILL DRAIN IN SUBSTAINTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED. 03/01/12. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 13240, OF THE FIRM AM SURVEYING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE 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 CERTIFICATE OF OCCUPANCY.

THE 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





- GENERAL NOTES: 1. It is the applicants responsibility to obtain all other appropriate Federal, State, and Local permits.
- 2. Any changes to this drainage plan would have to be approved by the design engineer and the City of Albuquerque
- 3. Sidewalk culverts in the COA ROW are required to be permitted by an SO19 Permit and built per COA Std. Dwg. 2236.
- 4. See Architectural drawings for all dimensions not shown.

PROCEDURE AND HYDRAULIC CALCULATIONS FOR 40 ACRE AND SMALLER CONTRIBUTORY WATERSHEDS.

REFERENCE:

Volume 2, City of Albuquerque Development Process Manual, Section 22.2, Hydrology.

CRITERIA:

Precipitation Zone: 3

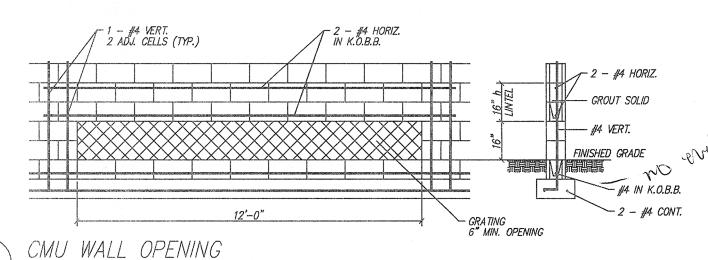
Design Storm: 10 year - 6-hour event; Storm depth = 1.73 inches Design Storm: 100 year - 6 - hour event; Storm depth = 2.60 inches

EXISTING CONDITIONS:

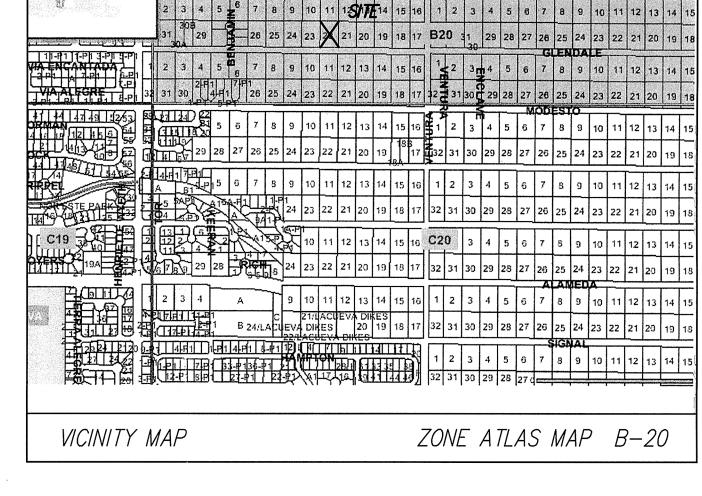
Presently the site is located north of Glendale Ave. and east of Barstow Ave. Currently. the site drains from the north to the south through sheet flow into the unimproved El Camino Arroyo at the south boundry of the property. There is a small offsite basin to the NE that generates approximately 13 CFS that enters the property at the northeast corner and drains into the El Camino arroyo at the southern end of the property. The offsite flow from the El Camino arroyo enters the southern third of the property and flows through the southeast corner of the property through multiple flowlines. The El Camino arroyo generates approximately 660 CFS of undeveloped flow in this area as outlined in the North Albuquerque Acres Master Drainage Plan. The maximum depth of runoff in the El Camino Arroyo is 2' deep. There is a current C.O.A. Drainage file #B20D021.

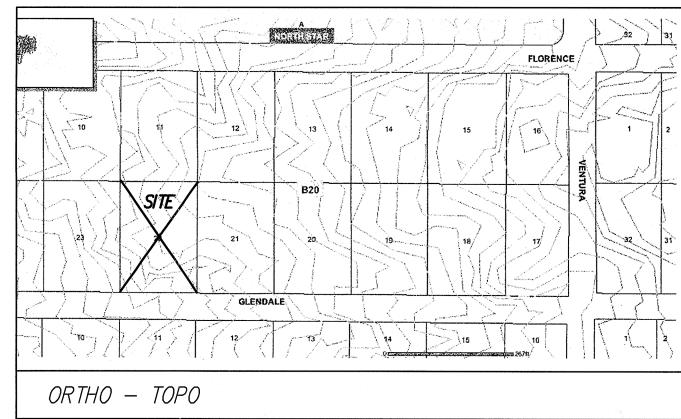
PROPOSED CONDITIONS:

A single family residence and associated improvements are proposed for this site. Finish grading will allow the site to drain into to basins. The northern portion of the lot will drain into Basin A and the southern portion of the lot will drain into the El Camino Arroyo at the south boundry of the property. The finshed floor elevation will be a minimum of 4' above the median arroyo invert. The residence will be placed out of the flood plain boundry as shown on the FIRM map. Erosion mitigation measures, in the form of a concrete scour wall will need to be installed along a portion of the north edge of the flood plain limit to mitigate potential lateral erosion of the gravel drives and front landscaping areas. the El Camino arroyo generates approximately 850 CFS of fully developed flow in this area as outlined in the Master Drainage Plan. Provide retention for additional developed onsite runoff from Basin A.



GRADING & DRAINAGE





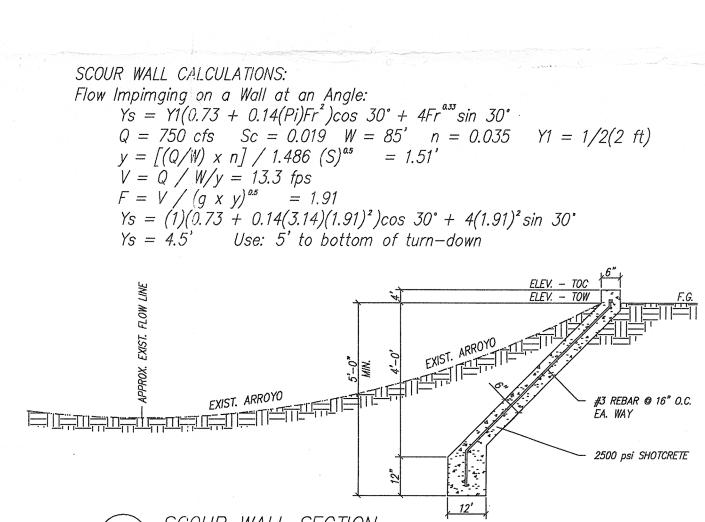
A RESIDENCE LE AVE. NE J. NEW MEXIC V GAR) 8801 ALBU DATE: JULY, 2011 SCALE: 1" = 20' - 0"FILE: 8801 - DRN

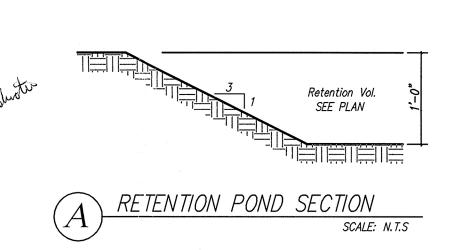
77 22 72 76 7, UWI 70 70. ACRE

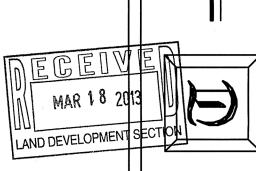
 $\lesssim \lesssim$

MA

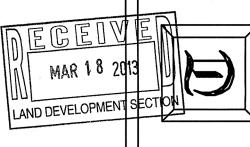
V

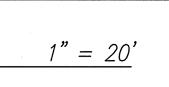












SCALE: N.T.S

LEGAL DESCRIPTION

LOT 22, BLOCK 16, TRACT 1, UNIT 3, NORTH ALBUQUERQUE ACRES

_PROPERTY ADDRESS

8801 GLENDALE AVE. NE; ALBUQUERQUE, NM 87122

UPC NO: 102 006 517 406 930 211

LEGEND

EXISTING ELEVATION NEW CONTOUR

SPOT ELEVATION FLOWLINE DRAINAGE SWALE

PROPERTY LINE

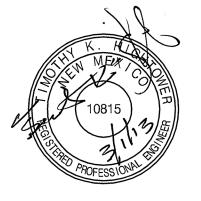
BENCH MARK:

C.O.A. MONUMENT: 7-B20 5566.66 ELEVATION:

TEMPORARY SITE BENCH MARK:

TOP OF CAPPED REBAR, NW PROPERTY CORNER ELEVATION: 5529.13

, TIM HIGHTOWER, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, HAVE FOUND THE LOT REFERED TO IN THIS DRAINAGE PLAN TO BE IN AN IMPROVED STATE. REGRADING OF THIS LOT WILL BE NECESSARY TO ACCOMODATE THE PROPOSED IMPROVEMENTS AND TO DIRECT ALL ONSITE AND OFFSITE RUNOFF TO THE EXISTING FLOOD PLAIN FLOWLINE AND TO THE PAVED CITY STREET.



SCALE: N.T.S

