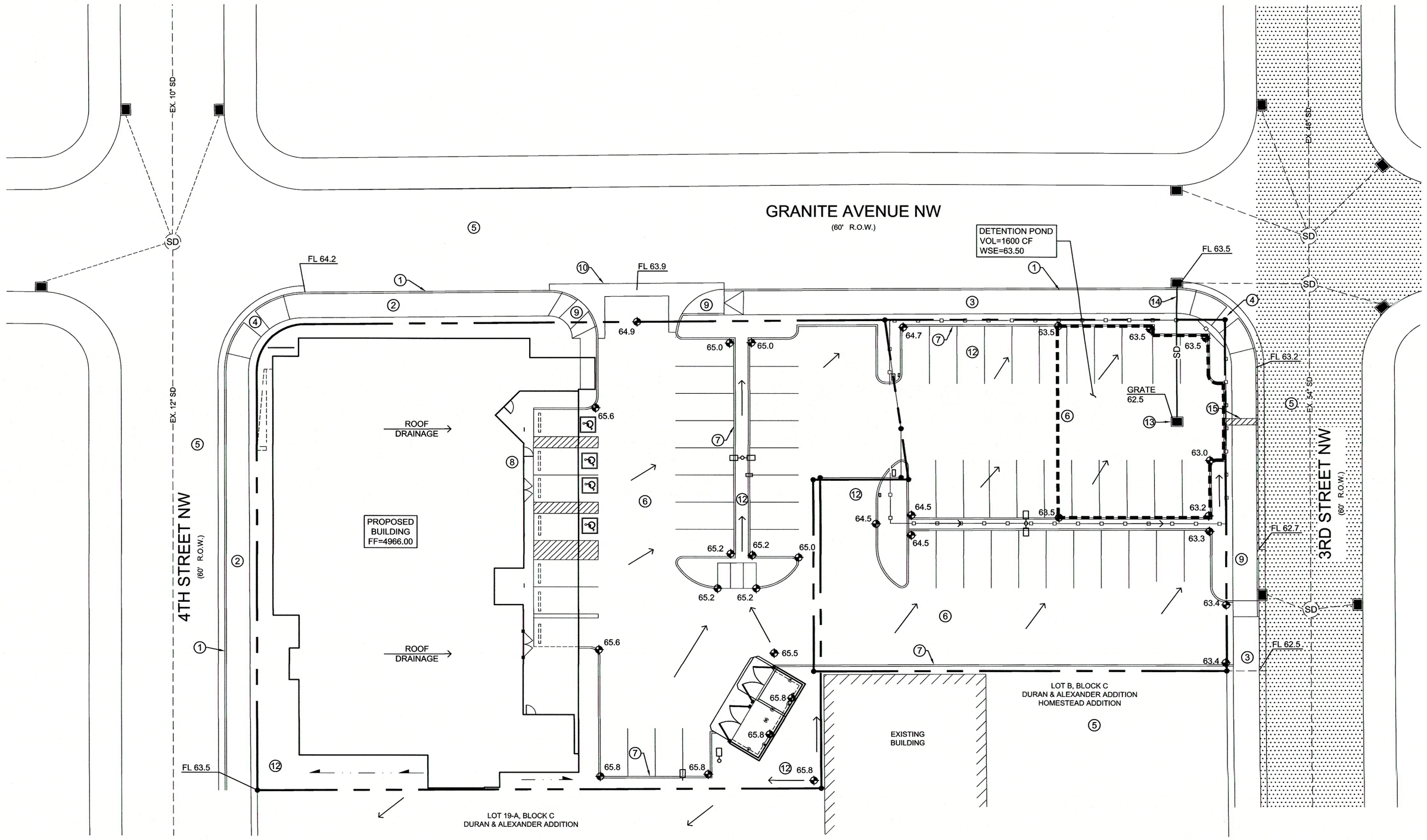


N

20 0 10 20

1 INCH = 20 FT.

PROJECT HYDROLOGY								
AHYMO								
ZONE:	2	Anthea						
P_{6HOUR}	2.35							
$P_{10\ DAY}$	3.95							
90th PSE	0.44							
EXISTING CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	0.86	0.00	0.00	0.86	0.00	1.13	2.70	0.081
PROPOSED CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	0.86	0.00	0.07	0.07	0.72	1.93	3.76	0.138

KEYED NOTES

1. EXISTING CONCRETE STANDARD CURB AND GUTTER.
2. EXISTING PUBLIC SIDEWALK.
3. EXISTING DRIVEPAD.
4. EXISTING HANDICAP RAMP.
5. EXISTING ASPHALT PAVEMENT.
6. NEW ASPHALT PAVEMENT.
7. NEW 6" CONCRETE CURB.
8. NEW CONCRETE SIDEWALK. SEE SITE PLAN.
9. NEW HANDICAP RAMP.
10. NEW CONCRETE VALLEY GUTTER DRIVEWAY.
11. NEW REFUSE ENCLOSURE. SEE SITE PLAN.
12. NEW LANDSCAPING.
13. NEW TYPE 'D' INLET PER COA STD DWG 2206.
14. NEW 8 INCH STORM DRAIN CONNECT TO EXISTING INLET PER COA STD DWG 2237.
15. NEW 24 INCH SIDEWALK CULVERT PER COA STD DWG 2236 TO FUNCTION AS OVERFLOW SPILLWAY.

PROJECT DATA

PROPERTY ADDRESS:

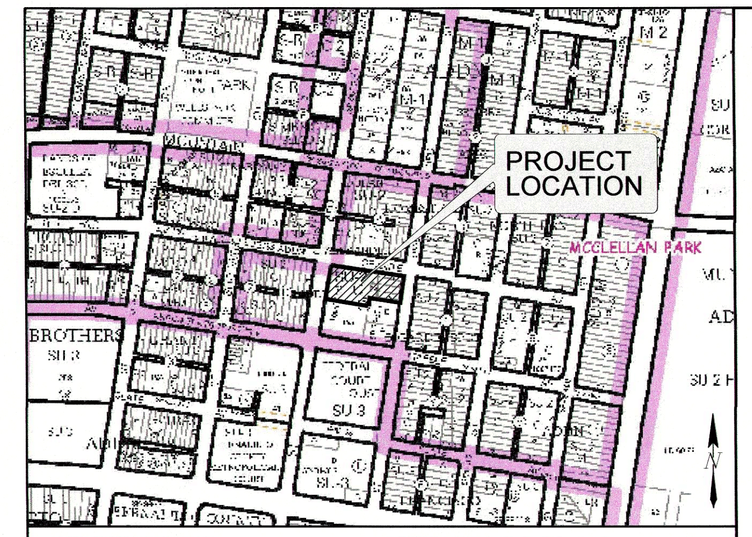
330 GRANITE NW
ALBUQUERQUE, NM 87103

LEGAL DESCRIPTION:

LOT 5A, BLOCK C, DURAN & ALEXANDER ADDITION
LOTS 1 & 2, BLOCK C, HOMESTEAD GARDEN ADDITION

LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
HEADER CURB		
CURB ELEVATIONS	TOP CONC. ELEV FLOWLINE ELEV	TOP CONC. ELEV FLOWLINE ELEV
SPOT ELEV.		16.7
RIGHT OF WAY		
EASEMENT		
CENTERLINE		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
JERSEY BARRIER		
FLOWLINE ELEV	EX FL 16.2	FL 16.2
FUTURE CURB AND GUTTER (N.I.C.)		
NEW PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
100 YEAR FLOOD HAZARD ZONE		



VICINITY MAP ZONE ATLAS J-14-Z

FIRM PANEL 35001C0332G & 35001C0334G

CONCEPTUAL GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Conceptual Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of an 8,077 square foot building with paving, landscaping, utility, grading, and drainage improvements to support the project. The purpose of this Plan is to support Site Plan Approval. The scope of this plan is to present conceptual grading and drainage criteria for the safe management of excess runoff impacting the site from upstream drainage basins, and controlling excess runoff from the project site in a well-managed, non-erosive manner. A Final Grading and Drainage Plan will be prepared to support Building Permit application.

EXISTING CONDITIONS

The property is located at 330 Granite Avenue NW, between Third and Fourth Streets NW. The site is presently utilized as a parking lot. Existing site improvements consist of gravel surfacing. No buildings or permanent structures exist on the property. The site is extremely flat, with very little positive drainage in any direction. Excess runoff generally flows to the perimeter streets. Public storm drains exist in Third and Fourth Streets. The site is surrounded on three sides by public roadways. A paved parking lot and commercial development are located adjacent to the property on the south. No significant off-site flows impact the site.

As shown by the attached FIRM Panel, the site does not lie within a mapped 100 year Flood Zone. Portions of Third Street adjacent to the site are mapped as a Zone AO depth 1' Floodzone.

PROPOSED IMPROVEMENTS

As stated above, the project consists of the construction of an 8,077 square foot building with paving, landscaping, utility, grading, and drainage improvements. All developed runoff will be routed through landscaping to capture the first flush before release into the perimeter streets. All excess runoff will be collected by the existing public storm drain system located in Third and Fourth Streets.

Due to limited capacity of the existing public storm drainage system the City Hydrology Department has established a 2.75 cfs per acre maximum discharge rate for this site. Therefore, the site will implement detention ponding to limit developed discharge to 2.36 cfs for the project. This will be accomplished by utilizing a Type 'D' inlet in the parking lot near the northeast corner of the site. The inlet will drain to an existing public inlet located in Granite Avenue. An 8-inch drainline will be connected to the existing public inlet, restricting discharge to 2.36 cfs. The northeast corner of the proposed parking lot will serve as a detention pond for during heavy rains. A sidewalk culvert will be provided as an spillway should the pond overflow.

Construction will disturb an area of less than 1.0 acres, therefore a Storm Water Pollution Prevention Plan should not be required.

CALCULATIONS

The calculations shown hereon define the 100-year/6 hour design storm falling within the project area under existing and proposed conditions. The hydrology is per "Section 22.2, Part A, Development Process Manual, Vol 2", dated June 1997.

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Ph: 505-888-6508 Fax: 505-242-6855

ANTHEA 4TH AND GRANITE
CONCEPTUAL GRADING & DRAINAGE PLAN
ALBUQUERQUE, NM
PROJECT #14-009

REVISION DATE

GEORGE A. LORENZ
NEW MEXICO
REGISTERED
CIVIL ENGINEER
9768

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DATE
06/02/2014

SHEET NUMBER
C-2.0