CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



Richard J. Berry, Mayor

February 17, 2017

Jeffrey T. Wooten Wooten Engineering 1368 Reynosa Loop SE Rio Rancho, NM, 87124

RE: North Towne Plaza

Drainage and Grading Plan

Engineer's Stamp Date 12-9-2016 (File: E19D033)

Dear Mr. Wooten:

Based upon the information provided in your submittal received 12-12-2016, and additional information received 12/14/2016, and coordination at DRB Hearings, the above referenced plan is approved for Site Plan for Building Permit. Although the information was submitted for SPBP, the above-referenced Grading and Drainage Plan is acceptable for Building Permit approval.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

If you have any questions, you can contact me at 924-3986.

Sincerely,

New Mexico 87103

Abiel Carrillo, P.E.

www.cabq.gov

Principal Engineer, Planning Dept. Development Review Services

Orig: Drainage file



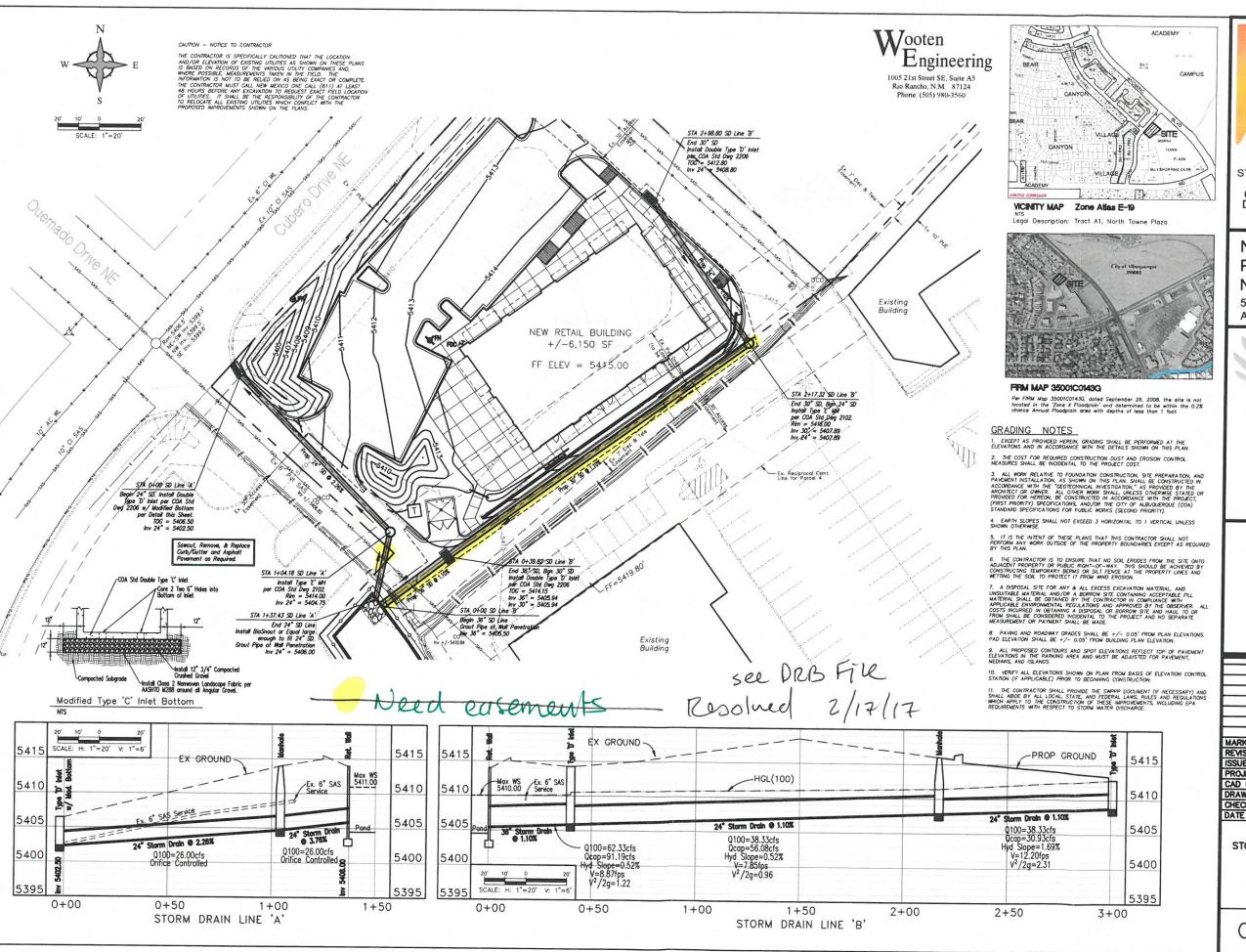
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

	Permit #: City Drainage #: E19D
DRB#: EPC#:	Work Order#:
Legal Description: Tract A-1, Block 1, Belmont Place	
City Address: 5901 Wyoming NE	
Engineering Firm: Wooten Engineering	Contact: Jeffrey T. Wooten, P.E.
Address: 1005 21st Street SE, Suite A5, Rio Rancho, NM 87124	Contact. Comey 1. Wooten, F.E.
Phone#: 505-980-3560 Fax#: N/A	E-mail: jeffwooten.pe@gmail.com
Owner:	
Address:	Contact:
Phone#: Fax#:	E-mail:
Architect: ARIA Studio Consultants	
Address: 21 Brokerage St, Edgewood, NM 87015	Contact: Daniel Puzak
Phone#: 505-506-2314 Fax#: N/A	E-mail: daniel@ariascinc.com
Other Contact:	
Address:	
Phone#: Fax#:	F 3
	E-mail:
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STUDIO CONSULTANTS, INC PO BOX 1515 CEDAR CREST, NM 87008 DANIEL@ARIASCINC.COM (505) 506-2314

NORTH TOWNE PLAZA TRACT A-1, NEW BUILDING

5901 WYOMING, NE ALBUQUERQUE, NM 87109



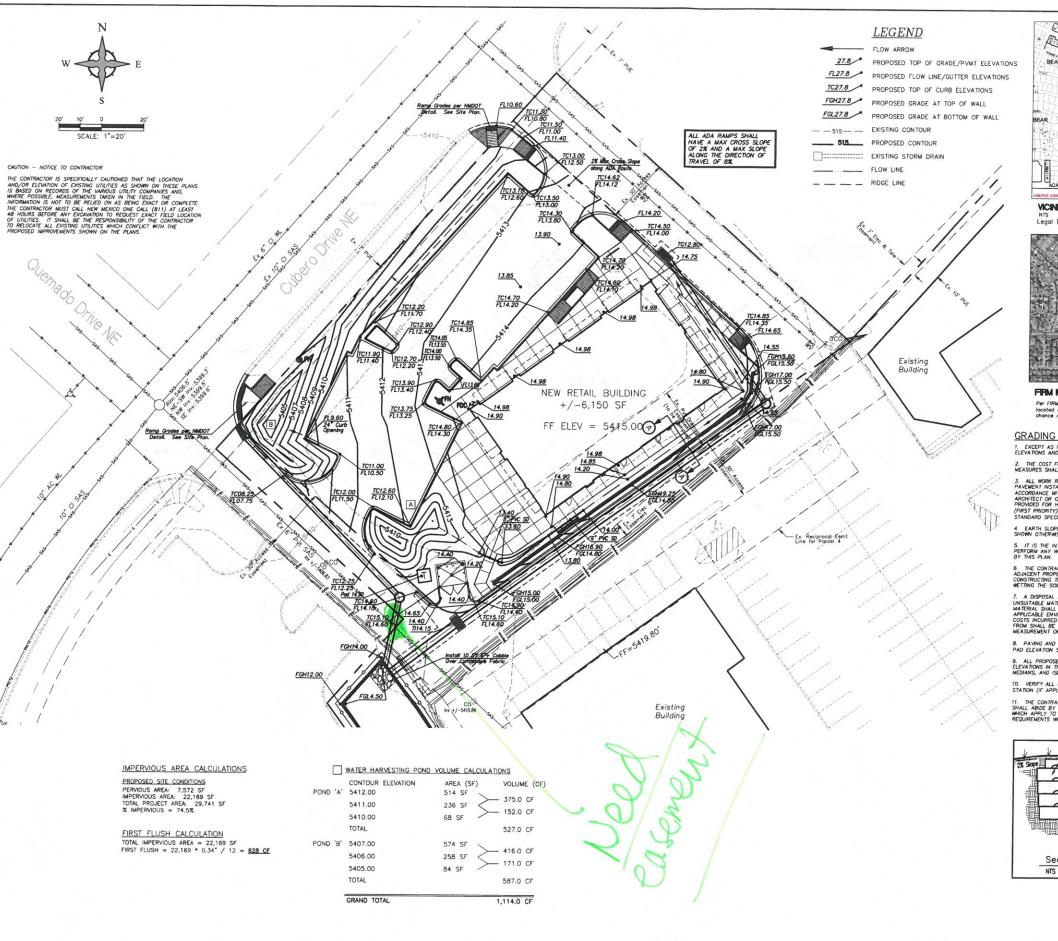


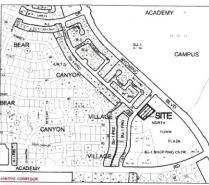
Architect/Engineer

No.		
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MARK	DATE	DESCRIPTION
REVISIO	NS	
SSUE		DRB
ROJEC		2014026
CAD DW	G FILE	
DRAWN		JTW
CHECKE	D BY	JTW
DATE		07/22/2016

STORM DRAIN PLAN

C203





VICINITY MAP Zone Atlas E-19

Legal Description: Tract A1, North Towne Plaza



FIRM MAP 35001C0143G

Per FIRM Map 35001C0143C, dated September 26, 2008, the site is not located in the "Zone X Floodplain" and determined to be within the 0.2% chance Annual Floodplain area with depths of less than 1 foot.

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

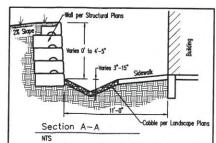
3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "COTECNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL UNLESS OTHERMISS STATED OR PROVIDED FOR PROVIDED SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RICHT-OF-WAY. THIS SHOULD BE ACHEVED BY CONSTRUCTING TEMPORARY BERNS OR SLIT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM MIND EROSION.

T. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS.
 PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.



Wooten Engineering

1005 21st Street SE, Suite A5 Rio Rancho, N.M. 87124 Phone: (505) 980-3560



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NORTH TOWNE PLAZA TRACT A-1. **NEW BUILDING**

5901 WYOMING, NE ALBUQUERQUE, NM 87109

WEINGARTEN REALTY

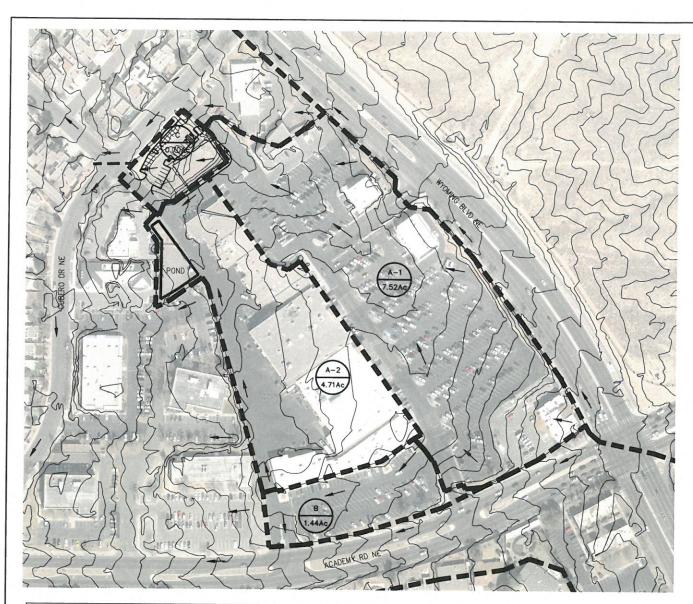


Architect/Engineer

	Charles Committee	
MARK	DATE	DESCRIPTION
REVISIO	NS	
ISSUE		DRB
PROJEC	T NO	2014026
CAD DY	WG FILE	
DRAWN	BY	JTW
CHECKE	D BY	JTW
DATE		07/22/2016

SITE GRADING PLAN

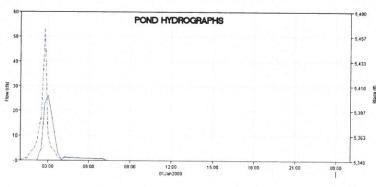
C201



			Existing No	orth To	wne Pla	za Dra	inage C	alculati	ons			
	This	table is based	on the COA DPI	M Section	22.2, Zone:	4	1		Т			
BASIN	Area	Area	Land	Treatmen	t Percentage	15	Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100)1440	V(100)-00-
	(5Q, FT)	(AC.)	A	В	C	D	(ch/ac.)	(CFS)	(Inches)	(CF)	(OF)	(CF)
A-t	327533	7.52	100.0%	0.0%	0.0%	0.0%	2.20	16.54	0.80	21836	21836	21836
A-2	205084	4.71	100.0%	0.0%	0.0%	0.0%	2.20	10.36	0.80	13672	13672	13672
В	62879	1.44	100.0%	0.0%	0.0%	0.0%	2.20	3.18	0.80	4192	4192	4192
С	30535	0.70	100.0%	0.0%	100.0%	0.0%	5.93	4.16	2.26	5751	5751	5751
TOTAL	626031	14.37						34.23		45450	45450	45450

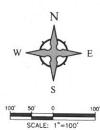
	7	table is based o		Developm	ent Conditi	ons Basin i			3			
BASIN	Area	Area		nd Treatmen			Q(100)	Q(100)	WTE	V(100) _{MC}	V(100)-440	V(100) ₁₆
	(SO. FT)	(AC.)	A	B	C	0	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
A-1	327533	7.52	0.0%	0.0%	10.0%	90.0%	5.10	38.33	2.52	68837	78663	108140
A-2	205084	4.71	0.0%	0.0%	10.0%	90.0%	5.10	24.00	2.52	43102	49254	67712
В	62879	1.44	0.0%	0.0%	10.0%	90.0%	5.10	7.36	2.52	13215	15101	20761
С	30535	0.70	0.0%	0.0%	10.0%	90.0%	5.10	3,57	2.52	6417	7333	10082
TOTAL	626031	14.37						73.27		121574	150252	20000

NOTE: DETENTION POND REDUCES MAXIMUM DISCHARGE FROM BASINS 4-1 AND 4-2 YO 28 2 CES



POND TIME-STEP RESULTS

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
013an2000	01:00	0.0	0.0	5404.5	0.0
01Jan2000	01:15	0.8	0.0	5404.5	0.0
01Jan2000	01:30	0.9	0.0	5404.6	0.0
01Jan2000	01:45	3.3	0.1	5404.9	0.0
01Jan2000	02:00	4.2	0.1	5405.3	0.0
01Jan2000	02:15	8.1	0.3	5406.0	0.0
013an2000	02:30	17.4	0.5	5407.1	4.6
01Jan2000	02:45	53.1	0.9	5409.3	22.7
01Jan2000	03:00	10.2	1.1	5410.0	26.0
01Jan2000	03:15	4.9	0.8	5408.5	18.7
01Jan2000	03:30	3.7	0.6	5407.5	10.5
01Jan2000	03:45	1.0	0.5	5407.0	2.9
01Jan 2000	04:00	0.8	0.5	5407.0	0.0
01Jan2000	04:15	1.2	0.5	5407.0	1.5
01Jan2000	04:30	1.1	0.5	5407.0	1.0
01Jan2000	04:45	1.1	0.5	5407.0	1.2
01Jan2000	05:00	1.0	0.5	5407.0	0.9
01Jan 2000	05:15	0.9	0.5	5407.0	1.0
013an2000	05:30	0.9	0.5	5407.0	0.9
01Jan2000	05:45	0.9	0.5	5407.0	0.9
01Jan2000	06:00	0.8	0.5	5407.0	0.8
01Jan 2000	06:15	0.3	0.5	5407.0	0.8
01Jan2000	06:30	0.3	0.5	5407.0	0.7
01Jan2000	06:45	0.7	0.5	5407.0	0.7
01Jan2000	07:00	0.7	0.5	5407.0	0.7
01Jan2000	07:15	0.0	0.5	5407.0	0.0
01Jan2000	07:30	0.0	0.5	5407.0	0.0
01Jan2000	07:45	0.0	0.5	5407.0	0.0
01Jan 2000	08:00	0.0	0.5	5407.0	0.0
01Jan2000	09:15	0.0	0.5	5407.0	0.0
01Jan2000	08:30	0.0	0.5	5407.0	0.0
013an2000	08:45	0.0	0.5	5407.0	0.0



CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OP ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE MARBOLS HAVE FROM THE PROPERTY OF THE MARBOLS HAVE FROM THE PROPERTY OF THE MARBOLS HAVE FROM THE PLANS IS NOT TO BE RELED ON A SECRET OF COMPLETE. THE CONTRACTOR MISST CALL HEN MERICO DIE CALL (BIT) AT LEAST HE HOURS BEFORE AND EXCHANTION TO RECOVER EACH FROM THE PLANS.

DRAINAGE MANAGEMENT PLAN

INTRODUCTION

INTRODUCTION
The purpose of this submittal is to provide a final drainage management plan for the Redevelopment within the North Towne Plaza Shapping Center located at the northwest corner of Wyoming and Academy in Albuquerque, NM. In particular, the existing detention pand is to be relocated from it's existing location on Tract A-1 to the new location as shown on the attached plans on Tract A-4. The entire shopping center site contains approximately 14.37 norms.

EXISTING HYDROLOGIC CONDITIONS

An existing drainage study prepared by Fred Burns, P.E. of Boyle Engineering in March 1977 was found in the Plaza Del Sol bosement files. This drainage study was prepared using different methodology than that required of the current DPM. We also determined in review of this study that the existing detention pond was built to a much lesser capacity than that which designed. The Drainage Study required the pond to be 2.888 acre-ft in volume with a maximum discharge rote of 9.6065. However, our colculations from the recent topographic survey shows the actual pand volume to be ±0.75 acre-ft. In addition, the pond outlet was initially designed to be a single 12" storm drain and field investigation shows the outle to consist of two 12" storm drains. Due to the discrepancies and differences in methodology, we have decided to deler back to the original undeveloped conditions for the site and analyze the pre-developed conditions accordingly. Per the Colculations toble this sheet, the total existing flow leaving the site is 34.23 of adving the 100-Yr, 6-Hr Storm Event.

PROPOSED HYDROLOGIC CONDITIONS

PROPOSED HYDROLOGIC CONDITIONS
The proposed drainage patterns generally remain the same as they are today. Basin B remains unchanged and will continue to drain to Academy Rd. Basin C is currently undeveloped but will be developed as a retail building per the attached plans. This basin will drain directly to Cubero Dr without being rerouted to the new pond due to grade constraints. As part of the proposed development on Tract A-1, we will be installing new stormwater quality pands which will assist in minimizing the peck flows into Cubero Dr. Basins A-1 and A-2 generally remain unchanged, however, the basins will be re-routed into the new pand via new 24*, 30°, and 36° storm drains per Sheet C203. Per the Calculations Table this sheet (AHYMO), Basins A-1 and A-2 contribute 62.33 cfs to the new pond, the actual peak flow into the pand is 53.10 cfs per the '100-'ear Pond Routing Summary' this sheet. The slight reduction in flows is due to a different distribution used to calculate the peak. Per these same calculations, the peak flow released through the outlet of the pand has been calculated to be 26.0 cfs which is a 36.3 cfs decrease in peak flows in these two basins. The pre-developed conditions from these two basins is 26.9 cfs and therefore the peak flows from these basins are being reduced by 0.90 cfs.

FIRST FLUSH CALCULATIONS

Per the First Flush Calculations on Sheet C201, the total First Flush Volume required to be collected for Tract A-1 is 628 CF. Per the Water Harvesting Pond Calculations toble on the same sheet, we are actually providing 1,114 CF of volume within the ponds1.77 times that which is required.

CONCLUSION
his drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm, do not burden downstream systems, and meet city requirements. In addition, the proposed water harvesting pands will help treat stormwater runoff per the DPM. The proposed improvements to the site should not have any negative impacts to facilities downstream. With this submittal, we are requesting Drainage Management Plan and Building Permit approval.



VICINITY MAP Zone Atlas E-19

Legal Description: Tract A1, North Towne Plaza



FIRM MAP 35001C0143G

Per FIRM Map 35001C0143G, dated September 26, 2008, the site is not located in the 'Zone X Floodplain' and determined to be within the 0.2% chance Annual Floodplain area with depths of less than 1 foot.

100 YEAR POND ROUTING SUMMARY

HEC-HMS used for Pond Analysis No Infiltration assumed in Calculations

INITIAL CONDITIONS

Starting WS Elev = 5404.50 ft Starting Volume = 0.00 ac-ft Starting Outflow = 0.00 cfs

	MA	XIMUM S	TORAG	E	
Tp,	min	Elev,	ft	Vol,	ac-ft
120	.00	5410	. 0		1.10

ACTUAL TOP OF POND ELEVATION = 5411.0 FREEBOARD PROVIDED = 1.0'

FORWARD FLOW PEAKS Tp, min Qp, cfs Pond Inflow.... 105.00 Pond Outflow.... 120.00 53.10 26.00

Pond Volume Calculations

Elevation (ft)	Area (sq.ft)	Volume (cu-ft)	Volume Sum (cu-ft)
5404.5	7,818	0	0
5405.0	8,022	3,960	3,960
5406.0	8,324	8,173	12,133
5407.0	8,624	8,474	20,607
5408.0	8,920	8,722	29,329
5409.0	9,206	9,063	38,392
5410.0	9,470	9,338	47,730
5411.0	9,684	9,577	57,307
			(1.32 acre-ft)

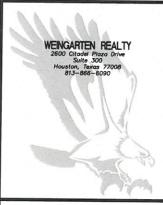


PO BOX 1515 CEDAR CREST, NM 87008 DANIEL@ARIASCINC.COM

(505) 506-2314

NORTH TOWNE PLAZA TRACT A-1, **NEW BUILDING**

5901 WYOMING, NE ALBUQUERQUE, NM 87109





Architect/Engineer

14694	24=			
MARK		DESCRIPTION		
REVISIO	NS			
ISSUE		DRB		
PROJEC	T NO	2014026		
CAD DY	WG FILE			
DRAWN BY		JTW		
CHECKE	D BY	JTW		
DATE		12/9/2016		

DRAINAGE MANAGEMENT PLAN

C104

Wooten Engineering 1005 21st Street SE, Suite A5 Rio Rancho, N.M. 87124 Phone: (505) 980-3560