



VICINITY MAP Zone Atlas G-14

17. The State District of the State of the Control of the State of the

Legal Description: Tract 1—A, Block 1, Belmont Place



FIRM MAP 35001C0119G

Per FIRM Map 35001C0119G, 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.

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

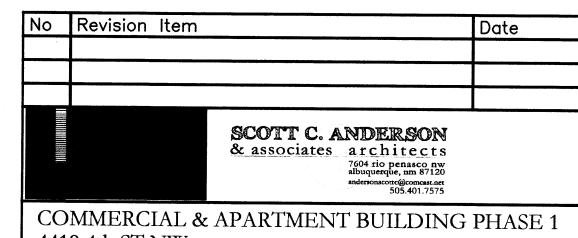
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 UPDATE NO. 8.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NM ONE CALL FOR LOCATION OF EXISTING UTILITIES. (NM ONE CALL = '811')

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE. 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

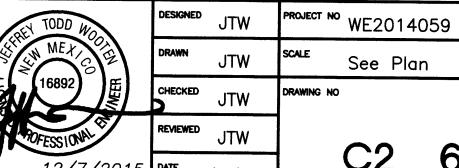
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

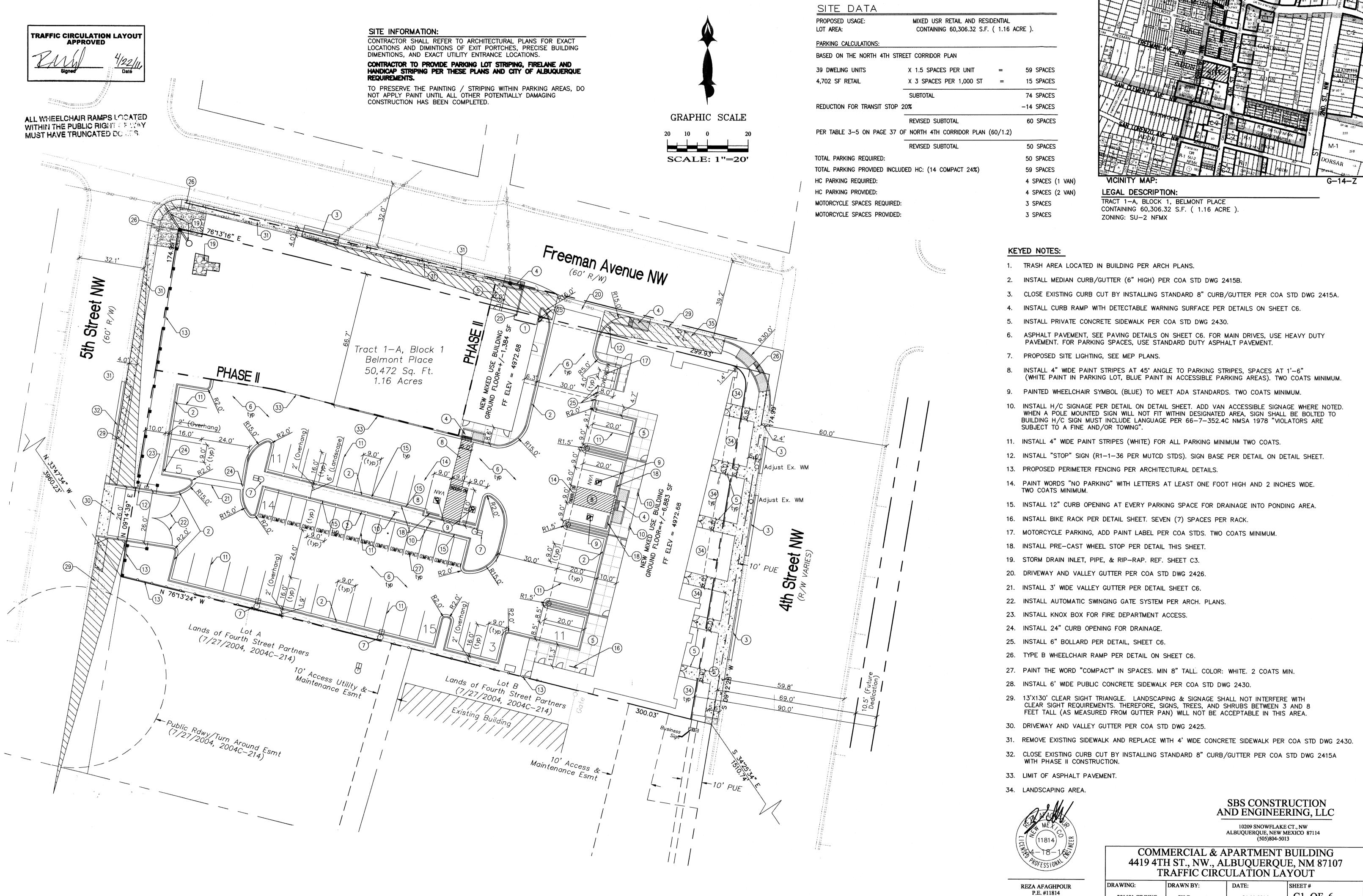


ALBUQUERQUE, NM 87107

Grading Plan

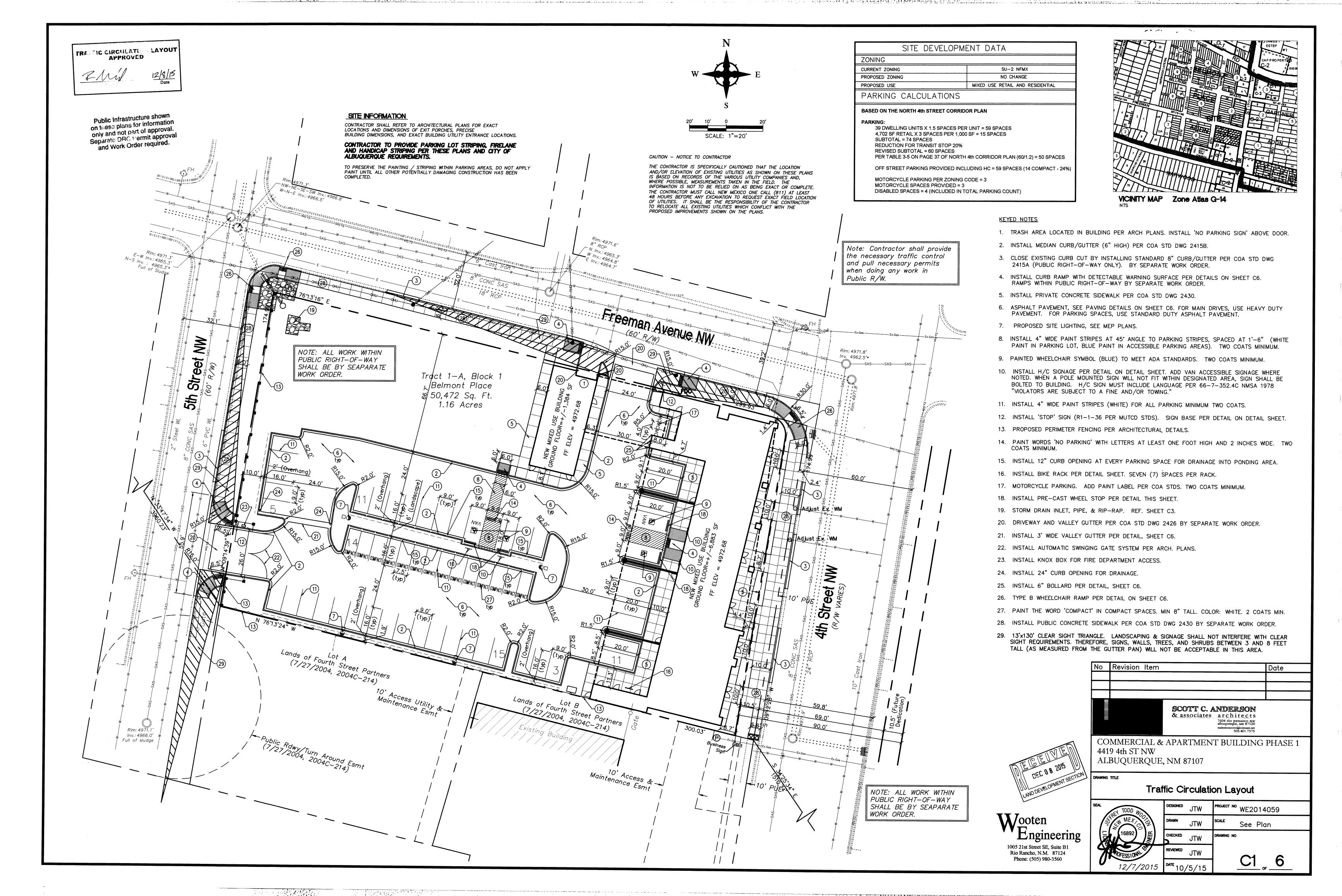
See Plan

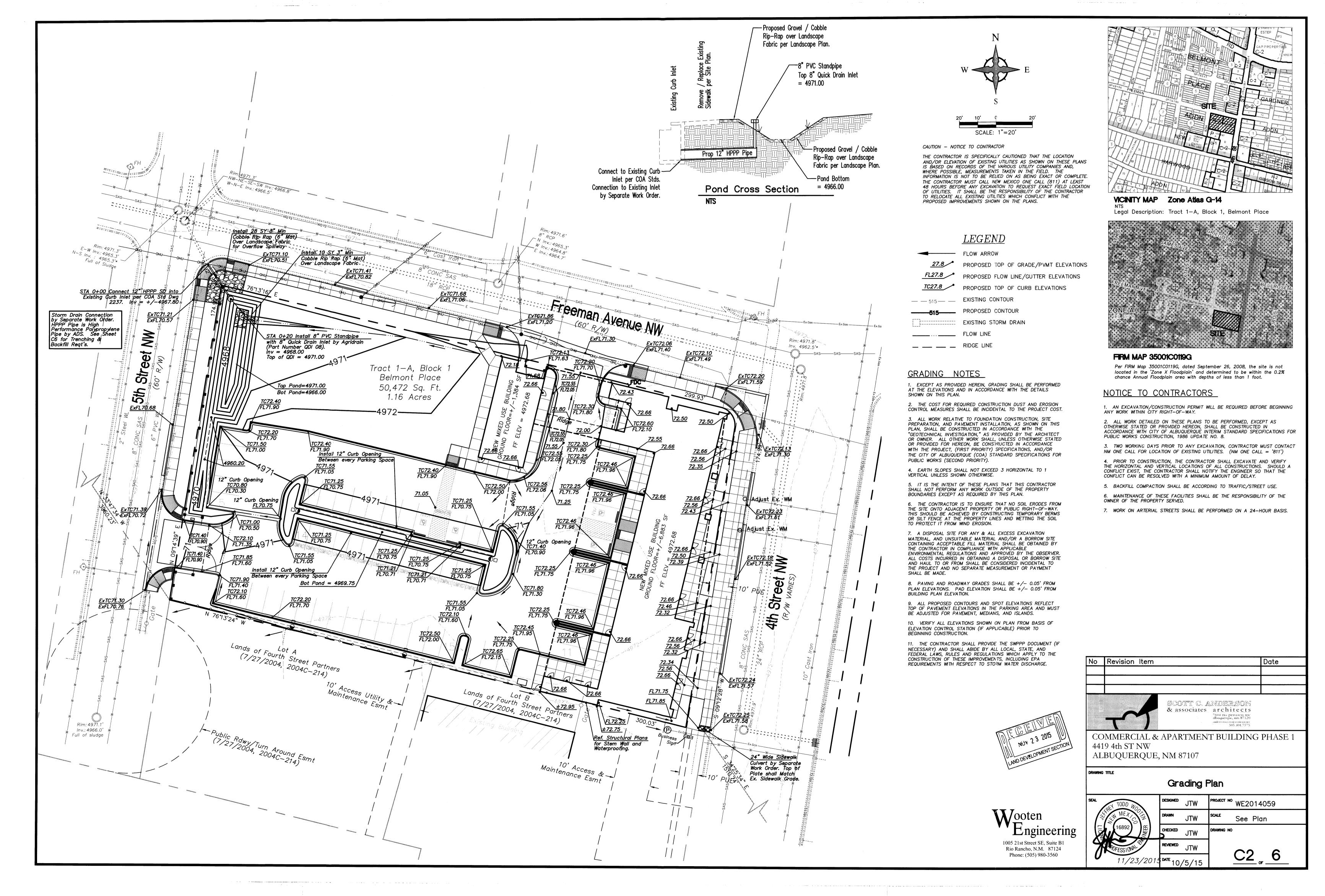


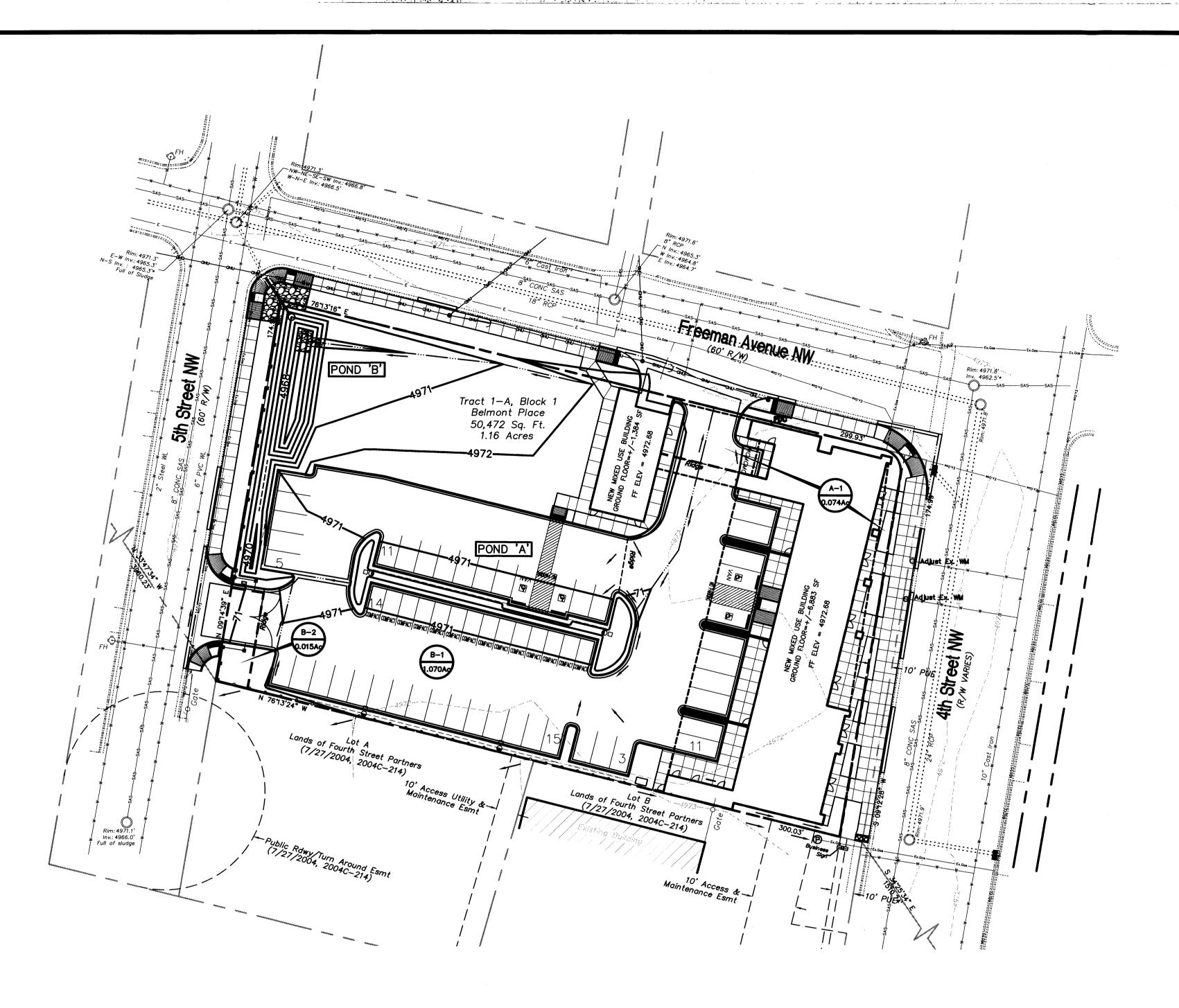


LAST REVISION: 04-18-16

C1 OF 6 SH-B 201601-ST.DWG 04-11-2016







IMPERVIOUS AREA CALCULATIONS

PROPOSED SITE CONDITIONS PERVIOUS AREA: 7,000 SF IMPERVIOUS AREA: 43,472 SF TOTAL SITE AREA: 50,472 SF % IMPERVIOUS = 86.13%

GRAND TOTAL

FIRST FLUSH CALCULATION TOTAL IMPERVIOUS AREA = 43,472 SF FIRST FLUSH = 43,472 * 0.34" / 12 = 1.232 CF

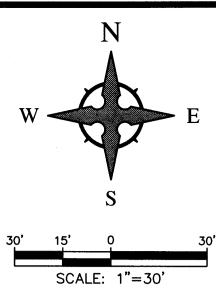
MATER HARVESTIME ROME VOLUME CALCULATIONS

	WATER HARVESTING POND	VOLUME CALCULATI	<u>ONS</u>
POND 'A'	CONTOUR ELEVATION	AREA (SF)	VOLUME (CF)
POND A	-	1,362 SF	- 340.50 CF
	4969.75	0 SF /	
	TOTAL		340.5 CF
POND 'B'	4970.50	1,864 SF <	242.05
	4970.00	1,504 SF	- 842 CF
	4969.00	1,202 SF	- 1,202 CF
	4968.00	614 SF	- 757 CF
	4067.00	<u> </u>	485 CF
	4967.00	356 SF <	244 CF
	4966.00	132 SF	244 01
	TOTAL		3,530 CF
_			

3,870.50 CF

0.00.00.000.000												
			Pre-	Develo	ped Dra	inage (Calculat	tions	3			*
	This	table is based o	on the COA DP	M Section	22.2, Zone:	2						
BASIN	Area	Area			t Percentage		Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100)+0+-
	(SQ. FT)	(AC.)	A	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Existing Site	50472	1.159	0.0%	0.0%	100.0%	0.0%	3.14	3.64	1.13	4753	4753	4753
TOTAL	50472	1.159						3.64		4753	4753	4753

			Post-De					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	This	table is based o		Developme M Section			Jata lable					
BASIN	Area	Area	Lan	d Treatment	t Percentag	es	Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) _{10da}
	(SQ. FT)	(AC.)	A	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
A-1	3205	0.074	0.0%	0.0%	14.0%	86.0%	4.48	0.33	1.98	529	621	897
B-1	46629	1.070	0.0%	0.0%	14.0%	86.0%	4.48	4.80	1.98	7699	9036	13046
B-2	638	0.015	0.0%	0.0%	14.0%	86.0%	4.48	0.07	1.98	105	124	179
TOTAL	50472	1.159						5.19		8334	9781	14121



CAUTION - NOTICE TO CONTRACTOR

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48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION
OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

DRAINAGE MANAGEMENT PLAN

INTRODUCTION

The purpose of this submittal is to provide a final drainage management plan for the Redevelopment of 4419 4th St NW, located at the SWC of 4th St NW and Freeman Ave NW in Albuquerque, NM. The site contains approximately 1.16 acres. We were unable to locate an existing Drainage Study for the

EXISTING HYDROLOGIC CONDITIONS

Although a portion of the site used to be developed as office building, the site was razed in +/-1996 and we are analyzing the site in its current condition. The site is currently undeveloped and sheet flows from east to west into adjacent roadways, Freeman Ave and 5th St. These flows ultimately drain to several existing curb inlets located at the intersection of 5th St/Freeman Ave. This storm drain system flows eastward toward 4th St. Per the Calculations table this sheet, the total existing flow leaving the site is 3.64 cfs during the 100-Yr, 6-Hr Storm Event.

PROPOSED HYDROLOGIC CONDITIONS

The proposed drainage patterns generally remain the same; however, there are a couple of very small drainage basins (A-1 and B-2) that need to be directed directly into adjacent roadways. These two basins equate to a minimal flow rate of 0.40 cfs per the calculations table this sheet. The remaining drainage from the site is calculated to contribute a total of 4.80 cfs during the 100-Yr storm. Since the site is located in the valley area, it is our understanding that the site is limited to a discharge of 2.75 cfs/acre. The subject site is 1.16 acres, so the total allowable discharge from the site is 3.19 cfs. Subtracting Basins A-1 and B-2 (0.40 cfs) which directly discharge into adjacent roadways, the total allowable discharge from the remainder of the site is 2.79 cfs.

In order to effectively reduce the 4.80 cfs discharge from Basin B-1 to the allowable 2.79 cfs rate of discharge, we are implementing a retention pond that is larger than the required first flush rate of 0.34". The proposed ponds 'A' and 'B' provide a total volume of 3,870.50 cubic feet which equates to a total capture of 1.07" of rainfall from the site. This is over 3.0 times that of the required first flush. We are also implementing a stormwater quality outlet (8" Agrigrain outlet) to protect against trash and oils discharging from the site.

FIRST FLUSH CALCULATIONS

Per the First Flush Calculations on this sheet, the total First Flush Volume required to be collected for the site is 1,232 CF. Per the Water Harvesting Pond Calculations table this sheet, we are actually retaining 3,870.50 CF of flow from the site which is just over 3 times the quantity required.

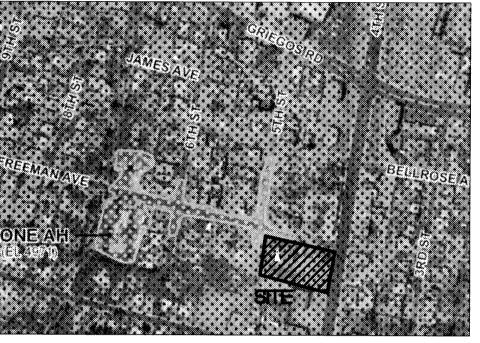
CONCLUSION

This drainage management plan provides for grading and drainage elements which reduce the impact to downstream systems; are capable of safely passing the 100 year storm, do not burden downstream systems, and meet city requirements. In addition, the proposed water harvesting ponds 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 G-14

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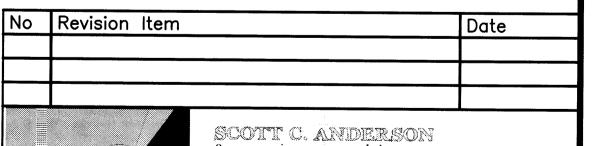


FIRM MAP 35001C0119G

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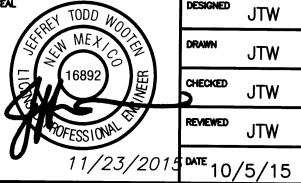
LEGEND --- FLOW ARROW 27.8 PROPOSED TOP OF GRADE/PVMT ELEVATIONS FL27.8 PROPOSED FLOW LINE/GUTTER ELEVATIONS TC27.8 PROPOSED TOP OF CURB ELEVATIONS __ _ 515__ _ EXISTING CONTOUR PROPOSED CONTOUR EXISTING STORM DRAIN ____ FLOW LINE



& associates architects 7604 rio penasco nw albuquerque, nm 87120

COMMERCIAL & APARTMENT BUILDING PHASE 1 4419 4th ST NW ALBUQUERQUE, NM 87107

Drainage Management Plan



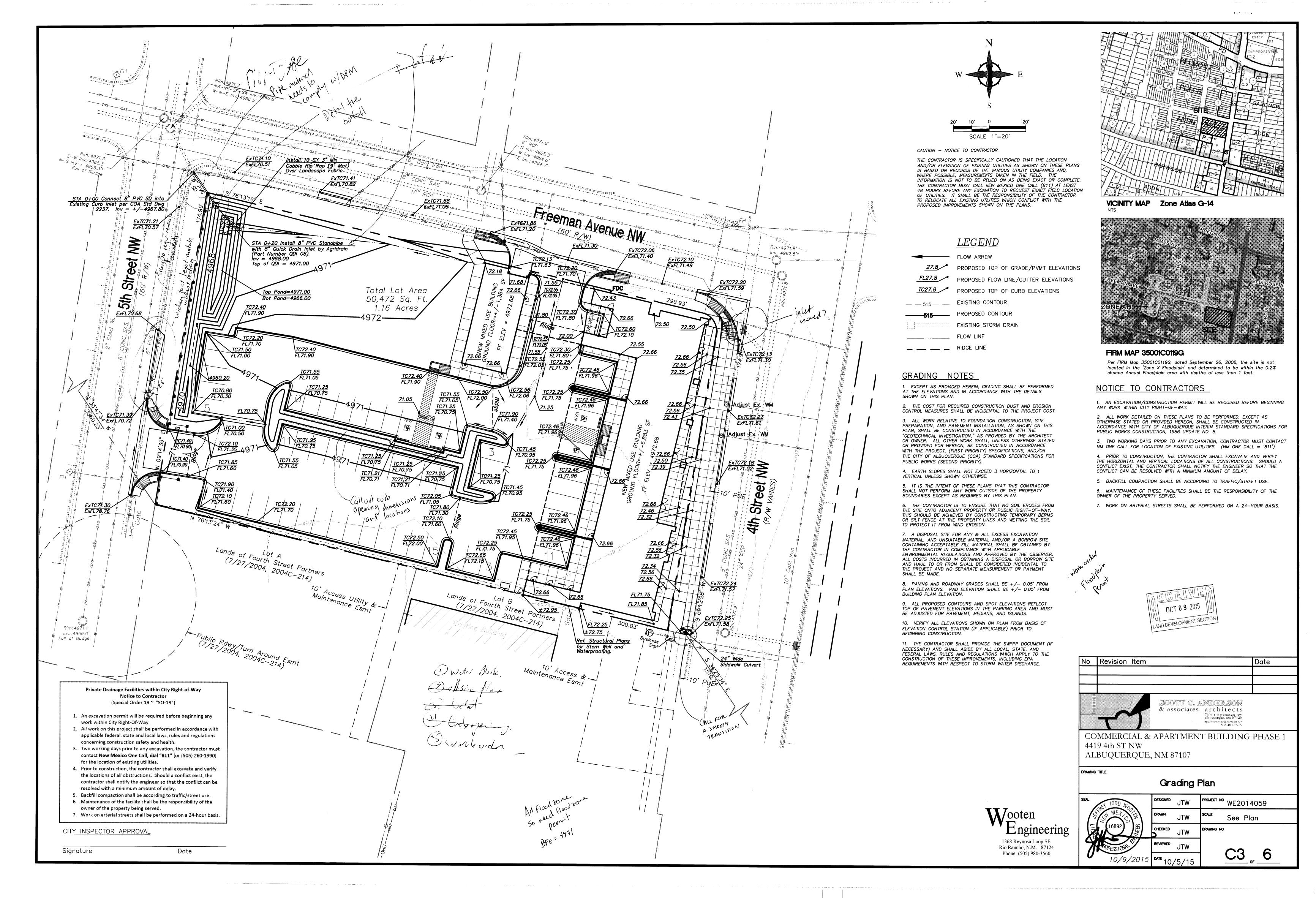
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JTV		JTW

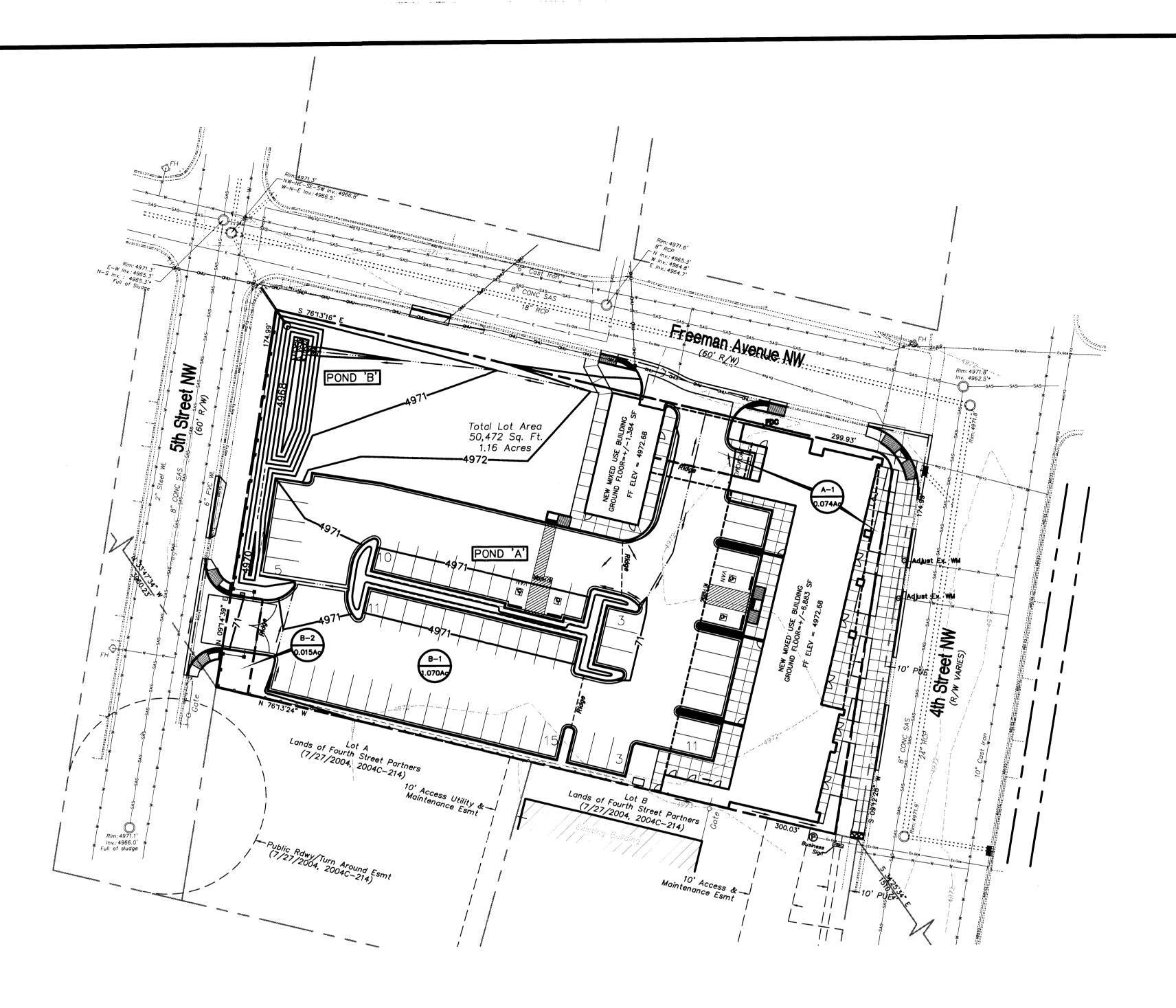
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PROJECT NO WE2014059

See Plan

Wooten Engineering 1005 21st Street SE, Suite B1 Rio Rancho, N.M. 87124 Phone: (505) 980-3560





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١	WATER	HARVESTING	POND	VOLUME	<u>CALCULATIONS</u>	

	GRAND TOTAL	3	,870.50 CF
	TOTAL		3,530 CF
	4966.00	132 SF	211 01
	4967.00	356 SF <	- 244 CF
	4968.00	614 SF	- 485 CF
	4969.00	1,202 SF	- 757 CF
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	CONTOUR ELEVATION	AREA (SF)	VOLUME (CF)
	WATER HARVESTING FOND	VOLOME CALCOLATI	ONS

			Pre-	Develo	ped Drai	inage (Calculat	tions				
				.,		······································						
	This	table is based o	n the COA DP	M Section	22.2, Zone:	2						
BASIN	Area	Area	Lan	d Treatmen	t Percentage	es	Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) _{10day}
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			Post-Dev					IS				
			Ultimate	Developme	ent Conditio	ons Basin L	Data Table					
	This	table is based o	n the COA DPI	M Section :	22.2, Zone:	2						
BASIN	Area	Area	Lan	d Treatment	Percentage	es	Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) _{10da}
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- 0.4 cfs drains to sheet

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Allowable: (2.75) (1.16 acre) = 3.19 cts



VICINITY MAP Zone Atlas G-14



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__ __ RIDGE LINE

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\underline{LEGEND}

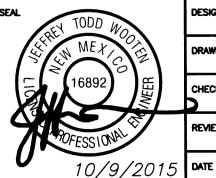
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No Revision Item Date & associates architects 7604 rio penasco nw albuquerque, nm 87120 andersonscotte@comeasu.net 505.401.7575

COMMERCIAL & APARTMENT BUILDING PHASE 1 4419 4th ST NW ALBUQUERQUE, NM 87107

DRAWING TITLE

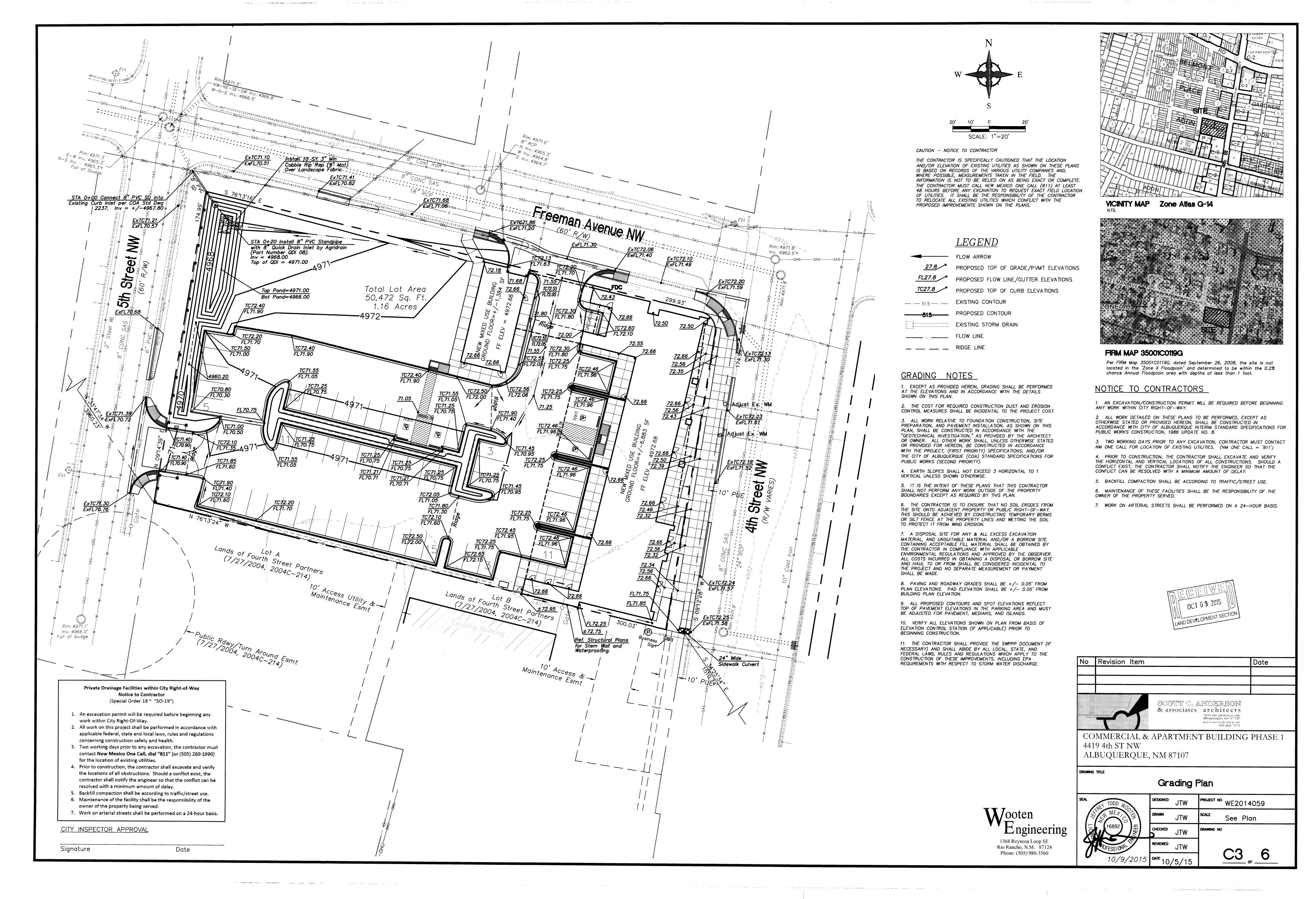
Drainage Management Plan

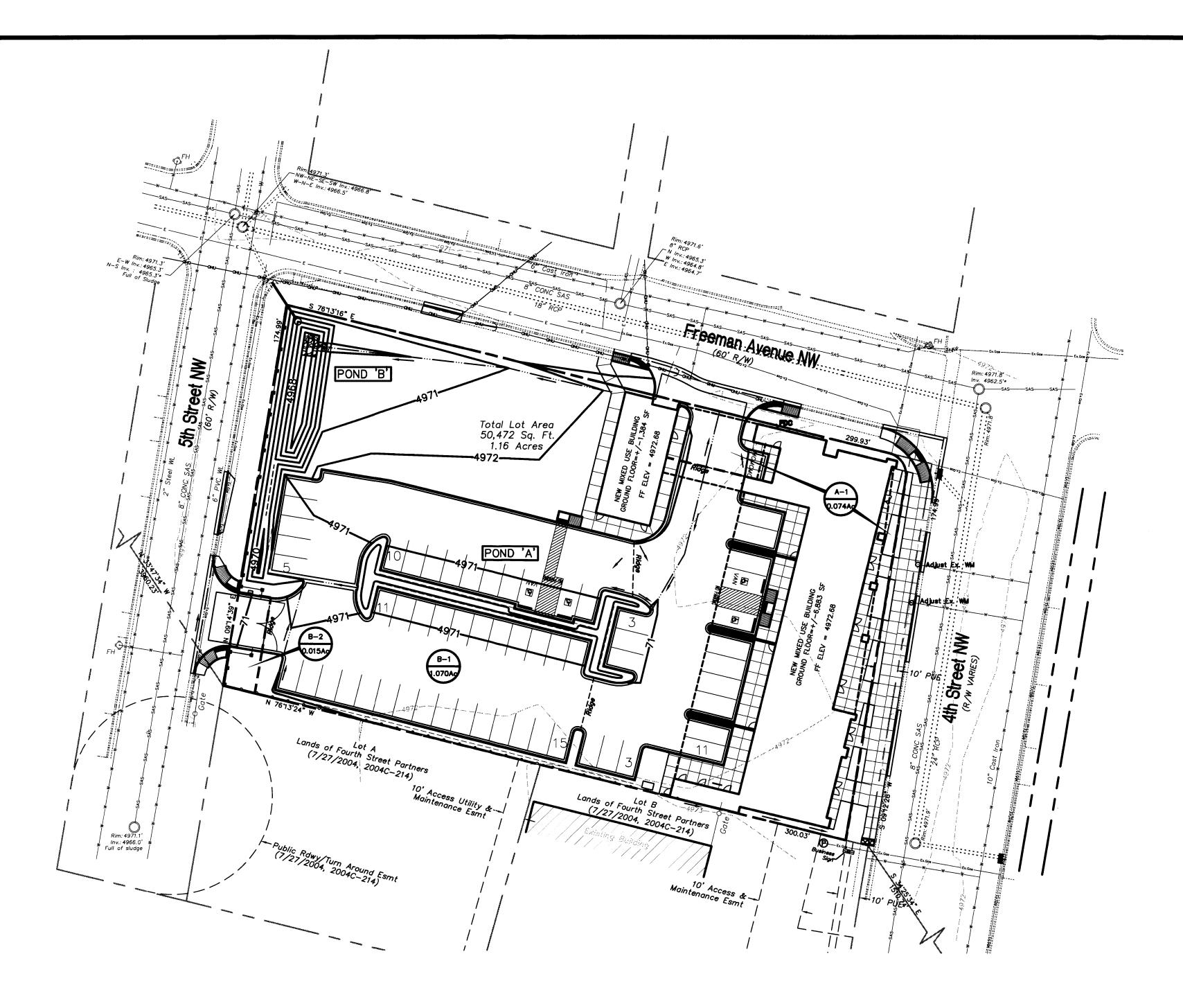


PROJECT NO WE2014059

See Plan

Wooten Engineering 1368 Reynosa Loop SE Rio Rancho, N.M. 87124 Phone: (505) 980-3560





TOTAL 50472 **1.159**

IMPERVIOUS AREA CALCULATIONS

PROPOSED SITE CONDITIONS

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TOTAL SITE AREA: 50,472 SF
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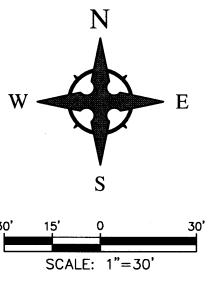
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WATER HARVESTING POND VOLUME CALCULATIONS

	_	GRAND TOTAL	3,8	870.50 CF
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				T.						***************************************		4
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			Post-Dev	/elopec	l Draina	ge Cal	culation)S				
					ent Conditio		*********************	·		······································		
	This	table is based o	on the COA DPI	M Section	22.2, Zone:	2					i i	†
BASIN	Area	Area	Lan	d Treatmen	t Percentage	es	Q(100)	Q(100)	WTE	V(100) ₃₆₀	V(100) ₁₄₄₀	V(100) ₁₀
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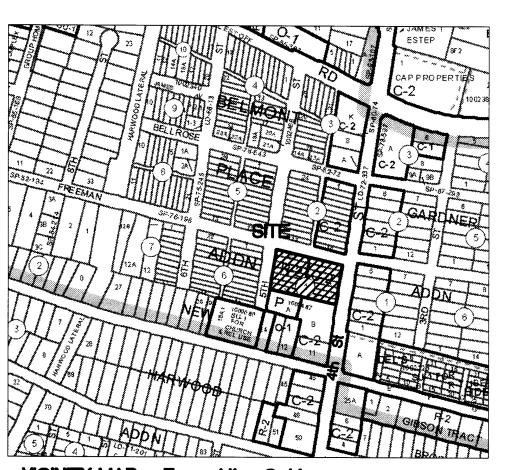
In order to effectively reduce the 4.80 cfs discharge from Basin B-1 to the allowable 2.79 cfs rate of discharge, we are implementing a retention pond that is larger than the required first flush rate of 0.34". The proposed ponds 'A' and 'B' provide a total volume of 3,870.50 cubic feet which equates to a total capture of 1.07" of rainfall from the site. This is over 3.0 times that of the required first flush. We are also implementing a stormwater quality outlet (8" Agrigrain outlet) to protect against trash and oils discharging from the site.

FIRST FLUSH CALCULATIONS

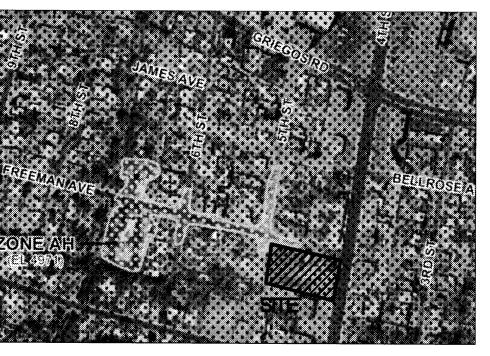
Per the First Flush Calculations on this sheet, the total First Flush Volume required to be collected for the site is 1,232 CF. Per the Water Harvesting Pond Calculations table this sheet, we are actually retaining 3,870.50 CF of flow from the site which is just over 3 times the quantity required.

CONCLUSION

This drainage management plan provides for grading and drainage elements which reduce the impact to downstream systems; are capable of safely passing the 100 year storm, do not burden downstream systems, and meet city requirements. In addition, the proposed water harvesting ponds 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 G-14



FIRM MAP 35001C0119G

Per FIRM Map 35001C0119G, 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.

LEGEND

FLOW ARROW

PROPOSED TOP OF GRADE/PVMT ELEVATIONS

PROPOSED FLOW LINE/GUTTER ELEVATIONS

PROPOSED TOP OF CURB ELEVATIONS

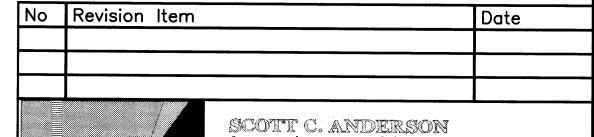
EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING STORM DRAIN

FLOW LINE

RIDGE LINE

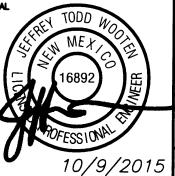




COMMERCIAL & APARTMENT BUILDING PHASE 1 4419 4th ST NW ALBUQUERQUE, NM 87107

DRAWING TITLE

Drainage Management Plan



	DESIGNED	JTW	PROJECT NO WE2014059
	DRAWN	JTW	Scale See Plan
	CHECKED	JTW	DRAWING NO
	REVIEWED	JTW	
015	DATE 10	/5/15	<u>C4</u> _* <u>6</u>

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