

PROPERTY: THE SITE IS AN UNDEVELOPED PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP C-17. THE SITE IS BOUND TO THE EAST AND WEST BY UNDEVELOPED COMMERCIAL PROPERTY, TO THE NORTH BY PASADENA N.E. AND TO THE SOUTH BY DEVELOPED COMMERCIAL PROPERTY.

SITE AREA: 46,879 SF = 1.076 AC

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A 17,256 SF OFFICE / WAREHOUSE BUILDING WITH ASSOCIATED ASPHALT PAVED ACCESS, PARKING, AND LANDSCAPING.

LEGAL: LOT 7 AND A PORTION OF LOT 8, BLOCK 3, TRACT A, UNIT  
B, NORTH ALBUQUERQUE ACRES BERNALILLO COUNTY, NEW MEXICO

ADDRESS: 5656 PASADENA N.E, 87113

BENCHMARK: CC\_EG\_11\_12\_11N\_R3E NAVD 1988 ELEVATION  
5135.56

OFF-SITE: OFF-SITE FLOW BASED ON NATURAL GRADES ON UNDEVELOPED PROPERTIES WILL BE ACCEPTED INTO A TEMPORARY SEDIMENT POND LOCATED ON LOT 8 (SAME OWNER) WITH OVERFLOW TO PASADENA VIA A 2' WIDE COVERED SIDEWALK CULVERT.

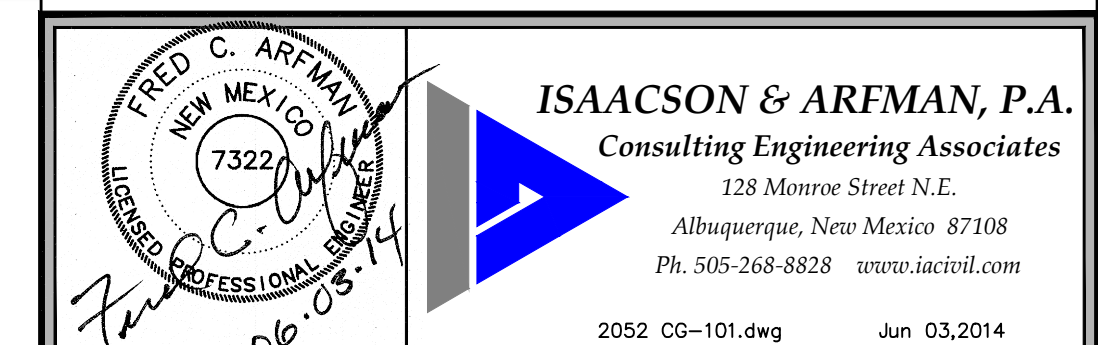
FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP 35001C0129H, THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

DRAINAGE PLAN CONCEPT: A PORTION OF THE SITE (BASIN 1) WILL SURFACE DISCHARGE VIA THE PROPOSED ENTRANCE DRIVE TO PASADENA NE. A PRIVATE ON-SITE STORM DRAIN SYSTEM WILL BE INSTALLED TO COLLECT ON-SITE RUNOFF FROM THE DOCK AND SOUTHERN PORTION OF THE PROPERTY (BASIN 2) AND TIE TO THE BACK OF THE EXISTING PUBLIC STORM DRAIN INLET LOCATED AT THE NORTHWEST CORNER OF THE PROPERTY.

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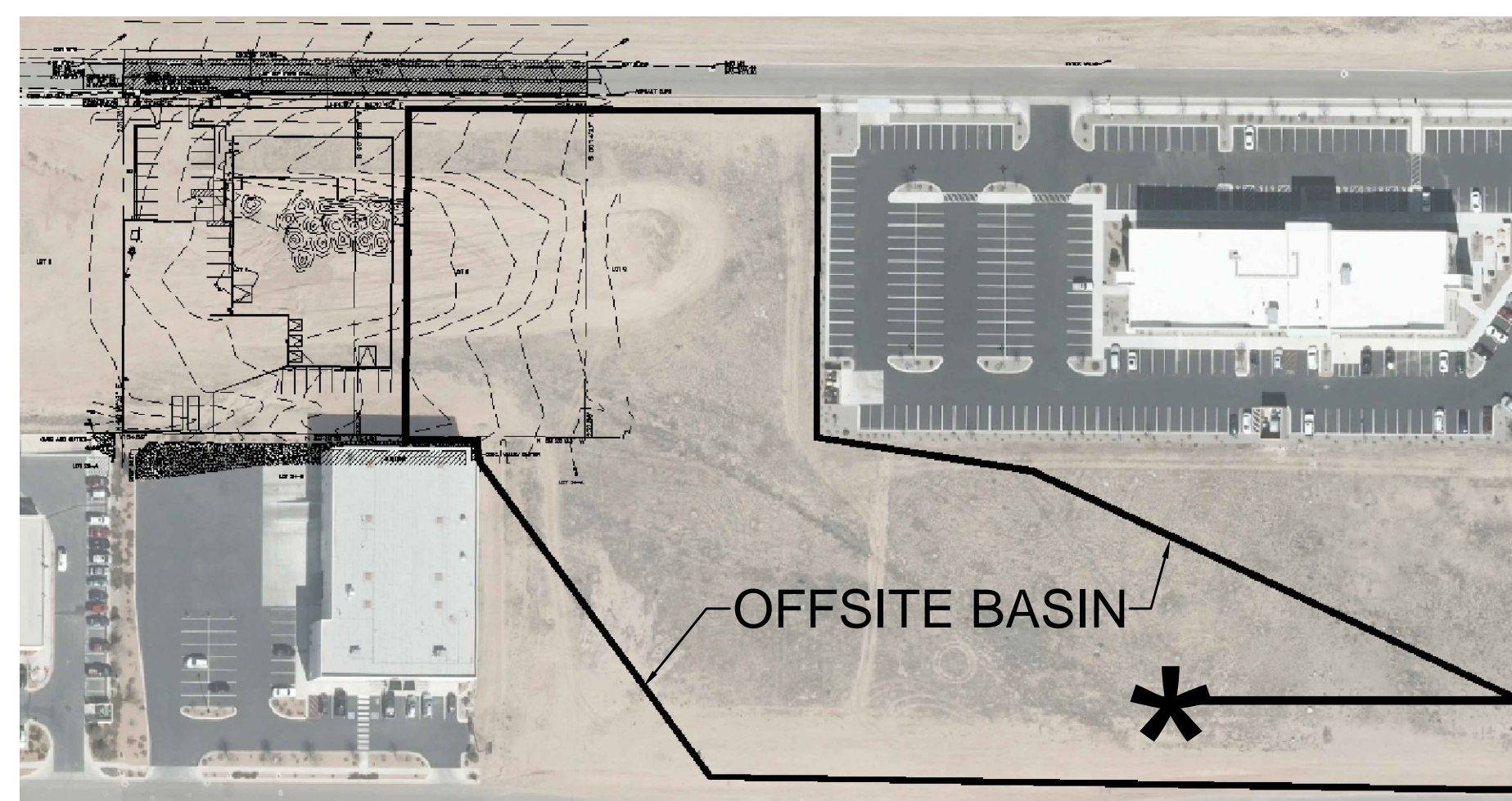
— 5167 —	EXISTING CONTOUR
— 67 —	PROPOSED CONTOUR
◆ 66.7	PROPOSED SPOT ELEVATION
→	FLOW ARROW
FF = 5170.70	FINISH FLOOR ELEVATION
INV =	INVERT ELEVATION
— — — — —	STORM DRAIN



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5656 PASADENA N.E.  
MECHENBIER CONSTRUCTION

Date:	No.	Revision:	Date:	Job No.
5/8/14				2052
Drawn By: BJB				CG-101
Ckd By: FCA				SH. OF



BASIN NO.	1	DESCRIPTION			
Area of basin flows =	16454	SF	-	0.4	Ae.
The following calculations are based on Treatment areas as shown in table to the right					LAND TREATMENT
Sub-basin in Weighted Excess Precipitation (see formula above)					A = 0%
Weighted E =	2.06 in				B = 0%
Sub-basin in Volume of Runoff (see formula above)					C = 28%
V <sub>160</sub> =	2825	CF			D = 72%
Sub-basin in Peak Discharge Rate: (see formula above)					
Q <sub>p</sub> =	1.7	cfs			
BASIN NO.	2	DESCRIPTION			
Area of basin flows =	30569	SF	-	0.7	Ae.
The following calculations are based on Treatment areas as shown in table to the right					LAND TREATMENT
Sub-basin in Weighted Excess Precipitation (see formula above)					A = 0%
Weighted E =	2.36 in				B = 0%
Sub-basin in Volume of Runoff (see formula above)					C = 0%
V <sub>160</sub> =	6012	CF			D = 100%
Sub-basin in Peak Discharge Rate: (see formula above)					
Q <sub>p</sub> =	3.5	cfs			

[illegible]

<p align="center"><b>CALCULATIONS: 2052: 5656 PASADENA N.E. : May 8, 2014</b></p> <p align="center">Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993</p>									
<p align="center"><b>ON-SITE</b></p>									
<b>AREA OF SITE:</b>		46879		SF		=		1.1	
		100-year, 6-hour							
<b>ALLOWABLE DISCHARGE:</b>				<b>DEVELOPED FLOWS:</b>				<b>EXCESS PRECIP:</b>	
	Treatment SF	%			Treatment SF	%		Precip. Zone	%
Area A =	0	0%		Area A =	0	0%		E <sub>A</sub> =	0.66
Area B =	46879	100%		Area B =	0	0%		E <sub>B</sub> =	0.92
Area C =	0	0%		Area C =	4688	10%		E <sub>C</sub> =	1.29
Area D =	0	0%		Area D =	42191	90%		E <sub>D</sub> =	2.36
Total Area =	46879	100%		Total Area =	46879	100%			

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Allowable E	=	0.92 in.	Developed E	=	2.25 in.
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On-Site Volume of Runoff:  $V_{360} = E \cdot A / 12$

Allowable $V_{361}$	=	3594 CF	Developed
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On-Site Peak Discharge Rate:  $Q_p = Q_{pAA} + Q_{pAB} + Q_{pAC} + Q_{pAD} / 43,560$

For Precipitation Zone 3

$$Q_{pA} = 1.87 \qquad Q_{pC} = 3.45$$

	$Q_{pB} = 2.60$	$Q_{pD} = 5.02$
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