

FEBRUARY 7, 2012

SUPPLEMENTAL INFORMATION

FOR

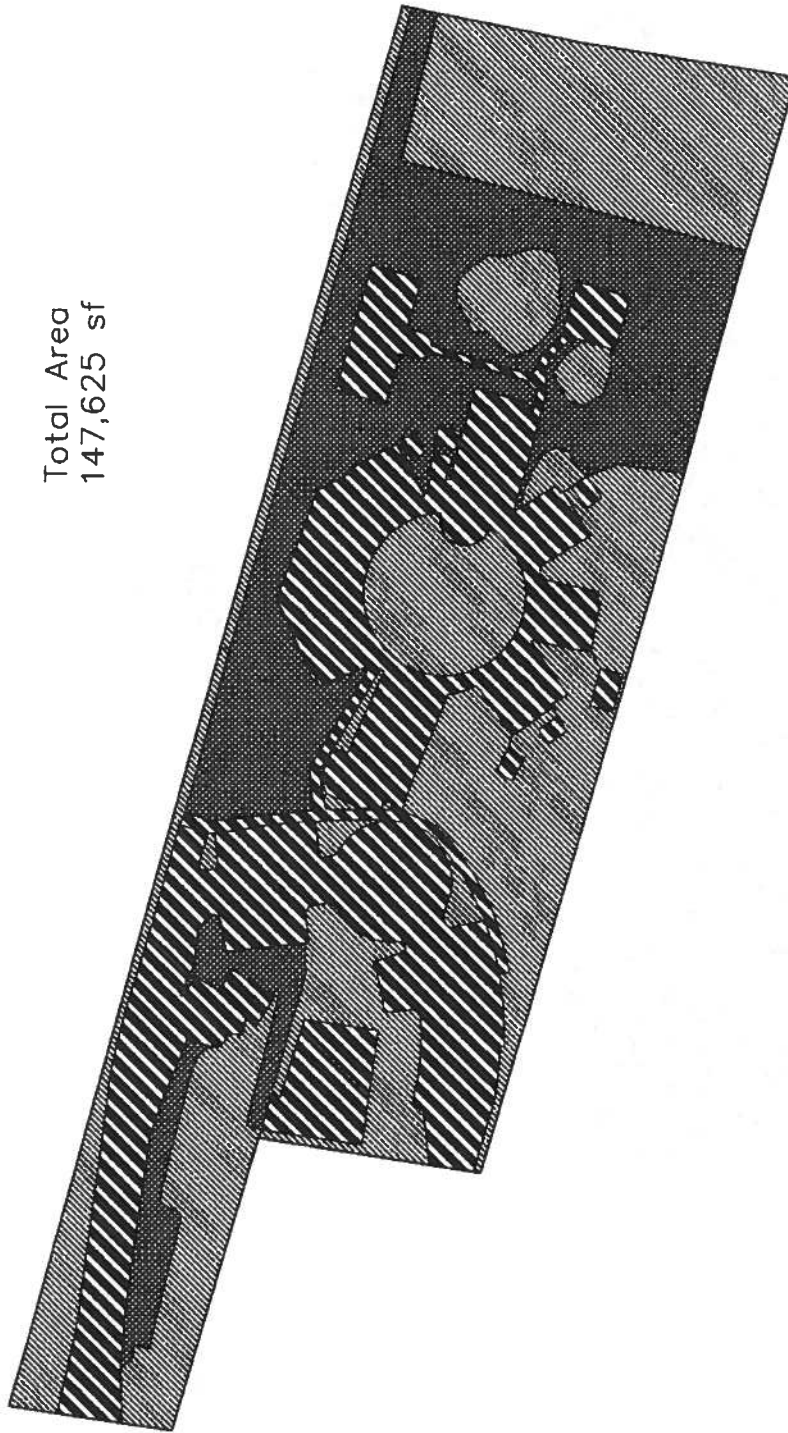
Mountain Mahogany Community School

IA Project No. 1903

BY



Total Area
147,625 sf



42.2%	Treatment B	62320 sf
25%	Treatment C	36,893 sf
32.8%	Treatment D	48412 sf

EXISTING CONDITIONS



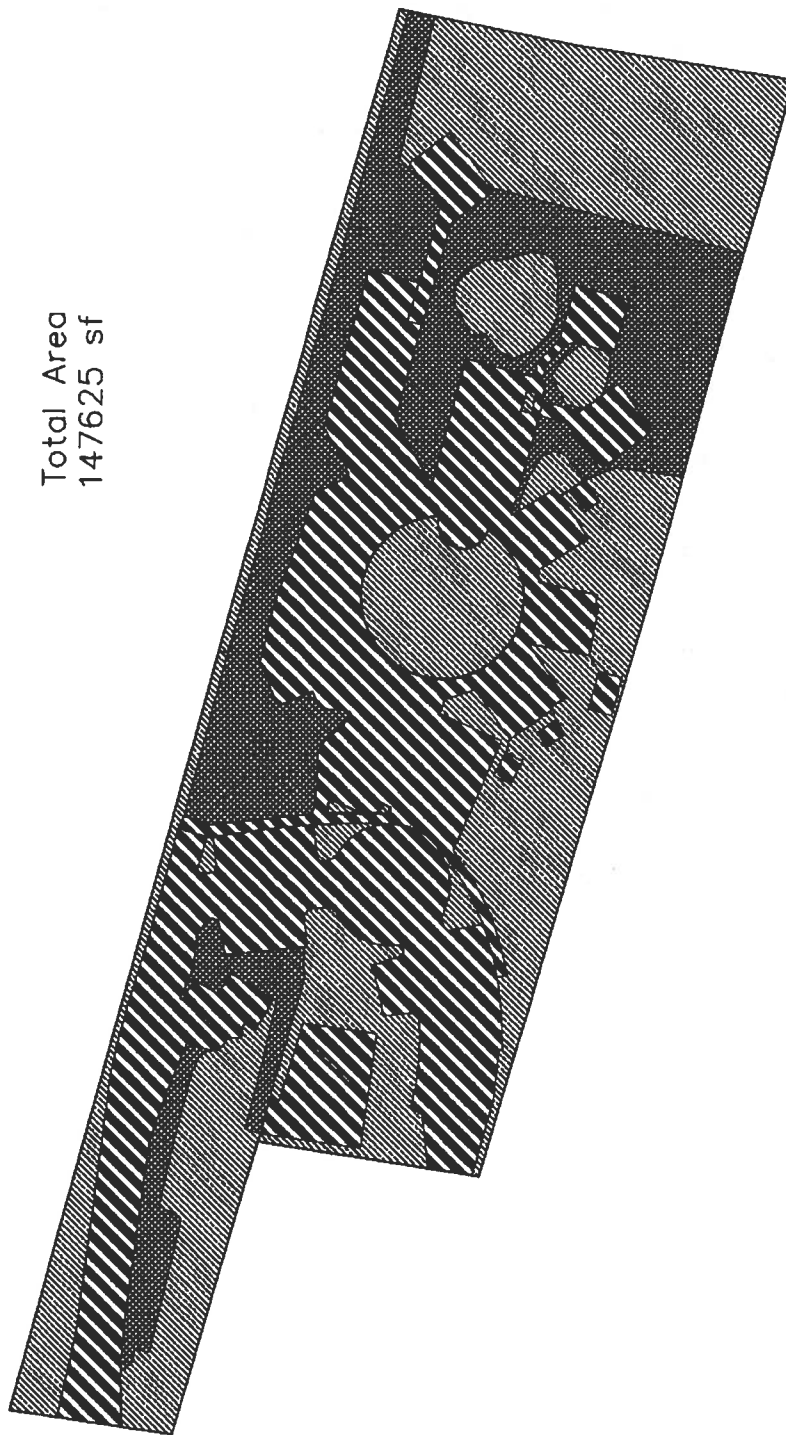
ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates
Albuquerque, New Mexico

1903 C-701-LAND AREA.dwg 07.2012

PROJECT Mountain Mahogany Private School

JOB NO. 1903 BY BJB DATE Feb. 3, 2012



FUTURE CONDITIONS



ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

Albuquerque, New Mexico

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PROJECT Mountain Mahogany Private School

JOB NO. 1903

BY BJB

DATE Feb. 3, 2012

The required storage volume for the site is based on the 100-year 10-day storm event. The following tables and graphics will clearly show that this site has ponding volume available in it's existing condition to store a significant volume without impacting the surrounding properties

EXISTING CONDITIONS: 32.8% D

100-year 10-day

V ₃₆₀ (from previous calculation)	16079
Area Treatment D (SF)	48421
Zone	2
For 10 Day Storms: V _{10day} = V ₃₆₀ + A _D * (P _{10day} - P ₃₆₀)*43560 SF/AC	
V ₃₆₀	= 16079
A _D (SF)	= 48421
Zone	= 2
P _{10day}	= 3.95
P ₃₆₀	= 2.35
V ₃₆₀	= 16079
+ imp. area	= 6456
Total Pond Volume (V _{10 day})	= 22535

22,535 CF = 835 CY

Water Surface Elevation = 4972.4

PROPOSED CONDITIONS: 35.0% D

100-year 10-day

V ₃₆₀ (from previous calculation)	16351
Area Treatment D (SF)	51668
Zone	2
For 10 Day Storms: V _{10day} = V ₃₆₀ + A _D * (P _{10day} - P ₃₆₀)*43560 SF/AC	
V ₃₆₀	= 16351
A _D (SF)	= 51668
Zone	= 2
P _{10day}	= 3.95
P ₃₆₀	= 2.35
V ₃₆₀	= 16351
+ imp. area	= 6889
Total Pond Volume (V _{10 day})	= 23240

23,240 CF = 861 CY

Water Surface Elevation = 4972.5

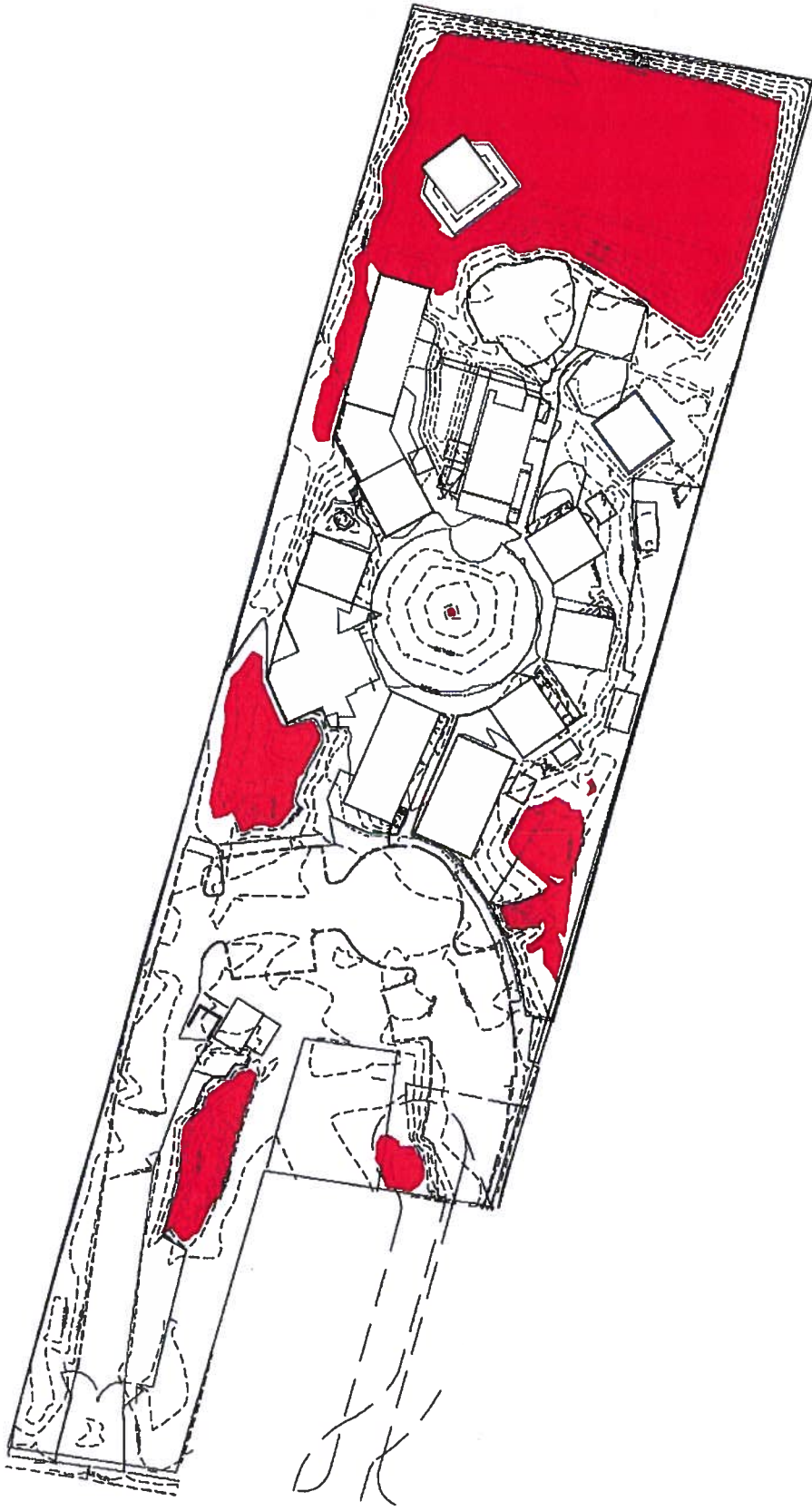
MAXIMUM CONDITIONS: 38.4% D

100-year 10-day

V ₃₆₀ (from previous calculation)	16843
Area Treatment D (SF)	56688
Zone	2
For 10 Day Storms: V _{10day} = V ₃₆₀ + A _D * (P _{10day} - P ₃₆₀)*43560 SF/AC	
V ₃₆₀	= 16843
A _D (SF)	= 56688
Zone	= 2
P _{10day}	= 3.95
P ₃₆₀	= 2.35
V ₃₆₀	= 16843
+ imp. area	= 7558
Total Pond Volume (V _{10 day})	= 24401

24,401 CF = 904 CY

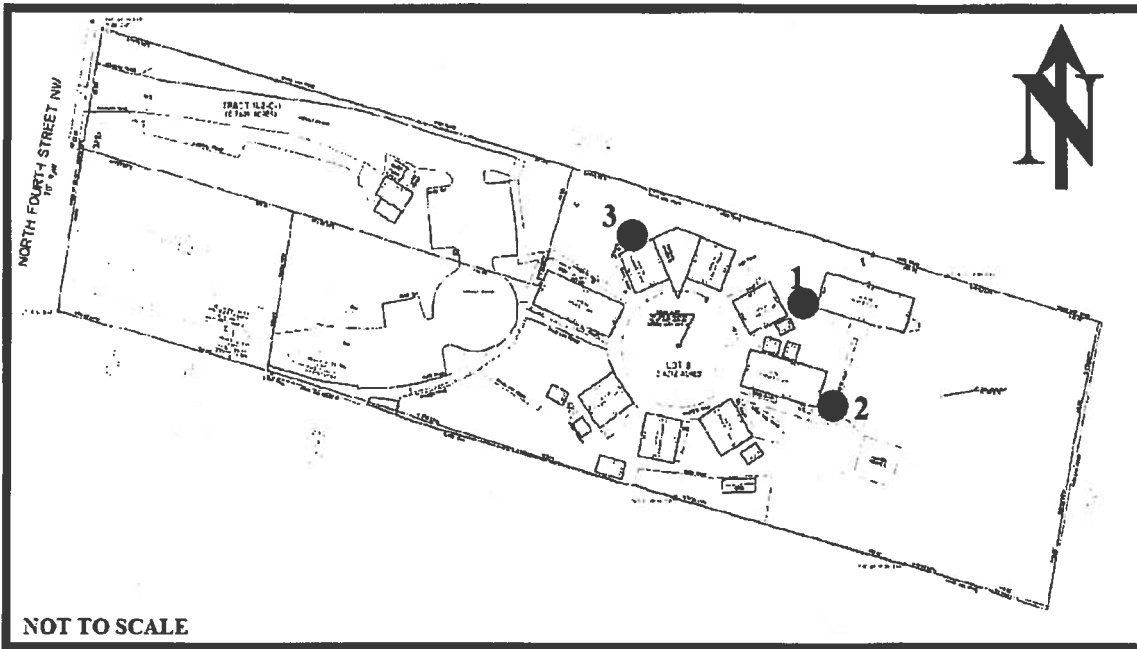
Water Surface Elevation = 4972.7



Future Conditions (38.4% impervious):

Required 100-year 10-day volume = 24,401 cf = 904 cy

Water Surface Elevation = 4972.7



SITE PLAN

● TEST HOLE LOCATION

LOG OF TEST HOLE NO.: 2

		B	CL	CLAY with lenses of sand		20.0
2						
		B				24.3
5			SP-SM	SAND, slightly silty, fine to medium grained, medium moist, light-brown		3.1
		B				
			SM	SAND, fine to medium grained, medium moist, light-brown, trace caliche		
						3.1
10		B				
				Bottom of Hole at 10 Feet		

LOG OF TEST HOLE NO.: 3

Project:	5014 4th St NW, Albuquerque, NM
Date Drilled:	1.13.2012
Drilling Method:	Hand Auger
Surface Elevation:	Not Available
Depth to Groundwater:	Not Encountered
Bottom of Hole:	5 ft

Depth (feet)	N-Value (blows/ft)	Sample Type	Unified Class.	Description	Dry Density (pcf)	Moisture Content (%)
		B	CH	CLAY with lenses of sand		23.9
2						
			SP	SAND, fine to medium grained, slightly moist, light-brown		
5				Bottom of Hole at 5 Feet		
10						