	<b>.</b>									
Proposed Ultimate Development Conditions Basin Data Table										
		This table	is based	on the DP	M Section	22.2, Zone:	2			
Basin	Area	Area	Land	Treatme	nt Perce	ntages	Q(100)	Q(100)	V(100)	V(100)6HR
ID	(SQ. FT)	(AC.)	Α	В	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)
Tract B-2-A	226055	7.46	0.0%	5.0%	5.0%	90.0%	4.50	33.58	2.00	37742
BASIN 1	32962	0.76	0.0%	10.0%	0.0%	90.0%	4.46	3.37	1.99	5455
BASIN 2	34871	0.80	0.0%	10.0%	0.0%	90.0%	4.46	3.57	1.99	5771
BASIN 3	8640	0.20	0.0%	5.0%	0.0%	95.0%	4.58	0.91	2.05	1478
BASIN 4	13870	0.32	0.0%	5.0%	0.0%	95.0%	4.58	1.46	2.05	2373
BASIN 5	4709	0.11	0.0%	10.0%	0.0%	90.0%	4.46	0.48	1.99	779

	STORM DRAIN		IABLE			
	Contributing	Size			ACTUA	
PIPE#	Basins and Storm Drains	in.	Slope	Capacity	FLOW	
				cfs	cfs	
NORTH			2.70 (3.40) 2.40.1			
SD1	BSN 2	18	0.50%	7.43	3.57	
SD2	BSN 5	8	0.50%	0.85	0.48	
SD3	BSN 2,5	18	1.00%	10.50	4.05	
SD4	BSN 1,2,5	18	1.00%	10.50	7.42	
CENTRAL						
SD5	SD6,15 + BSN19	30	1.00%	41.02	25.65	
SD6	SD7,21 + BSN3	30	0.50%	29.00	20.92	
SD7 SD8, BSN9		24	0.50%	16.00	14.20	
SD8	SD9,20 + BSN10	24	0.50%	16.00	13.92	
SD9	BSN 11,12,14	24	0.50%	16.00	9.36	
SD10 BSN 12		18	0.50%	7.43	4.37	
SD11 BSN 14		12	0.50%	2.52	1.75	
SD12 SD13 + BSN4		18	1.00%	10.50	4.79	
SD13 BSN 6,7		12	1.00%	3.56	3.33	
SD14	BSN 7	12	0.50%	2.52	2.13	
SD15	BSN 8,13	18	1.00%	10.50	3.93	
SD16	BSN 13	12	1.00%	3.56	2.25	
SD20	BSN 21	12	1.00%	3.56	1.92	
SD21	SD12 + BSN20	18	1.00%	10.50	5.81	
WEST						
SD17	BSN 15,16	12	2.00%	5.04	3.81	
SD18	BSN 15	8	1.00%	1.21	0.68	
SD19	BSN 16	12	1.00%	3.56	3.13	

		WILLIAM AND REW	S-MI FEELELL		Arry
	C-2	AS MCCORD	100x1c S-MI		
	SORPH BELLAMAN		BLVD CORRIDOR		L
	G C-2	0 5	SMI 8		
		OLD TOWN	STEWART S.N	AWMILL WELLS.	PADL AND
Sales and		OITE	FREEWA	538.20 F 52	forman . A
			273133	OLD S-MI	10 5
		C-2 RE	1 2 SU-1	TOWN	D 112
		2 200 14-1	MUSEUM MUSEUM MATURA HISTORY	4 OF 538	
		VENONEWORE  S2871	S. P.SH	SU-1 MUSEUM	
		MUSEUM SU-1 ANYSEUM PARKUNG PREL PAC	TIGUEX PARK	\$62520	
	" <u>F</u> H-1		SU-2 PARK	GU-Mic	
	S SHEETER	B 6			
			CINITY MAP TLAS PAGE J-13-Z		
		ZONE N	TENOT HOL V TO Z		

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ARCHITECT

# GRADING AND DRAINAGE NARRATIVE

# Site Location and Background Information

The purpose of this submittal is to present a drainage and grading plan for the proposed Sawmill Village development to the North of Bellamah and 18th street. The design site proposes mixed use development. There will be some residential townhomes, and some commercial sites. The site is in rainfall zone 2 as defined by figure A—1 of the DPM section 22. The existing legal description of the site is Tract 2-D, Arbolera De Vida and Lot B-2-A, Duke City Lumber Company Addition. Please see the vicinity map on this sheet for a graphic depiction of the site location. This conceptual grading and drainage plan is submitted in support of site plan approval.

The Sawmill Master Drainage Plan Area, prepared by Bohannan Huston Inc., addresses drainage off the western site and the surrounding area to the west and north (city hydrology file: H13-D25). This submittal integrates the eastern Lot B-2-A into the Sawmill Master Drainage Plan and modifies the pond construction to be in compliance with the guidance and recommendations set forth in that report.

age

nue

## Existing Conditions

This entire site (Tracts 2-D & B-2-A) is approximately 10 acres and is an old industrial sawmill. The natural slope of the site is very flat. The slope across the site is less than 1% from the northeast to the southwest. There is an existing pond north of Tract 2—D that is part of the Sawmill Master Drainage Plan. It currently discharges into the storm drain in Bellamah at a maximum flow of 4 C.F.S. The site is approximately level with Bellamah and the surrounding properties.

Under proposed conditions the site will slope slightly to the pond north of Tract 2-D and utilize storm drain systems to convey runoff to the pond w/ functional surface slopes. The site will be mostly impervious treatment D and the rest landscaped treatment B and C. The Sawmill Master Drainage Plan sizes the existing pond as a retention system to be conservative. The pond is a retention pond to elevation 4954 at which it can discharge 4 C.F.S. in a detention condition. The existing pond is sized to accept runoff from the Tract 2—D (the portion of the site west of 18th St.). The pond expansion is sized to accept additional runoff from Lot B—2—A. With this project, we propose to expand the volume of the existing pond by approximately 59,000 CF. This expansion can be accomplished without lowering the pond bottom. Accordingly, the depth of retained water below the invert of the outlet pipe will not be increased with this project. The proposed pond expansion volume exceeds the 100yr, 6hr storm volume generated by tract B-2-A.

# Flood plain

In accordance with FEMA community map panel #35001C0331 E, the site is not located within a flood

There are no significant upstream offsite flows which will impact this site.

This drainage submittal has been prepared in accordance with City of Albuquerque requirements. This plan clearly demonstrates the proposed, general surface grading and drainage. The implementation of this design will result in the safe passage of the 100 year storm event. With this submittal we request hydrology department approval of this Grading and Drainage Plan for building permit.

# INLET TABLE

T	Inlet	Inlet	Top of	Actual	Avail	Capacity
L	#	Type	Grate	Flow	Head ft	
	IN1	2'x2' Nyloplast Road & Highway Grate	57.07	3.37	0.5	6.00
	IN2	2'x2' Nyloplast Road & Highway Grate	58.00	3.57	0.5	6.00
	IN3	2'x2' Nyloplast Road & Highway Grate	58.38	0.91	0.5	6.00
	IN4	2'x2' Nyloplast Road & Highway Grate	58.38	1.46	0.5	6.00
	IN5	2'x2' Nyloplast Road & Highway Grate	58.76	0.48	0.5	6.00
	IN6	2'x2' Nyloplast Road & Highway Grate	59.15	1.20	0.5	6.00
	IN7	2'x2' Nyloplast Road & Highway Grate	59.16	2.13	0.5	6.00
ſ	IN8	2'x2' Nyloplast Road & Highway Grate	57.97	1.68	0.5	6.00
	IN9	2'x2' Nyloplast Road & Highway Grate	59.39	0.28	0.5	6.00
	IN10	2'x2' Nyloplast Road & Highway Grate	58.64	2.64	0.5	6.00
	IN11	2'x2' Nyloplast Road & Highway Grate	58.45	3.23	0.5	6.00
Γ	IN12	2'x2' Nyloplast Road & Highway Grate	58.81	4.37	0.5	6.00
	IN13	2'x2' Nyloplast Road & Highway Grate	57.97	2.25	0.5	6.00
	IN14	24" Standard Nyloplast Grate	58.80	1.75	0.5	3.60
	IN15	2'x2' Nyloplast Road & Highway Grate	57.90	0.68	0.5	6.00
	IN16	2'x2' Nyloplast Road & Highway Grate	57.75	3.13	0.5	6.00
	IN19	2'x2' Nyloplast Road & Highway Grate	57.30	0.80	0.5	6.00
	IN20	2'x2' Nyloplast Road & Highway Grate	57.15	1.02	0.5	6.00
	IN21	18" Pedestrian Nyloplast Grate	57.00	0.84	0.5	2.20

\* The actual head available varies with each inlet, but in no case is the available head less than 0.5'.

# • Sawmill Bellamah

**REVISIONS** 

ATE	May 13,	2008
EVIEWED BY		BJS
RAWN BY	В	CP

PROJECT NO. 06124 DRAWING NAME

DRAINAGE MANAGEMENT PLAN

SHEET NO.

BASIN BOUNDARY	40 20 0 40	BASIN 2 34871 0.80 0.0% 10.0% 0.0% 90.0% 4.46 3.57 1.99 5771 BASIN 3 8640 0.20 0.0% 5.0% 0.0% 95.0% 4.58 0.91 2.05 1478 BASIN 4 13870 0.32 0.0% 5.0% 0.0% 95.0% 4.58 1.46 2.05 2373  BASIN 4 13870 0.32 0.0% 5.0% 0.0% 95.0% 4.58 1.46 2.05 2373
PROPOSED DIRECTION OF FLOW  WATER BLOCK  PROPOSED INDEX CONTOURS	1"=40'	BASIN 5 4709 0.11 0.0% 10.0% 0.0% 90.0% 4.46 0.48 1.99 779 BASIN 6 11415 0.26 0.0% 5.0% 0.0% 95.0% 4.58 1.20 2.05 1953 BASIN 7 20804 0.48 0.0% 10.0% 0.0% 90.0% 4.46 2.13 1.99 3443 BASIN 8 16442 0.38 0.0% 10.0% 0.0% 90.0% 4.46 1.68 1.99 2721  BASIN 8 16442 0.38 0.0% 10.0% 0.0% 90.0% 4.46 1.68 1.99 2721  BASIN 8 16442 0.38 0.0% 10.0% 0.0% 90.0% 4.46 1.68 1.99 2721  BASIN 8 16442 0.38 0.0% 10.0% 0.0% 90.0% 4.46 1.68 1.99 2721  BASIN 8 16442 0.38 0.0% 10.0% 0.0% 90.0% 4.60 1.68 1.99 2721  BASIN 9 2720 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PROPOSED INTER CONTOURS  PROPOSED STORM DRAIN INLET		BASIN 10 25127 0.58 0.0% 5.0% 0.0% 95.0% 4.58 2.64 2.05 4299 BASIN 11 30743 0.71 0.0% 5.0% 0.0% 95.0% 4.58 3.23 2.05 5260 BASIN 12 42740 0.98 0.0% 10.0% 0.0% 90.0% 4.46 4.37 1.99 7073 BASIN 12 42740 0.98 0.0% 10.0% 0.0% 90.0% 4.46 4.37 1.99 7073 SD12 SD13 + BSN4 18 1.00% 10.50
		BASIN 13 21398 0.49 0.0% 5.0% 0.0% 95.0% 4.58 2.25 2.05 3667 BASIN 14 22666 0.52 0.0% 55.0% 0.0% 45.0% 3.37 1.75 1.38 2612 BASIN 15 6813 0.16 0.0% 15.0% 0.0% 85.0% 4.34 0.68 1.92 1090 BASIN 16 29822 0.68 0.0% 5.0% 0.0% 95.0% 4.58 3.13 2.05 5102 BASIN 17 12858 0.30 0.0% 65.0% 0.0% 35.0% 3.13 0.92 1.25 1338  BASIN 17 12858 0.30 0.0% 65.0% 0.0% 35.0% 3.13 0.92 1.25 1338  BASIN 18 1.00% 3.56 BASIN 19 12 1.00% 3.56 BASIN 19 12 1.00% 3.56 BASIN 19 12 1.00% 3.56
		BASIN 18 62175 1.43 0.0% 10.0% 0.0% 90.0% 4.46 6.36 1.99 10290 BASIN 19 7620 0.17 0.0% 5.0% 0.0% 95.0% 4.58 0.80 2.05 1304 BASIN 20 9458 0.22 0.0% 0.0% 0.0% 100.0% 4.70 1.02 2.12 1671 BASIN 21 8464 0.19 0.0% 15.0% 0.0% 85.0% 4.34 0.84 1.92 1354  BASIN 21 BASIN 21 8464 0.19 0.0% 15.0% 0.0% 85.0% 4.34 0.84 1.92 1354  SD17 BSN 15,16 12 2.00% 5.04  SD18 BSN 15 8 1.00% 1.21
	PONDBOT: 4949.50 MWSE: 4955.70	TOTAL 426303 9.79 0.0% 12.2% 0.0% 87.8% 4.40 43.10 1.96 69490 SD19 BSN 16 12 1.00% 3.56
	VOL: 238,560 CF EXPANSION: 59,137 CF	
	32.00	SD3 SD1 IN2 BASIN 1
	Ogev	A BASIN 2
	BASIN 18	F.F.=59.50  BUILDING  BUILDING  F.E.=59.50
SD18*	F.F.=59.00 BUILDING C 8'5001.002	BASINES BASINES
	BASIN 15  BASIN 15	SD64   N3   SD21   N4   SD18   IN6   SD18
	BUILDING	BASIN 20; BASIN 4  BASIN 6  BASIN 6  BASIN 6
	F.F.=59.50 BASIN 8 INS	F.F.=60.25 BASIN FER FEE FOR FOR FIRE FOR
BASIN 16	DAGINO IN8	BUILDING BUILDING BUILDING BUILDING
IN18		IN10 SD9 IN11
	BASIN 13	BASIN 12
BUILDING A1		BUILDING   BASIN 10   BASIN 11   BASIN 11
F.F.=6  BA	SIN 17	F.=60.25/BASIN 21 = 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
BELLANAH AVENÜEN IN.		F.F.=61.00  F.F.=61.00  F.F.=61.25  F.F.=61.25
60 RON	31 4858	N14 BASIN 14 FIFTH FIFTH
		EXISTING BUILDING 1999
P: \070249\cdp\general\070249DMP01.dwg		

**LEGEND**