Hydrologic Calculations - COA DPM 22.2

Gary Padilla Residence
Glendale Ave. NE
August 2012

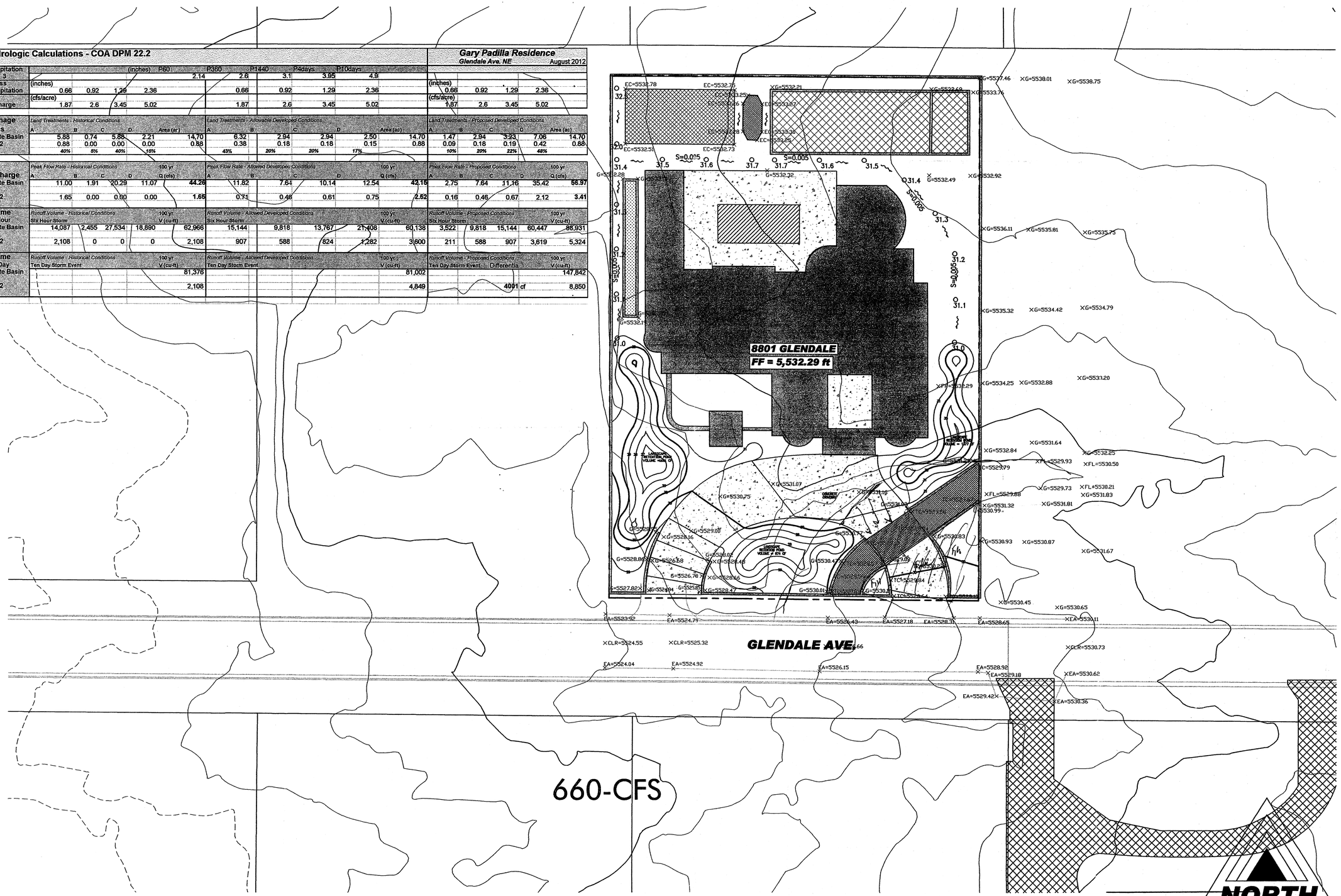
Precipitation Zone 3	(inches)				P60				P360				P1440				P4days			P10days
					2.14				2.6				3.1				3.95			4.9
Excess Precipitation	(inches)	0.66	0.92	1.29	2.36				0.66	0.92	1.29	2.36					(inches) 0.66	0.92	1.29	2.36
Peak Discharge	(cfs/acre)	1.87	2.6	3.45	5.02				1.87	2.6	3.45	5.02					(cfs/acre) 1.87	2.6	3.45	5.02

Drainage Areas	Land Treatments - Historical Conditions A	B	C	D	Area (ac)	Land Treatments - Allowable Developed Conditions A	B	C	D	Area (ac)	Land Treatments - Proposed Developed Conditions A	B	C	D	Area (ac)
Offsite Basin	5.88	0.74	5.88	2.21	14.70	6.32	2.94	2.94	2.50	14.70	1.47	2.94	3.23	7.06	14.70
Lot 22	0.88	0.00	0.00	0.00	0.88	0.38	0.18	0.18	0.15	0.88	0.09	0.18	0.19	0.42	0.88
	40%	5%	40%	15%		43%	20%	20%	17%		10%	20%	22%	48%	

Discharge	Peak Flow Rate - Historical Conditions A	B	C	D	100 yr Q (cfs)	Peak Flow Rate - Allowed Developed Conditions A	B	C	D	100 yr Q (cfs)	Peak Flow Rate - Proposed Conditions A	B	C	D	100 yr Q (cfs)
Offsite Basin	11.00	1.91	20.29	11.07	44.26	11.82	7.64	10.14	12.54	42.15	2.75	7.64	11.16	35.42	56.97
Lot 22	1.65	0.00	0.00	0.00	1.65	0.71	0.48	0.61	0.75	2.52	0.16	0.46	0.67	2.12	3.41

Volume Six Hour	Runoff Volume - Historical Conditions Six Hour Storm				100 yr V (cu-ft)	Runoff Volume - Allowed Developed Conditions Six Hour Storm				100 yr V (cu-ft)	Runoff Volume - Proposed Conditions Six Hour Storm				100 yr V (cu-ft)
Offsite Basin	14,087	2,455	27,534	18,890	62,966	15,144	9,818	13,767	21,408	60,138	3,522	9,818	15,144	60,447	88,931
Lot 22	2,108	0	0	0	2,108	907	588	824	1,282	3,600	211	588	907	3,619	5,324

Volume Ten Day	Runoff Volume - Historical Conditions Ten Day Storm Event	100 yr V (cu-ft)	Runoff Volume - Allowed Developed Conditions Ten Day Storm Event	100 yr V (cu-ft)	Runoff Volume - Proposed Conditions Ten Day Storm Event	Differential	100 yr V (cu-ft)
Offsite Basin		81,376		81,002			147,842
Lot 22		2,108		4,849		4001 cf	8,850



MARK	DATE	BY	REVISION

DESIGNED BY: M.H.B.
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GRADING AND DRAINAGE PLAN

El Camino Arroyo
Grading and Drainage Analyses
8801 Glendale Ave, North Abq. Acres

DRAWING NUMBER
FIG.6

RECEIVED
AUG 17 2012
HYDROLOGY SECTION