FILE PATH

DRAINAGE (CONCEPTUAL) PLAN

PRECIPITATION ZONE 2

SUMMARY OF DRAINAGE COMPUTATIONS, DEVELOPED (100YR/6HR)

INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, IDENTIFIED AS SUBDIVISION OF TRACT T—4, VISTA DEL NORTE, IS LOCATED IN THE MORTH VALLEY JUST SOUTH OF PASEO DEL NORTE BUD, AND EL PUEBLO ROAD, AND WEST OF AND ADJACENT TO THE EMAPERA MORTH DIVERSION CHANNEL TRACT T—4 IS CURRENILY A VACANT TRACT CONSISTING OF 22 654 ACRES, AND IS PROPOSED TO BE SUBDIVIDED INTO 13 LOTS, RANGING IN SIZE FROM 0 5245 ACRES TO 4.3973 ACRES. THE TRACT IS ZONED M—2.

THIS PLAN AMALYZES DRAINAGE FROM ONLY IR 1-4, RUNDFF WILL DISCHARGE TO POND LOCATED ON TR U-1 (USE LOMITAS BUSINESS PARK SUBDIMISION) THE STORM SEWER IS SIZED TO ACCOMODATE RUNOFF FROM TR 1-4 THIS TRACT WAS IDENTIFIED ON A MASTER DRAINAGE PLAN TO ALLOW DISCHARGE OF THE RUNOFF TO A REGIONAL DETENTION POND LOCATED ON TR U-1, WEST OF TR T-4.

THIS SUBMITIAL IS MADE IN SUPPORT OF SUBDIVISION PLAT, SITE PLAN FOR SUBDIVISION, GRADING PERMIT AND APPROVALS FOR CONSTRUCTION PURPOSES

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE SOUTH SIDE OF PASEO DEL NORTE BLYD. AND EL PUEBLO ROAD, WEST OF AND ADJACENT TO THE AMECAN NORTH DIVERSION CHANNEL AS SHOWN OR JOUR ATLAS PAGE D-16. THE CURRENT LEGAL DESCRIPTION IS TRACT T-4, VISIA DEL NORTE, AS SHOWN BY PANEL 136 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEAK TORB BETWALLIO COUNTY, NEW MEXICO, SEPTEMBER 2D, 1996, THIS SITE DOES NOT LE WITHIN A DESIGNATED FLOOD HAZARD ZONE THE SITE DOES IN ADJACENT TO THE NORTH DIVERSION CHANNEL, DESIGNATED AS BRING A FLOOD HAZARD ZONE AS TROOD PANEL TO THE NORTH DIVERSION CHANNEL, DESIGNATED AS BRING A FLOOD HAZARD ZONE AS

EXISTING CONDITIONS

AT PRESENT, THE SITE IS VACANT. THE SITE GENERALLY SLOPES FROM THE NORTHEAST CORNER TO THE WEST AND THE OUTHWEST. THIS SITE IS NOT SUBJECT TO OFFSITE FLOWS AS THE LANDS TO THE WEST AND SOUTH ARE MUCH LOWER IN ELEVATION THAN THE SITE, THE NORTH DIRECTION OF THE SITE, THE LECKATION THAN THE SITE, THE MORTH AND WEST NORTH OF THE SITE AT A LOWER ELEVATION THAN THE SITE, AND RUNGEF GENERATED FROM THE ROAD FLOWS TO THE SITE AT A LOWER ELEVATION THAN THE SITE, AND RUNGEF GENERATED FROM THE ROAD FLOWS TO THE NORTH AND WEST AND WILL NOT IMPACT THIS SITE.

THE LAND TO THE SOUTH HAD BEEN DEVELOPED INTO RESIDENTIAL LOTS, THE LAND TO THE WEST CURRENTLY VACANT, BUT IS IN THE PROCESS OF BEING DEVELOPED INTO INDICIDATE LOTS. DEVELOPED CONDITIONS - JACS LANE

THE TRACT WILL BE SUBDIVINED INTO IS LOTS RANGING AN SIZE FROM 0.5245 ACRES TO 4.3973 ACRES, THE TRACT WILL BE SERVED BY A PA AND ENDERNO PER EXTENSION FORM THE WORTHWEST CORNER OF THE TRACT THROUGH THE PROPERTY AND TERMINATE AT A CUIL-DE-SAC AT THE MORTH EDGE OF 1015 SEAZ THE RANGINGTH FROM THE FROM THE FROM THE FROM THE FROM THE LOW SPOT FROM THE STANDING FROM THE CUIL-DE-SAC SOUTH TO THE LOW SPOT THE SUFF WILL BE DAVISED TO DIRECT THROW THE RANGING FROM THE SUBJECT THE ROUNGE FROM THE CONSIDERATION THE ROUNGE THROUGH THE ROUNGE WEST FROM THE ROUNGE THROUGH THE ROUNGE AND DRANGE FLAN. V. CALCULATIONS

CACCULATIONS ANALYTING THE SITE IN THE DEPELOPED CONDITION FOR THE 100-YEAR, 6-HOUR RAWHALL YEAR HAVE BEEN PREPARED FOR THIS PROLECT THE PROCEDURE FOR A LACES OF SMALLER BASINS, AS SET FORTH IN THE RELISION OF SECTION 22, HYDROLGOY OF THE DEPLOYER FOR THE MALLER BASINS, AS SET FORTH IN THE RELISION OF SECTION 22, HYDROLGOY OF THE DEPLOYER FOR THE MALLER BASINS, AS SET FORTH IN THE RELISION OF SECTION 22, HYDROLGOY OF THE DEPLOYER BASING AND THE MALLER BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERALED.

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THE SITE WAS SPUT INTO 13 SUB-BASINS ((DENTIFIED AS SUB-BASIN I-1 THROUGH SUB-BASIN I-13). SUB-BASINS I-1 THRU I-7 ARE (COATED ON THE EAST SUB-BOSED OF THE PROPOSED ROLDWAY, SUB-BASINS I-8 THRU I-13 ARE (COATED ON THE WIST SUB-BASINS I-8 THRU I-13 ARE (COATED ON THE WORTH PROPERTY LINE OF THE SITE ROLDWAYS SUB-BASIN I-1 (0.31 AC) IS LOCATED ON THE WORTH PROPERTY LINE OF THE SITE AND INCLUDES A PORTION OF THE RANDOR RIGHT-FINANT SUB-BASIN I-1 (0.45), LOCATED ON THE SOUTH PROPERTY LINE OF THE SITE FROM SUB-BASIN I-8 (0.16 AC), LOCATED ON THE SOUTH PROPERTY LINE OF THE SITE WILL ALSO CONTINUE TO RUN OFF-SITE FOLLOWING THE SOUTH PROPERTY LINE OF THE SITE WILL ALSO CONTINUE TO RUN OFF-SITE FOLLOWING THE COMPLETION OF THE IMPROVENCINES

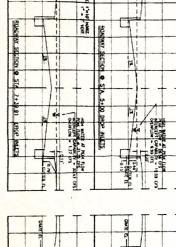
100% OF THE RUNDEF FROM SUB-BASA IN-2 THROUGH SUB-BASA IN-7 AND SUB-BASINS IN-9 THROUGH IN-13 WILL BE INTERCEPTED BY THE PROPOSED ROWEWN AND WILL BE DIFECTED TO THE PROPOSED ROWEWN AND WILL BE DIFECTED TO THE REST PROPERTY LINE AND TO THE DETERMINENT PAND DESCRIBED JASONE.

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DRAINAGE AREA		AND	LAND TREATMENT (ACRES)	4	CRES)		i i	
	(ocres)	>	œ	C	0	-	(CFS)	(A)
Sub-basin 1-1	0.31		0.03		0.28		1.39	0.05
Sub-basin 1-2	2.42		0.24		2.18		10.80	0.40
Sub-basin I-3	2.17		0.22		1.95		9.69	0.36
Sub-basin 1-4	2.33		0.23		2.10		10.43	0.39
Sub-basin 1-5	1.26		0.13		1.13		5.56	0.21
Sub-basin 1-6	1.62		0.16		4		7.15	0.26
Sub-basin 1-7	5.61		0.56		5.04	7	25.12 0.93	0.93
Sub-basin 1-8	0.16		0.02		0.14		0.73	0.73 0.03
Sub-basin 1-9	2.78		0.28		2.52		12.57 0.47	0.47
Sub-basin I-10	0.81		0.08		0.72		3.73	3.73 0.14
Sub-bosin 1-11	0.64		0.06		0.58		2.94	2.94 0.11
Sub-basin 1-12	1.18		0.12		1.06		5.30	5.30 0.20
Sub-bosin (-13	1,36		0.14		1 22		6 0 9	6 09 0.23
TOTAL SB 1-1 and SB 1-8 TOTAL SB 1-1 THRU 1-7 AND 1-9 THRU 1-13	22.65 nd S8 1-8 HRU 1-7	¥ O	1-9 THR	7	ü		101.50 2.12 99.38	(2.0%)

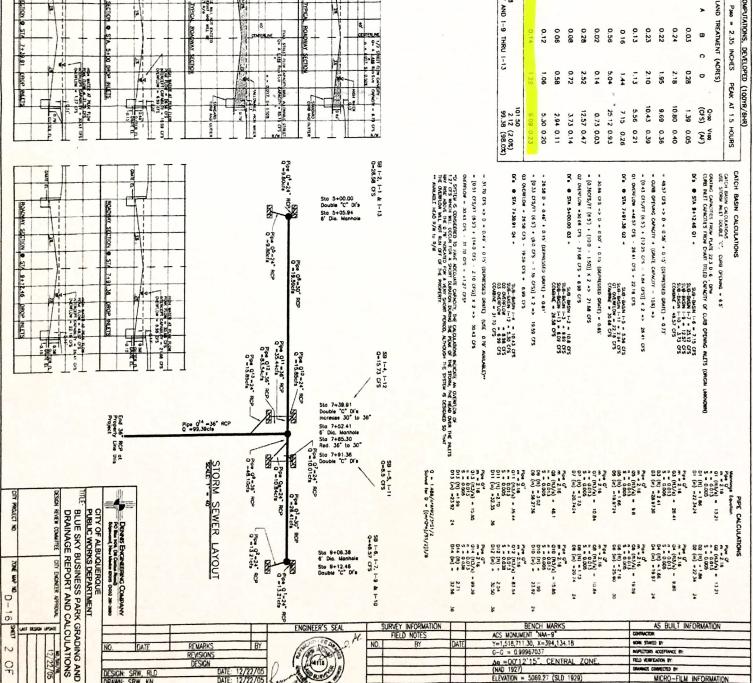
Solution of the solution of th		TO STELLA S. COMMANDED TO JAMES 127 OF SAME AND TO SAME AND TO SAME AND THE AD TO MADE AND THE AD TO SAME AND THE ADDITIONAL T	- [0:5] CFS/FT (6:57) + (14.0 CFS - 2.10 CFG)] x 2 -> O(EB1ON - 30.43 CFS - 31.70 CFS - +1.27 CFS+	- 31.70 CFS -> 0 - 0.49' + 0 15' (DEPHESSED GRATE)	101.50 2.12 (2.0%) 07: • 57A 7-3891 24 . 93.36 (98.0%)	* [0.33 CFS/FT (6.5") + (9.0 CFS - 1.55 CFS)] x 2 =>  0.3 ONCHEON = 26.56 CFS - 19.59 CFS = 8.90 CFS	1.06 5.30 0.20 - 28.58 D - 0.46" + 0.15" (DEPRESSED GRATE) - 0.61"	0.58 2.94 0.11 Dr. • SIA 5+00.00 03 -	227 0.47		0.14 0.73 0.03 = 30.66 GFS => 0 = 850' + 0.15' (DEPRESSED GRATE) = 0.65'	5.04 25.12 0.93	1.44 7.15 0.26 D'a o STA 7+91.36 02 -	1.13 5.56 0.21 Q1 OVERTOW #4857 CFS - 2841 CFS - 2216 CFS	2.10 10.43 0.39 - [0.43 C/S/FT (6.5) + (12.25 C/S - 1.84 C/S)] × 2 ->	- CHRO OPENING CAPACITY - (GRATE CAPACITY - 15%) ->
Di's Di's 11	SS 1−4, 1−12 Q+15-73 C/S	"OF SYSTEM & COMMERCED IN AME ADMINISTRATION, THE CALCADITIONS SECRETE AN OMBINE OF BETT AND THE COMMERCED OF THE STORM, THE HEAD CHEST INFORMATION DEPOSIT OF THE STORM, THE HEAD CHEST INFORMATION DEPOSIT OF THE STORM, THE HEAD CHEST INFORMATION DEPOSIT OF THE STORMAN OF THE	- 210 (Fg)] x 2 -> 30.43 (Fg) 5 - +1.27 (Fg)	(DEPRESSED GRATE) (USE 0.79" AVAILABLE) **		CFS 1.55 CFS)] x 2 -> 19.59 CFS 19.59 CFS 8.99 CFS	SED GRATE) - 0.61"	SUB-BASN I-2 = 10.8 CFS SUB-BASN I-3 = 9.60 CFS SUB-BASN I-13 = 6.09 CFS COMBNE = 26.56 CFS	UTS = 898 CFS	0)] x 2 -> 21.60 CFS	(DEPHESSED GRATE) - 0.65"	OT ORINE = 30 66 CFS	SUB-BASH I-5 - 5.56 CFS		1.84 CFS)] × 2 => 2641 CFS	CAPACITY - YEST - Y

Ag =00'12'15", CENTRAL Z (NAD 1927) ELEVATION = 5069.27 (SLD 1929)



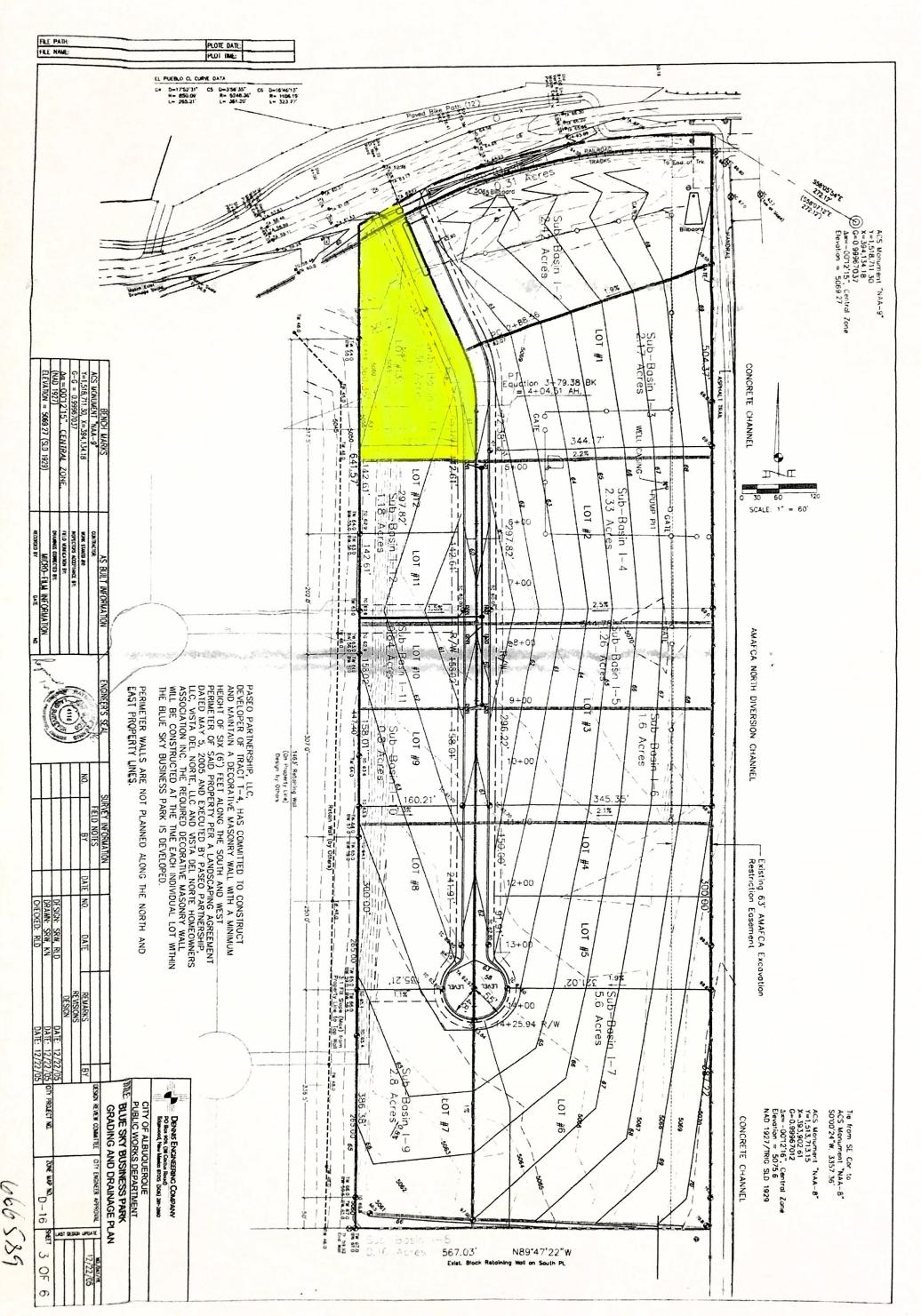
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