CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



November 15, 2019

David Thompson, PE Thompson Engineering Consultants, Inc. PO Box 65760 Albuquerque, NM 87193

RE: San Antonio RV Storage 6300 San Antonio NE Grading and Drainage Plan Engineer's Stamp Date: 10/24/19 Hydrology File: E18D062

Dear Mr. Thompson:

PO Box 1293

Based upon the information provided in your submittal received 10/28/2019, the Grading and Drainage Plan is approved for Building Permit, Grading Permit and for action by the DRB on the Site Plan for Building Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department

DRAINAGE PLAN: SITE AREA: 3.0878 ACRES **EXISTING DRAINAGE CONDITIONS:** IS LAND TREATMENT A. THE PROPERTY.

LEGAL DESCRIPTION: TRACT 1-B, P & J SUBDIVISION

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0137H) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH SETION 22 OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), ENTITLED "DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL." THE DESIGN STORM USED FOR BOTH UNDEVELOPED AND DEVELOPED CONDITIONS IS THE 100-YEAR, 24-HOUR STORM EVENT FOR RUNOFF. THE SITE IS LOCATED IN ZONE 3 SO THE 100-YEAR, 24-HOUR STORM EVENT IS 2.60 INCHES. UNDER EXISTING CONDITIONS, THE TRACT IS ON TOP OF A LANDFILL SO IT

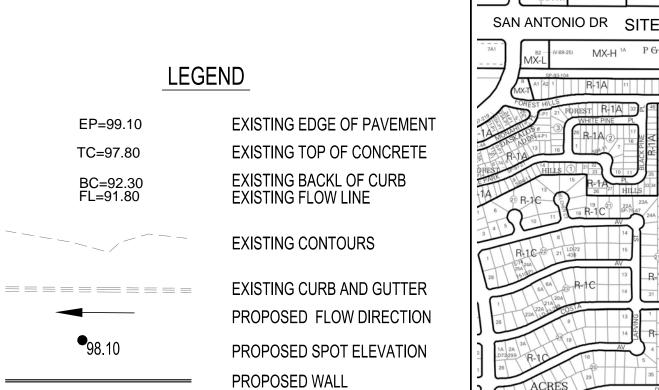
THE TRACT IS LOCATED IN THE NORTHEAST ALBUQUERQUE ON THE SOUTH SIDE OF SAN ANTONIO JUST WEST OF LOUISIANA. CURRENTLY THE SITE DRAINS FROM NORTHEAST TO SOUTHWEST TO THE SOUTH PINO ARROYO. THE EXISTING PEAK RUNOFF FROM THE SITE UNDER EXISTING CONDITIONS IS 5.77 CFS DURING A 100-YEAR, 6-HOUR STORM. THERE ARE NO OFF-SITE FLOWS THAT REACH

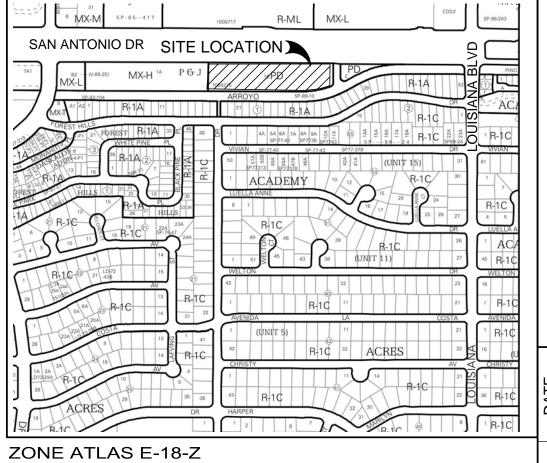
DEVELOPED DRAINAGE CONDITIONS:

THIS PROJECT INVOLVES THE CONSTRUCTION OF AN RV STORAGE AREA WITH PARKING AND LANDSCAPING. THE SITE HAS PAVED DRIVE AISLES, GRAVEL RV PARKING AREAS WITH CANOPIES AND LIMITED LANDSCAPING. THE SITE DRAINS FROM EAST TO WEST TO THE SOUTHWEST CORNER OF THE SITE. THE SITE DRAINS 13.36 CFS TO THE SOUTH PINO ARROYO THROUGH A DEPRESSED CONCRETE INLET. ALL SITE AND DRAINAGE IMPROVEMENTS REQUIRE APPROVAL BY THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT BECAUSE THERE IS A LANDFILL UNDER THE SURFACE. ONE OF THE REQUIREMENTS OF ENVIRONMENTAL HEALTH IS THAT PONDING OF STORM WATER IS NOT ALLOWED ON SITE. THEREFORE, THIS SITE WILL NOT HAVE A FIRST FLUSH POND.

100-YEAR HYDROLOGIC CALCULATIONS

		LAND TREATMENT				WEIGHTED	100-YEAR PRECIPITATION					
BASIN	AREA	Α	В	С	D] E	V (6-hr)	V (6-hr)	V(24-hr)	V(24-hr)	Q	
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)	
				E	XISTING	CONDITIONS	S					
SITE	3.0880	100.00	0.00	0.00	0.00	0.66	0.17	7,398	0.17	7,398	5.77	
TOTAL RUNOFF	3.088						0.17	7,398	0.17	7,398	5.77	
				PR	OPOSE	CONDITION	IS					
SITE	3.0880	0.00	0.00	44.20	55.80	1.89	0.49	21,153	0.56	24,280	13.36	
TOTAL RUNOFF	3.088						0.49	21,153	0.56	24,280	13.36	
EXCESS PRECIP.		0.66	0.92	1.29	2.36	Ei (in)						
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _{Pi} (cfs)						
									ZONE =	3		
WEIGHTED E (in) = $(E_A)(\%A) + (E_B)(\%B) + (E_C)(\%C) + (E_D)(\%D)$						P _{6-HR} (in.) = 2.60						
V _{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12						P_{24-HR} (in.) = 3.10						
V_{10DAY} (acre-ft) = V_{6-HR} + (AD)(P_{10DAY} - P_{6-HR})/12						P_{10DAY} (in.) = 4.90						
$Q (cfs) = (Q_{PA})(A_A) + ($				(A _D)					` '			





	REVISION BY DATE			DRAWN BY: BLN	CHECKED BY:	ALE: APPROVED BY:	
-	REVISIO			≡CT:		IORIZ. SCALE:	CON E.
	NO.			ROJECT:	ATE:	IORIZ	TG D/

ALL SPOT ELEVATIONS ARE AT FLOW LINE

PROPOSED SWALE

PROPOSED ASPHALT

PROPOSED CONCRETE

