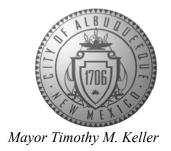
CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



May 17, 2021

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Auto Nation

Conceptual Grading & Drainage Plan Engineer's Stamp Date: 05/03/21 Hydrology File: B18D027

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 05/04/2021, the Conceptual Grading & Drainage Plan is preliminary approved for action by the DRB on Site Plan for

Building Permit.

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 (Doug Hughes, PE, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior

to any earth disturbance.

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

www.cabq.gov

PO Box 1293

Albuquerque

NM 87103

Sincerely,

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

Renée C. Brissette



City of Albuquerque

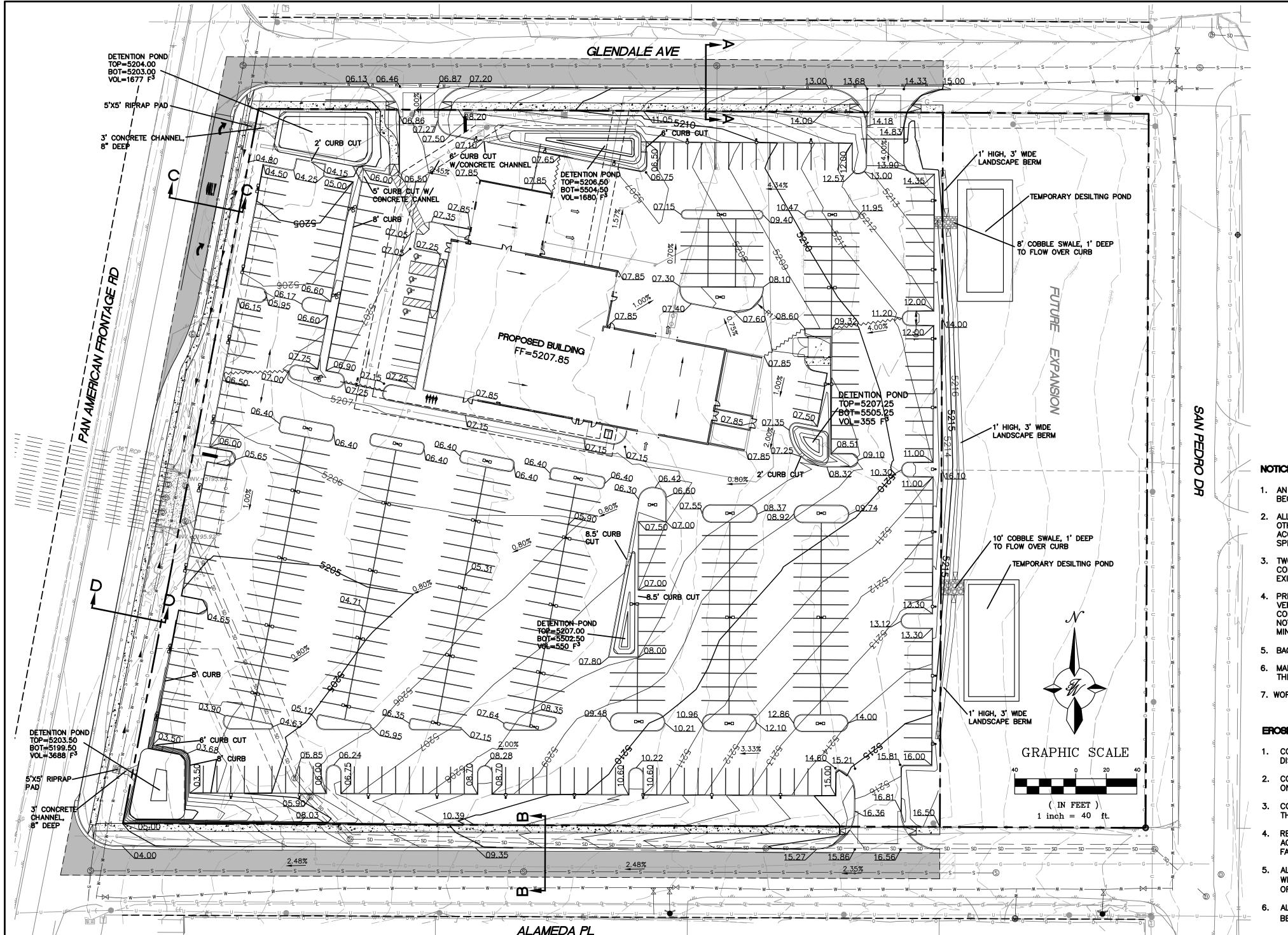
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Autonation	_Building Pe	rmit #:	Hydrole	Hydrology File #:				
				Work (Work Order#:			
Legal Description: Lot 13	,14,15, 18, 19, 20,	21 North Albu	uquerque Acres					
City Address:								
Applicant: Tierra West, LLC				Contact:	Jonanthan Niski			
Address: 5571 Midway Par	k Place NE Albuqi	uerque NM 87	109					
Phone#: 505-858-3100		_ Fax#: 505-8	58-1118	E-mail: _	jniski@tierrawestllc.com			
Other Contact:			Contact:					
Address:								
Phone#:		_Fax#:		E-mail:	E-mail:			
TYPE OF DEVELOPMEN	T:PLAT	(# of lots)	RESIDENCE _	DRB SI	TE X ADMIN SITE			
IS THIS A RESUBMITTAL?	Yes	XNo						
DEPARTMENT TRA	NSPORTATION	<u>X</u> HYI	DROLOGY/DRAINAC	3E				
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITEC PAD CERTIFICATION CONCEPTUAL G & D II GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER II FLOODPLAIN DEVELO ELEVATION CERTIFIC CLOMR/LOMR TRAFFIC CIRCULATIO TRAFFIC IMPACT STU STREET LIGHT LAYOU OTHER (SPECIFY) PRE-DESIGN MEETING?	PLAN PLAN PHENT PERMIT A ATE ON LAYOUT (TCL IDY (TIS) JT	APPLIC	BUILDING CERTIFICA PRELIMINA SITE PLAN X SITE PLAN FINAL PLA SIA/ RELEA FOUNDATI GRADING SO-19 APPI PAVING PR GRADING/ WORK ORD CLOMR/LO FLOODPLA OTHER (SE	PERMIT APPR TE OF OCCUP ARY PLAT AP FOR SUB'D A FOR BLDG. F AT APPROVAL ASE OF FINAN ON PERMIT APPR PERMIT APP PERMIT APPR PER	PANCY PROVAL APPROVAL PERMIT APPROVAL CIAL GUARANTEE APPROVAL ROVAL ICATION MENT PERMIT			
DATE SUBMITTED:	5/4/2021	By:	Jonanth	nan Niski				
COA STAFF:			SUBMITTAL RECEIVED:					

FEE PAID:____



NOTICE TO CONTRACTORS

LEGEND

x 5048.25

x 5048.25

AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

---- SAWCUT LINE

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.

CURB & GUTTER

BOUNDARY LINE

BUILDING

— CONTOUR MAJOR

FLOW ARROW

EXISTING CURB & GUTTER

EXISTING BOUNDARY LINE

EXISTING CONTOUR MAJOR

EXISTING CONTOUR MINOR

EXISTING SPOT ELEVATION

EXISTING LIGHT STANDARD

CONTOUR MINOR

---- EASEMENT

-----RIGHT-OF-WAY

- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- . WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS

EROSION CONTROL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT
- THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
- 6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR ₹" GRAVEL

EXISTING DRAINAGE:

THIS SITE IS CURRENTLY VACANT AND IS LOCATED ON THE WEST SIDE OF SAN PEDRO BETWEEN GLENDALE AVENUE AND ALAMEDA PLACE. THE SITE IS BOUNDED BY ROADS ON ALL FOUR SIDES AND CONTAINS APPROXIMATELY 5.29 ACRES. THE SITE DRAINS FROM EAST TO WEST AND INTO A DRAINAGE SWALE ALONG THE EAST SIDE OF PAN AMERICAN FREEWAY. THE SWALE THEN DRAINS TO TWO EXISTING 36" RCP PIPES THAT DRAIN TO THE WEST UNDER INTERSTATE 25 AND INTO AN ARROYO. ACCORDING TO AN APPROVED DRAINAGE PLAN FOR THE SAN PEDRO STORM DRAIN PROJECT (CITY PROJECT NO. 5304.91) COMPLETED BY THOMPSON ENGINEERING IN JANUARY OF 2010, THIS SITE IS CONTAINED WITHIN BASIN 116.24. THAT BASIN ALSO INCLUDES 2 LOTS TO THE EAST OF THIS PROJECT THAT ARE OWNED BY THIS SAME LAND OWNER. THAT BASIN WAS DESIGNED TO DRAIN 30.0 CFS TO THE SAN PEDRO STORM SEWER. THE SITE IS NOT LOCATED WITH IN A FLOOD PLAIN AS SHOWN ON THE FIRM MAP. THIS PROJECT DOES RECEIVE OFFSITE FLOW FROM THE 2 LOTS TO THE EAST ALONG SAN PEDRO.

PROPOSED DRAINAGE:

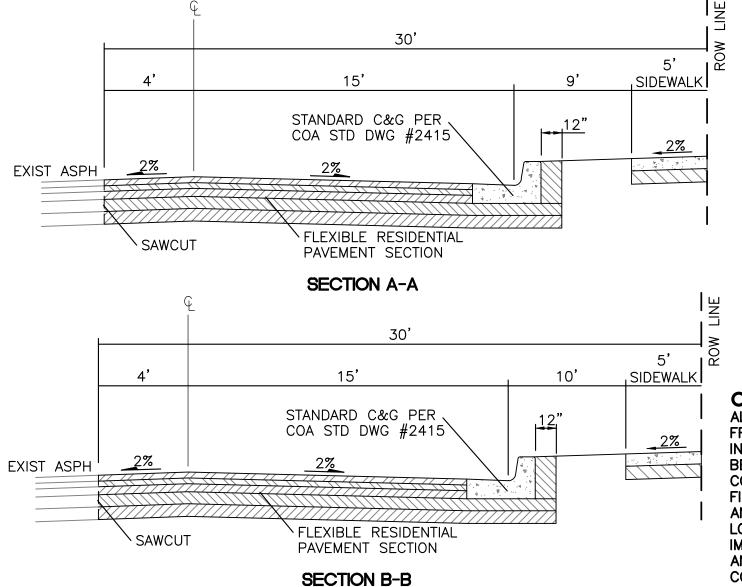
THE SITE WILL CONTINUE TO DRAIN FROM EAST TO WEST INTO THE EXISTING DRAINAGE SWALE ALONG PAN AMERICAN FREEWAY AND IS DIVIDED INTO THREE BASINS. THE OFFSITE LOTS TO THE EAST WILL CONTINUE TO DRAIN THROUGH THIS SITE VIA TEMPORARY DESILTING PONDS LOCATED ALONG THE PROPERTY LINE. BASIN OF-1 WILL DRAIN A 100YR, 6-HR FLOW OF 1.67 CFS TO BASIN "B" WHILE BASIN OF-2 WILL DRAIN A 100YR, 6-HR FLOW OF 4.10 CFS TO BASIN "C".

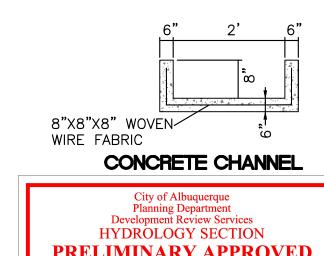
BASIN "B" WILL GENERATE A 100YR, 6-HR FLOW OF 4.47 CFS WHICH WILL BE DIRECTED TO A WATER QUALITY POND. BASIN "B" WILL PASS THROUGH THE OFFSITE FLOWS FROM BASIN OF-1. THE POND WILL CONTAIN THE REQUIRED WATER QUALITY VOLUME AND THEN OVERFLOW TO BASIN "A".

BASIN "A" WILL GENERATE A 100YR, 6-HR FLOW OF 2.36 CFS WHICH WILL BE DIRECTED TO A WATER QUALITY POND IN THE NORTHWEST CORNER OF THE PROJECT. BASIN "A" WILL PASS THROUGH THE FLOWS FROM BASIN "B" AND BASIN OF-1. THE POND WILL CONTAIN THE REQUIRED WATER QUALITY VOLUME AND THEN BE ALLOWED TO OVERFLOW INTO THE EXISTING DRAINAGE SWALE ALONG PAN AMERICAN FREEWAY AS IT DOES IN THE EXISTING CONDITION.

BASIN "C" WILL GENERATE A 100YR, 6-HR FLOW OF 14.26 CFS WHICH WILL BE DIRECTED TO TWO WATER QUALITY PONDS. BASIN "C" WILL PASS THROUGH THE FLOWS FROM BASIN OF-2. THE COMBINED VOLUME OF THE PONDS CONTAIN THE REQUIRED WATER QUALITY VOLUME. ALL FLOWS EVENTUALLY WILL PASS THROUGH THE WATER QUALITY POND LOCATED IN THE SOUTHWEST CORNER OF THE PROPERTY AND OVERFLOW INTO THE EXISTING DRAINAGE SWALE ALONG PAN AMERICAN FREEWAY AS IT DOES IN THE EXISTING CONDITION.

THE EXISTING DRAINAGE SWALE ALONG PAN AMERICAN FREEWAY WILL BE CLEANED AND LINED WITH COBBLE TO PREVENT EROSION. THE TOTAL DISCHARGE TO THE SWALE IS 26.86 CFS WHICH IS WELL BELOW THE 30.0 CFS ALLOWED PER THE APPROVED DRAINAGE ANALYSIS.

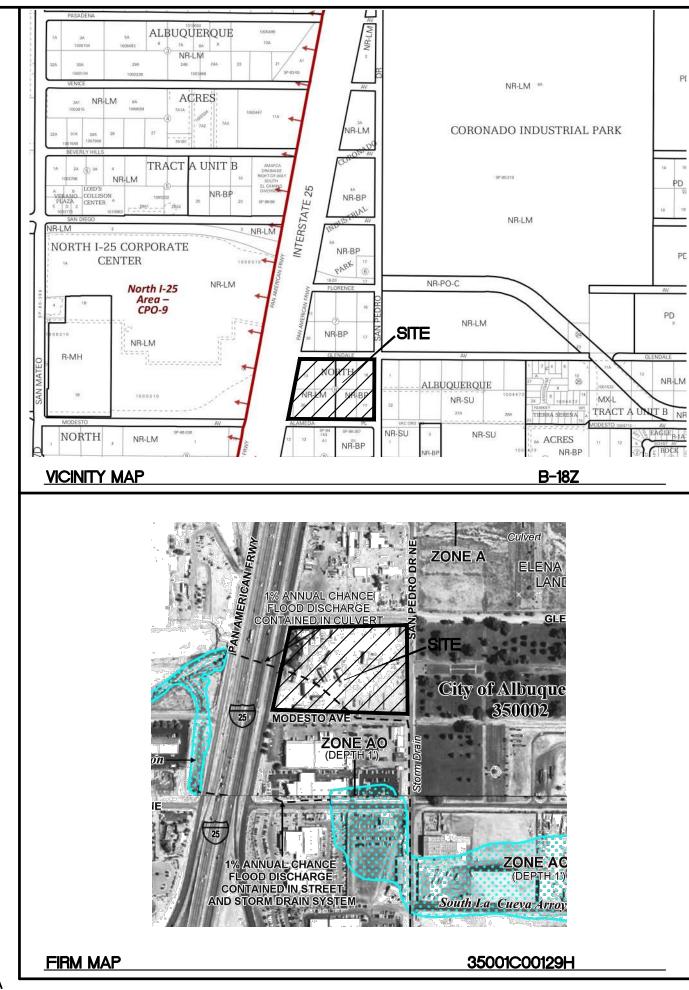




PRELIMINARY APPROVED DATE:____ 05/17/21 BY: B18D027 CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED IN THEM AND SUBMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL.

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY NOTICE TO CONTRACTOR (SPECIAL ORDER 19 'SO-19")

- BUILD SIDEWALK CULVERT PER COA STD DWG 2236. CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A
- AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN
- CITY RIGHT-OF-WAY. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH
- APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" [OR (505) 260-1990] FOR THE LOCATION
- OF EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL
- NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF
- THE PROPERTY BEING SERVED. WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS. CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505)

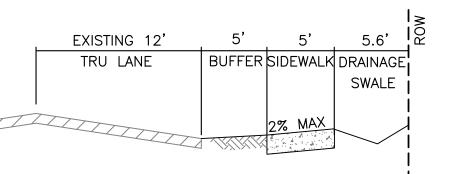
BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.

857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND

EXIST EDGE OF PAVEMENT

EXISTING 12' 12' TURN LANE 5.6' BUFFER SIDEWALK DRAINAGE TRU LANE SWALE WHITE STRIPI

SECTION C-C



SECTION D-D



					Weig	hted E I	Method	d (Develo	ped)						
On-Site	Basins								Service .							
											5	100-Year	3		10-Year	
Basin	Area	Area	Treat	tment A	Trea	tment B	Treat	ment C	Treat	tment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
Α	26,610	0.61	0%	0	24%	0.15	0%	0.00	76%	0.46	1.963	0.100	2.36	1.220	0.062	1.4
В	49,337	1.13	0%	0	20%	0.23	0%	0.00	80%	0.91	2.024	0.191	4.47	1.268	0.120	2.6
С	154,430	3.55	0%	0	16%	0.57	0%	0.00	84%	2.98	2.085	0.616	14.26	1.316	0.389	8.6
												Total	21.09			
Off-Site	Basins															
												100-Year			10-Year	
Basin	Area	Area	Treat	tment A	Trea	tment B	Treat	ment C	Treat	ment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
OF-1	17,982	0.41	0%	0	15%	0.06	0%	0.00	85%	0.35	2.101	0.072	1.67	1.329	0.046	1.0
OF-2	44,159	1.01	0%	0	15%	0.15	0%	0.00	85%	0.86	2.101	0.177	4.10	1.329	0.112	2.4
												Total	5.77			
Equatio	ns:															
						Excess Pre	cipitation,	E (inches)		Peak	Discharge (cf	s/acre)				
Weighte	d E = Ea*Aa + Eb*A	hb + Ec*Ac	+ Ed*Ad	/ (Total Area	a)	Zone 2	100-Year	10 - Year		Zone 2	100-Year	10 - Year				
						Ea	0.62	0.15		Qa	1.71	0.41				
Volume :	= Weighted D * Tota	al Area				E _b	0.80	0.30		Qb	2.36	0.95				
						Ec	1.03	0.48		Qc	3.05	1.59				
Flow = C)a * Aa + Qb * Ab +	Oc * Ac + C)d * Δd			E _d	2.33	1.51		Qd	4.34	2.71				
i low - G	a na . Qu nu .	QU NO. G	tu /tu			-u	2.00	1.01		Q 0	4.04	2.71				
Water Q	uality Calculations															
Basin	Impervious Area	SWQV	Storn	n Water	Stori	m Water										
	(sf)	(in)		2		Vol. (ac-ft)										
Α	20,224	0.42				.016										
В	39,470	0.42		381		.032										
C	129,721	0.42		540		.104										
OF-1	15,285	0.42		535	0.012											
14/h////		7982 (1916)	100	22/03/12												

				Char	nnel Cap	acity				
	Top Width	Bottom Width	Depth	Area	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		(%)	(cfs)	(cfs)	(ft/s)
Channel	3	3	0.67	2.01	4.34	0.4631	1	13.79	8.50	4.23
Channel	4	4	0.67	2.68	5.34	0.5019	1	19.40	18.36	6.85
Manning's Equ	ation:									
Q = 1.49/n * A * R	^(2/3) * S^(1/2	2)								
	Area									
R=	D/4									
S =	Slope									
n =	0.013									

0.030

Curb Opening Capacity

Weir Equation:

 $Q = CLH^{3/2}$

37,535 0.42

1314

Q=Flow C=2.95

L= Length of weir H = Height of Weir

Basin "A" Curb Openings

 $Q = 2.95*5.0*0.67^{3/2}$

Q = 8.90 cfs < Q = 8.50 cfs

Basin "B" Curb Openings

 $Q = 2.95*6*0.5^{3/2}$

Q = 6.26 cfs < Q = 6.14 cfs

Upper Basin "C" Curb Openings

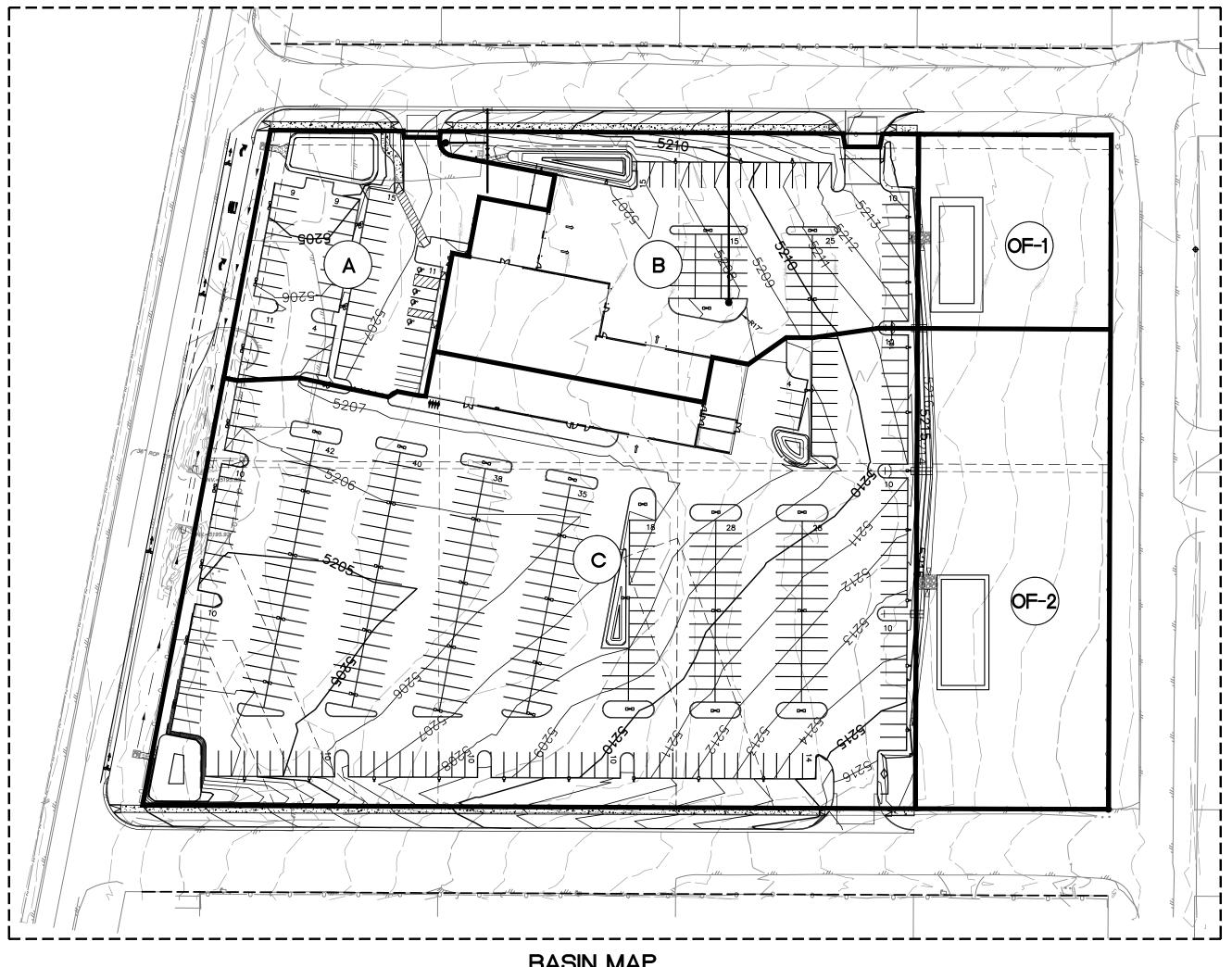
 $Q = 2.95 * 8.5 * .5^{3/2}$

Q = 8.87 cfs < Q = 8.85 cfs

Lower Basin "C" Curb Openings

 $\mathbf{Q} = 2.95 * 11.5 * .67^{3/2}$

Q = 18.61 cfs < Q = 18.36 cfs



BASIN MAP

Planning Department
Development Review Services
HYDROLOGY SECTION PRELIMINARY APPROVED DATE: 05/17/21
BY: Brisselle
HydroTrans # B18D027 THESE PLANS AND/OR REPORT ARE CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED IN THEM AND SUBMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL.

> DRAWN BY pm

DATE 5-3-21

DRAWING 2021010-GR

SHEET #

GR-2

JOB #

2021010

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

	ENGINEER'S SEAL	/
	DR. BOH	_/
	DR. BOHAND Z 7868	F
•	PROPERTY OF THE PROPERTY OF TH	
'	5-3-21	
	RONALD R. BOHANNAN P.E. #7868	

's	AUTO NATION ALBUQUERQUE, NM						
AND A	GRADING AND DRAINAGE PLAN						
	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE						

WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tiérrawestllc.com