



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** ABQ School Excellence Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_  
DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_  
Legal Description: Parcel E-1-A Land Div Plat Parcels D-1-A & E-1-A Formerly Parcel D-1 & E-1 Panorama Heights ADDN  
City Address: 13201 Lomas Blvd NE Albuquerque NM 87112

**Applicant:** Tierra West, LLC Contact: Jonathan Niski  
Address: 5571 Midway Park Place NE Albuquerque NM 87109  
Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jniski@tierrawestllc.com

**Other Contact:** \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT (# of lots) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE  ADMIN SITE

IS THIS A RESUBMITTAL? \_\_\_\_\_ Yes  No

**DEPARTMENT**  TRANSPORTATION \_\_\_\_\_ HYDROLOGY/DRAINAGE

Check all that Apply:

**TYPE OF SUBMITTAL:**

- ENGINEER/ARCHITECT CERTIFICATION
- PAD CERTIFICATION
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- DRAINAGE REPORT
- DRAINAGE MASTER PLAN
- FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ELEVATION CERTIFICATE
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- TRAFFIC IMPACT STUDY (TIS)
- STREET LIGHT LAYOUT
- OTHER (SPECIFY) \_\_\_\_\_
- PRE-DESIGN MEETING?

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

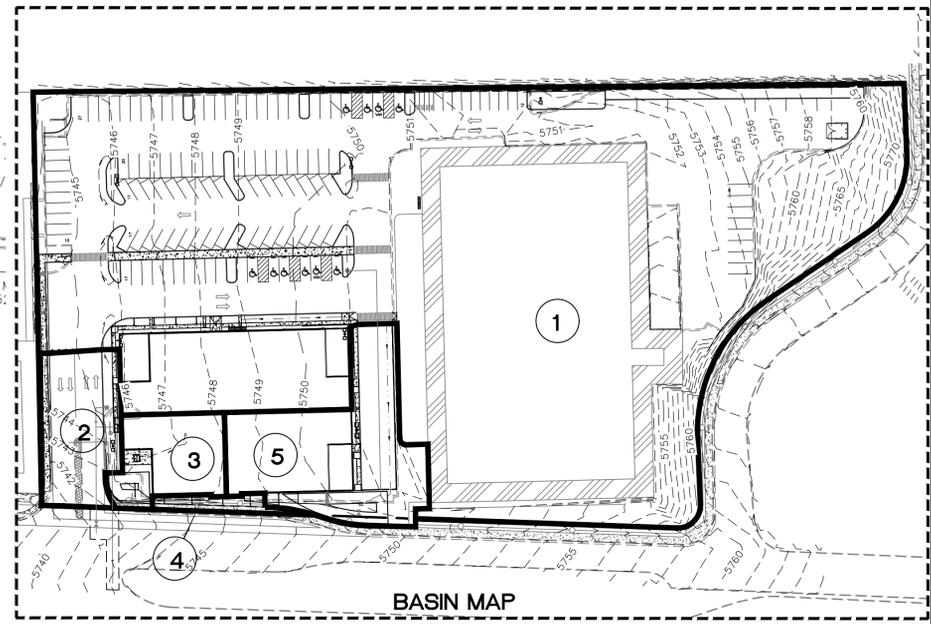
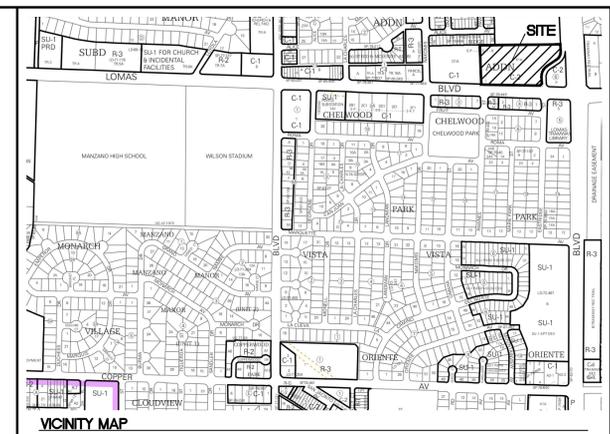
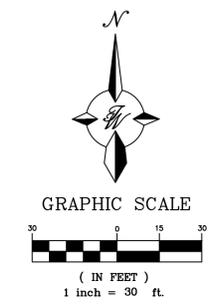
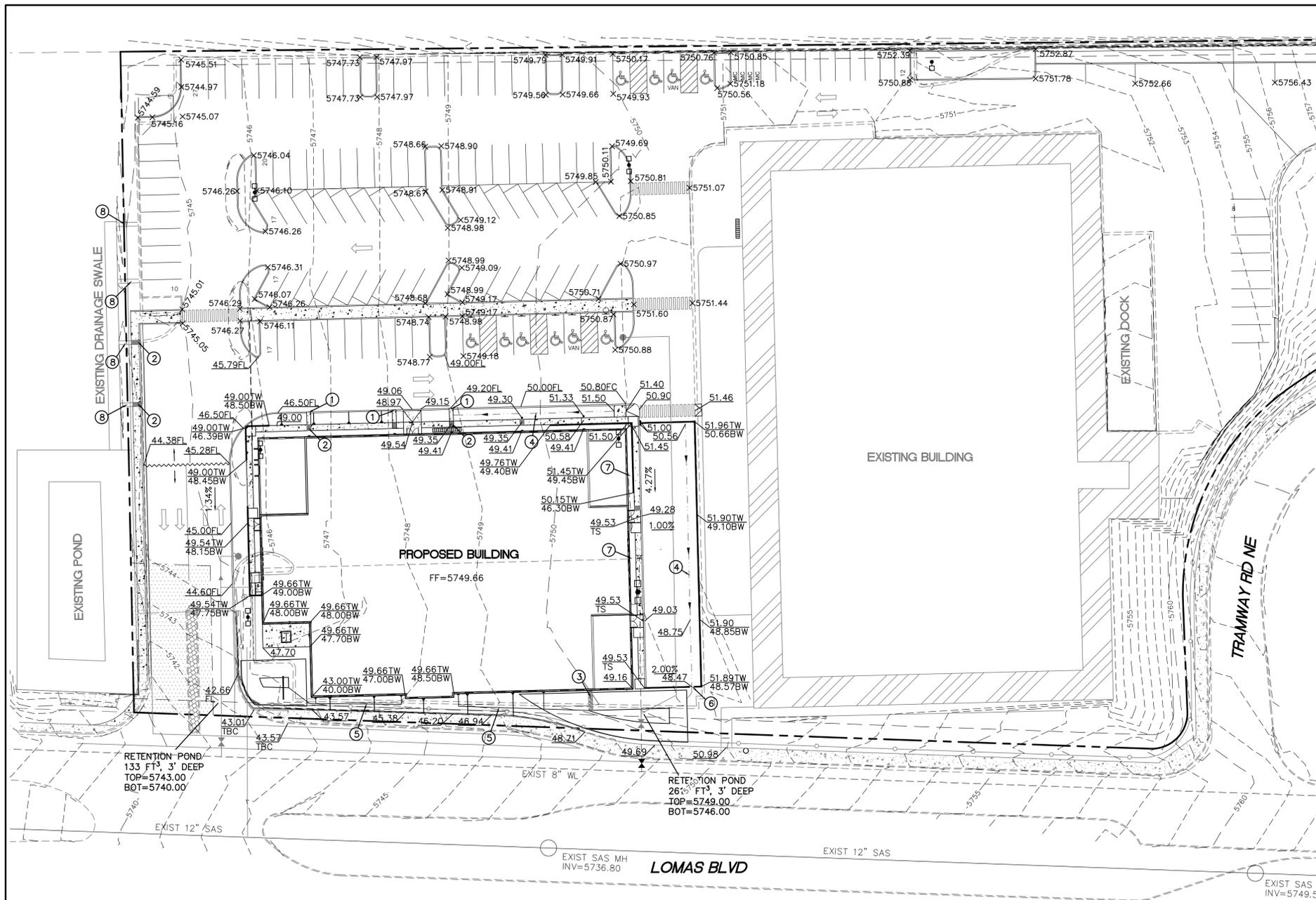
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- PRELIMINARY PLAT APPROVAL
- SITE PLAN FOR SUB'D APPROVAL
- SITE PLAN FOR BLDG. PERMIT APPROVAL
- FINAL PLAT APPROVAL
- SIA/ RELEASE OF FINANCIAL GUARANTEE
- FOUNDATION PERMIT APPROVAL
- GRADING PERMIT APPROVAL
- SO-19 APPROVAL
- PAVING PERMIT APPROVAL
- GRADING/ PAD CERTIFICATION
- WORK ORDER APPROVAL
- CLOMR/LOMR
- FLOODPLAIN DEVELOPMENT PERMIT
- OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: 11/8/2019 By: Jonathan Niski

COA STAFF: \_\_\_\_\_

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



**LEGEND**

	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	BUILDING
	SIDEWALK
	RETAINING WALL
	SPOT ELEVATION (FLOWLINE)
	SPOT ELEVATION (+5700)
	FLOW ARROW
	EXISTING CURB & GUTTER
	EXISTING BOUNDARY LINE
	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR

**KEYED NOTES**

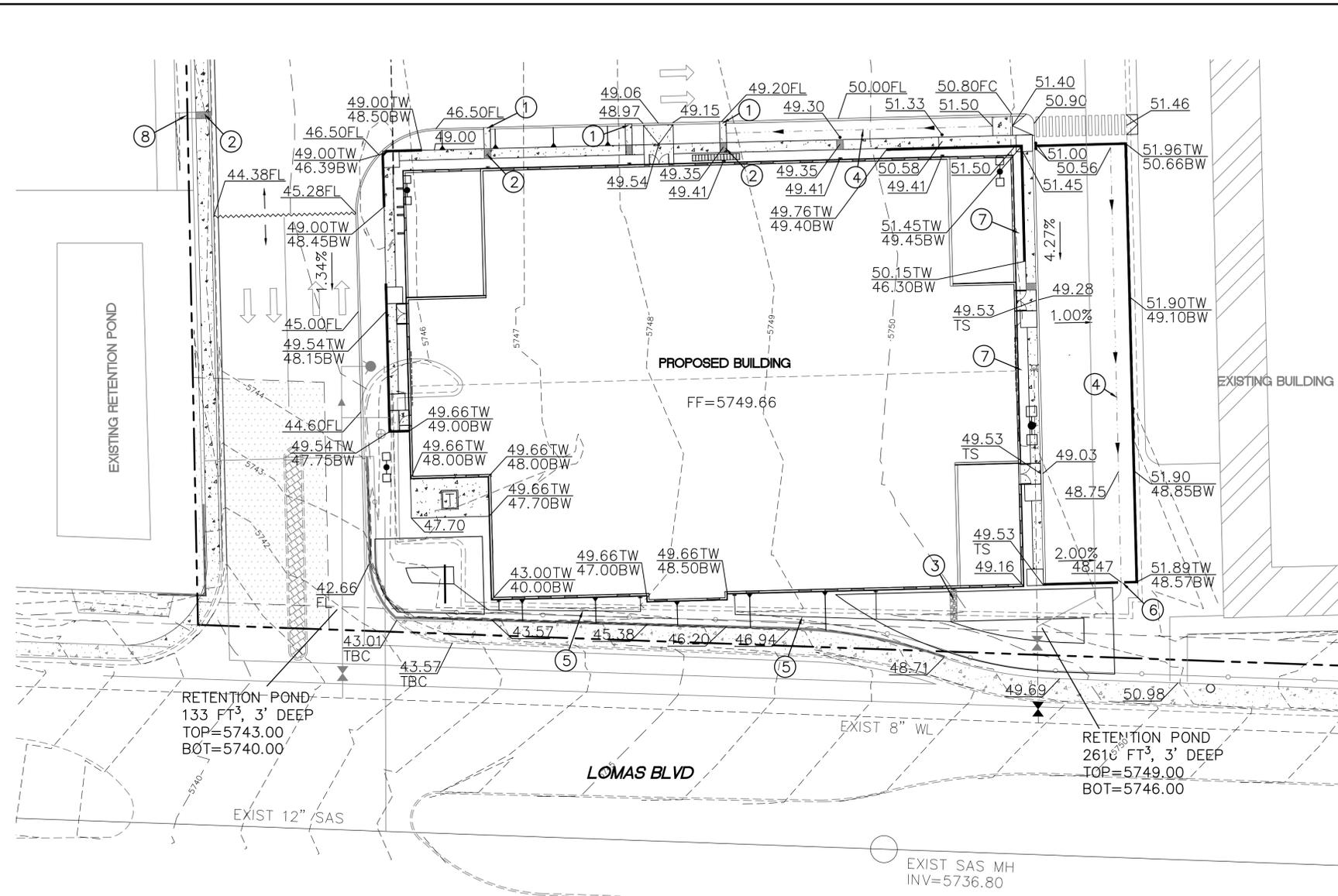
①	2' CURB CUT
②	2' SIDEWALK CULVERT PER COA STD DWG 2236 (TYP)
③	COBBLE SWALE INTO POND
④	2' SWALE
⑤	CAPTURE ROOF DRAINS IN 6" PIPE AND DAYLIGHT INTO POND
⑥	2' OPENING IN WALL FOR DRAINAGE
⑦	LANDSCAPE AREA TO DRAIN THROUGH SIDEWALK CULVERT
⑧	EXISTING RUNDOWN

- NOTICE TO CONTRACTORS**
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
  - 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.
  - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
  - 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.
  - BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
  - 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.
  - PRIOR TO WORK WITHIN THE PASEO DEL NORTE RIGHT-OF-WAY, A NMDOT PERMIT WILL BE REQUIRED.

- EROSION CONTROL NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
  - 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.
  - ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

**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.

	<b>ABQ SCHOOL OF EXCELLENCE</b> <b>OVERALL GRADING AND DRAINAGE PLAN</b>	DRAWN BY pm DATE 11-5-19 DRAWING 2019068-GR
	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	SHEET # <b>GR-1</b> JOB # 2019068



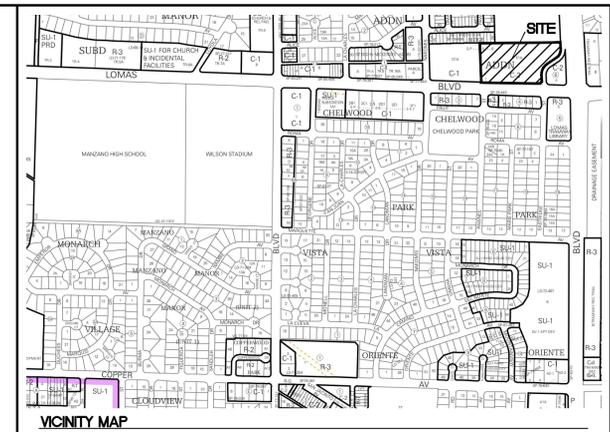
**LEGEND**

- CURB & GUTTER
- BOUNDARY LINE
- - - EASEMENT
- ▭ BUILDING
- ▭ SIDEWALK
- ▭ RETAINING WALL
- x 5048.25 SPOT ELEVATION (FLOWLINE)
- xx.xx SPOT ELEVATION (+5700)
- FLOW ARROW
- - - EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- - - 5010 EXISTING CONTOUR MAJOR
- - - EXISTING CONTOUR MINOR

- KEYED NOTES**
- ① 2' CURB CUT
  - ② 2' SIDEWALK CULVERT PER COA STD DWG 2236 (TYP)
  - ③ COBBLE SWALE INTO POND
  - ④ 2' SWALE
  - ⑤ CAPTURE ROOF DRAINS IN 6" PIPE AND DAYLIGHT INTO POND
  - ⑥ 2' OPENING IN WALL FOR DRAINAGE
  - ⑦ LANDSCAPE AREA TO DRAIN THROUGH SIDEWALK CULVERT
  - ⑧ EXISTING RUNDOWN

**EXISTING DRAINAGE CONTIDION:**  
 THE SITE IS AN EXISTING DEVELOPED LOT CONSISTING OF A SINGLE BUILDING AND PARKING LOT. THE SITE WAS ORIGINALLY APPROVED AS A GROCERY STORE IN 1995 AND THEN CONVERTED TO THE EXISTING SCHOOL IN 2016. THE SITE DRAINS FROM EAST TO WEST AND THE SURFACE RUNOFF IS CONTAINED IN A DRAINAGE CHANNEL JUST OFF-SITE ALONG THE WESTERN PROPERTY LINE. THE DRAINAGE CHANNEL DIRECTS THE FLOWS TO AN EXISTING RETENTION POND THAT HAS AN EMERGENCY OVERFLOW ONTO LOMAS BLVD. THERE IS AN EXISTING DRAINAGE EASEMENT IN PLACE FOR THE DRAINAGE CHANNEL AND RETENTION POND. THE SITE IS LOCATED IN ZONE X.

**PROPOSED DRAINAGE CONDITION:**  
 FOR THE MOST PART THE SITE WILL FOLLOW THE EXISTING DRAINAGE PATTERN. A NEW BUILDING IS BEING PROPOSED ON THE SOUTH PARKING LOT SO THE IMPERVIOUS AREA IS NOT INCREASED FROM WHEN THE SITE WAS ORIGINALLY DEVELOPED. THE EXISTING RETENTION POND WILL CONTAIN THE FIRST FLUSH FOR THE SITE AS IT IS SIZED TO CONTAIN THE 100YR FLOW. WITH THE CONSTRUCTION OF THE PROPOSED BUILDING THERE ARE TWO SMALL AREAS THAT WILL NOT BE ABLE TO DRAIN TO THE EXISTING RETENTION POND. FOR EACH OF THOSE BASINS POND ARE BEING CREATED TO CONTAIN THE 100 YR FLOW AND WILL THEREFORE CONTAIN THE FIRST FLUSH. BOTH POND WILL OVERFLOW ONTO LOMAS BLVD. IN THE EVENT A RAINFALL EXCEEDS THE 100 YR STORM.



**Weighted E Method**

Mountain Off-Site Basins

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year			10-Year		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (in)	Volume (ac-ft)	Flow cfs	Weighted E (in)	Volume (ac-ft)	Flow cfs				
1	188,240	4.32	0%	0	25%	1.08	0%	0.00	75%	3.24	2.250	0.810	20.17	1.383	0.498	13.14								
2	7,375	0.17	0%	0	15%	0.03	0%	0.00	85%	0.14	2.406	0.034	0.83	1.506	0.021	0.55								
3	5,895	0.14	0%	0	22%	0.03	0%	0.00	78%	0.11	2.297	0.026	0.64	1.419	0.016	0.42								
4	750	0.02	0%	0	0%	0.00	100%	0.02	0%	0.00	1.460	0.002	0.06	0.730	0.001	0.04								
5	15,536	0.36	0%	0	42%	0.15	0%	0.00	58%	0.21	1.985	0.059	1.52	1.173	0.035	0.96								
		<b>5.00</b>									<b>0.931</b>		<b>23.23</b>											

**Equations:**

Weighted E =  $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$  / (Total Area)

Volume = Weighted D \* Total Area

Flow =  $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

**Excess Precipitation, E (inches)**

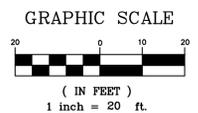
Zone 4	100-Year	10-Year
E <sub>a</sub>	0.8	0.28
E <sub>b</sub>	1.08	0.46
E <sub>c</sub>	1.46	0.73
E <sub>d</sub>	2.64	1.69

**Peak Discharge (cfs/acre)**

Zone 4	100-Year	10-Year
Q <sub>a</sub>	2.2	0.87
Q <sub>b</sub>	2.92	1.45
Q <sub>c</sub>	3.73	2.26
Q <sub>d</sub>	5.25	3.57

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	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	SHEET # <b>GR-2</b> JOB # 2019068