



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Central Take 5 **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lt 16A EXCL PORT OUT TO R/W PLAT OF LTS 16A BLK 36 VALLEY VIEW ADDN SEC 23 TION R35
City Address Or UPC: 5210 Central Ave SE Albuquerque, NM 87108/ UPC: 101705753016642912

Applicant: Tierra West, LLC **Contact:** _____
Address: 5571 Midway Park Place NE Albuquerque NM 87109
Phone#: 505-858-3100 **Fax#:** 505-858-1118 **E-mail:** _____

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) _____

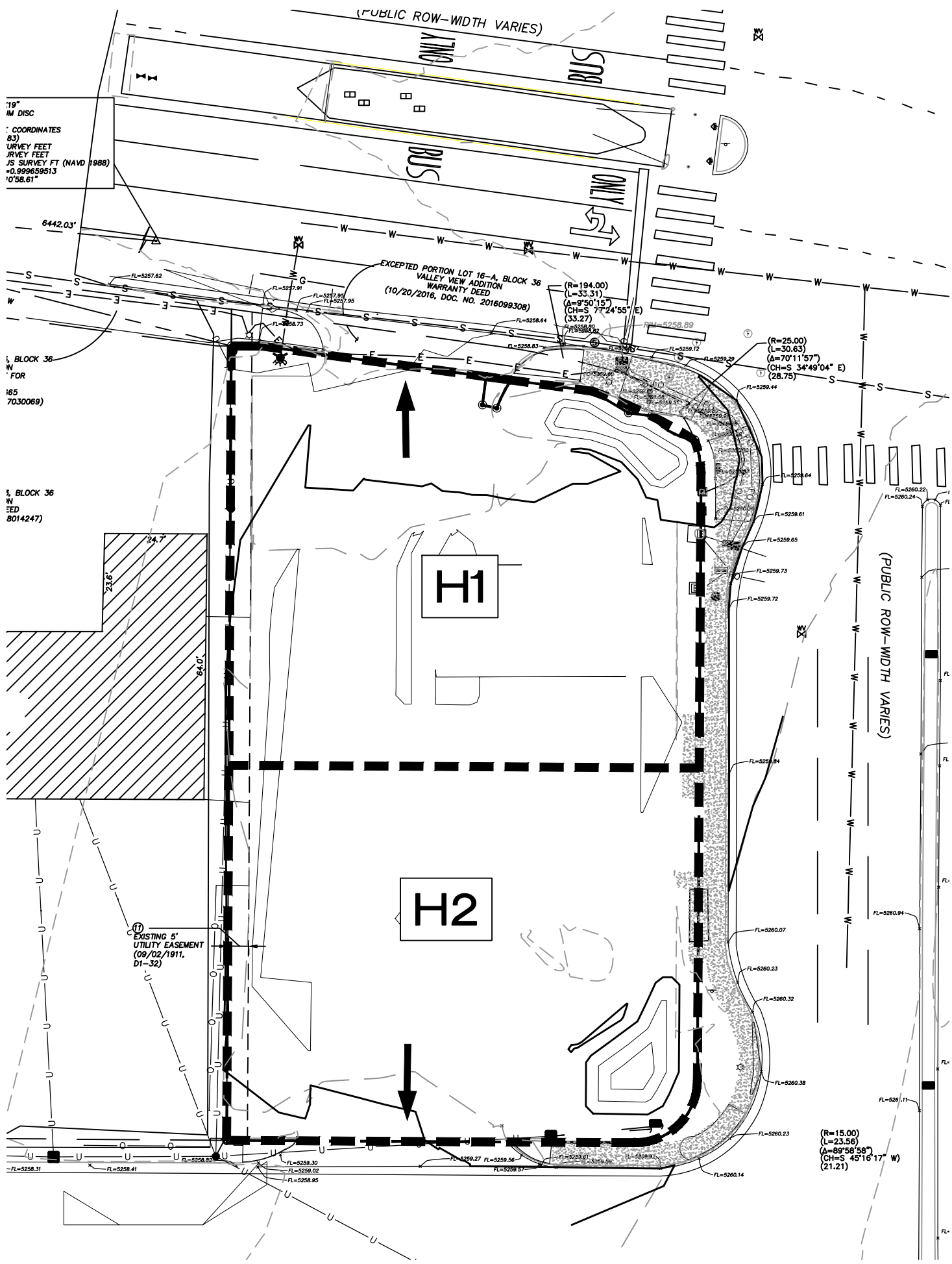
DATE SUBMITTED: 9-12-22 **By:** Luis Noriega

COA STAFF:

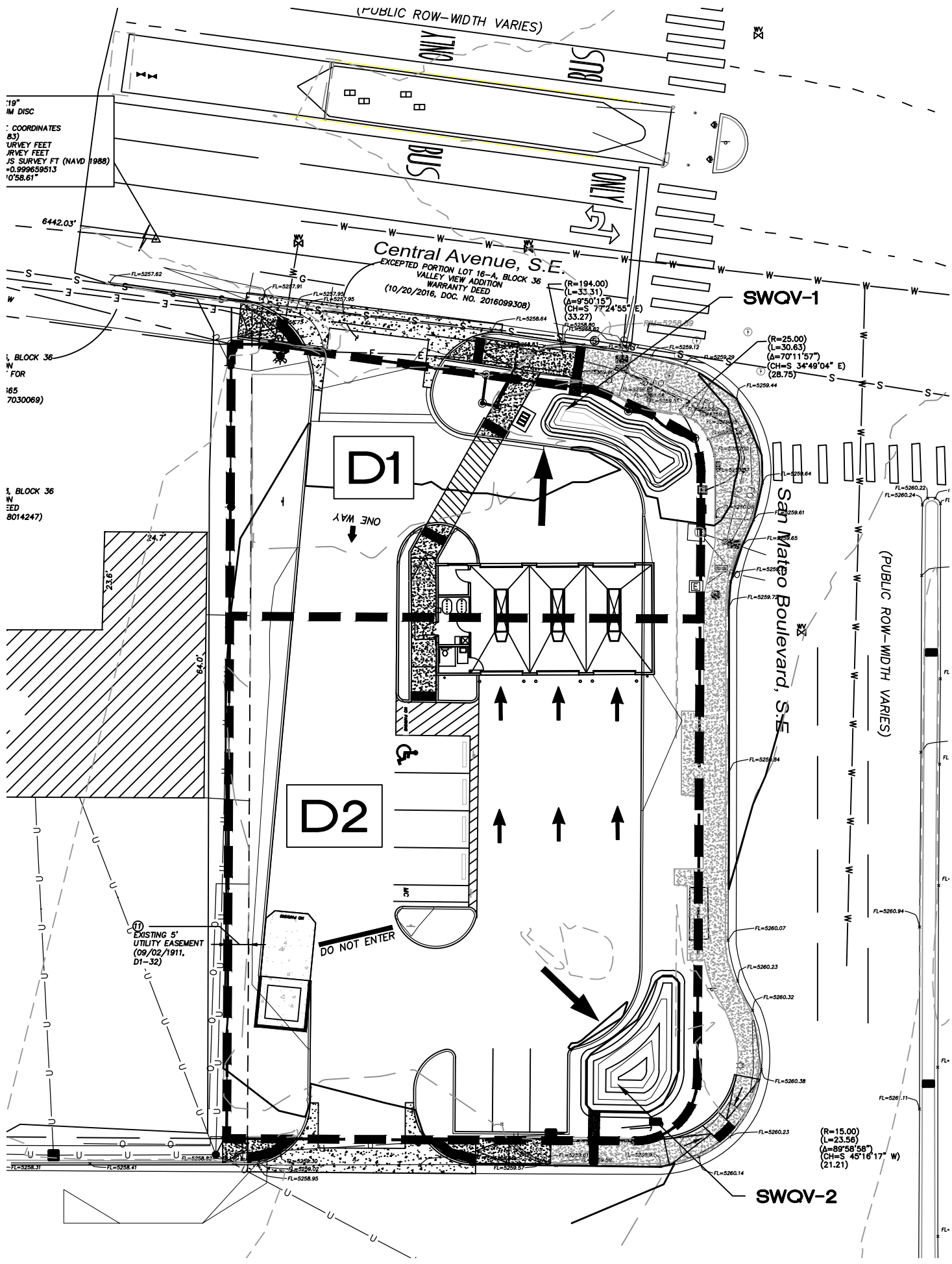
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

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HISTORIC BASIN MAP



PROPOSED BASIN MAP

DPM Weighted E Method CH 6

Precipitation Zone 2
Central Take 5 Oil Change

TWLLC

Date

9/12/2022

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed

Volume = Weighted E * Total Area

Flow = Qa*Aa + Qb*Ab + Qc*Ac + Qd*Ad

Existing Conditions

Basin ID	Tract	Area (sf)	Area (acres)	Area (sq miles)	Treatment A				Treatment B		Treatment C		Treatment D		100-Year, 6-Hr		
					% (acres)		% (acres)		% (acres)		% (acres)		% (acres)		Weighted E (in)	Volume (ac-ft)	Flow cfs
					%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)			
H1	16A	10,595	0.24	0.00038	0%	0.000	0%	0.000	10%	0.024	90%	0.219	2.200	0.045	1.02		
H2	16A	10,178	0.23	0.00037	0%	0.000	0%	0.000	10%	0.023	90%	0.210	2.200	0.043	1.02		
Total		20,773	0.48	0.00075		0.000		0.000		0.000		0.000		0.429		0.087	2.042

Proposed Conditions

Basin ID	Tract	Area (sf)	Area (acres)	Area (sq miles)	Treatment A				Treatment B		Treatment C		Treatment D		100-Year, 6-Hr		
					% (acres)		% (acres)		% (acres)		% (acres)		% (acres)		Weighted E (in)	Volume (ac-ft)	Flow cfs
					%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)			
D1	A	6,586	0.15	0.00024	0%	0.000	5%	0.008	10%	0.015	85%	0.1285	2.124	0.027	0.62		
D2	A	14,187	0.33	0.00051	0%	0.000	5%	0.016	10%	0.033	85%	0.2768	2.124	0.058	1.34		
Total		20,773	0.48	0.00075		0.000		0.024		0.048		0.405		0.084		1.961	

SWQV-1 Pond Volume Requirement	
Total Impervious Area =	ΣArea in "Treatment D"
Retainage depth = 0.42" Per DPMPg. 272	0.035 foot
Retention Volume =	=0.035 x Area D CF
Area D (0.1285 acres)	5598 SF
Required Retention Volume	196 CF
Pond Volume Provided	241 CF

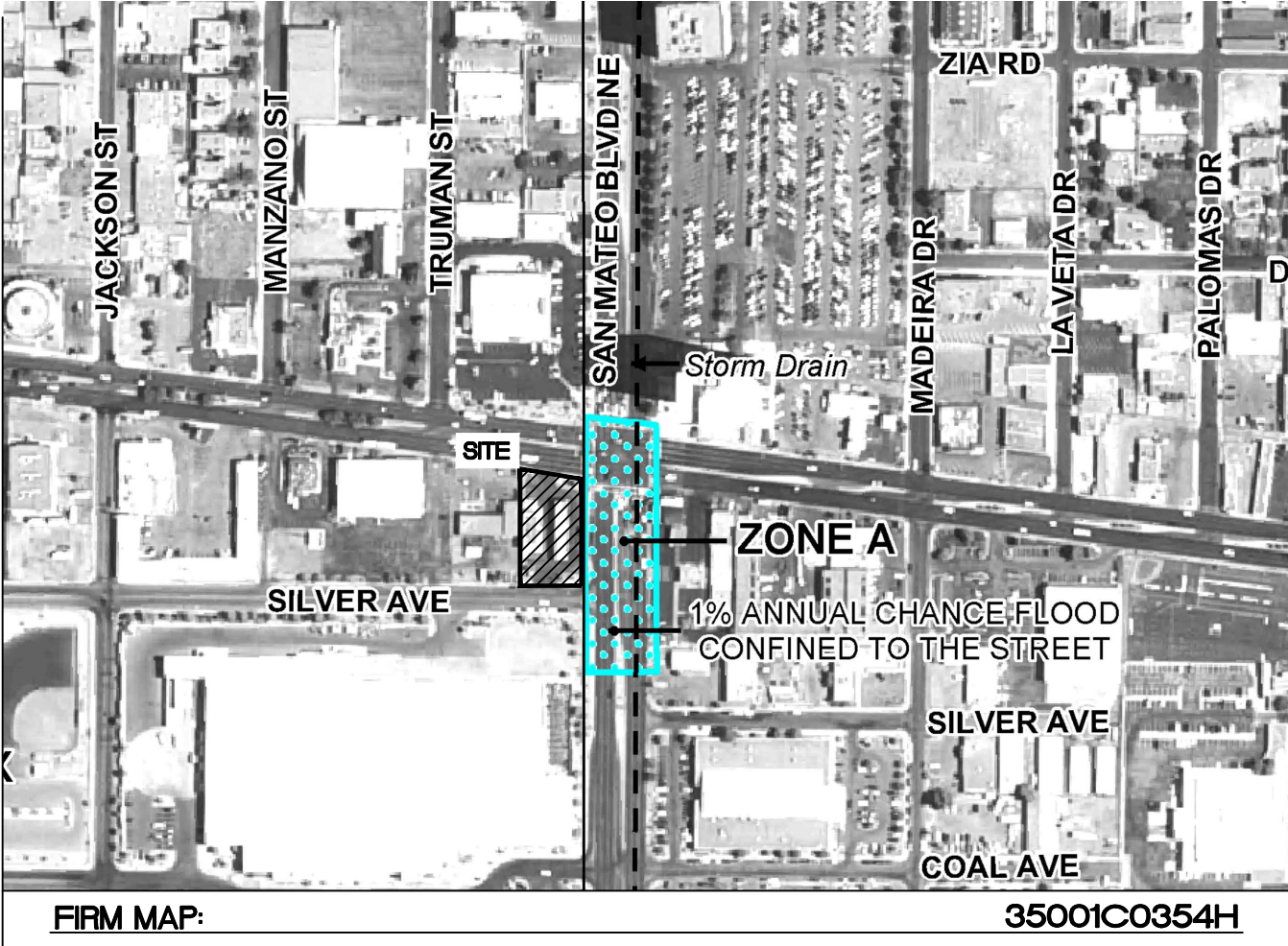
SWQV-2 Pond Volume Requirement	
Total Impervious Area =	ΣArea in "Treatment D"
Retainage depth = 0.42" Per DPMPg. 272	0.035 foot
Retention Volume =	=0.035 x Area D CF
Area D (0.2768 acres)	12058 SF
Required Retention Volume	422 CF
Pond Volume Provided	599 CF

SWQV-1 Pond Volume Calculation	
Area at Mid Depth	161 Sq. Ft.
Depth of Pond	2 Ft.
Total Volume	241 Cubic Ft.


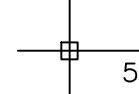
SWQV-2 Pond Volume Calculation	
Area at Mid Depth	240 Sq. Ft.
Depth of Pond	3 Ft.
Total Volume	599 Cubic Ft.

Excess Precipitation, E (in.)		
Zone 2	100-Year	10-Year
Ea	0.62	0.15
Eb	0.8	0.3
Ec	1.03	0.48
Ed	2.33	1.51

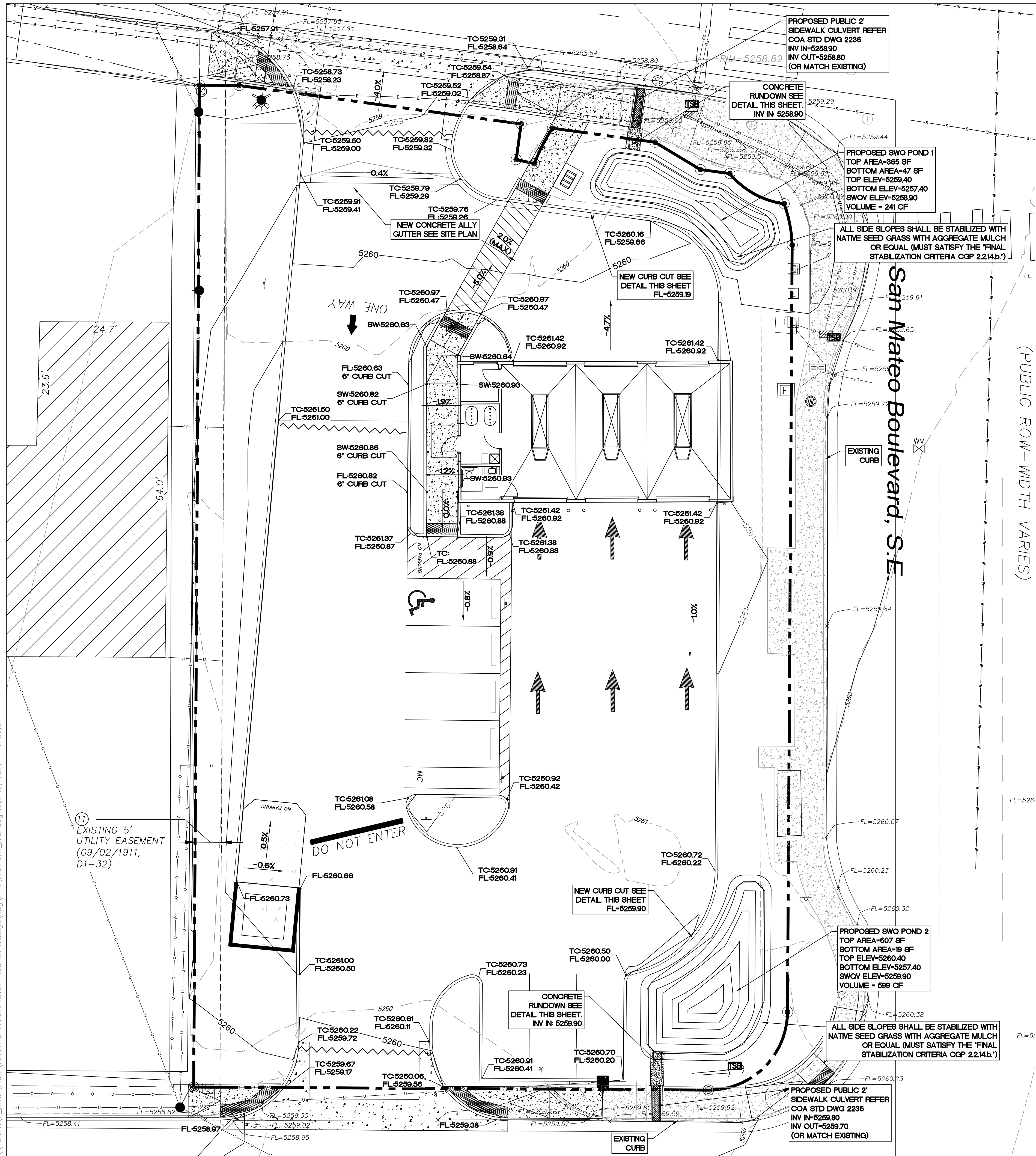
Peak Discharge (cfs/acre)		
Zone 2	100-Year	10-Year
Qa	1.71	0.41
Qb	2.36	0.95
Qc	3.05	1.59
Qd	4.34	2.71



FIRM MAP: 35001C0354H

 09/12/2022 RONALD R. BOHANNAN P.E. #7868	CENTRAL TAKE 5 ALBUQUERQUE, NM	DRAWN BY BF
	GRADING AND DRAINAGE BASIN MAP	DATE 08/24/2022
	 TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com	2022079_BASINS
		SHEET # C4.1
		JOB # 2022079

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LEGEND

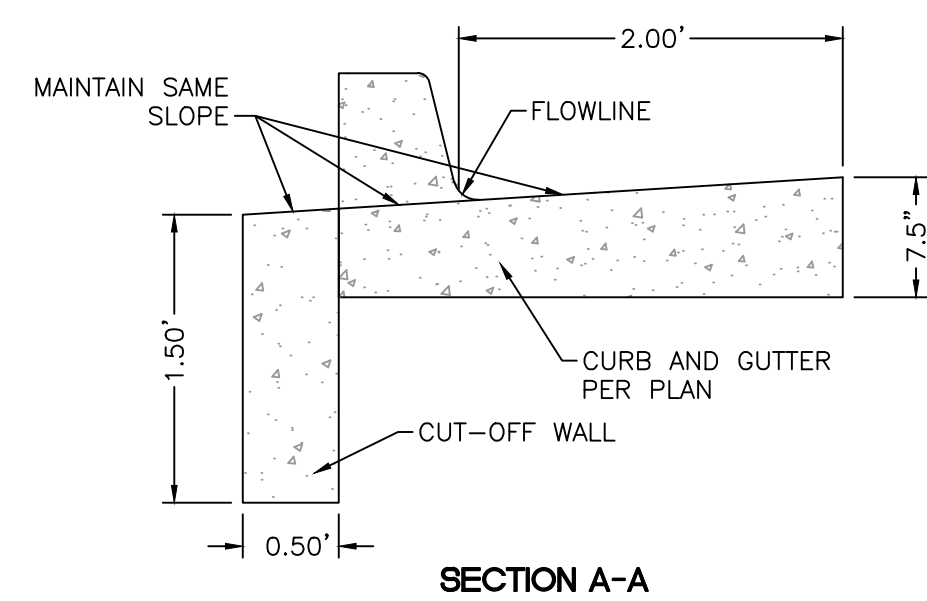
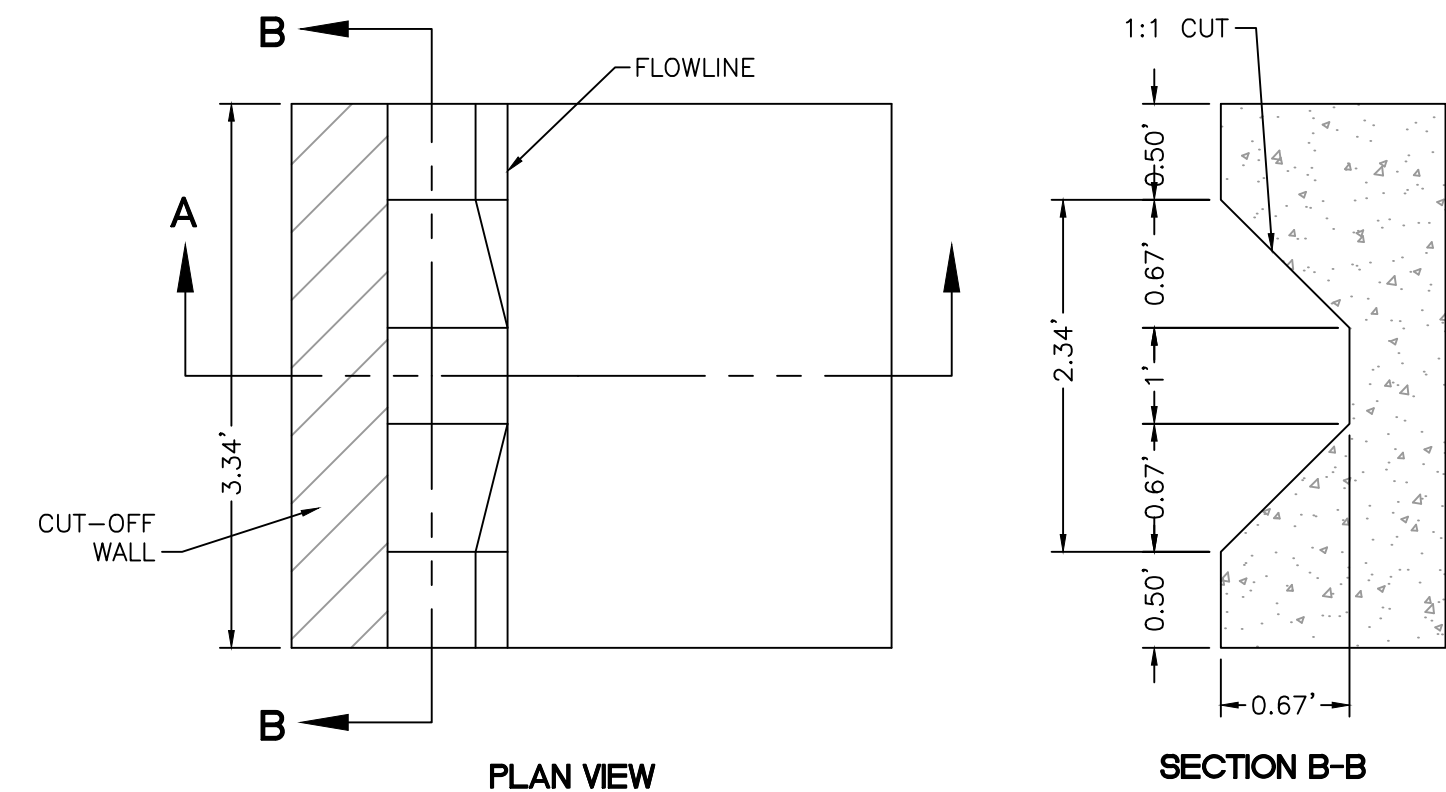
- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- BUILDING
- SIDEWALK
- RETAINING WALL
- 5010 CONTOUR MAJOR
- 5011 CONTOUR MINOR
- x 5048.25 SPOT ELEVATION
- FLOW ARROW
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 5010 EXISTING CONTOUR MAJOR
- 5011 EXISTING CONTOUR MINOR
- x 5048.25 EXISTING SPOT ELEVATION

SPOT ELEVATION LEGEND

SW= TOP OF SIDEWALK
TC= TOP OF CURB
C= TOP OF CONCRETE
P= POINT ELEVATION
FL= FLOW LINE
FF= FINISHED FLOOR
BW= BOTTOM OF WALL AT FINISHED GRADE
TW= TOP OF WALL

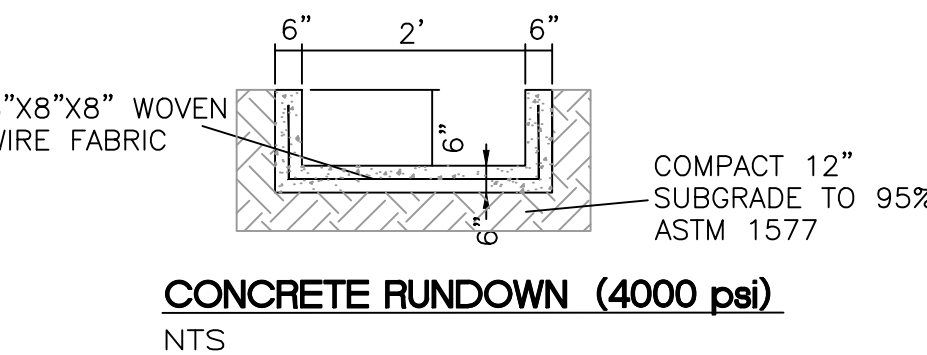
SPOT ELEVATION NOTE:

ALL PROPOSED SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.



CURB NOTCH

NTS



NOTICE TO CONTRACTORS

- BUILD SIDEWALK CULVERT PER COA STD DWG 2236.
- CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
- 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.
- 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) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.

<div>ENGINEER'S SEAL</div> <div></div> <div>RONALD R. BOHANNAN P.E. #7868</div>	CENTRAL TAKE 5 ALBUQUERQUE, NM		DRAWN BY BF
	GRADING & DRAINAGE PLAN		DATE 08/24/2022
	<div></div> <div>TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com</div>		2022079_GRE
	SHEET # C4.2		JOB # 2022079