

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

April 5, 2023

Sheldon Greer, P.E.  
Respec  
5971 Jefferson St. NE  
Albuquerque, NM 8710

**RE: Modwash – Snow Vista  
Grading & Drainage Plans  
Engineer's Stamp Date: 03/16/23  
Hydrology File: M09D012A**

Dear Mr. Greer:

Based upon the information provided in your submittal received 03/27/2023, the Grading & Drainage Plans are approved for Building Permit and Grading Permit. 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 CERTIFICATE OF OCCUPANCY:**

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.
3. Please provide a Private Drainage Easement that is centered on the off-site drainage ditch that goes to the existing 42-inch storm drain at the corner of Snow Vista and Benavides Rd with a check for **\$25.00** made out to "**Bernalillo County**" for the recording to Hydrology.

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, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

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Alan Varela, Director



*Mayor Timothy M. Keller*

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

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

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** Modwash Snow Vista **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Tract A Plat for Tract A Snow Vista Investorscont, 10.76 AC  
**City Address:** 100905510538420307

**Applicant:** Hutton **Contact:** Michael Evans  
**Address:** 736 Cherry St, Chattanooga TN 37402  
**Phone#:** 504.343.1714 **Fax#:** \_\_\_\_\_ **E-mail:** mevans@hutton.build

**Other Contact:** RESPEC **Contact:** Sheldon Greer  
**Address:** 7770 Jefferson Street NE, Suite 200, Albuquerque NM 87109  
**Phone#:** 505.264.0472 **Fax#:** \_\_\_\_\_ **E-mail:** sheldon.greer@respec.com

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

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

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

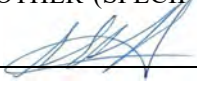
Check all that Apply:

### 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:** 03/24/23 **By:** Sheldon Greer 

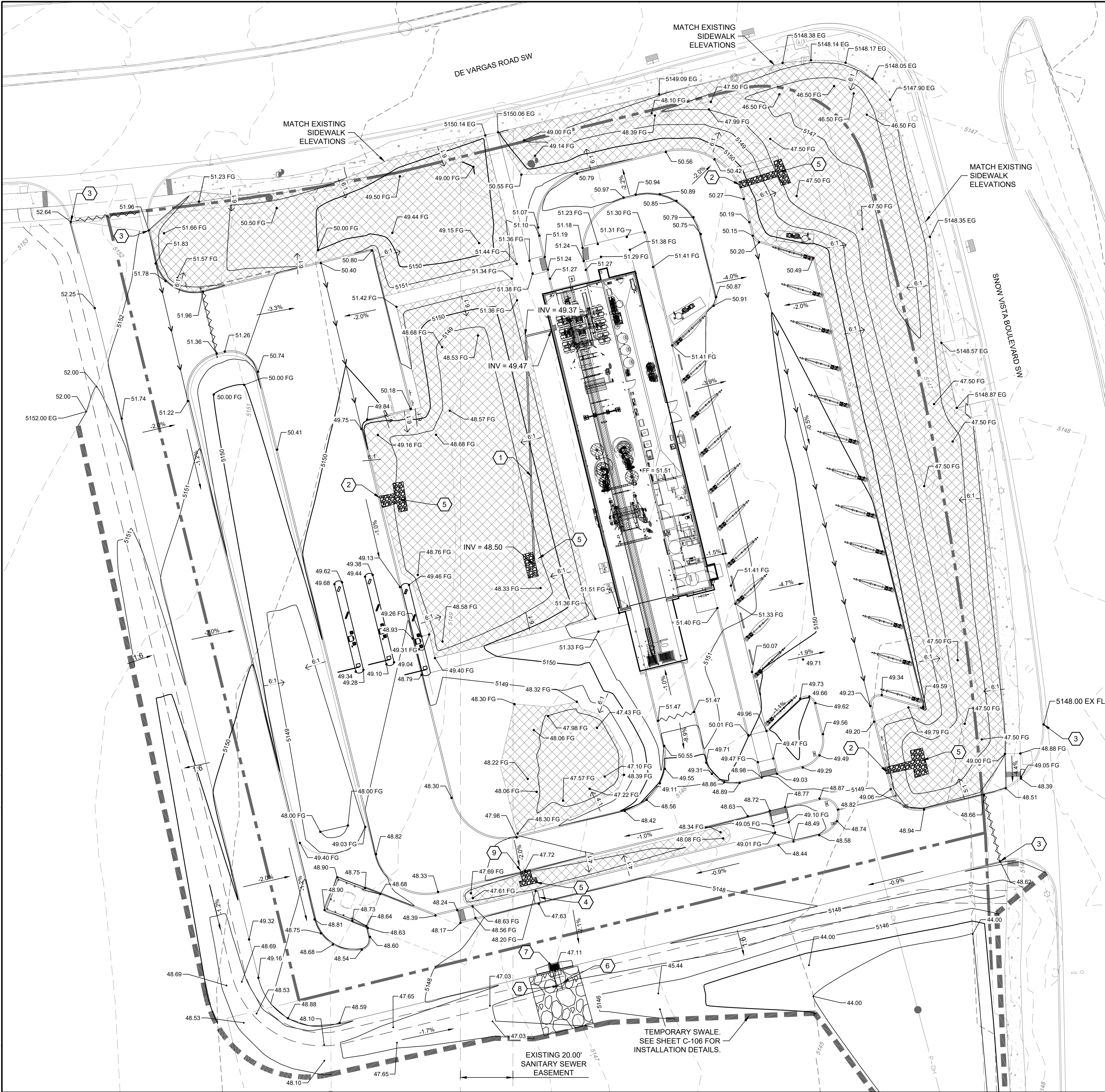
COA STAFF:

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

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



NAME: N:\Projects\W0306-Hutton\W0306-Snow-Vista3\_DWG3\_Sheets\Grading Plan.dwg PLOT DATE: Mar 16, 2023 2:11pm



GRADING GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY SIZE'S AND LOCATION AND ELEVATION OF ALL EXISTING DRY AND WET UTILITIES PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES. UTILITY RELOCATION MAY BE REQUIRED
- GRADES SHOWN ARE FINAL SURFACE GRADES AFTER COMPLETION OF SURFACE IMPROVEMENTS AND PLACEMENTS OF TOPSOIL.
- PROVIDE TEMPORARY GRADING FEATURES SUCH AS BERMS, SWALES, SUMPS, AND BASINS TO MANAGE INTERIM STORM WATER RUNOFF DURING CONSTRUCTION PROCESS. STORM WATER RUNOFF LEAVING THE SITE SHALL MEET ALL FEDERAL, STATE AND LOCAL QUALITY REQUIREMENTS.
- REFER TO GEOTECHNICAL EVALUATIONS REPORT BY TERRACON (TERRACON PROJECT NO. 66215281) DATED MARCH 2, 2022.
- COMPOSITE SLOPE IN HANDICAP PARKING SHALL NOT EXCEED 2% IN ANY DIRECTION.
- CROSS SLOPE ON ADA CROSSWALKS SHALL NOT EXCEED 2%. LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
- LONGITUDINAL SLOPE ON CURB RAMP SHALL NOT EXCEED 8.33%. CROSS SLOPE SHALL NOT EXCEED 2%.
- COMPOSITE SLOPE ON RAMP LANDINGS SHALL NOT EXCEED 2%.
- CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 2%. LONGITUDINAL SLOPES ON ONSITE SIDEWALKS SHALL NOT EXCEED 5%.
- SLOPE LABELS SHOW APPROXIMATE SLOPES ONLY. WHERE SLOPE LABELS AND SPOT ELEVATION LABELS CONFLICT, SPOT ELEVATION LABELS SHALL GOVERN AND THE SURVEYOR RESPONSIBLE FOR CONSTRUCTION STAKING SHALL CONTACT THE ENGINEER.
- INSTALL PAVING PER PAVEMENT SECTION RECOMMENDED BY THE SITE GEOTECHNICAL REPORT.
- FOR TUNNEL BUILDING ENTRANCE AND EXIT SLABS, SEE ARCHITECTURAL PLANS.
- LONGITUDINAL SLOPES ON SIDEWALKS ADJACENT TO PUBLIC ROADS SHALL NOT EXCEED THE SLOPE OF THE PUBLIC ROAD.
- WHERE THIS PLAN IS SILENT REGARDING SURFACE TREATMENT, REFER TO THE LANDSCAPING PLAN. DISTURBED AREAS WITHOUT SURFACE IMPROVEMENTS SPECIFIED IN THE LANDSCAPING OR GRADING PLAN SHALL BE RESEEDED WITH A NATIVE SEEDING MIX. IF THE LANDSCAPING AND GRADING PLAN CONFLICT REGARDING SURFACE TREATMENTS, THE GRADING PLAN SHALL GOVERN.

SITE CIVIL LEGEND:

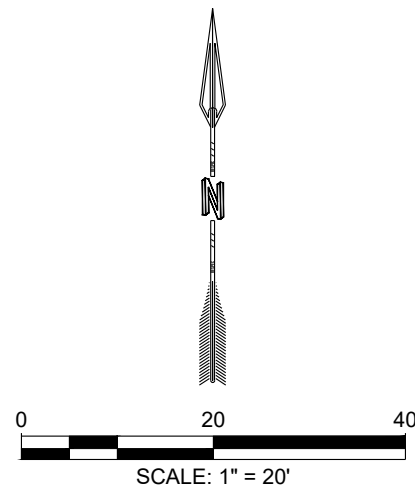
- PROPERTY BOUNDARY
- 5272 PROPOSED MAJOR CONTOUR
- 5272 PROPOSED MINOR CONTOUR
- 5272- - - EXISTING MAJOR CONTOUR
- 5272 EXISTING MINOR CONTOUR
- LIMITS OF DISTURBANCE
- FLOWLINE
- GRADE BREAK / HIGH POINT
- 4" - 6" DIAMETER BROKEN ROCK INSTALLED WITH 6" TYPICAL DEPTH.
- TOP OF POND
- 6" - 12" DIAMETER BROKEN ROCK INSTALLED WITH 12" TYPICAL DEPTH.

SPOT ELEVATION SYMBOLS

- 20.00 FLOWLINE
- 20.00 EG TOP OF EXISTING GROUND
- 20.00 FG TOP OF FINISHED GROUND
- 20.00 EX FL EXISTING FLOWLINE

KEYED NOTES

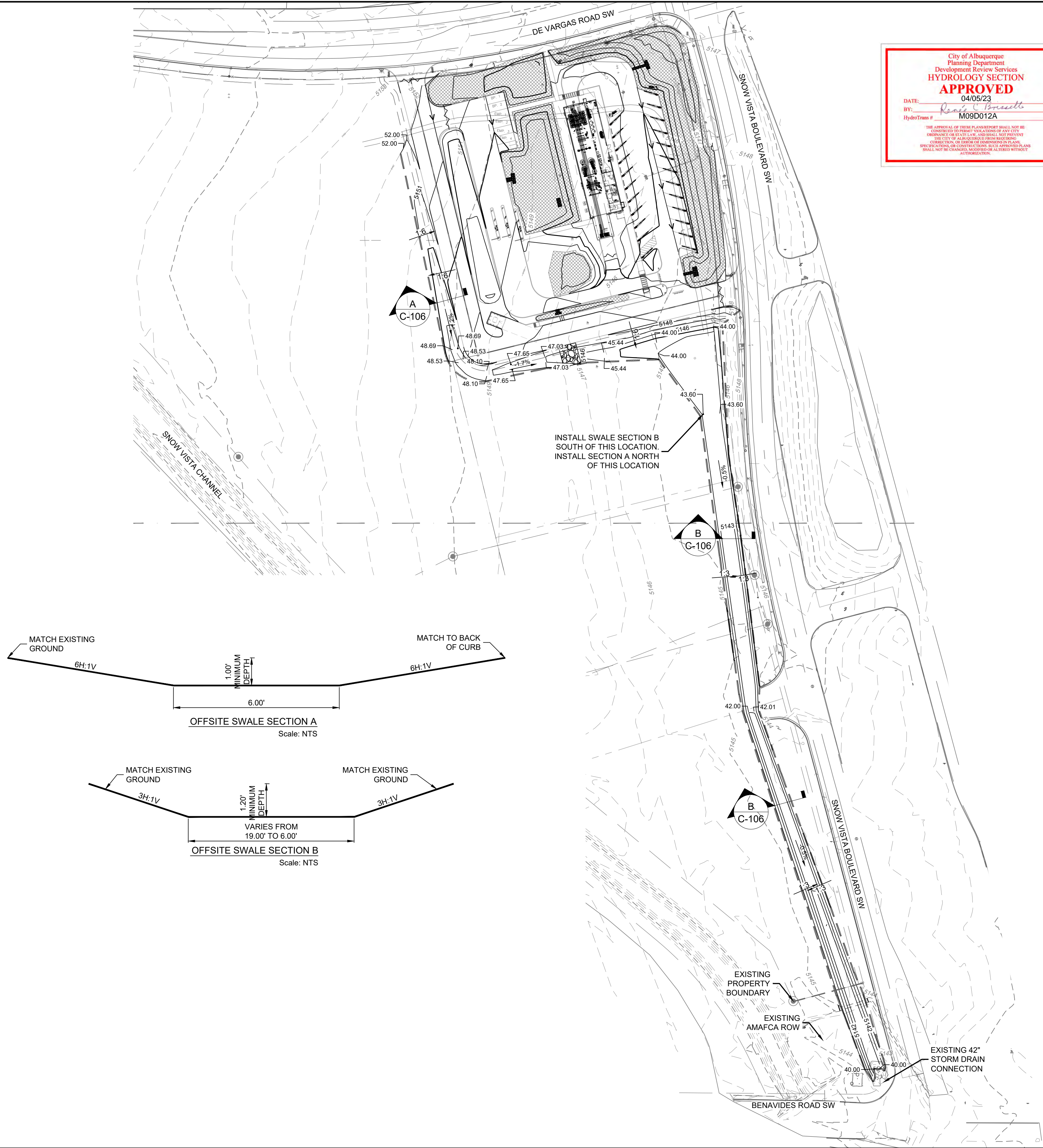
- INSTALL 6" DIAMETER PVC STORM PIPE WITH 1' MINIMUM COVER. PIPE INVERT ELEVATIONS PER PLAN.
- INSTALL 2FT WIDE CURB OPENING PER DETAIL ON SHEET C-500.
- MATCH ELEVATION AT EXISTING FLOWLINE.
- INSTALL TWO 6" X 24" PRIVATE SIDEWALK CULVERTS PER COA STD. DWG. 2236 OR ENGINEER APPROVED EQUIVALENT.
- INSTALL 6" THICK ROCK RUNDOWN PER DETAIL ON SHEET C-500.
- INSTALL 12" THICK ROCK RUNDOWN PER DETAIL ON SHEET C-500.
- INSTALL COA TYPE SINGLE A DOUBLE WING INLET PER COA STD. DWG 2201A.
- INSTALL 24" DIAMETER STORM DRAIN @ 1% SLOPE.
- INSTALL 4FT WIDE CURB OPENING PER DETAIL ON SHEET C-500.



DESIGNED	DRAWN	CHECKED	DATE	3.16.2023
RESPEC COMMUNITY DESIGN SOLUTIONS 7700 ALBUQUERQUE NEW MEXICO 87108 WWW.RESPEC.COM PHONE: 606253-9718				
STAMP				
SHELDON E. GREER NEW MEXICO 17154 LICENSED PROFESSIONAL ENGINEER 3/16/2023				
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED				
nm811 Know what's below. Call before you dig. PROJ. #: W0306.23005				
PROJECT NAME: MODWASH SNOW VISTA				
SHEET TITLE: GRADING PLAN				
SUBMITTED FOR: BUILDING PERMIT				
SHEET NUMBER: C-105				



NAME: N:\Projects\W03096-Hutton\W03096-23005 Snow Vista\3. DWG\3. Sheets\Temporary Swale Grading Plan.dwg PLOT DATE: Mar 16, 2023 2:12pm



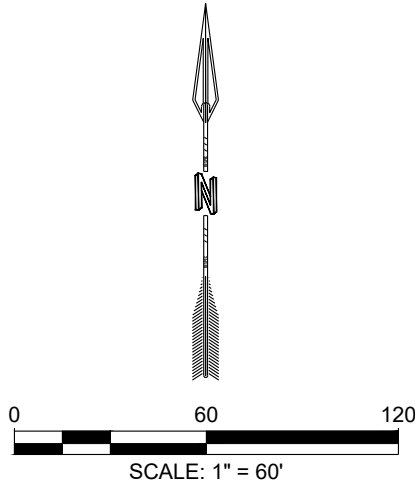
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SITE CIVIL LEGEND:

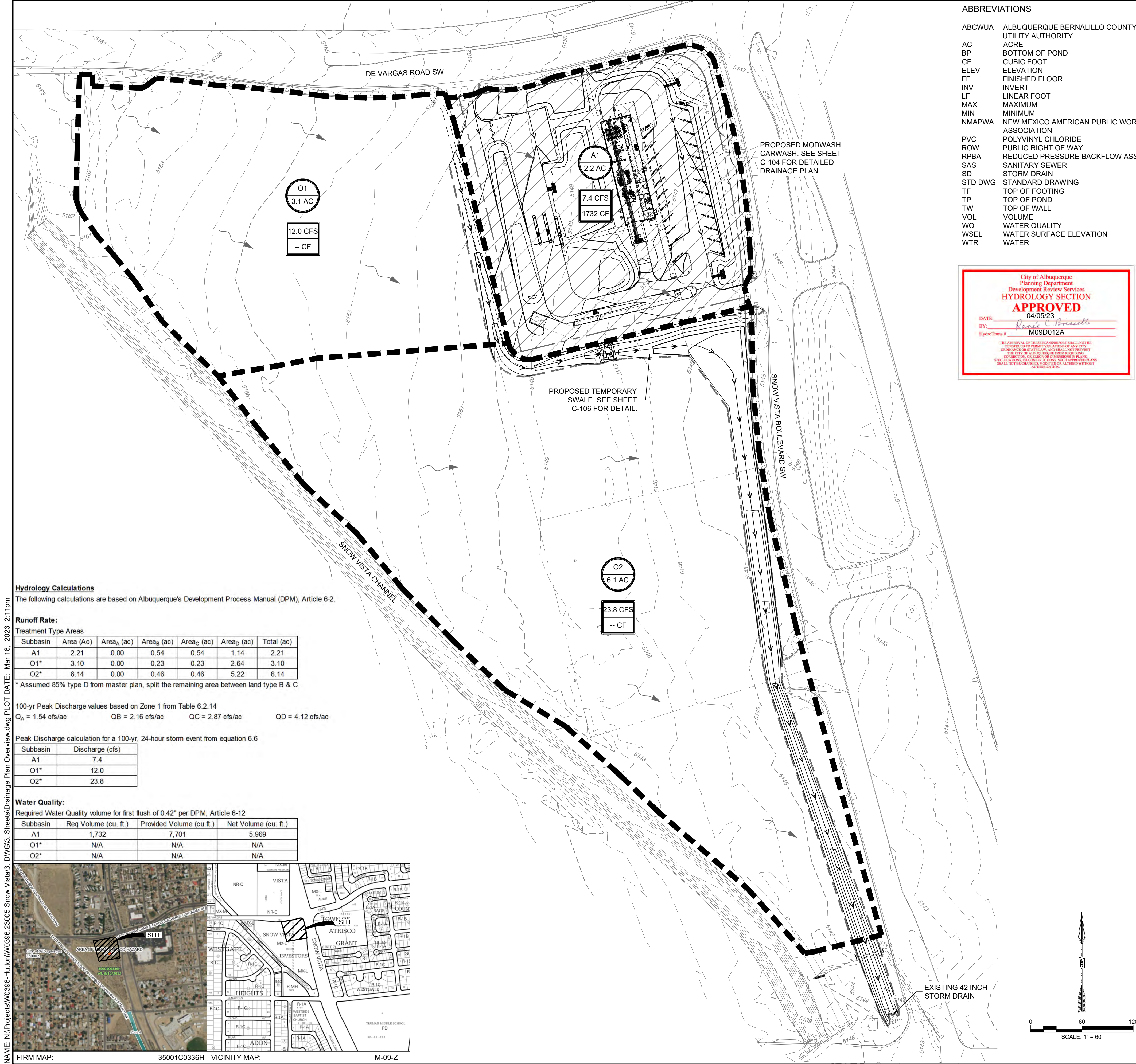
- PROPERTY BOUNDARY
- 5272 PROPOSED MAJOR CONTOUR
- 5272 PROPOSED MINOR CONTOUR
- 5272 EXISTING MAJOR CONTOUR
- 5272 EXISTING MINOR CONTOUR
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- FLOWLINE
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- 4" - 6" DIAMETER BROKEN ROCK INSTALLED WITH 6" TYPICAL DEPTH.
- TOP OF POND
- 6" - 12" DIAMETER BROKEN ROCK INSTALLED WITH 12" TYPICAL DEPTH.

**NOTE:**  
THE OFFSITE SWALE IS TEMPORARY. AS OTHER LOTS ARE DEVELOPED, THEY MAY ROUTE THE RUNOFF THROUGH THEIR SITE IN A MANNER CONDUCTIVE TO THEIR SITE PLAN AND CIVIL DESIGN. WHERE LIMITS OF DISTURBANCE EXCEED PROPERTY BOUNDARY, WRITTEN PERMISSION FOR GRADING FROM ADJACENT LOT OWNER WILL BE REQUIRED.



DESIGNED	DRAWN	CHECKED	DATE	3.16.2023
RESPEC COMMUNITY DESIGN SOLUTIONS 7700 ALBUQUERQUE NEW MEXICO 87108 WWW.RESPEC.COM PHONE: 606253-9718				
STAMP SHELDON E. GREER NEW MEXICO 17154 LICENSED PROFESSIONAL ENGINEER 3/16/2023 THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED nm811 Know what's below. Call before you dig. PROJ. #: W03096.23005				
PROJECT NAME: MODWASH SNOW VISTA				
SHEET TITLE: TEMPORARY SWALE GRADING PLAN				
SUBMITTED FOR: BUILDING PERMIT				
SHEET NUMBER: C-106				

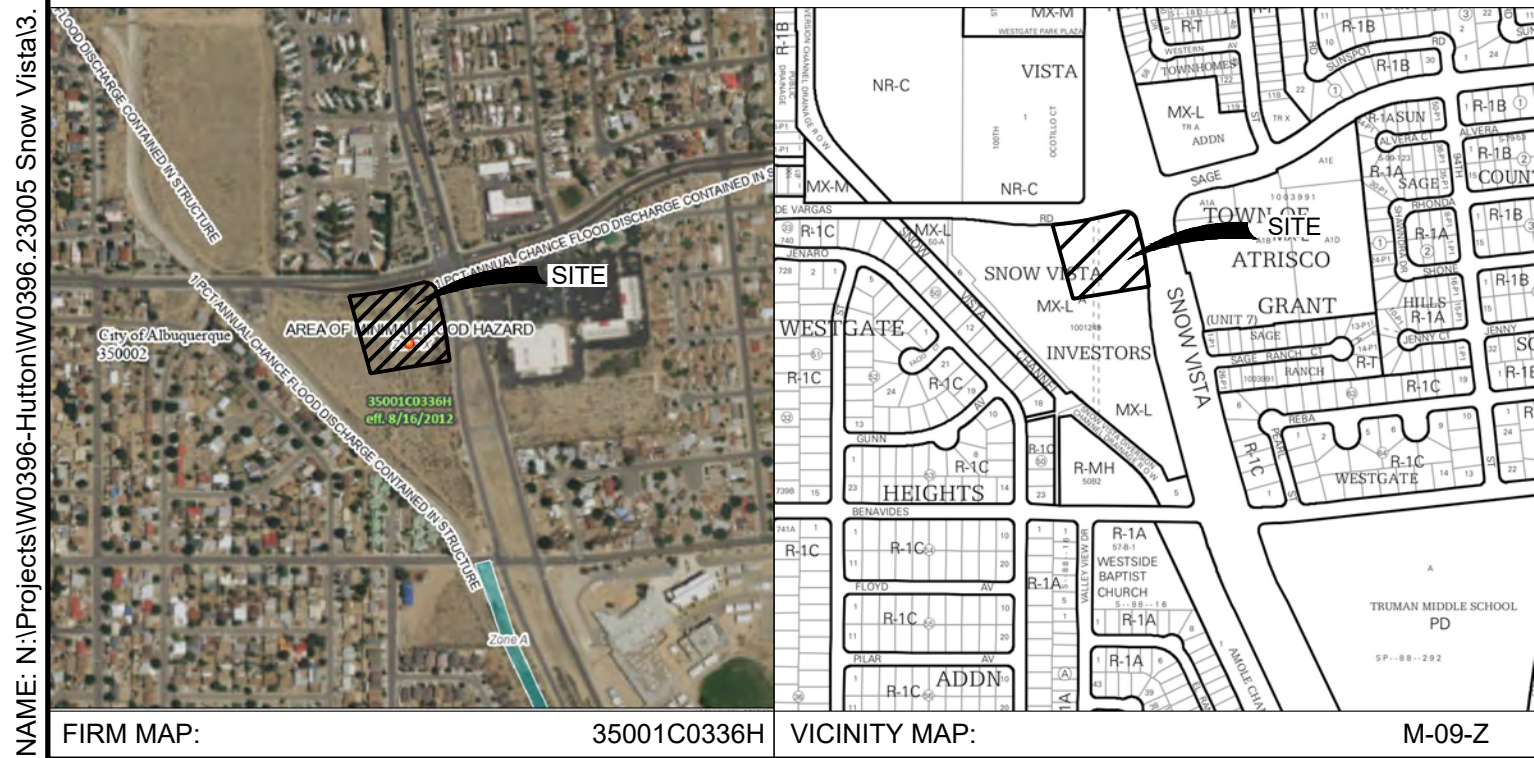




Type: Trapezoidal	Define...	Parameter	Value	Unit
Side Slope 1 (Z1): 3.0	H : 1V	Flow	43.200	cfs
Side Slope 2 (Z2): 3.0	H : 1V	Depth	1.137	ft
Channel Width (B): 6.0	(ft)	Area of Flow	11.486	sq ft
Pipe Diameter (D): 0.0	(ft)	Wetted Perimeter	13.573	ft
Longitudinal Slope: 0.005	(ft/ft)	Hydraulic Radius	0.846	ft
<input type="checkbox"/> Override Default		Average Velocity	3.761	fps
Manning's Roughness: 0.0250		Top Width (T)	13.185	ft
<input type="checkbox"/> Use Lining		Froude Number	0.710	
Lining Type: Woven Paper Net		Critical Depth	0.987	ft
		Critical Velocity	4.885	fps
		Critical Slope	0.01042	ft/ft
		Critical Top Width	11.921	ft
		Max Shear Stress	0.374	lb/ft <sup>2</sup>
		Avg Shear Stress	0.264	lb/ft <sup>2</sup>
<input checked="" type="radio"/> Enter Flow: 43.200	(cfs)			
<input type="radio"/> Enter Depth: 1.137	(ft)			

Type: Trapezoidal	Define...	Parameter	Value	Unit
Side Slope 1 (Z1): 6.0	H : 1V	Flow	19.400	cfs
Side Slope 2 (Z2): 6.0	H : 1V	Depth	0.597	ft
Channel Width (B): 6.0	(ft)	Area of Flow	5.716	sq ft
Pipe Diameter (D): 0.0	(ft)	Wetted Perimeter	13.259	ft
Longitudinal Slope: 0.01	(ft/ft)	Hydraulic Radius	0.431	ft
<input type="checkbox"/> Override Default		Average Velocity	3.394	fps
Manning's Roughness: 0.0250		Top Width (T)	13.160	ft
<input type="checkbox"/> Use Lining		Froude Number	0.907	
Lining Type: Woven Paper Net		Critical Depth	0.565	ft
		Critical Velocity	3.657	fps
		Critical Slope	0.01234	ft/ft
		Critical Top Width	12.780	ft
		Max Shear Stress	0.372	lb/ft <sup>2</sup>
		Avg Shear Stress	0.269	lb/ft <sup>2</sup>
<input checked="" type="radio"/> Enter Flow: 19.400	(cfs)			
<input type="radio"/> Enter Depth: 0.597	(ft)			

NAME: N:\Projects\W0306-Hutton\W0306-23005 Snow Vista\3. DWG\3. Sheets\Drainage Plan Overview.dwg PLOT DATE: Mar 16, 2023 2:11pm



DESIGNED  
DRAWN  
CHECKED  
DATE  
3.16.2023

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7700 ALBUQUERQUE BLVD, SUITE 100  
ALBUQUERQUE, NEW MEXICO 87109  
WWW.RESPEC.COM PHONE: 606253-9718

RESPEC

STAMP  
SHELDON E. GREER  
NEW MEXICO  
17154  
LICENSED PROFESSIONAL ENGINEER  
3/16/2023

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AND NOT TO BE USED FOR  
CONSTRUCTION UNLESS IT IS  
STAMPED, SIGNED AND DATED

nm811  
Know what's below.  
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PROJ. #: W0306.23005

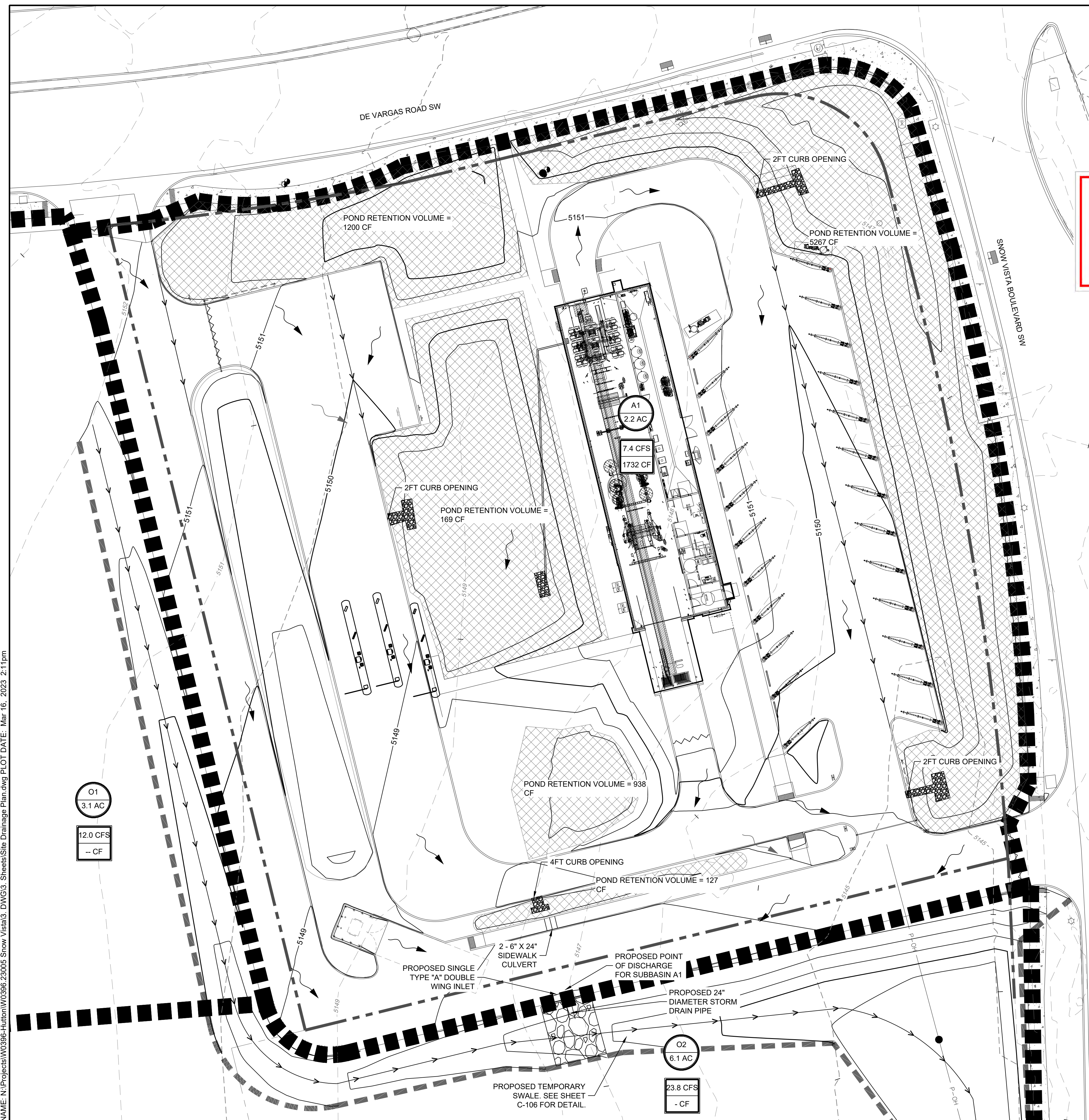
PROJECT NAME:  
MODWASH SNOW VISTA

SHEET TITLE:  
DRAINAGE PLAN  
OVERVIEW

SUBMITTED FOR:  
BUILDING PERMIT

SHEET NUMBER:  
C-103





**LEGEND:**

- 
- Legend:
- BASIN DESIGNATION**: Circle with 'XX' (e.g., XX AC)
  - BASIN AREA, ACRES**: Circle with 'XX AC' (e.g., XX AC)
  - 100 YEAR STORM, CFS**: Box with 'XX CFS' (e.g., XX CFS)
  - REQUIRED WATER QUALITY VOLUME, CF**: Box with 'XX CF' (e.g., XX CF)
  - SUB-BASIN BOUNDARY**: Four thick black vertical bars
  - EXISTING FLOW ARROW**: A wavy line with a single arrowhead pointing left
  - DEVELOPED FLOW ARROW**: A wavy line with two arrowheads pointing left
  - HIGH POINT**: A wavy line with a central peak
  - FLOWLINE**: A straight line with two arrowheads pointing right
  - TOP OF WATER QUALITY POND**: A rectangular area with a cross-hatch pattern



ONSITE DRAINAGE SUMMARY:

STORMWATER RUNOFF IS BEING CONVEYED ACROSS THE SITE VIA DRIVE AISLES AND THROUGH WATER QUALITY PONDS. THE ROOF IS DRAINING THROUGH A STORM PIPE INTO A WATER QUALITY POND. THE PROPOSED POINT OF DISCHARGE IS INTO THE TEMPORARY SWALE ALONG THE SOUTH SIDE OF THE SITE.

CURB OPENING HYDRAULIC CALCULATIONS:

2ft Curb OpeningGrate (Treated As Weir)		4ft Curb Opening Grate (Treated As Weir)	
Weir Flow Calcs		Weir Flow Calcs	
Qw = 2.7L(H) <sup>1.5</sup>		Qw = 2.7L(H) <sup>1.5</sup>	
P = Perimeter (ft)	2.0	P = Perimeter (ft)	4.0
H = Head (ft)	0.50	H = Head (ft)	0.50
coefficient of discharge =	2.70	coefficient of discharge =	2.70
clogging factor =	20%	clogging factor =	20%
Qw = Capacity (cfs)	1.5	Qw = Capacity (cfs)	3.1

SINGLE TYPE "A" DOUBLE WING INLET HYDRAULIC CALCULATIONS:

Curb Opening (Treated As Orifice)		Grate (Treated As Weir)	
Orifice Calcs		Weir Flow Calcs	
$Q_o = .6A\sqrt{2gh}$		$Q_w = 2.7L(H)^{1.5}$	
2 curb openings (3' x 3'-6")		1 grate (3'x2)	
A = Open area of weir (sq. ft)	1.8	P = Perimeter (ft)	7.0
g = 32.2 (ft/s <sup>2</sup> )	32.20	H = Head (ft)	0.50
H = Head (ft)	0.50	coefficient of discharge =	2.70
clogging factor =	15%	clogging factor =	20%
<b>Qw = Capacity (cfs)</b>	<b>5.1</b>	<b>Qw = Capacity (cfs)</b>	<b>5.3</b>
<b>Total (cfs):</b>		<b>10.4</b>	

Storm Drain Sizing

Type: Circular Design:

Side Slope 1 (Z1): 0.0 H: V

Side Slope 2 (Z2): 0.0 H: V

Channel Width (B): 0.0 (ft)

Pipe Diameter (D): 2.0 (ft)

Longitudinal Slope: 0.01 (ft/ft)

☐ Override Default:

Manning's Roughness: 0.0150

☒ Use Lining

Lining Type: Woven Paper Net

Parameter

Value

Units

Flow

7.400

cfs

Depth

0.852

ft

Area of Flow

1.275

sq ft

Wetted Perimeter

2.848

ft

Hydraulic Radius

0.448

ft

Average Velocity

5.804

fps

Top Width (T)

1.978

ft

Froude Number

1.274

Critical Depth

0.967

ft

Critical Velocity

4.919

fps

Critical Slope

0.00640

ft/ft

Critical Top Width

1.999

ft

Max Shear Stress

0.531

lb/ft<sup>2</sup>

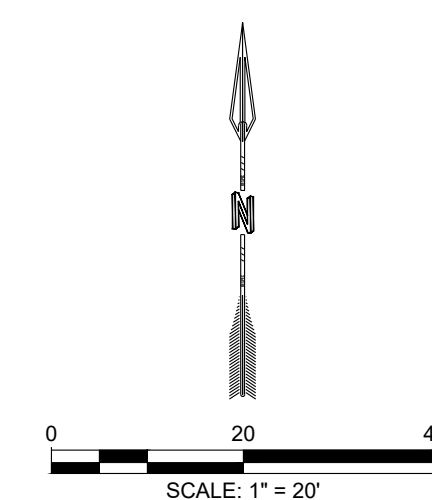
Avg Shear Stress


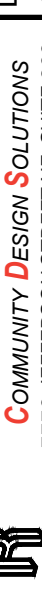

0.280

lb/ft<sup>2</sup>

☒ Enter Flow: 7.400 (cfs)

☐ Enter Depth: 0.852 (ft)



SHEET NUMBER:	SUBMITTED FOR:	SHEET TITLE:	PROJECT NAME:	 <p>Know what's below. Call before you dig.</p>	 <p>3/16/2023</p>	 <p><b>RESPEC</b> COMMUNITY DESIGN SOLUTIONS 7770 JEFFERSON STREET NE, SUITE 200 ALBUQUERQUE, NEW MEXICO 87109 WWW.RESPEC.COM PHONE (505) 253-9718</p>	DESIGNED _____	3/16/2023	REVISION _____
							DRAWN _____	CHECKED _____	DATE _____