This TESCP is for the development phase of this project. A new TESCP will be drafted when the homebuilding phase begins. At project end all disturbed areas will be developed into houses and/or paved and landscaped.

Note that 814 Solutions did not create grading and drainage plan. Plan was edited by 814 Solutions to include stormwater measures.

Soil Information

62.7% Alameda sandy loam (0-5% slopes)

K-factor: 0.24

Bulk density, 1/3 bar: 1.43 grams/cubic centimeter

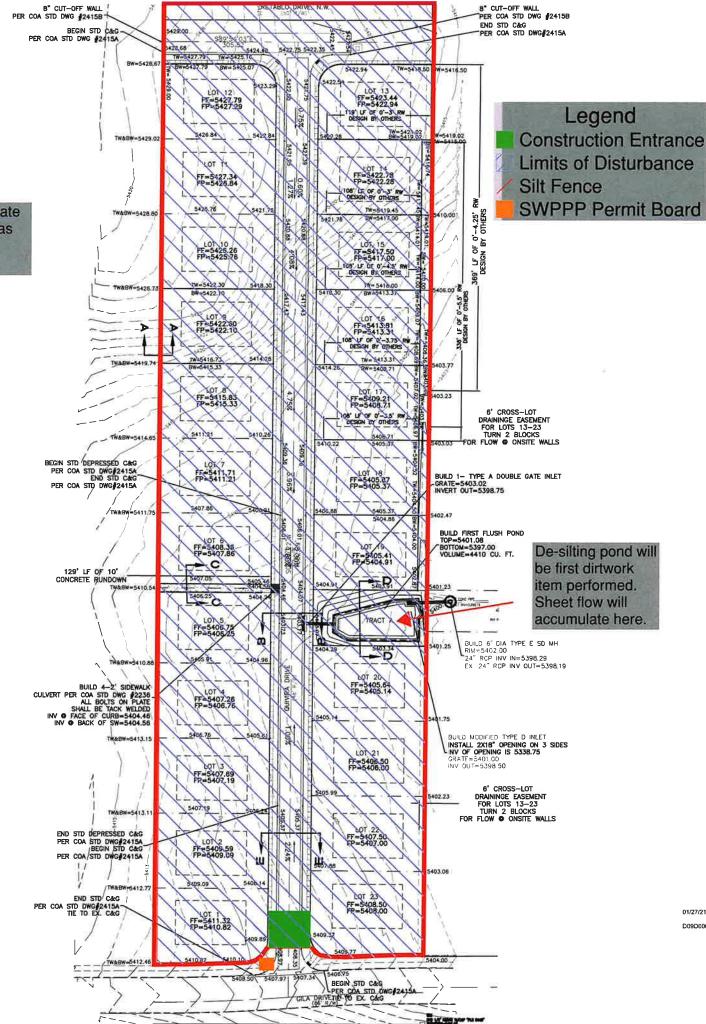
37.3% Madurez-Wink association, gently sloping

K-factor: 0.24

Bulk density, 1/3 bar: 1.43 grams/cubic centimeter

Soil information included as attachment

EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER



ERUSION 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.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. 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 ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:	D-09-Z
72	
*	
1	
(R _G) ==	
FIRM MAP:	

LEGAL DESCRIPTION:

LOTS 1-23, AND TRACT A, QUIVERA ESTATES

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE

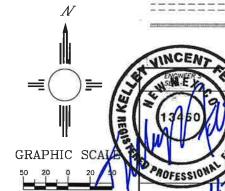
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

5. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.

6. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

LEGEND

- - - 5415- - EXISTING INDEX CONTOUR PROPOSED CONTOUR SLOPE TIE EXISTING SPOT ELEVATION X 4048 25 EXISTING CURB AND GUTTER PROPOSED SIDEWALK _____ Existing sidewalk 3' ADA PATH-2% MAX SLOPE



COME . 1"-EN

WIRA ESTATES DING AND

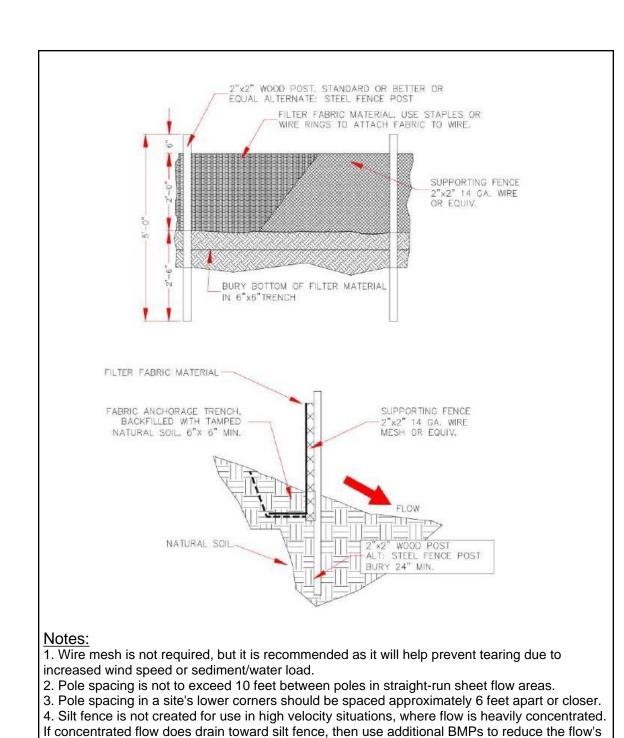
INAGE PLAN

12039-LAYOUT-8-08-2 SHEET #

DRAWN BY WCWJ

12-02-20

JOB #



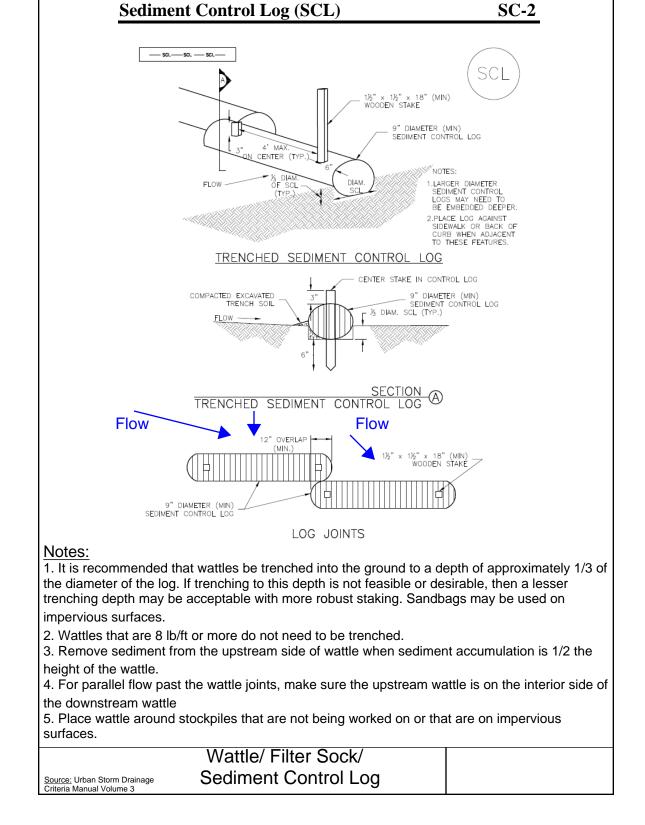
5. Silt fence fabric transition points should have posts interlocked with no gaps in the silt fence

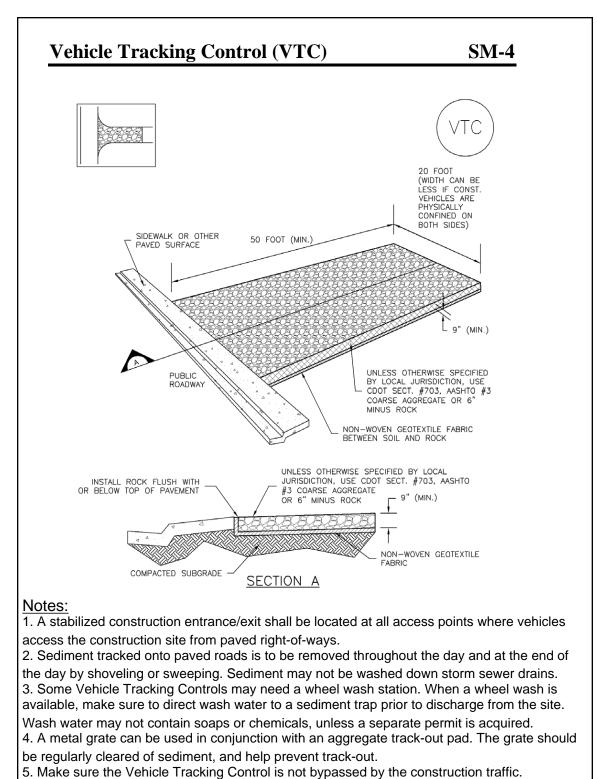
Silt Fence

coverage.

Source: City of Albuquerque

Construction Site Manual 2018

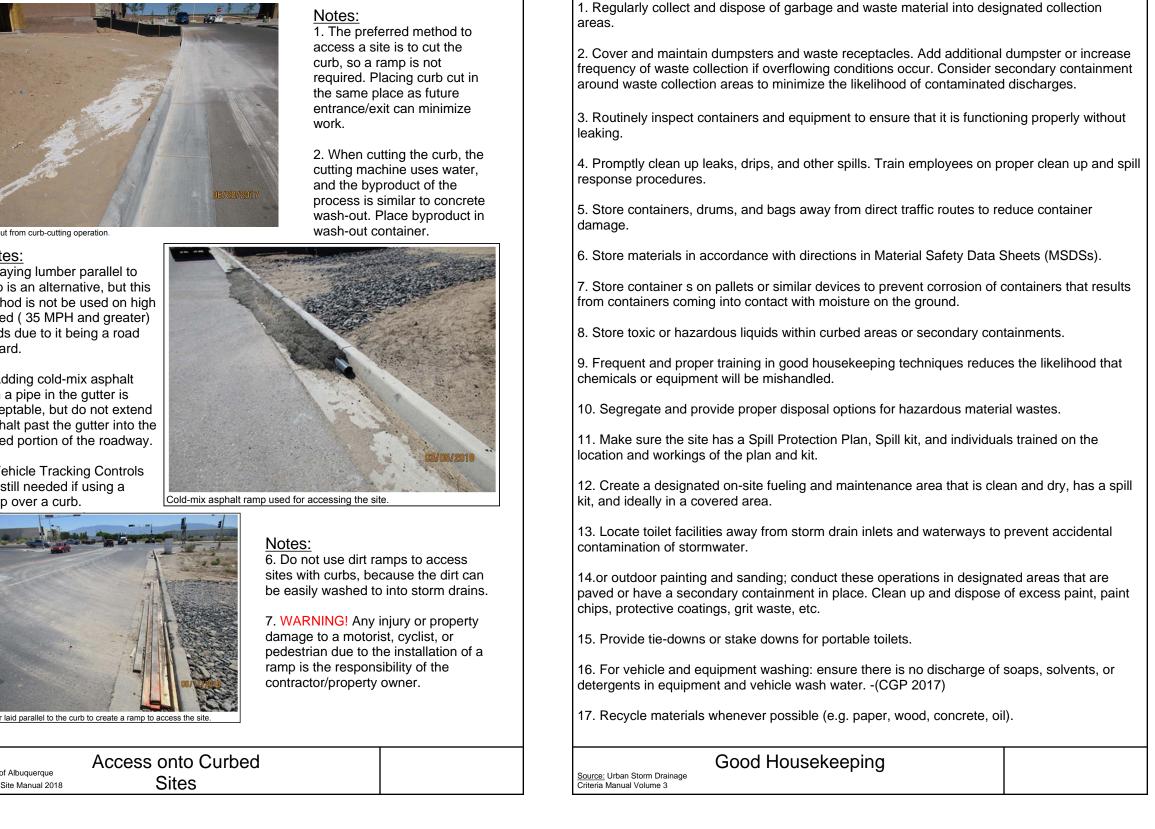




Vehicle Tracking Control

Source: Urban Storm Drainage



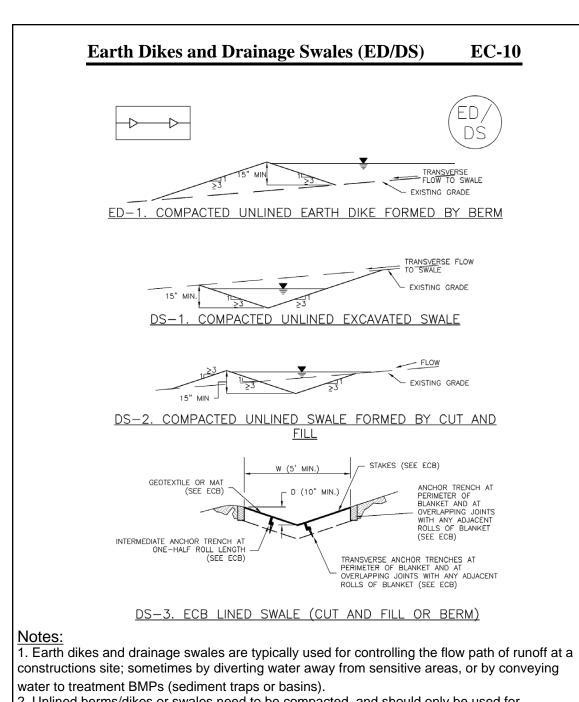


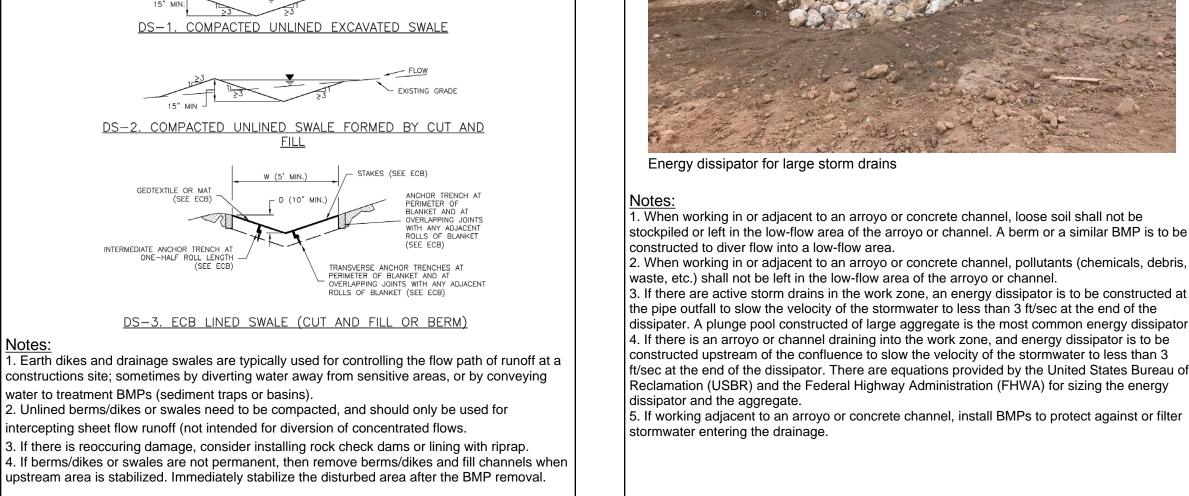


Inlet Protection Part 1

Construction Site Manual 2018

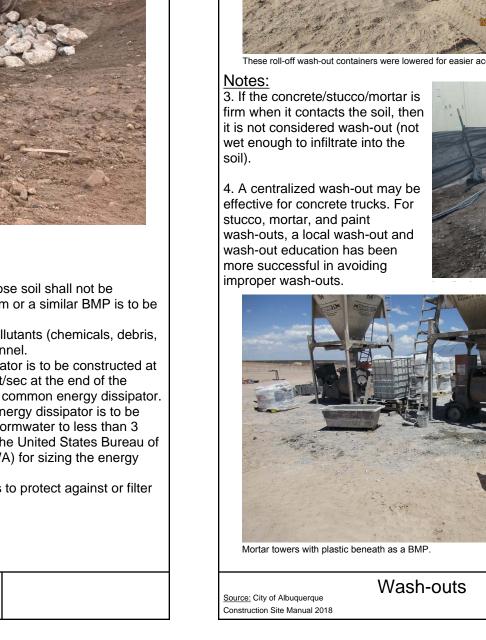


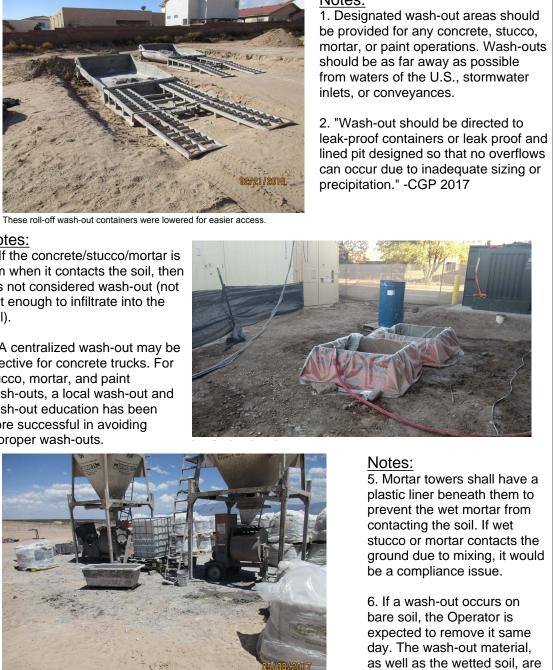




Source: City of Albuquerque Arroyo and Channel

Construction Site Manual 2018 Construction





BMP Information Sheet



Earth Berms/ Dikes/

Source: Urban Storm Drainage
Criteria Manual Volume 3

Drainage Swales

Project Name:	
Owner:	
Operator:	

NPDES Permit #: Sheet:

to be removed and disposed

of appropriately.

ESC Plan Standard Notes (2021-03-24)

- 1. All Erosion and Sediment Control (ESC) work on these plans, except as otherwise stated or provided hereon shall be permitted, constructed, inspected, and maintained in accordance with:
 - a. The City Ordinance § 14-5-2-11, the ESC Ordinance,
 - b. The EPA's 2017 Construction General Permit (CGP), and
 - c. The City Of Albuquerque Construction BMP Manual.
- 2. All BMP's must be installed prior to beginning any earth moving activities except as specified hereon in the Phasing Plan. Construction of earthen BMP's such as sediment traps, sediment basins, and diversion berms shall be completed and inspected prior to any other construction or earthwork. Self-inspection is required after installation of the BMPs and prior to beginning construction.
- 3. Self-inspections At a minimum a routine compliance self-inspection is required to review the project for compliance with the Construction General Permit once every 14 days and after any precipitation event of 1/4 inch or greater until the site construction has been completed and the site determined as stabilized by the city. Reports of these inspections shall be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
- 4. Corrective action reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
- 5. Stabilization reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request. Reports should include records of weed removal per City Ordinance (§ 9-8-1), sterilization, soil test results and recommendation, materials and manufacturer's specifications for application rates, estimated functional longevity, methods of application, inspection and maintenance. The reduced self-inspection schedule in CGP 4.4.1 applies to stabilized area and any damaged or worn stabilization must be identified in the reports along with weed problems. Corrective actions for stabilization shall be documented in a stabilization report including actual rates and dates of stabilization, and the materials and manufacturer's specifications used.
- 6. BMPs shall be inspected and maintained until all disturbed areas are stabilized in accordance with the Final Stabilization Criteria (CGP 2.2.14.b). Generally, all disturbed areas, other than structures and impervious surfaces, must have uniform perennial vegetation that provides 70 percent or more of the cover provided by native vegetation or seed the disturbed area and provide non-vegetative mulch that provides cover for at least three years without active maintenance. Final stabilization must be approved by the City of Albuquerque prior to removal of BMPs and discontinuation of inspections.

Site Owner: Quivira Land LLC

Contact: Tim McNaney

505 433-5862

tmcnaney@twilighthomesnm.com

Site Operators: Twilight Homes

Contact: Tim McNaney

505 433-5862

tmcnaney@twilighthomesnm.com

Stormwater Team: 814 Solutions

Contact: Gaylen Barnett (SWPPP preparer/inspector)

505 382-4828

gaylen@814solutions.com

2nd Contact: Eric Maez (Inspector)

505 401-7843

eric@814solutions.com

BMP Installation: 814 Solutions

Contact: Sergio Lozoya

505 250-3734

sergio@814solutions.com

Project Information:

Acres: 7.5

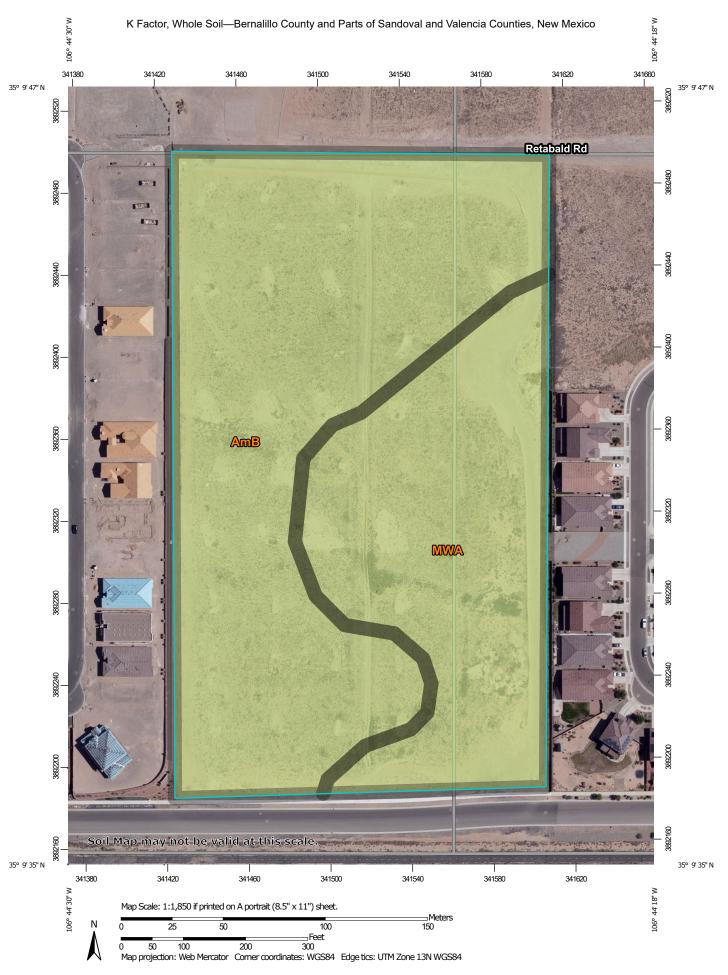
Expected area to be disturbed: 7.5 acres

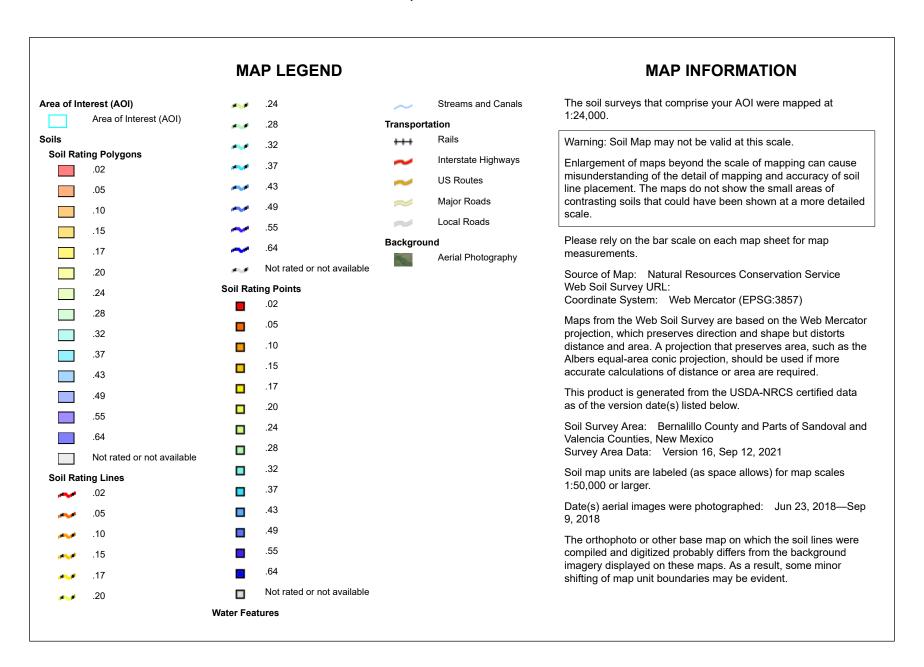
Expected activities (including but not limited to):

- Clearing and grubbing
- Excavation
- Grading

BMP information:

The project will have silt fence surrounding the perimeter of the project to mitigate dust and water runoff. The site slopes to the southeast. A desilting pond will be constructed at the east site.





K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
AmB	Alemeda sandy loam, 0 to 5 percent slopes	.24	8.9	62.7%	
MWA	Madurez-Wink associatin, gently sloping	.24	5.3	37.3%	
Totals for Area of Interest		14.2	100.0%		

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons



= 1.43



Not rated or not available

Soil Rating Lines



= 1.43



Not rated or not available

Soil Rating Points



= 1.43

Not rated or not available

Water Features



Streams and Canals

Transportation





Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico

Survey Area Data: Version 16, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 23, 2018—Sep 9, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Bulk Density, One-Third Bar

Map unit symbol	Map unit name	Rating (grams per cubic centimeter)	Acres in AOI	Percent of AOI
AmB	Alemeda sandy loam, 0 to 5 percent slopes	1.43	8.9	62.7%
MWA	Madurez-Wink associatin, gently sloping	1.43	5.3	37.3%
Totals for Area of Interest		14.2	100.0%	

Description

Bulk density, one-third bar, is the ovendry weight of the soil material less than 2 millimeters in size per unit volume of soil at water tension of 1/3 bar, expressed in grams per cubic centimeter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: grams per cubic centimeter

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified

Tie-break Rule: Higher Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average)

Top Depth: 0

Bottom Depth: 36

Units of Measure: Centimeters