

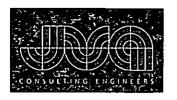
Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 575-8664 fax

www.elpasocountyhealth.org Prevent • Promote • Protect

ON-SITE WA	STEWATER TREATMENT SYSTEM INSP	ECTION FORM	ON-SITE ID:	<u>ON0048931</u>	
			APN#	1600000020	Р
			DATE:	<u>12/27/2016</u>	
APPROVED YES	NO Environmental He	alth Specialist: <u>Kat McGarvy</u>			
Address: <u>14550</u>	Edison Rd Yoder CO 80864 Owner: Edison Sch	ool District 54JT			
Residence: 🔲	#Bedrooms: $\underline{\text{Number}}$ Commercial: $oximes$ System	n Installer: Soil Modification	<u>INC</u>		
SEPTIC TANK: Co	onstruction Material <u>concrete</u> Capaci	ty Gallon <u>1000 gallon - 1000 g</u>	allon - 1000 gallo	n with pump in second	chamber
SOIL TREATMEN	T AREA:				
Trench:	Depth (Range): Width: Total	Length: Sq. Ft.:			
Bed:	Depth (Range): Width: Total	Length: Sq. Ft.:			
	Depth of Rock: Under PVC: Type of	cover on Rock:			
SEEPAGE PITS: #	# of Pits: #2:	Size (L x W) #1 =	#2 Total	Sq. Ft	
CHAMBER SYSTE	EMS:				
Type of Chamber	r: Q4 LP #Chambers: 200 Sq. Ft./Chamber:	12 Bed: 🗌 Trench: 🛛 De	pth (Range):	_	
Sq. Ft. Required	(10-1): Sq. Ft. Required (10-2): Sq	. Ft. Required (10-3):	Sq. Ft. Required f	or Diverter Valve: <u>(10-</u>	2)/(2)
Sq. Ft. Installed:	_				
Engineer Design	: Y □ N ☑ Engineering Firm: App	roval Letter Provided: Y	N 🗍		
	time of OWTS inspection: Y N N D		_		
	e revoked if in the future the well is found to be with		nd/or 100 feet of t	he soil treatment area	
Notes:	Consum received 8.9.18				

and the second



0N0048931 APN 1400000020 12.27.19

JVA, incorporated 1319 Spruce Street Boulder, CO 80302 303 444.1951

info@ivajva.com

August 9, 2018

Catherine McGarvy, Lead Environmental Health Specialist El Paso County Public Health 1675 West Garden of the Gods Road, Suite 2044 Colorado Springs, CO 80907

14450 Edison Rd www.jvajva.com Yoder CO 80864

Onsite Wastewater Treatment System Final Certification - Edison School

Dear Catherine:

The new Onsite Wastewater Treatment System, Onsite ID ON0048931, serving the Edison School located at 14550 South Edison Road in Yoder, CO 80864 is ready for final certification from El Paso County Public Health. JVA has confirmed that the onsite wastewater treatment system was installed according to the plans and specifications. The engineer of record for this system is Kevin Tone with JVA, Inc (JVA). The final record drawings from JVA are provided as an attachment. Please proceed with the closeout process for this onsite wastewater treatment system permit.

Please feel free to contact me at (303) 444-1951 if you have any additional questions.

Sincerely,

JVA, INCORPORATED

By:

Kevin Tone, P.E., LEED AP

President

Enclosure:

Attachment A - JVA Inc. Record Drawings

CC: Simon Farrell, JVA



EXPLICAL NOTES:

1. A SAMAL BE ADMINISTRATIVE OF A LINE CONTINUES OF THE LEGS SERVING AN OFFICE AND A LINE COUNT, COUNTY
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Edison Jr/Sr High School





Construction Documents Permit Set



Area Key Plan

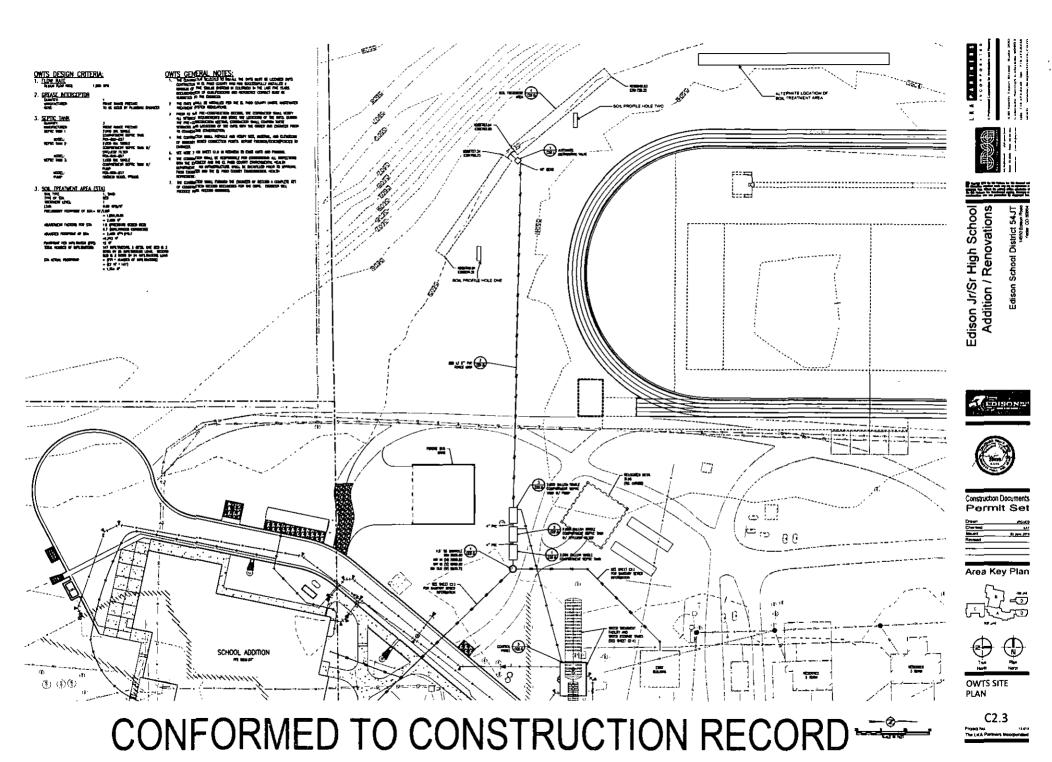


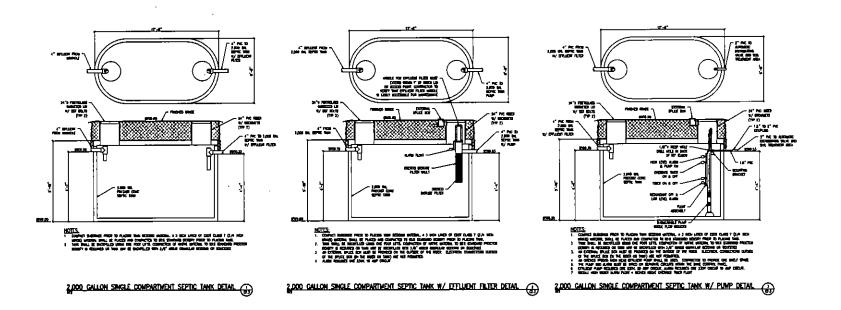


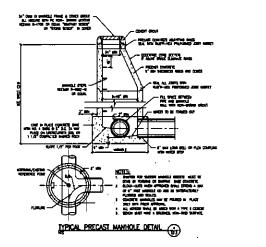


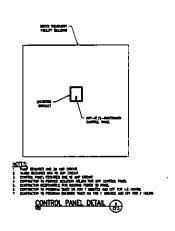
NOTES, LEGEND, AND ABBREVIATIONS

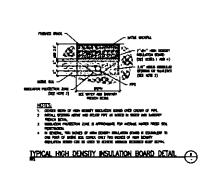
Project No. 15,810 The LRA Partners Incorporated











CONFORMED TO CONSTRUCTION RECORD











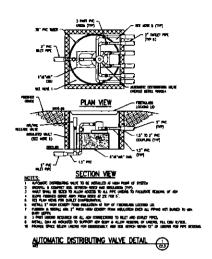


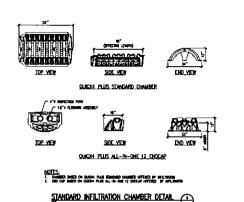


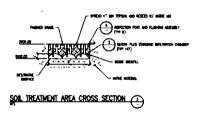


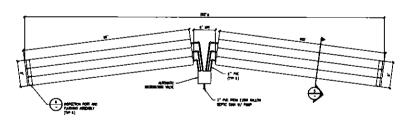
OWTS DETAILS

CD2.0
Project No. 16.014
The LKA Partners Incorporated

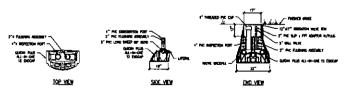








SOIL TREATMENT AREA PLAN



INSPECTION PORT AND FLUSHING ASSEMBLY DETAIL







Construction Documents





OWTS DETAILS

CD2.1 Project No. 18 The LAA Partners Incorpora

Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: EDISON SCHOOL DISTRICT 54JT

14550 S EDISON RD YODER, CO 80864



EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044 COLORADO SPRINGS, CO 80907 PHONE: (719) 578-3199 FAX: (719) 578-3188 www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 7/25/2016 To 7/25/2017

PERMITEE:

EDISON SCHOOL DISTRICT 54JT 14550 S EDISON RD YODER, CO 80864

OWNER NAME:

EDISON SCHOOL DISTRICT 54JT

Onsite ID: ON0048931

Tax Schedule #: 1600000020

Permit Issue Date: 07/25/2016

Dwelling Type: COMMERCIAL

of Bedrooms (if Res): 0
Proposed Use (if Comm):

Designed Gallons/Day: 1,501-2,000 GALLONS.

Water Source: PRIVATE WELL

System Installation Requirements:

Thursday, July 21, 2016 9:28 AM - CHRISTINE JUAREZ
Tier 2 license installer must install system based on the stamped design document dated 07/21/2016.

The OWTS must be installed per the stamped and approved Design Document dated 07/25/2016.

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 8:30 a.m. of the day that the inspection is requested Weekends & Holidays excluded.

Authorized By: Effivironmental Health Specialist

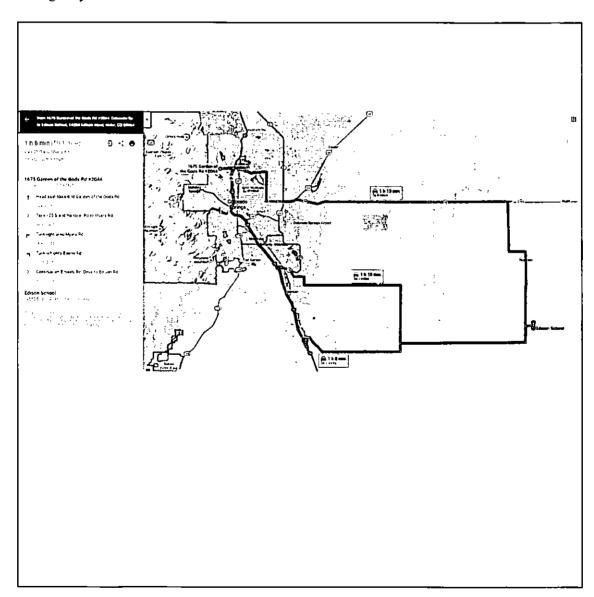


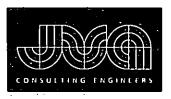
Prevent • Promote • Protect

1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 578-3188 fax: www.elpasocountyhealth.org

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT
X NEW PERMIT MAJOR REPAIR PERMIT MINOR REPAIR PERMIT
Owner Edison School District 54JT Daytime Phone (719) 478-2125
System Installer_Soil Modification, Inc. Daytime Phone (720) 570-0589
Property Address 14550 Edison Road City and Zip Yoder, CO 80864
Legal Description NE 1/4 of NE1/4, Section 36, Township 16S, Range 61W
Owners Mailing Address 14550 Edison Road Yoder, CO 80864
Email Address <u>pbershinsky@edison54jt.org</u> Fax # Not applicable
Tax Schedule #\(\frac{9}{1600000020}\) Lot Size 40 acres
Site Located Inside City Limits Yes X No Primary Contact Owner X Contractor Proposed Use: Single Family Multi-Family X Commercial
Proposed Use: Single Family Multi-Family Commercial Water Supply: Well Cistern Municipal Number of Bedrooms
Pick up: Sax: X Email: pbershinsky@edison54jt.org
doughahn @ Ika Portners. Con
CURRENT FEES AS APPROVED BY THE EI PASO COUNTY BOARD OF HEALTH
New Permit: \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$855.00
Major Repair Permit: \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$548.00
Minor Repair Permit: \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$263.00 • All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)
This permit will expire one year from the date of issuance.
I certify that the Information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El
Paso County Board of Health. I also authorize the assigned representative of 51 Paso County Per lic Health to enter onto this property in order to obtain information necessary for the Issuance of a permit.
Applicants Signature: 14 August Date: 6 28-16
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Site Insp. Date: 7/21/16 Perc. Rate: 4/18/0080 Permit #01/303603
E.H.S. Review Notes: To those school Ki tchen on this septició
grease trap?
gallons daily flow = 1990 (under 2000 gallons perdag
Date to: E.P.C. Development Services 7/13/16 Flood Plain and Enumerations 7/12/13
Permit Requirements: Fret 2 Icense 7/15/16 Amanda with Soil
Modifications (303) 709-9274 Called Will have
installer get El Paso County license
James Cochran Engineer JVA
Caron 1 Stan 1 Stan 1 Stan Coms
2000 taolo 2000 1742
Min. Septic Tank Capacity Min. Absorption Area
E.H. Specialist and Christones Date 7125/16 MApproved Denied
Date 11 - Approved Denied
Reviewed 2016 approved fee (12/30/2015)
demolish old modale & high School, build revi!

- A report is required per Section 8.5 A-E, "Site and Soil Evaluation", or Section 8.5 A-F if the OWTS requires design by a Colorado Registered Professional Engineer. If your permit application submittal is incomplete, the application will not be accepted.
- 2) Property address or lot number must be posted and clearly visible from the road. The percolation test holes and/ or soil profile test pit must be clearly marked or an additional charge for a return trip to the site may be assessed.
- 3) The proposed soil treatment area must be protected from compaction and disturbance by staking, fencing, posting or other effective method.
- 4) In the Box below, please provide complete and accurate directions to the property from a main highway.





June 24, 2016

JVA. Incorporated 1512 Larimer Street Suite 710 Denver, CO 80202 303.444.1951 info@iyajya.com

Mr. Doug Hahn, Principal LKA Partners, Inc. 430 North Tejon Street Colorado Springs, CO 80903

www.jvajva.com

RE:

Edison School District 54JT Projects – Onsite Wastewater Treatment System Site and

Soil Evaluation & Design JVA Job No. 2498.2c

Dear Doug:

Enclosed in this report are the results of the site and soil evaluation for the Edison School middle/high school onsite wastewater treatment system (OWTS). This report provides background information, the results from the preliminary site and soil investigation, the site (reconnaissance) visit, the soil evaluation, the site constraints, and OWTS design. To obtain a construction permit, this report along with the attached OWTS permit application, and design documents can be submitted to El Paso County Public Health and Environment.

BACKGROUND

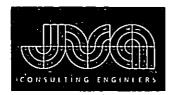
The Edison School District 54JT (Edison School) located in El Paso County at 14550 Edison Road in Yoder, Colorado is planning on updating the current 40 acre campus. In this update, portions of the existing campus will be demolished, renovated, relocated, and/or added onto. The wastewater produced from the proposed middle/high school building is to be treated via an OWTS. For permitting the OWTS a site and soil evaluation was conducted on May 19, 2016 by JVA Design Engineer James Cochran.

PRELIMINARY SITE & SOIL INVESTIGATION

In preparation for a more efficient and informed site visit and soil investigation, a preliminary investigation was conducted on May 12th, 2016. The purpose of the preliminary investigation was to identify site constraints, options for locations of the OWTS, locations of all proposed improvements, topography, soil types, and limiting conditions via web-based programs.

Site constraints are defined as springs, wells, water supply lines, water cisterns, occupied buildings, property lines, irrigation ditches, lakes, watercourses, streams, dry gulches or cut banks, and septic tanks. The horizontal and/or vertical separation distance from these site constraints and the components of the OWTS and soil treatment area (STA) determine where the OWTS and STA can be placed. Specific horizontal and/or vertical setbacks from these site constraints to the OWTS and/or STA are specified in Tables 7-1 and 7-2 of the El Paso County OWTS Regulation. As seen in Appendix A, site constraints, locations of all existing and proposed improvements, and the site topography are displayed and measured horizontally to the OWTS and the STA

Soil types and limiting conditions were identified in the preliminary investigation via Web Soil Survey. As seen in Appendix B, the dominant soil in the STA area of interest is the Olney Sandy Loam complex. This soil complex consists of sandy loam from the surface to approximately one



feet deep, sandy clay loam from one to two feet deep, sandy loams from two to four feet deep, and fine sandy loam throughout the remaining soil profile.

SITE VISIT

A site visit was conducted on May 19th, 2016 by JVA Design Engineer James Cochran. The purpose of the site visit was to identify the topography, landscape position, vegetation, natural and cultural features, and current and historic land use for the proposed OWTS and STA. The topography of the site is flat, with occasional small rolling hills. The proposed landscape position of the OWTS is on a flat area. The dominant vegetation at the proposed OWTS and STA sites was native grasses. No wetlands or other vegetation prone to growing in saturated soils were identified at the proposed OWTS or STA sites. Currently, the area adjacent to the OWTS and STA is used as a sports field and track, Figures 1 and 2 below.

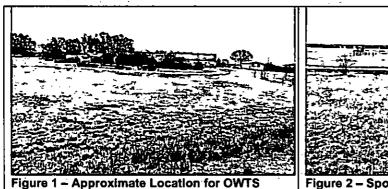


Figure 2 - Sports Field Adjacent to STA

SOIL EVALUATION

Tanks

A visual and tactile soil evaluation was conducted after the site evaluation by JVA Design Engineer James Cochran. Two soil profile holes were excavated using a rubber tired backhoe in the locations identified in the design drawings provided in Appendix A.

As seen in Table 1 below, the soil texture, soil structure shape, soil structure grade, and resulting soil type were classified throughout the soil profile horizon for each profile hole. For each soil profile hole, a topsoil corresponding to a sandy loam was discovered, followed by sand to a depth of eight feet. No redoximorphic or other indications of seasonally high groundwater were observed in either soil profile hole.

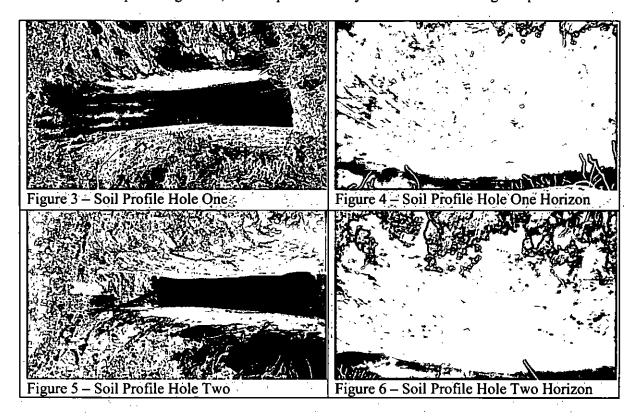
Table 1 - Visual and Tactile Soil Results

Profile Hole	Depth (ft.)	Soil Texture	Percent Rock	Soil Structure Shape	Soil Structure Grade	Soil Type
4	0 = 1' Sandy Lo	Sandy Loam	. 0%	Granular	Moderate	2
ţ	1 – 8	Sand	0%	Not Applicable	Single Grain	1
2	0 – 1	Sandy Loam	0%	Granular	Moderate	2
	2-8	Sand	0%	Not Applicable	Single Grain	1

As seen in Figures 3 through 6 below, the soil profile hole and soil profile horizon are displayed for each of the soil profile holes. Profile hole one was excavated to a depth of approximately eight



feet, had a topsoil of sandy loam and a remaining soil profile of sand. Profile hole two was excavated to a depth of eight feet, had a topsoil of sandy loam and a remaining soil profile of sand.



SITE CONSTRAINTS

Site constraints are defined as springs, wells, water supply lines, water cisterns, occupied buildings, property lines, irrigation ditches, lakes, watercourses, streams, dry gulches or cut banks, and septic tanks. Site constraints identified during the preliminary investigation were re-examined and physically measured during the site visit on May 19th, 2016 by JVA Design Engineer James Cochran. As seen in Appendix A, no site constraints setbacks were in violation.

Onsite Wastewater Treatment System Design

After the detailed soil investigation, sand was found to be the representative soil type for the STA infiltrative surface and four feet below. As per the El Paso County OWTS Regulation, sand with zero percent rock corresponds to a soil type one. For this system, wastewater will flow from the middle/high school to a 2,000 gallon single compartment septic tank where the majority of solids will settle; to another 2,000 gallon single compartment septic tank equipped with an effluent filter to ensure solids remain in the first two septic tanks; to a final 2,000 gallon single compartment septic tank equipped with an effluent dosing pump. From the 2,000 gallon single compartment septic tank with effluent dosing pump, wastewater effluent will be flow through a pressurized pump to an automatic distributing valve; and be pressure dosed to the soil treatment area equipped with infiltration chambers. The complete OWTS design, including STA sizing calculations, is provided in Appendix A.



Edison School Edison School Soil Testing & Design June 24, 2016 4 of 5

Sincerely, JVA, INCORPORATED

James R. Cochrar Design Engineer

Enclosure:

Appendix A - OWTS Design

Appendix B - USDA Websoil Survey Data

Reviewed by: Simon A. Farrell, P.E., REHS - JVA, Inc. Project Engineer



APPENDIX A - OWTS DESIGN

Pump Selection for a Pressurized System - Single Family Residence Project

Edison School

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Discharge Assembly Size	1.50	inches
Transport Length Before Valve	285	feet
Transport Pipe Class	40	
Transport Line Size	2.00	inches
Distributing Valve Model	6608	
Transport Length After Valve	10	feet
Transport Pipe Class	40	
Transport Pipe Size	2.00	inches
Max Elevation Lift	5	feet
Manifold Length	0	feet
Manifold Pipe Class	40	
Manifold Pipe Size	2.00	inches
Number of Laterals per Cell	6	
Lateral Length	100	feat
Lateral Pipe Class	40	
Lateral Pipe Size	2.00	inches
Orifice Size	1/8	inches
Orifice Spacing	2	feat
Residual Head	5	feet
Flow Meter	None	inches
'Add-on' Friction Losses	0	feet

Calculations

Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	51	
Total Flow Rate per Zone	22.2	gpm
Number of Laterals per Zone	1	
% Flow Differential 1st/Last Orifice	3.0	%
Transport Velocity Before Valve	2.1	fps
Transport Velocity After Valve	2.1	fps

Frictional Head Losses

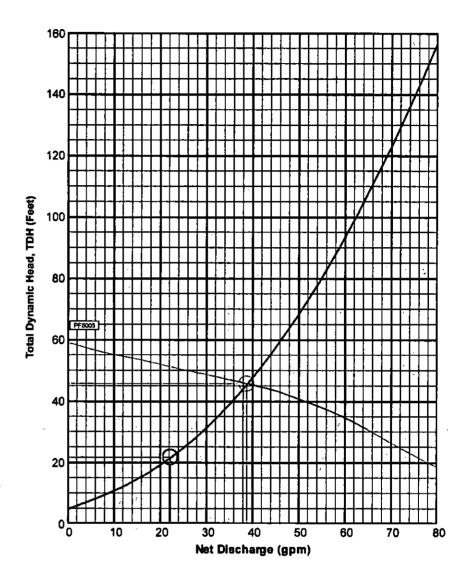
Loss through Discharge	1.5	feet	
Lose in Transport Before Valve	2.5	feet	
Loss through Valve	7.3	feet	
Loss in Transport after Valve	0.1	feet	
Loss in Manifold	0.0	feet	
Loss in Laterals	0.3	feet	
Loss through Flowmeter	0.0	feet	
'Add-on' Edition Losses	0.0	feet	

Pipe Volumes

Vol of Transport Line Before Valve	49.7	gals
Vol of Transport Line After Valve	1.7	gals
Vol of Manifold	0.0	gals
Vot of Laterals per Zone	17.4	gals
Total Vol Before Valve	49.7	gals
Total Vol After Valve	19.2	gals

Minimum Pump Requirements

Design Flow Rete	22.2	gpm	
Total Dynamic Head	21.8	feet	



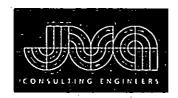
Pump Data

PF5005 High Head Effluent Pump 50 GPM, 1/2HP 115/230V 1Ø 60Hz, 200/230V 3Ø 60Hz

Legend

System Curve: —
Pump Curve: —
Pump Optimal Range —
Operating Point
Design Point





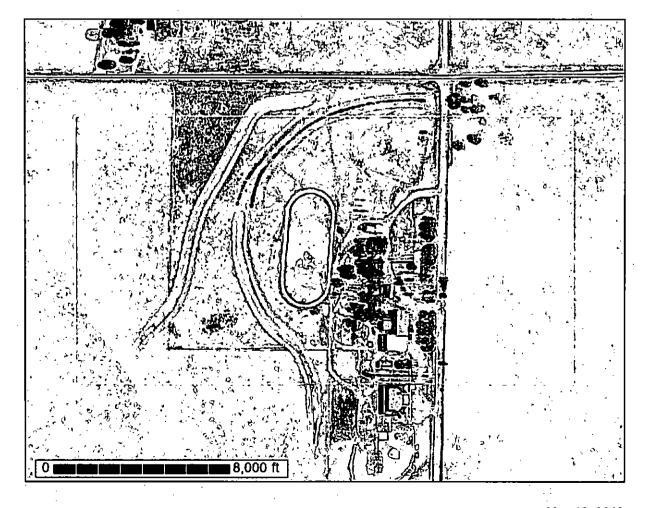
APPENDIX B - USDA WEBSOIL SURVEY DATA



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for El Paso County Area, Colorado



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage, the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

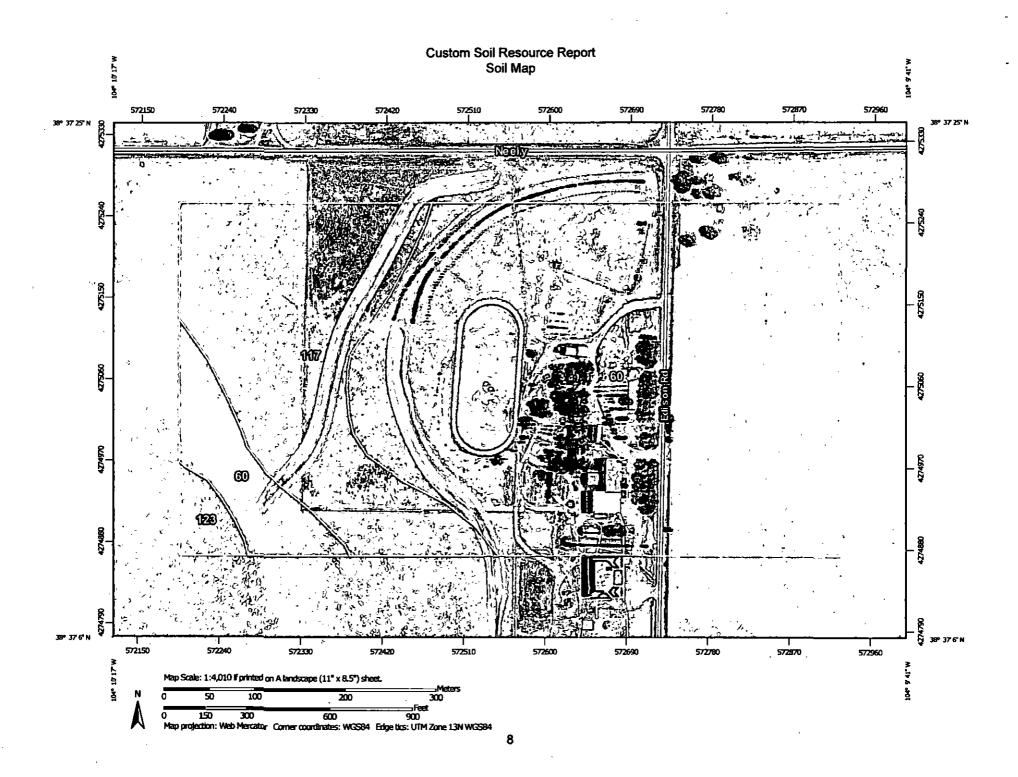
While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Spoil Area Area of Interest (AOI) Ħ Area of Interest (AOI) Stony Spot Solls Δ Very Stony Spot П Soil Map Unit Polygons Wat Spot Sof Map Unit Lines Other Δ Soil Map Unit Points Special Line Features Special Point Features Water Features Blowout (e) Streams and Canals **Borrow Pit** Transportation Clay Spot +++ Rails Closed Depression ٥ Interstate Highways Gravel Pit US Routes **Gravelly Spot** .. Major Roads **64** Landfill 0 Local Roads Lava Flow Background Marsh or swamp Aerial Photography Mine or Quarry Miscellaneous Water 0 Perennial Water Rock Outcrop Saline Spot Sandy Spot 0 Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot

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 rety on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov 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: El Paso County Area, Colorado Survey Area Data: Version 13, Sep 22, 2015

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

Date(s) aerial images were photographed: Apr 15, 2011—Sep 22, 2011

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.

Map Unit Legend

El Paso County Area, Colorado (CO625)					
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
60	Olney sandy loam, 0 to 3 percent slopes	51.6	73.1%		
117	Vonid sandy loam, 0 to 5 percent slopes	17.7	25.1%		
123	Olney-Vonid soils, 1 to 6 percent slopes, eroded	1.2	1.8%		
Totals for Area of Interest		70.5	100.0%		

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments

on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

El Paso County Area, Colorado

60—Olney sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2qnms Elevation: 3,800 to 6,200 feet

Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Olney and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Olney

Setting

Landform: Interfluves

Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Interfluve, base slope

Down-slope shape: Convex Across-slope shape: Linear Parent material: Eolian deposits

Typical profile

A - 0 to 12 inches: sandy loam
Bt - 12 to 24 inches: sandy clay loam
Bk1 - 24 to 46 inches: sandy loam
Bk2 - 46 to 79 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy (G069XW017CO)

Minor Components

Vonid

Percent of map unit: 9 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy, Dry (G069XW019CO), Sandy Plains

(069XY026CO_1)

Oterodry

Percent of map unit: 4 percent

Landform: Hills

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Convex

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy, Dry (G069XW019CO), Sandy Plains

(069XY026CO 1)

Ustertic haplargids, ponded

Percent of map unit: 2 percent Landform: Closed depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Linear Across-slope shape: Concave

Ecological site: Plains Swale (R067BY010CO)

Other vegetative classification: Clayey (G069XW001CO)

117—Vonid sandy loam, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2rgqc Elevation: 4,000 to 6,200 feet

Mean annual precipitation: 12 to 14 inches Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Vonid and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Vonid

Setting

Landform: Sand sheets

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Eolian sands

Typical profile

A - 0 to 6 inches: sandy loam
Bt - 6 to 29 inches: sandy loam
Bk - 29 to 52 inches: sandy loam
C - 52 to 79 inches: loamy sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonimigated): 4c

Hydrologic Soil Group: A

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy, Dry (G019XW019CO)

Minor Components

Olney

Percent of map unit: 10 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy (G069XW017CO)

Valent

Percent of map unit: 4 percent

Landform: Sand sheets

Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Crest, side slope

Down-slope shape: Convex Across-slope shape: Convex

Ecological site: Deep Sand (R067BY015CO)

Other vegetative classification: Loamy, Dry (G069XW019CO), DEEP SANDS (067XY015CO_2)

Ustertic haplargids, ponded

Percent of map unit: 1 percent Landform: Closed depressions Down-slope shape: Concave Across-slope shape: Concave

Ecological site: Plains Swale (R067BY010CO)

Other vegetative classification: Clayey (G069XW001CO)

123—Olney-Vonid soils, 1 to 6 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2t51d Elevation: 4,000 to 6,200 feet

Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Olney, eroded, and similar soils: 50 percent Vonid, eroded, and similar soils: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Olney, Eroded

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit

Down-slope shape: Linear Across-slope shape: Linear Parent material: Eolian deposits

Typical profile

A - 0 to 2 inches: sandy loam

Bt - 2 to 14 inches: sandy clay loam

Bk1 - 14 to 36 inches: sandy loam

Bk2 - 36 to 79 inches: fine sandy loam

Properties and qualities

Slope: 1 to 4 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy (G069XW017CO)

Description of Vonid, Eroded

Setting

Landform: Sand sheets

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Eolian sands

Typical profile

A - 0 to 2 inches: sandy loam
Bt - 2 to 29 inches: sandy loam
Bk - 29 to 52 inches: sandy loam
C - 52 to 79 inches: loamy sand

Properties and qualities

Slope: 1 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: A

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy, Dry (G019XW019CO)

Minor Components

Vonid

Percent of map unit: 5 percent

Landform: Sand sheets

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy, Dry (G019XW019CO)

Olney

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Summit Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy Plains (R069XY026CO)

Other vegetative classification: Loamy (G069XW017CO)

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Sanitary Facilities

Sanitary Facilities interpretations are tools designed to guide the user in site selection for the safe disposal of sewage and solid waste. Example interpretations include septic tank absorption fields, sewage lagoons, and sanitary landfills.

Septic Tank Absorption Fields (Edison)

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

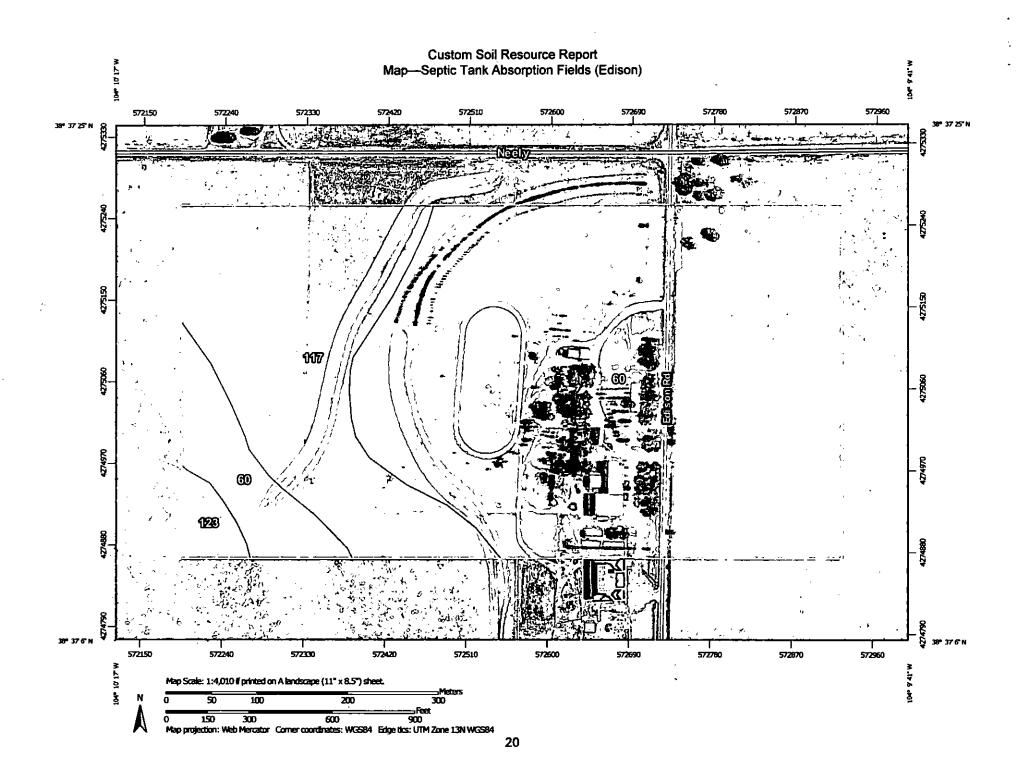
The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning.

design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.



MAP INFORMATION MAP LEGEND The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Background Aerial Photography Area of Interest (AOI) Warning: Soil Map may not be valid at this scale. Solis Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Very limited misunderstanding of the detail of mapping and accuracy of soil line Somewhat limited placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Not limited 514 Not rated or not available Please rely on the bar scale on each map sheet for map Soll Rating Lines measurements. Very limited Source of Map: Natural Resources Conservation Service Somewhat limited Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Not limited Coordinate System: Web Mercator (EPSG:3857) Not rated or not available Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Points projection, which preserves direction and shape but distorts Very limited distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate Somewhat limited calculations of distance or area are required. 0 Not limited This product is generated from the USDA-NRCS certified data as of Not rated or not available the version date(s) listed below. Water Features Streams and Canals Soil Survey Area: El Paso County Area, Colorado Survey Area Data: Version 13, Sep 22, 2015 Transportation Rails +++ Soil map units are labeled (as space allows) for map scales 1:50,000 Interstate Highways or larger. US Routes Date(s) aerial images were photographed: Apr 15, 2011—Sep 22, Major Roads \sim 2011 Local Roads 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.

Tables—Septic Tank Absorption Fields (Edison)

Sep	tic Tank Absorption	on Fields— Sum	mary by Map Unit -	- El Paso County Ai	rea, Colorado (CO	625)
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
60	Olney sandy	Not limited	Olney (85%)		51.6	73.1%
	loam, 0 to 3 percent slopes		Vonid (9%)			
			Oterodry (4%)			
117	Vonid sandy	Not limited	Vonid (85%)		17.7	25.1%
•	loam, 0 to 5 percent slopes		Olney (10%)			
123	Olney-Vonid soils, 1 to 6	Not limited	Olney, eroded (50%)		1.2	1.8%
	percent slopes, eroded		Vonid, eroded (40%)		·	
		•	Olney (5%)			
<i></i>		,	Vonid (5%)			
Totals for Area of	Interest	•			70.5	100.0%

	Septic T	ank Absorption Fields— Summary by Rati	ng Value
Rating		Acres in AOI	Percent of AOI
Not limited		70.5	100.0%
Totals for Area of Interest		70.5	100.0%

Rating Options—Septic Tank Absorption Fields (Edison)

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

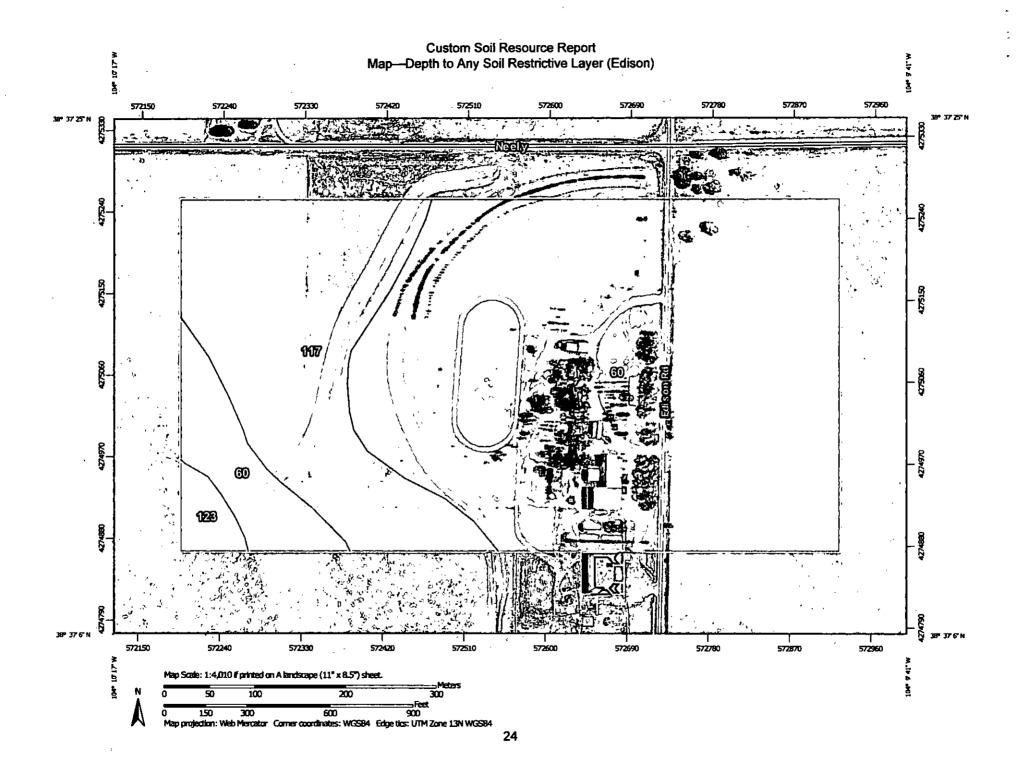
Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Depth to Any Soil Restrictive Layer (Edison)

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

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.



MAP INFORMATION MAP LEGEND The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Not rated or not available Area of Interest (AOI) **Water Features** Warning: Soil Map may not be valid at this scale. Solls Streams and Canals Soil Rating Polygons Transportation Enlargement of maps beyond the scale of mapping can cause 0 - 25 Rails +++ misunderstanding of the detail of mapping and accuracy of soil line 25 - 50 placement. The maps do not show the small areas of contrasting Interstate Highways soils that could have been shown at a more detailed scale. 50 - 100 **US Routes** 100 - 150 Major Roads Please rely on the bar scale on each map sheet for map 150 - 200 measurements. Local Roads > 200 Background Source of Map: Natural Resources Conservation Service Aerial Photography Not rated or not available Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857) Soft Rating Lines 0 - 25 Maps from the Web Soil Survey are based on the Web Mercator 25 - 50 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 50 - 100 Albers equal-area conic projection, should be used if more accurate 100 - 150 calculations of distance or area are required. 150 - 200 This product is generated from the USDA-NRCS certified data as of > 200 the version date(s) listed below. Not rated or not available Soil Survey Area: El Paso County Area, Colorado Soil Rating Points Survey Area Data: Version 13, Sep 22, 2015 0 - 25 Soil map units are labeled (as space allows) for map scales 1:50,000 25 - 50 or larger. 50 - 100 100 - 150 Date(s) aerial images were photographed: Apr 15, 2011—Sep 22. 2011 150 - 200 > 200 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.

Table—Depth to Any Soil Restrictive Layer (Edison)

Map unit symbol	Map unit name	Rating (centimeters)	Acres In AOI	Percent of AOI
			ACIOS III ACI	T dicani di Açi
60	Olney sandy loam, 0 to 3 percent slopes	>200	51.6	73.1%
117	Vonid sandy loam, 0 to 5 percent slopes	>200	17.7	25.1%
123	Olney-Vonid soils, 1 to 6 percent slopes, eroded	>200	1,2	1.8%
Totals for Area of Inter	est	·	70.5	100.0%

Rating Options—Depth to Any Soil Restrictive Layer (Edison)

Units of Measure: centimeters

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified

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

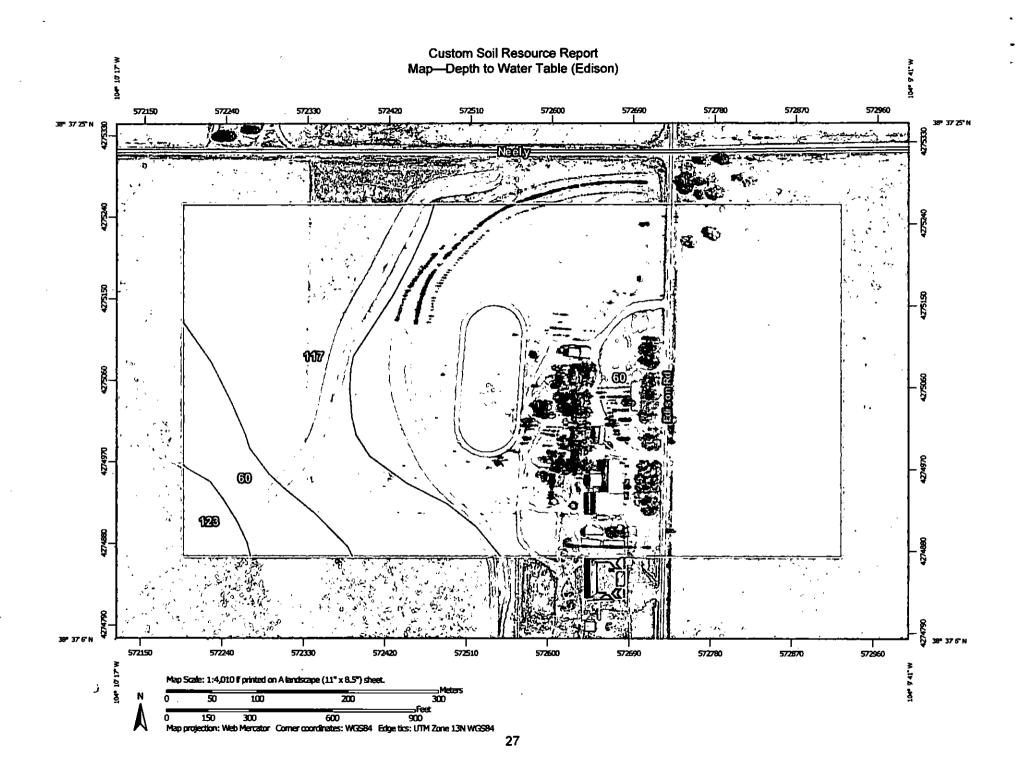
Water Features

Water Features include ponding frequency, flooding frequency, and depth to water table.

Depth to Water Table (Edison)

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

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.



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Not rated or not available Area of Interest (AOI) Water Features Warning: Soil Map may not be valid at this scale. Soils Streams and Canals Soil Rating Polygons Transportation Enlargement of maps beyond the scale of mapping can cause 0 - 25 Rails +++ misunderstanding of the detail of mapping and accuracy of soil line 25 - 50 placement. The maps do not show the small areas of contrasting Interstate Highways soils that could have been shown at a more detailed scale. 50 - 100 **US Routes** 100 - 150 Major Roads Please rely on the bar scale on each map sheet for map 150 - 200 measurements. Local Roads > 200 Background Source of Map: Natural Resources Conservation Service Aerial Photography Not rated or not available Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857) Soil Rating Lines 0 - 25 Maps from the Web Soil Survey are based on the Web Mercator 25 - 50 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 50 - 100 Albers equal-area conic projection, should be used if more accurate 100 - 150 calculations of distance or area are required. 150 - 200 This product is generated from the USDA-NRCS certified data as of > 200 the version date(s) listed below. Not rated or not available Soil Survey Area: El Paso County Area, Colorado **Soil Rating Points** Survey Area Data: Version 13, Sep 22, 2015 0 - 25 25 - 50 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. 50 - 100 100 - 150 Date(s) aerial images were photographed: Apr 15, 2011—Sep 22, 2011 150 - 200 > 200 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.

Table—Depth to Water Table (Edison)

Dept	th to Water Table— Summa	ry by Map Unit — El Paso C	County Area, Colorado (CC	(625)
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
60	Olney sandy loam, 0 to 3 percent slopes	>200	51.6	73.1%
117	Vonid sandy loam, 0 to 5 percent slopes	>200	17.7	25.1%
123	Olney-Vonid soils, 1 to 6 percent stopes, eroded	>200	1.2	1.8%
Totals for Area of Inter	est		70.5	100.0%

Rating Options—Depth to Water Table (Edison)

Units of Measure: centimeters

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

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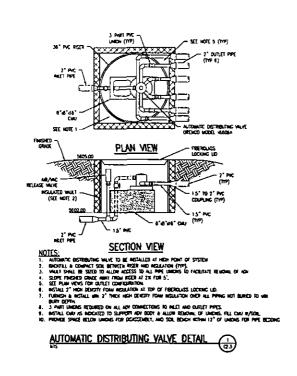
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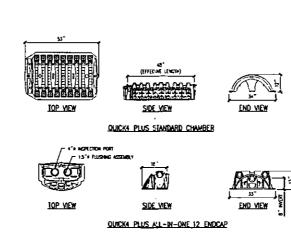
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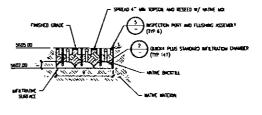


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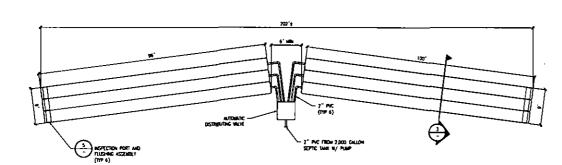
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STANDARD INFILTRATION CHAMBER DETAIL



SOIL TREATMENT AREA CROSS SECTION



- NOTES:

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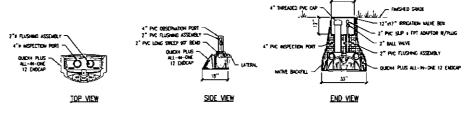
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SOIL TREATMENT AREA PLAN



INSPECTION PORT AND FLUSHING ASSEMBLY DETAIL







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Area Key Plan





OWTS DETAILS

CD2.1 Project No. 15.016 The LKA Partners Incorporated

DETAIL MARKER

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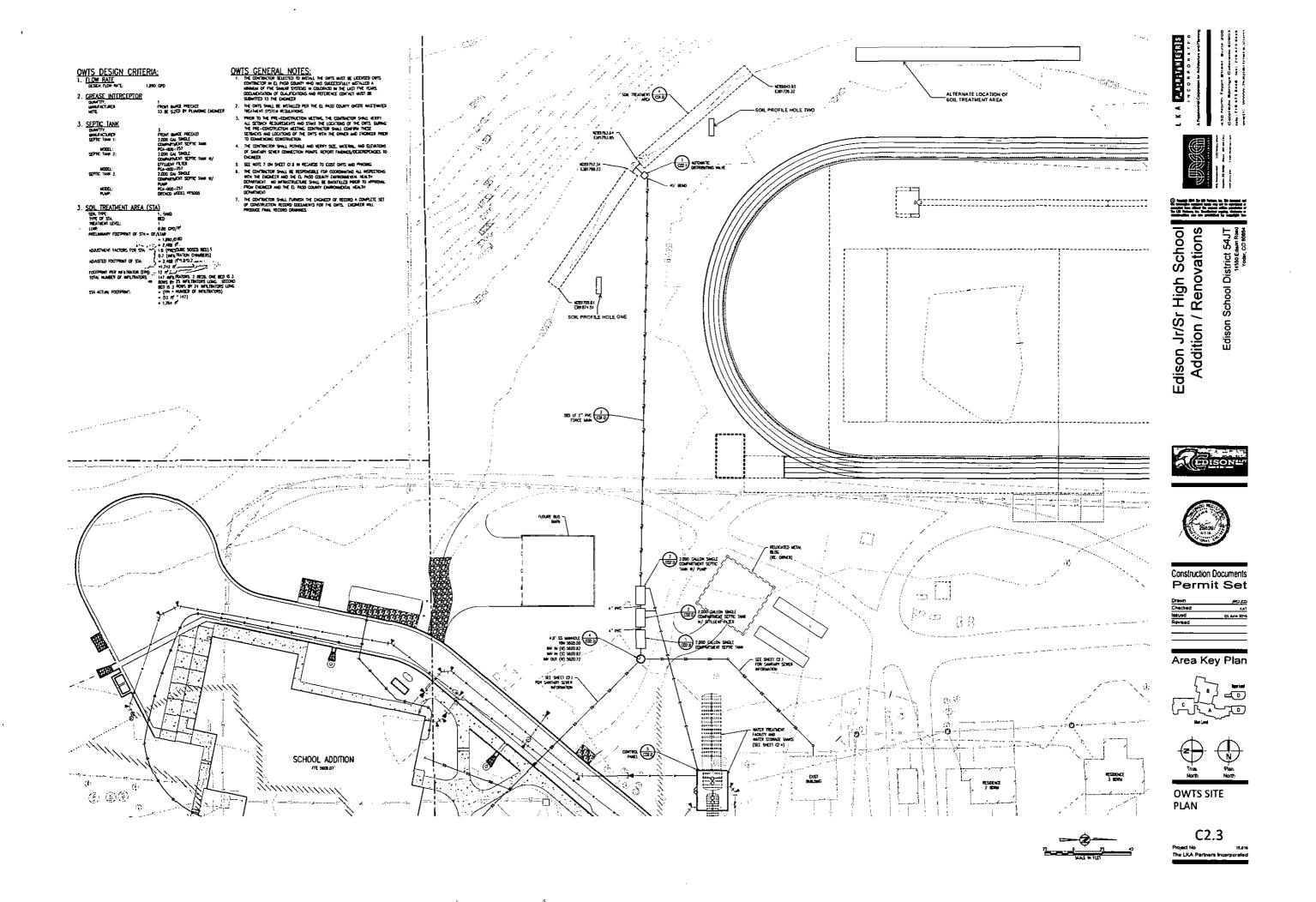
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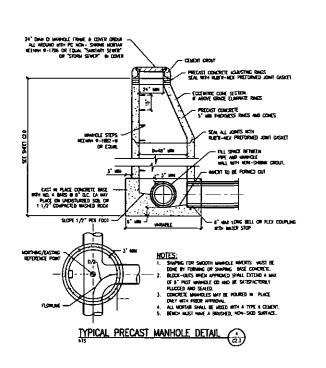
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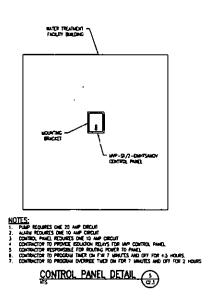


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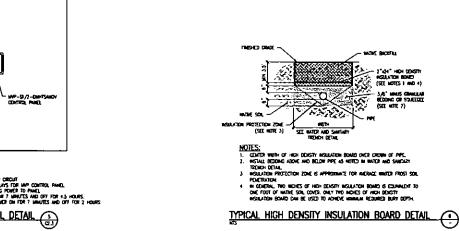
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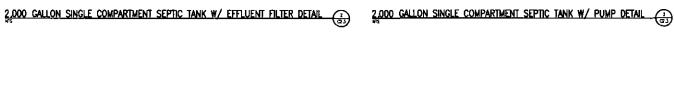
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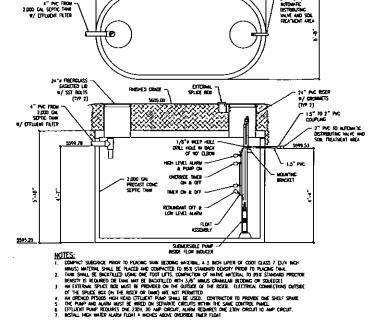
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