STORMWATER MANAGEMENT PLAN (SWMP)

Aspen Ranch Filing No. 1
Fountain, CO

Prepared for:
Colorado Department of Public Health and Environment
Water Quality Control Division-Stormwater Program
WQCD-Permits-B2
4300 Cherry Creek Drive South
Denver, CO 80246-1530

On Behalf Of:

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August, 2020

APPLICANT INFORMATION

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A. INTRODUCTION

In 1972, Congress passed the Federal Water Pollution Control Act (FWPCA), also known as the Clean Water Act (CWA), to restore and maintain the quality of the nation's waterways. The ultimate goal was to make sure rivers and streams were fishable, swimmable, and drinkable. In 1987, the Water Quality Act (WQA) added provisions to the CWA that allowed the EPA to govern stormwater discharges from construction sites. In 1998, EPA published the final notice for General Permits for Stormwater Discharges from Construction Activities Disturbing 5.0 Acres or Greater. On October 29, 1999, EPA revised the minimum acreage to 1.0 Acres or more. The general permit includes provisions for development of a Stormwater Management Plan (SWMP) to maximize the potential benefits of pollution prevention and sediment erosion control measures at construction sites.

Development, implementation, and maintenance of the SWMP will provide the general contractor with the framework for reducing soil erosion and minimizing pollutants in stormwater during construction of the Aspen Ranch Filing No. 1 project site.

This SWMP will:

- Define the characteristics of the site and the type of construction which will be occurring;
- Describe the practices that will be implemented to control erosion and the release of pollutants in stormwater;
- Create an implementation schedule to ensure that the practices described in this SWMP are in fact implemented and to evaluate the plan's effectiveness in reducing erosion, sediment, and pollutant levels in stormwater discharged from the site; and
- Describe the final stabilization/termination design to minimize erosion and prevent stormwater impacts after construction is complete.

This SWMP includes the following:

- Identification of the SWMP Administrator with a description of this person's duties;
- Description of the existing site conditions including existing land use for the site (i.e., parks/open space, residential areas, pavement, buildings, etc.), soil types at the site, as well as the location of any surface waters which are located on or next to the site (wetlands, streams, rivers, lakes, ponds, etc.);
- Identification of the body of water(s) which will receive runoff from the construction site, including the ultimate body of water that receives the stormwater;
- Identification of drainage areas and potential stormwater contaminants; and
- Description of stormwater management controls and various Best Management Practices (BMPs) necessary to reduce erosion, sediment and pollutants in stormwater discharge.

B. GENERAL GUIDANCE

Best Management Practices (BMP's) encompass a wide range of erosion and sediment control practices, both structural and non-structural in nature, that are intended to reduce or eliminate any possible water quality impacts from stormwater leaving a construction site. The individual BMP's appropriate for a particular construction site are largely dependent on the types of potential pollutant sources present, the nature of the construction activity, and specific-site conditions.

Most of the BMP's referenced herein are widely used in the construction industry. They generally involve a simple and low-cost approach and can be very effective when properly installed and maintained.

Structural BMPs shall be coordinated with construction activities so the BMP is in place before construction begins. To prevent soil from washing into the public right-of way or the undisturbed areas of the site, the following BMPs shall be implemented:

- Temporary perimeter controls (e.g. silt fences) will be installed before any clearing and grading begins.
- Stabilized construction site entrance will be constructed before clearing and grading begins.
- Clearing and grading will not occur in an area until it is necessary for construction to proceed.
- Inlet protection measures for existing inlets (block & gravel bag) shall be installed before clearing and grading is initiated.
- Once construction activity ceases permanently in an area, the area will be stabilized with permanent seed and mulch.
- Once the road is cleaned and the surrounding disturbed areas are 70% established with vegetation, the silt fences around the Project site can be removed.
- Exposed slopes greater than 3:1 will be covered by an erosion control blanket with mulching.
- Top soil stock piles will be stabilized with temporary seed and mulch no later than fourteen days from the last construction activities in that area.
- Sediment (mud and dirt) transported onto a public road, regardless of the size of the site, shall be cleaned/removed at the end each day.
- Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed immediately after grading or earth disturbance has occurred. All temporary soil erosion control measures and BMP's shall be maintained until site reaches final stabilization and permanent soil erosion control measures are implemented.

- Sequence of Construction:
  - Install silt fences and sediment logs at designated locations (see plan)
  - Vehicle Tracking Pads shall be provided at entrance/exit points of any disturbed areas, as work progresses, throughout construction
  - Begin construction
  - Perform grading
  - Complete reseeding
  - Remove perimeter controls when "Final Stabilization" is achieved

C. STORMWATER MANAGEMENT PLAN REQUIREMENTS

C.1 General Requirements

This SWMP has been prepared in accordance with engineering, hydrologic and pollution control practices. This SWMP will cover this facility only (the extents of the Project construction site).

This SWMP identifies potential sources of pollution which are reasonably expected to affect the quality of stormwater discharges associated with the construction activity from this site. The practices to be used to reduce the pollutants in stormwater discharges have been described in Section B of this SWMP. The contractor shall be properly prepared and up to date in accordance with *Part I.D.5.c*, to ensure compliance with the terms and conditions of this permit.

The provisions of this SWMP must be implemented as they are written and updated, from the initiation of construction until final stabilization is complete. The Water Quality Control Division reserves the right to review the SWMP, and to require the permittee to develop and implement additional measures to prevent and control pollution as is needed.

Relevant sections from the Spill Prevention Control and Countermeasure (SPCC) plans, or BMP's otherwise required by a separate CDPS permit may be implemented in this SWMP.

C.2 Narrative Site Description

Aspen Ranch Filing No. 1 is a 59 acre site which will consist of 227 single-family residential lots, a fire station and open tracts. The project is located in Northeast Fountain, Colorado. The Latitude and Longitude of the site is Lat: 38°41'20"N and Long: 104°40'20" W. The area is bounded to the south by Kane Road, and to the west by Link Road. To the north of the site is Squirrel Creek Road and to the east is Shumway Road. Development within the surrounding area is mostly in early phases of construction or unconstructed and covered in native grasses. The site lies within the Jimmy Camp Creek drainage basin. Runoff from the site will be directed via storm sewer and swales into the existing detention pond at the southwest corner of the development and discharge to the southeast.

The existing land use consists of undeveloped land. This site is covered primarily with native grasses. Clusters of shrubs do exist at the site. Construction vehicles are expected to be present on-site. The placement of reinforced concrete pipe (RCP) will occur, and, as a result, there is a potential for water quality pollution from sediment washing into constructed storm pipe and adjacent streams. The continual use of inlet/outlet protection, seeding and mulch as well as regular inspections of erosion control measures is imperative to the success of the Project. A total of 62 acres on and offsite will undergo disturbance from construction activity.

The sequence of Construction is as follows:

- Install silt fence at designated locations (see plan)
- Vehicle Tracking Pad shall be provided at the entrance/exit of any disturbed areas, as work progresses, throughout construction
- Begin construction
- Perform grading
- Complete reseeding
- Remove perimeter controls when "Final Stabilization" is achieved

The largest possible sources of non-stormwater pollution will be from trucks during equipment maintenance and refueling operations. The contractor shall be responsible for any spill cleanup during refueling operations in accordance with applicable city, county and state regulations. The contractor will also be responsible for cleanup of any off-site vehicle tracking on paved roads. Other sources of pollution such as vehicle washing, chemical storage or waste disposal are not anticipated. No recognized environmental conditions (REC) have been identified within Project site.

The United States Department of Agriculture, Natural Resources Conservation Service (NRCS); Web Soil Survey of El Paso County Area, Colorado, published by the United States Department of Agriculture, dated July 2020, was utilized to investigate the existing general soil types within and surrounding the Project area. A soil map for this area is provided in the Appendix. Per the information given within the Soil Conservation Survey, the site lies entirely within hydrologic soil group "B". The soil type within the construction site is as follows:

- **Ascalon Sandy Loam, 3 to 9% slopes** – surface runoff is low, well drained soil, the hazard of erosion and soil blowing are moderate to high
- **Ustic Torrifluvents, Loamy** – surface runoff is low, well drained soil, the hazard of erosion and soil blowing are moderate to high

Soil Type

Table 1 - NRCS Soil Survey for El Paso County

Soil ID No.	Soil Type	Hydrologic Classification
3	Ascalon Sandy Loam (3%-9% slopes)	B
101	Ustic Torrifluvents, Loamy	B

The runoff coefficients were selected according to the City of Colorado Springs DCM and are provided in Table 2.

Table 2 - Rational Method Runoff Coefficients

Land Use	5-year	100-year
Historic Analysis	0.09	0.36
Residential, ¼ acre	0.30	0.50
Paved	0.90	0.96

All exposed soil throughout the Project site will be landscaped and/or seeded with a locally approved seed mix.

Estimated Construction Start Date –January 2021

Estimated Construction Completion Date – January 2022

C.3 Site Map

Figure 1: Aspen Ranch Filing No. 1, In the City of Fountain, County of El Paso, State of Colorado

C.4 Stormwater Management Controls

The purpose of this section is to identify the types of temporary and permanent erosion and sediment controls that will be used during construction activities. The controls will provide soil stabilization for disturbed areas and structural controls to divert runoff and remove sediment. This section will also address control of other potential stormwater pollutant sources such as construction materials (paints, concrete dust, solvents, and plaster), waste disposal, control of vehicle traffic, and sanitary waste disposal. SWMP drawings are provided in the Appendix.

The SWMP Administrator for the Project site will be determined by the general contractor. The SWMP Administrator's duties include the following:

- Implement the SWMP plan;

- Oversee installation and maintenance of BMPs as identified in the SWMP;
- Implement and oversee employee training;
- Conduct or provide for inspection and monitoring activities;
- Identify potential pollutant sources and make sure they are added to the plan;
- Identify any deficiencies in the SWMP and make sure they are corrected; and
- Ensure that any changes in construction plans, phasing, or use of BMP's are addressed in the SWMP.

Specific BMP's to be used on the Project site were identified within Section B of this SWMP. The SWMP Administrator will be responsible for documenting BMP's (including phasing of BMP implementation).

Pollutants that result from clearing, grading, and excavation materials and have the potential to be present in stormwater runoff are listed in Table 3. Potential sources of stormwater contamination are listed in Table 4.

Table 3 - Potential Construction Site Stormwater Pollutants

Trade Name or Material	Chemical/Physical Description	Stormwater Pollutants
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates
Concrete	White solid	Limestone, sand
Paints	Various colored liquid	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic
Wastewater from construction equipment washing	Water	Soil, oil & grease, solids
Wood preservatives	Clear amber or dark brown liquid	Stoddard solvent, petroleum distillates, arsenic, copper, chromium
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes

Trade Name or Material	Chemical/Physical Description	Stormwater Pollutants
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Erosion	Solid Particles	Soil, Sediment

Table 4 - Locations of Potential Sources of Stormwater Contamination

Potential Stormwater Contamination	Potential Pollutants	Potential Problem
Construction site entrance	Soils/sediment,	Sediment load increased at storm sewer outfall and tracking of soil into the road through the construction site.
Cleared and Graded Areas	Hydraulic oil, gasoline, antifreeze, soil erosion, fertilizer	Leaking hydraulic oil and antifreeze from clearing and grading construction equipment. Gasoline and diesel fuel spills while fueling construction equipment, and erosion of exposed and stockpiled soils. Asphalt chemicals can be released to stormwater if a rain event occurs before curing is complete.
Any undisturbed areas; Staging Areas	Hydraulic oil, gasoline, antifreeze, soil erosion, fertilizer, pesticides	Leaking hydraulic oil and antifreeze from clearing and grading construction equipment. Gasoline and diesel fuel spills while fueling construction equipment, and erosion of exposed and stockpiled soils. Asphalt chemicals can be released to stormwater if a rain event occurs before curing is complete. Tracking of soil into the road through the construction site entrance.

All waste materials will be collected and stored in a metal dumpster rented from a licensed solid waste management company. All trash and construction debris from the site will be deposited in the dumpster. The contractor will be responsible for the handling of all waste materials on site. No construction materials will be buried on-site. Good housekeeping and spill control practices should be followed during construction to minimize stormwater contamination from petroleum products, fertilizers, paints, and concrete.

A list of best management procedures (BMPs) has been developed and the locations of these BMPs are shown in on the Stormwater Management Plans in the Appendix.

C.5 Areas and Volume Statement

The property encompasses a total area of 59 acres of which 62 acres will undergo disturbance with the addition of 3 acres outside of the property. Approximately 4,030 CY of material will be imported to the site as part of the grading operations.

C.6 Final Stabilization and Long-term Stormwater Management

Once construction activity ceases permanently in an area, the area shall be stabilized with permanent landscaping and/or seed and mulch, or as designated on the SWMP plans. Once the surrounding disturbed areas are 70% established with vegetation, the silt fences around the Project site can be removed.

C.7 Inspection and Maintenance Procedures

Visual inspections of all cleared and graded areas of the construction site will be performed on a minimum occurrence of once per week and/or within 24 hours of the end of any precipitation or snowmelt event that causes surface erosion. The inspection will be the responsibility of the SWMP Administrator. An inspection report form has been provided in the Appendix. The inspection will verify that the structural BMPs described in Section B of this SWMP are functioning properly, in good condition, up to date and minimize erosion. The inspection will also verify that the procedures used to prevent stormwater contamination from construction materials and petroleum products are effective. The following inspection and maintenance practices will be used to maintain erosion and sediment controls:

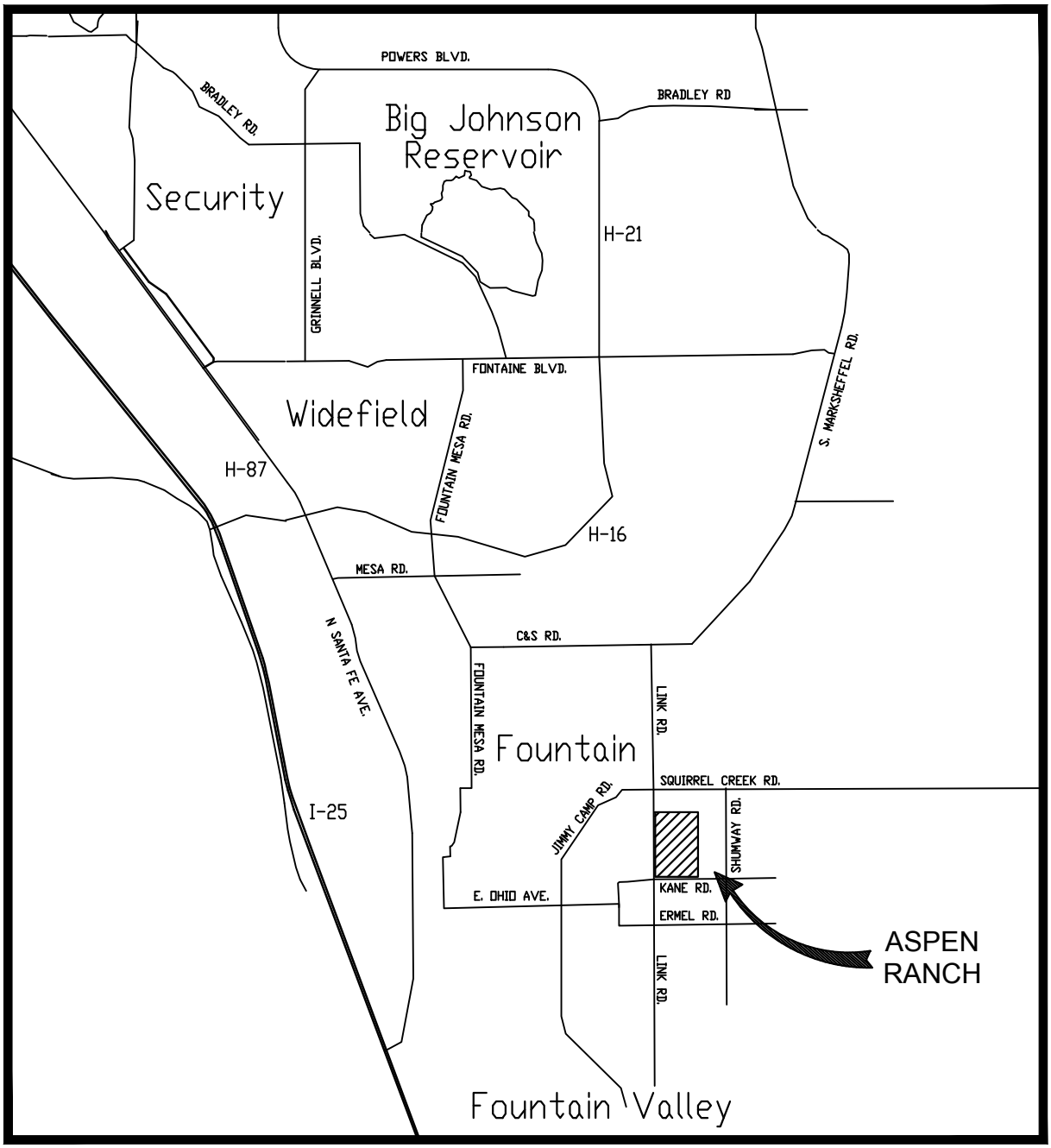
- Built up sediment will be removed from silt fencing when it has reached one-third the height of the fence.
- Silt fences will be inspected for depth of sediment, for tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Sediment basins will be inspected for depth of sediment and built up sediment will be removed when it reaches 1 foot in depth.
- Temporary and permanent seeding will be inspected AND noted for bare spots, washouts, and healthy growth.
- The stabilized construction entrances will be inspected for sediment tracked on the road, for clean gravel, and to make sure that all traffic uses the stabilized entrance when leaving the site.
- The maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the SWMP Administrator is provided in the Appendix. Completed forms will be maintained on-site during the entire construction project. Following construction and the expiration or inactivation of the permit, the completed forms will be retained at the general contractor's office, for a minimum of 3 years.
- If construction activities or design modifications are made to the site plan which could impact stormwater, this SWMP will be amended appropriately. The amended SWMP will have a description of the new activities that contribute to the increased pollutant loading and the planned source control activities.

D. ADDITIONAL SWMP AND BMP RESOURCES

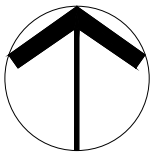
An employee training program should be developed and implemented to educate employees about the requirements of the SWMP. This education program will include background on the components and goals of the SWMP and hands-on training in erosion controls, spill prevention and response, good housekeeping, proper material handling, disposal and control of waste, equipment fueling, and proper storage, washing, and inspection procedures.

This plan was prepared in accordance with the Colorado Discharge Permit System (CDPS) General Permit. A copy of this permit is provided in the Appendix.

Appendix



VICINITY MAP



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SWMP Drawings

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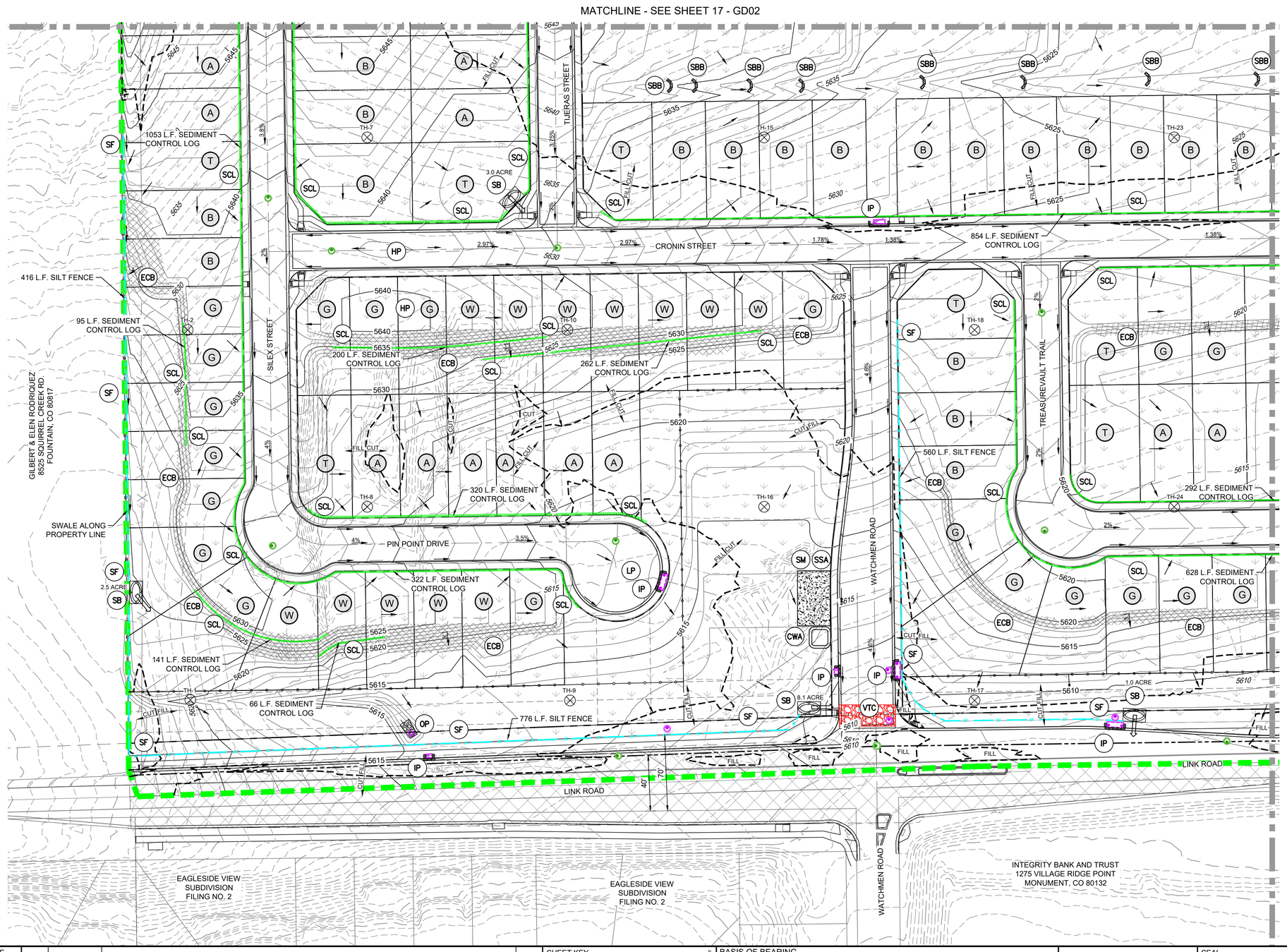

GRAPHIC SCALE

50' 0' 50' 100'

(IN FEET)
1 inch = 50 ft.

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REFERENCE DRAWINGS

X-Title-W
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X-886-EX-BASE-MATRIX
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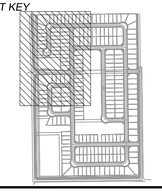

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ASPEN RANCH

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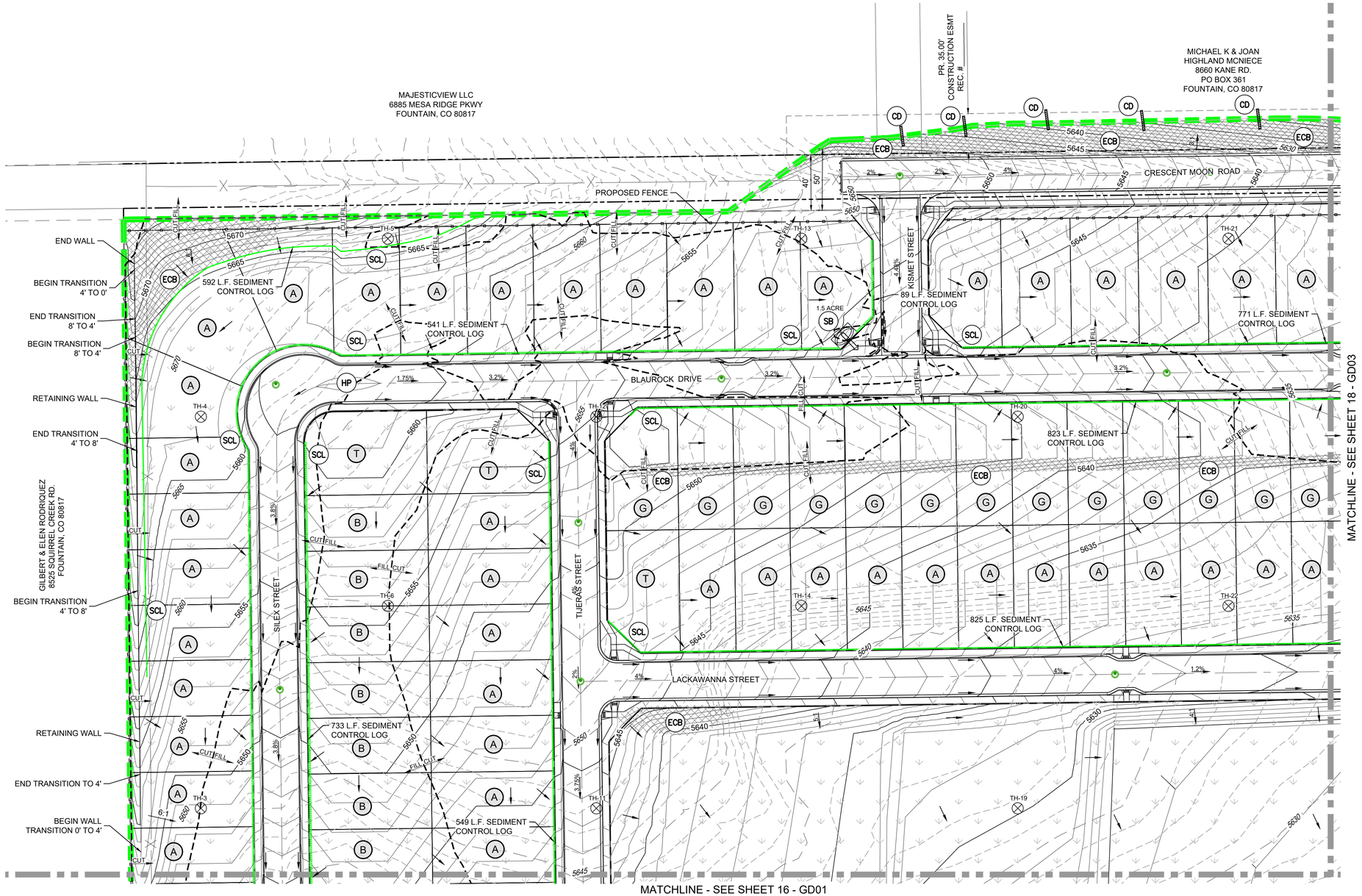

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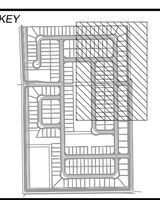

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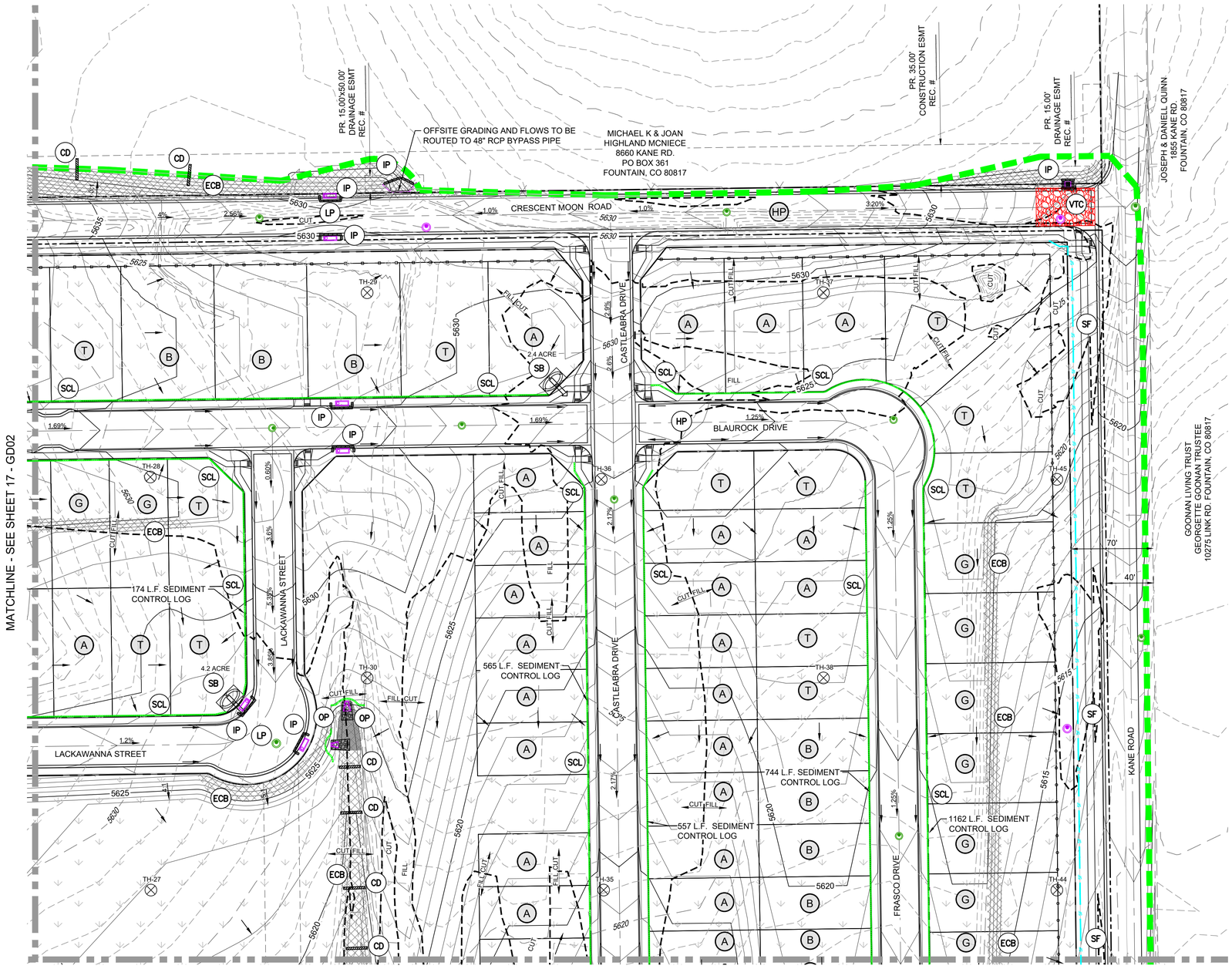

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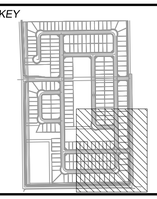


BASIS OF BEARING

THE BASIS OF BEARINGS USED FOR THIS PROJECT IS THE SOUTH LINE OF TRACT 28 AS DEPICTED ON THAT CERTAIN ALTA/NSPS SURVEY RECORDED DECEMBER 13, 2017 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDED UNDER RECEPTION NUMBER 217900230 BEING MONUMENTED ON EACH END BY FOUND REBAR WITH AN AFFIXED 2 INCH ALUMINUM CAP STAMPED "DB&CO PLS 23515" ASSUMED TO BEAR SOUTH 89°16'26" WEST 1280.00 FEET.

BENCHMARK

THE BENCHMARK USED FOR THIS MAP IS A CITY OF FOUNTAIN GPS CONTROL POINT NUMBER 102, PROJECT CONTROL NUMBER 9000, BEING A FOUND 3-1/4" ALUMINUM CAP ATOP A 3/4" REBAR AND MARKED "FGIS 102" LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF KANE ROAD AND LINK ROAD AND APPROXIMATELY 18 FEET EAST OF A POWER POLE AND APPROXIMATELY 10 FEET NORTH OF THE NORTHERN EDGE OF PAVEMENT HAVING A PUBLISHED NAVD88 (NORTH AMERICAN VERTICAL DATUM OF 1988) ELEVATION OF 5604.02 U.S. SURVEY FEET.

PREPARED BY:

Matrix

SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.023

ASPEN RANCH

CITY OF FOUNTAIN
100% CONSTRUCTION DOCUMENTS

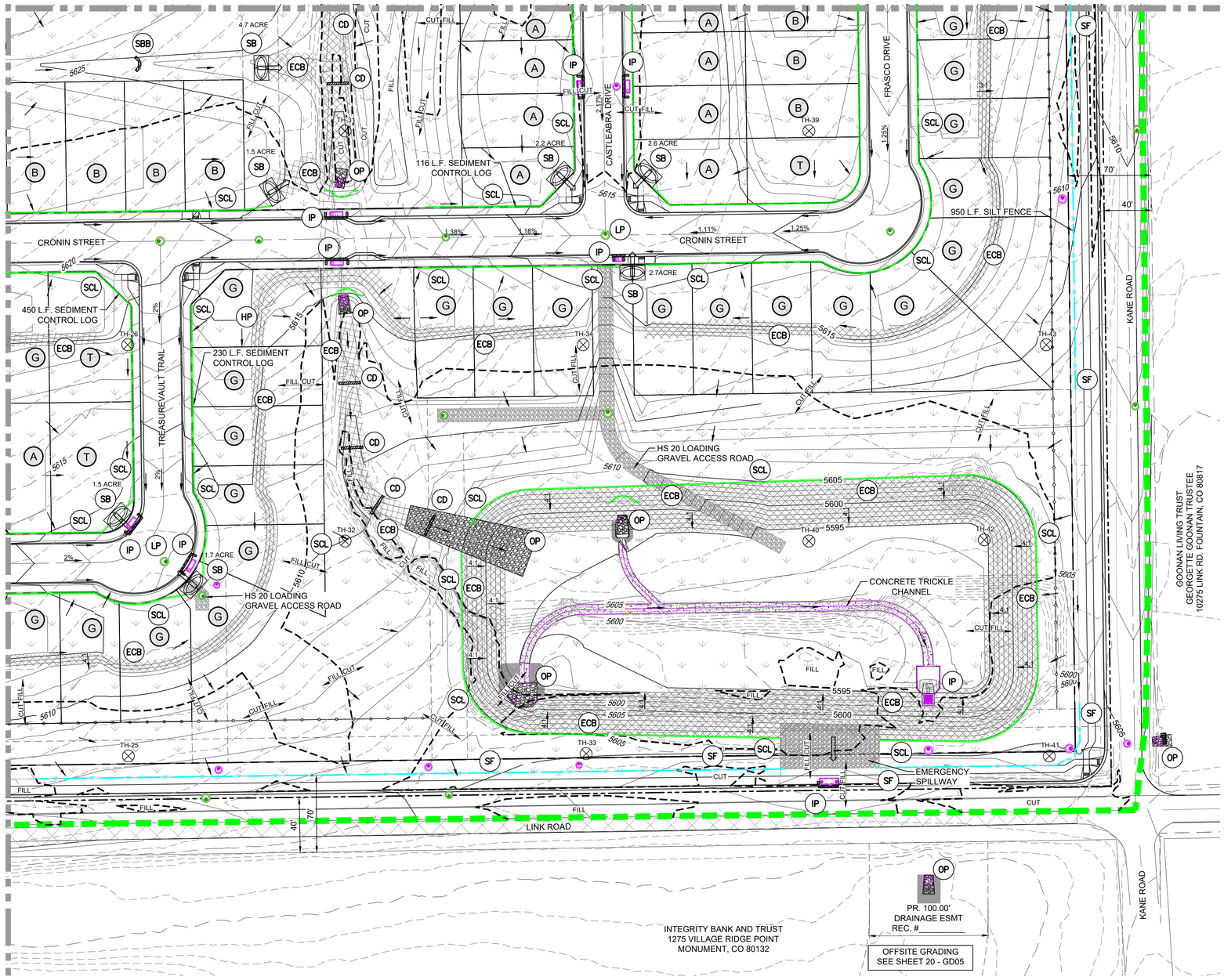
OVERLOT GRADING

DESIGNED BY: CRD	SCALE	DATE ISSUED: AUGUST 2020	DRAWING No.
DRAWN BY: TRS	HORIZ. 1"=50'		
CHECKED BY: JAO	VERT. N/A	SHEET 18 OF 128	GD03

Know what's below. Call before you dig.

MATCHLINE - SEE SHEET 18 - GD03

MATCHLINE - SEE SHEET 16 - GD01



N

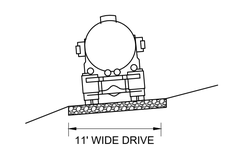
GRAPHIC SCALE

50' 0' 50' 100'

(IN FEET)
1 inch = 50 ft.

EROSION CONTROL LEGEND

SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
TM	TEMPORARY MULCHING AND SEEDING
SCL	SEDIMENT CONTROL LOG
CD	CHECK DAM
SBB	STRAW BALE BARRIER
VTC	VEHICLE TRACKING CONTROL
SB	SEDIMENT BASIN
CWA	CONCRETE WASHOUT
SM SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
IP	INLET PROTECTION
HP LP	HIGH POINT / LOW POINT
7050	PROPOSED CONTOURS
5975	EXISTING CONTOURS
4:1	SLOPE DIRECTION
	PROPERTY LINE
	CUT/FILL LINE
	OVERFLOW ROUTE
	LIMITS OF DISTURBANCE & PROJECT BOUNDARY LINE
	GEOTECHNICAL TEST HOLE (SEE GEOTECHNICAL REPORT)
A	LOT DRAINS TO STREET
B	LOT DRAINS TO STREET & REAR OF LOT
T	LOT DRAINAGE VARIES
G	GARDEN LEVEL BASEMENT
W	WALK OUT BASEMENT



TYPICAL ACCESS ROAD
N.T.S.

REFERENCE DRAWINGS

X-Title-W
X-886-PR-SITE PLAN
X-886-EX-BASE-MATRIX
X-886-PR-UTIL
X-886-EX-MAP

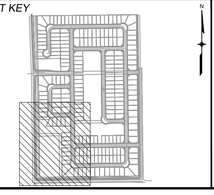
No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: S:\19.886.023 Aspen Ranch\100 Dwg\104 Plan Sets\Construction Plans\100% CDs\GRADING\GD01.dwg
CTB FILE: ----
PLOT DATE: August 27, 2020 1:42:28 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY



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OVERLOT GRADING

DESIGNED BY: CRD	SCALE	DATE ISSUED: AUGUST 2020	DRAWING No.
DRAWN BY: TRS	HORIZ. 1"=50'	SHEET 19 OF 128	GD04
CHECKED BY: JAO	VERT. N/A		

SWMP Inspection & Maintenance Log

Stormwater Management Plan Inspection and Maintenance Log

Aspen Ranch Filing No. 1

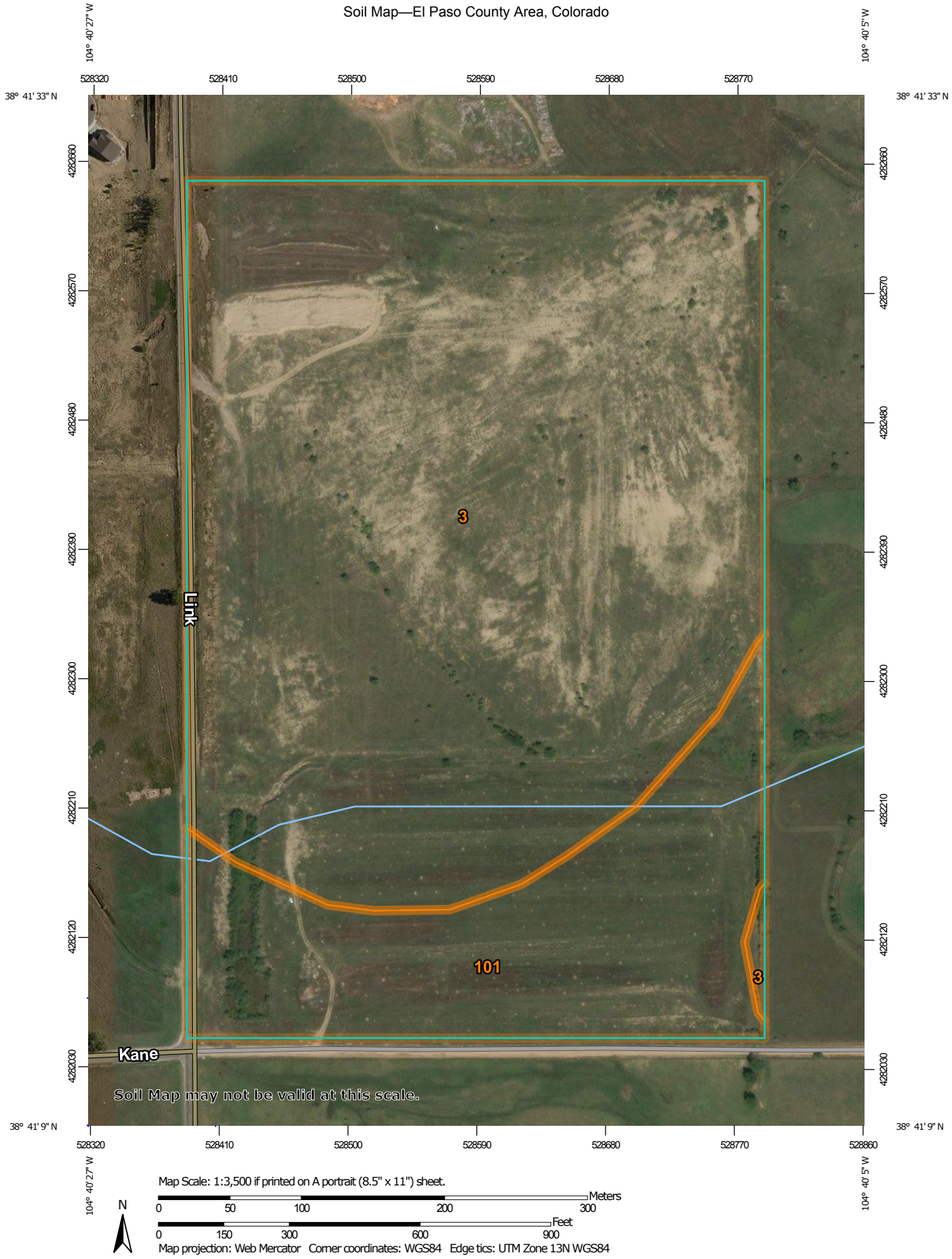
Fountain, CO

(Record inspections, items found maintenance and corrective actions taken. Also, record any training received by Contractor personnel with regard to erosion control, materials handling and any inspections by outside agencies)

DATE	ITEM	SIGNATURE OF PERSON MAKING ENTRY

Soil Survey of El Paso County Area Soils Map

Soil Map—El Paso County Area, Colorado



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

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: El Paso County Area, Colorado
Survey Area Data: Version 15, Oct 10, 2017

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—Mar 9, 2017

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

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ascalon sandy loam, 3 to 9 percent slopes	46.6	77.9%
101	Ustic Torrifluvents, loamy	13.2	22.1%
Totals for Area of Interest		**59.8**	**100.0%**

El Paso County Area, Colorado

3—Ascalon sandy loam, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 2tlny
Elevation: 3,870 to 5,960 feet
Mean annual precipitation: 13 to 18 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 95 to 155 days
Farmland classification: Not prime farmland

Map Unit Composition

Ascalon and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ascalon

Setting

Landform: Interfluves
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Wind-reworked alluvium and/or calcareous sandy eolian deposits

Typical profile

Ap - 0 to 6 inches: sandy loam
Bt1 - 6 to 12 inches: sandy clay loam
Bt2 - 12 to 19 inches: sandy clay loam
Bk1 - 19 to 35 inches: fine sandy loam
Bk2 - 35 to 80 inches: fine sandy loam

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 5.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Salinity, maximum in profile: Nonsaline (0.1 to 1.9 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Minor Components

Olnest

Percent of map unit: 10 percent
Landform: Interfluves
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Vona

Percent of map unit: 5 percent
Landform: Interfluves
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Data Source Information

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 15, Oct 10, 2017

El Paso County Area, Colorado

101—Ustic Torrifluvents, loamy

Map Unit Setting

National map unit symbol: 3673
Elevation: 5,500 to 7,000 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 47 to 52 degrees F
Frost-free period: 125 to 155 days
Farmland classification: Not prime farmland

Map Unit Composition

Ustic torrifluvents and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ustic Torrifluvents

Setting

Landform: Flood plains, stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy, clayey, stratified loamy

Typical profile

A - 0 to 6 inches: variable
C - 6 to 60 inches: stratified loamy sand to clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
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: 10 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Saline Overflow LRU's A & B (R069XY037CO)
Other vegetative classification: OVERFLOW (069BY036CO)
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

Pleasant

Percent of map unit:
Landform: Depressions
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 15, Oct 10, 2017

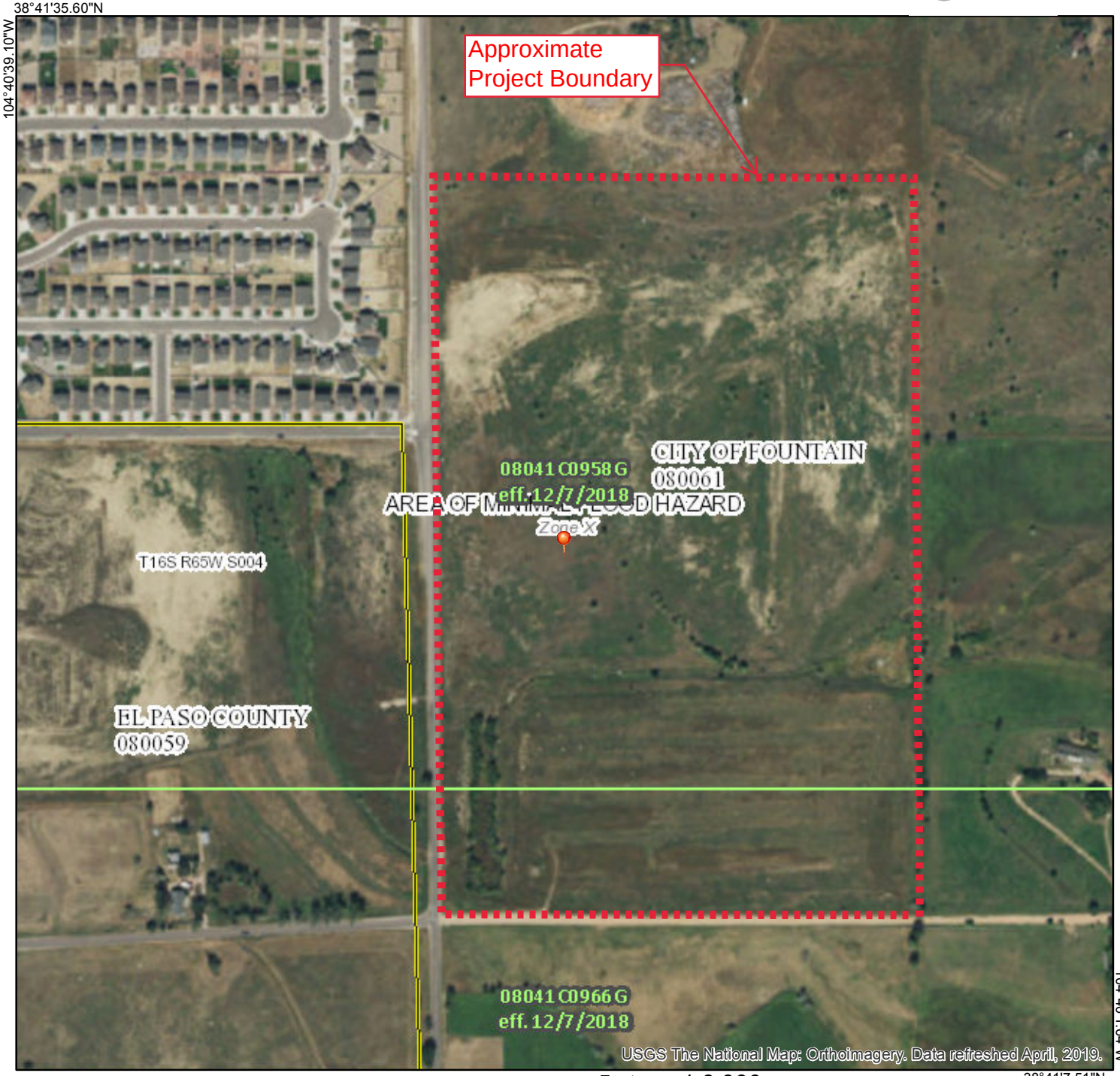
FEMA FIRM Floodplain Maps

National Flood Hazard Layer FIRMette

FEMA

38°41'35.60"N

104°40'39.10"W



104°40'1.64"W

38°41'7.51"N

Feet 1:6,000

0 250 500 1,000 1,500 2,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2019 at 12:43:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

CDPHE General Permit

STATE OF COLORADO

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, Colorado

http://www.cdphe.state.co.us

Colorado Department of Public Health and Environment

For Agency Use Only

Permit Number Assigned

COR03- _____

Date Received ____/____/____
Month Day Year

COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION

PHOTO COPIES, FAXED COPIES, PDF COPIES OR EMAILS WILL NOT BE ACCEPTED.

Please print or type. **Original signatures are required**. All items must be completed accurately and in their entirety for the application to be deemed complete. Incomplete applications will not be processed until all information is received which will ultimately delay the issuance of a permit. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be submitted by mail or hand delivered to:

Colorado Department of Public Health and Environment
Water Quality Control Division
4300 Cherry Creek Drive South
WQCD-P-B2
Denver, Colorado 80246-1530

Any additional information that you would like the Division to consider in developing the permit should be provided with the application. Examples include effluent data and/or modeling and planned pollutant removal strategies.

PERMIT INFORMATION

Reason for Application: ☐ NEW CERT
☐ RENEW CERT EXISTING CERT #_____

Applicant is: ☐ Property Owner ☐ Contractor/Operator

A. CONTACT INFORMATION - NOT ALL CONTACT TYPES MAY APPLY * indicates required

***PERMITTEE (If more than one please add additional pages)**

***ORGANIZATION FORMAL NAME: _____**

1) ***PERMITTEE** the person **authorized to sign and certify** the permit application. This person receives all permit correspondences and is **legally responsible** for compliance with the permit.

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No:_____

email address_____

Organization: _____

Mailing Address: _____

City:_____ State: _____ Zip: _____

This form <u>must be signed</u> by the Permittee (listed in item 1) to be considered complete.
Per Regulation 61 <u>In all cases</u>, it shall be signed as follows:

a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
b) In the case of a partnership, by a general partner.
c) In the case of a sole proprietorship, by the proprietor.
d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official

2) **DMR COGNIZANT OFFICIAL (i.e. authorized agent)** the person or position authorized to **sign and certify reports required by the Division** including Discharge Monitoring Reports *DMR's, Annual Reports, Compliance Schedule submittals, and other information requested by the Division. The Division will transmit pre-printed reports (ie. DMR's) to this person. If more than one, please add additional pages. Same As 1) Permittee ☐

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No:_____

email address_____

Organization: _____

Mailing Address: _____

City:_____ State: _____ Zip: _____

Per Regulation 61 : All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:
(i) The authorization is made in writing by the permittee
(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a **named individual** or any individual occupying a **named position);** and
(iii) The written authorization is submitted to the Division

3) ***SITE CONTACT** local contact for questions relating to the facility & discharge authorized by this permit for the facility.

☐ Same As 1) Permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No:_____

email address_____

Organization: _____

Mailing Address: _____

City:_____ State: _____ Zip: _____

4) * **BILLING CONTACT** if different than the permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No:_____

email address_____

Organization: _____

Mailing Address: _____

City:_____ State: _____ Zip: _____

5) OTHER CONTACT TYPES (check below) Add pages if necessary:

ResponsiblePosition (Title): _____

Currently Held By (Person): _____

Telephone No:_____

email address_____

Organization: _____

Mailing Address: _____

City:_____ State: _____ Zip: _____

- ○ **Pretreatment Coordinator**
- ○ **Environmental Contact**
- ○ **Biosolids Responsible Party**
- ○ **Property Owner**
- ☐ **Inspection Facility Contact**
- ☐ **Consultant**
- ☐ **Compliance Contact**
- ☐ **Stormwater MS4 Responsible Person**
- ☐ **Stormwater Authorized Representative**
- ☐ **Other** _____

B. Permitted Project/Facility Information

Project/Facility Name _____

Street Address or cross streets_____

(e.g., "S. of Park St. between 5th Ave. and 10th Ave.", or "W. side of C.R. 21, 3.25 miles N. of Hwy 10"; A street name without an address, intersection, mile marker, or other identifying information describing the location of the project is not adequate. For **linear projects**, the route of the project should be described as best as possible with the location more accurately indicated by a map.)

City, _____Zip Code _____County _____

Facility Latitude/Longitude— (approximate center of site to nearest 15 seconds using one of following formats

001A Latitude _____. _____Longitude _____ . _____(e.g., 39.703°, 104.933°')
degrees (to 3 decimal places) degrees (to 3 decimal places)

or

001A Latitude _____ º _____' _____" Longitude _____º _____' _____" (e.g., 39°46'11"N, 104°53'11"W)
degrees minutes seconds degrees minutes seconds

For the approximate center point of the property, to the nearest 15 seconds. The latitude and longitude must be provided as either degrees, minutes, and seconds, or in decimal degrees with three decimal places. This information may be obtained from a variety of sources, including:

- ○ **Surveyors or engineers** for the project should have, or be able to calculate, this information.
- ○ EPA maintains a **web-based siting tool** as part of their Toxic Release Inventory program that uses interactive maps and aerial photography to help users get latitude and longitude. The siting tool can be accessed at **www.epa.gov/tri/report/siting_tool/index.htm**
- ○ **U.S. Geological Survey topographical map(s)**, available at area map stores.
- ○ Using a **Global Positioning System (GPS) unit** to obtain a direct reading.

***Note**: the latitude/longitude required above is not the directional degrees, minutes, and seconds provided on a site legal description to define property boundaries.*

C. MAP (Attachment) If no map is submitted, the permit will not be issued.

Map: Attach a map that indicates the site location and that CLEARLY shows the boundaries of the area that will be disturbed. Maps must be **no larger** than 11x17 inches.

D. LEGAL DESCRIPTION

Legal description: If subdivided, provide the legal description below, or indicate that it is not applicable (**do not** supply Township/Range/Section or metes and bounds description of site)

Subdivision(s): _____ Lot(s): _____ Block(s): _____

OR

☐ Not applicable (site has not been subdivided)

E. AREA OF CONSTRUCTION SITE

Total area of project site (acres):_____ Area of project site to undergo disturbance (acres): _____

Note: aside from clearing, grading and excavation activities, disturbed areas also include areas receiving overburden (e.g., stockpiles), demolition areas, and areas with heavy equipment/vehicle traffic and storage that disturb existing vegetative cover

Total disturbed area of Larger Common Plan of Development or Sale, if applicable: _____
(i.e., total, including all phases, filings, lots, and infrastructure not covered by this application)

Provide both the total area of the construction site, and the area that will undergo disturbance, in acres. **Note:** aside from clearing, grading and excavation activities, disturbed areas also include areas receiving overburden (e.g., stockpiles), demolition areas, and areas with heavy equipment/vehicle traffic and storage that disturb existing vegetative cover (see construction activity description under the APPLICABILITY section on page 1).
If the project is part of a **larger common plan of development or sale** (see the definition under the APPLICABILITY section on page 1), the disturbed area of the total plan must also be included.

F. NATURE OF CONSTRUCTION ACTIVITY

Check the appropriate box(s) or provide a brief description that indicates the general nature of the construction activities.
(The full description of activities must be included in the Stormwater Management Plan.)

- ☐ Single Family Residential Development
- ☐ Multi-Family Residential Development
- ☐ Commercial Development
- ☐ Oil and Gas Production and/or Exploration (including pad sites and associated infrastructure)
- ☐ Highway/Road Development (not including roadways associated with commercial or residential development)
- ☐ Other – Description:

_____

G. ANTICIPATED CONSTRUCTION SCHEDULE

Construction Start Date: _____ Final Stabilization Date: _____

- *Construction Start Date* - This is the day you expect to begin ground disturbing activities, including grubbing, stockpiling, excavating, demolition, and grading activities.
- *Final Stabilization Date* - in terms of permit coverage, this is when the site is finally stabilized. This means that all ground surface disturbing activities at the site have been completed, and all disturbed areas have been either built on, paved, or a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels. **Permit coverage must be maintained until the site is finally stabilized. Even if you are only doing one part of the project, the estimated final stabilization date must be for the overall project.** If permit coverage is still required once your part is completed, the permit certification may be transferred or reassigned to a new responsible entity(s).

H. RECEIVING WATERS (If discharge is to a ditch or storm sewer, include the name of the ultimate receiving waters)

Immediate Receiving Water(s):_____

Ultimate Receiving Water(s):_____

Identify the receiving water of the stormwater from your site. Receiving waters are any waters of the State of Colorado. This includes all water courses, even if they are usually dry. If stormwater from the construction site enters a ditch or storm sewer system, identify that system and indicate the ultimate receiving water for the ditch or storm sewer. **Note:** a stormwater discharge permit does not allow a discharge into a ditch or storm sewer system without the approval of the owner/operator of that system.

I. REQUIRED SIGNATURES (Both parts i. and ii. must be signed)

Signature of Applicant: The applicant must be either the owner and/or operator of the construction site. Refer to Part B of the instructions for additional information.

The application must be signed by the applicant to be considered complete. In all cases, it shall be signed as follows: (Regulation 61.4 (1ei)

a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
b) In the case of a partnership, by a general partner.
c) In the case of a sole proprietorship, by the proprietor.
d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

STOP!: A Stormwater Management Plan must be completed prior to signing the following certifications!

i. STORMWATER MANAGEMENT PLAN CERTIFICATION

"I certify under penalty of law that a complete Stormwater Management Plan, has been prepared for my activity. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the Stormwater Management Plan is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for falsely certifying the completion of said SWMP, including the possibility of fine and imprisonment for knowing violations."

XX

Signature of Legally Responsible Person or Authorized Agent (submission must include original signature) Date Signed

Name (printed) Title

ii. SIGNATURE OF PERMIT LEGAL CONTACT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I understand that submittal of this application is for coverage under the State of Colorado General Permit for Stormwater Discharges Associated with Construction Activity **for the entirety of the construction site/project described and applied for, until such time as the application is amended or the certification is transferred, inactivated, or expired**."

XX

Signature of Legally Responsible Person (submission must include original signature) Date Signed

Name (printed Title

DO NOT INCLUDE A COPY OF THE STORMWATER MANAGEMENT PLAN

DO NOT INCLUDE PAYMENT – AN INVOICE WILL BE SENT AFTER THE CERTIFICATION IS ISSUED.