



Flying Horse North Filing No. 5 Stormwater Management Plan (SWMP)

October 2025

HR Green Project No: 211030.250

El Paso County No. SF-

SF2427

Prepared For (Applicant/Owner):

PRI #2, LLC.

Mr. Drew Balsick

Vice President / Project Manager

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Prepared By:

HR Green Development, LLC

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(719) 318-0871

Item Numbers refer to SWMP Checklist

Item 1. Add Qualified Stormwater Manager an Contractor Information to cover/title sheet. If unknown, add a placeholder to be updated pri to the pre-construction meeting:
QUALIFIED STORMWATER MANAGER
Name:
Company:
Company:
Address:
CONTRACTOR
Name:
Company:
Address:
71001000.

Designated Stormwater Manager:

[TBD Name]

[TBD Company Name]

GEC Administrator: <

Update info block to be for the Contractor/Operator

[TBD Name]

[TBD Company Name]

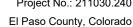


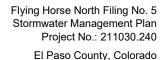


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▶ PREPARING ENGINEER:

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▶ PERMITEE:

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Title:

Address:

Phone Number:

Name: Drew Balsick

Company: Flying Horse Development, LLC.

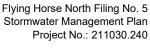
Title: Owner/Developer

Phone Number: (719) 785-3237

Address: 2138 Flying Horse Club Drive, Colorado Springs, CO 80921

DESIGNATOR STORMWATER MANAGER

DEGIGNATOR OT ORMINATER MANAGER
Contact:
Company:
Title:
Phone Number:
Address:
GEC ADMINISTRATOR:
Contact:
Company:





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Engineer's Statement

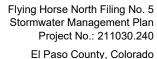
Name: Richard D. Lyon, P.E.

The Stormwater Management Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County and State for Stormwater Management Plans.

Date:___

09/05/2024

Phone Number: 719-394-2435
Seal
Poviny Engineer's Statement
Review Engineer's Statement
The Stormwater Management Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request.
Date:
Review Engineer
Remove. The County does not sign SWMPs





Site Location & Description

Location

Flying Horse North Filing No. 5 is in El Paso County. The larger Flying Horse North development is bordered by Highway 83 to the west, Black Forest Road to the east, Cathedral Pines to the south, and High Forest Ranch to the north. The greater Flying Horse North area contains approximately 1,459 acres within the whole Section 36, Township 11 South, Range 66 West of the Sixth Principal Meridian, and a portion of Section 30 and 31, Township 11 South, and Range 65 West of the Sixth Principal Meridian. The Flying Horse Filing No. 5 area is approximately 115.1 acres of single-family residential subdivision development located to the south of Old Stagecoach Road, to the west of Filing No. 4.

Legal Description

Flying Horse North Filing No. 5

Description of Property

The Flying Horse North Filing No. 5 property is located within the central and east side of the Flying Horse North subdivision to the south of Old Stagecoach Road. The Filing No. 5 area to the west of Filing No. 4 and adjacent to the existing Flying Horse North Golf Course.

The Filing No. 5 area totals 115.1 acres consisting of 2.5-acre single-family residential estate lots totaling 21 lots, and two 60' public rights-of-way with local rural residential roadways and a large 52.6 acre open space park Tract area. There are no pond proposed for this Filing as it is tributary to an existing Filing No. 4 pond. Of the total Filing No. 5 area, approximately 58 acres (50%) consists of the proposed 21 residential estate lots; 52.7 acres (46%) consists of Tract A which is the open space park area; and 4.5 acres (4%) consists of public right-of-way. The development includes the single-family residential lots for future development, 60' width rights-of-way that consist of asphalt paved roadways with roadside swale sections, public improvement easements, and electric easements available to Mountain View Electric Association.

The entire filing falls within the East Cherry Creek Basin. There are no existing formal channels or drainageways traversing the site. The stormwater runoff for areas of proposed development within the East Cherry Creek basin drain to Filing No. 4's Pond B to provide full spectrum detention to ensure that the developed condition stormwater runoff release rates from the site are at or below historical rates. There are areas of disturbance and development that cannot be feasibly captured by a basin and drain directly offsite. These areas do not exceed one acre in total. The existing Filing No. 4 detention pond over-detains stormwater volumes and releases at the appropriate rates from its outlet structure to account for these areas that drain directly offsite.

Neighboring Areas

The surrounding areas include Flying Horse North Filing No. 1 and the golf course to the west, parts of Filing No. 1 to the east near Black Forest Road, Country View Estates to the south, and Terra Ridge subdivision filings to the east. There are also unplatted RR-5 agricultural parcels adjacent to the filing located to the north. The land uses at the perimeter of Filing No. 5 include residential large acreage lots (RR-5 and RR-2.5) and the commercial golf course.



What other temporary sediment basins? There are only two temporary sediment basins shown on the GEC plans which seem to already be referenced in the previous sentence.

The permanent ponds that will treat this site are not proposed to be constructed under this project, this is confusing.

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Please clarify. Is "proposed ponds" referring to Temporary Sediment Basin A & Temporary Sediment Basin B per GEC plan pg. 3?

Construction Activity

The proposed development is to only include construction of the roadway and utilities. Future site development plans will include the design of the park area within this filing. Construction activities include but are not limited to corridor grading, pavement installation, and final stabilization of the proposed roadways and right-of-way corridors, and storm sewer and culvert pipe installation.

A vertical/final phase plan is included within the GEC and SWMP report for the future development of the 21 2.5-acre single-family residential estate lots which will include construction of homes in the vicinity of the designated pad sites shown on the plans, driveways with culvert pipes, and any hardscape and landscaping.

Construction will begin with setting up perimeter controls which is prescribed to be silt fence along the disturbance areas, designated stockpile areas, and filing boundary. Following perimeter control, construction activity includes corridor grading for the roadways, installation of erosion control blanket and permanent turf rolled matting products for roadside swales, and storm pipe and drainage structure installations. Construction will be completed with final stabilization including permanent seeding and mulch per the GEC plan set.

Temporary stabilization measures (silt fence and vehicular tracking control) will be installed prior to construction. Stabilized staging area(s) and stockpile management area(s) are shown on the GEC plans in designated areas. During construction, temporary stabilization measures, including culvert inlet protection, temporary sediment basins, and erosion control blanket, will be utilized to control stormwater runoff. The proposed ponds will serve as temporary sediment basins to collect stormwater runoff and sediment during construction activities for disturbed areas. Other temporary sediment basins capture runoff and sediment for the areas of disturbance greater than one acre that are not tributary to the larger permanent ponds. Once final stabilization is achieved, temporary erosion control measures will be removed.

No off-site disturbance is anticipated in terms of property ownership. There is an area of daylight grading outside of the boundary but this property is owned by the Flying Horse North property ownership group and the construction activity is permitted.

II. Construction Phasing

"temporary control measures"

Please identify by name the permanent ponds you are referring to.

Phasing and Sequence Schedule

The proposed sequence of major construction activities and Construction Control Measures for the project as are follows:

- 1. Install VTC, SSA, SP, TSB and other perimeter erosion and stormwater control measures (i.e. silt fence, construction fence etc.) (Spring of 2025)
- 2. Install Inlet Protection control measures (Spring of 2025)
- 3. Clear, grub and grade site for improvements. Install ECB and TRM per GEC plans. (Spring of 2025)
- 4. Excavate and install improvements including underground piping and drainage structures. (Summer of 2025)
- 5. Landscaping, restoration and final stabilization. Ensure final stabilization achieved prior to site closure. (Fall/Winter 2025)



6. Remove construction BMPs (Fall/Winter 2025)

Construction Documentation

Construction drawings are provided with this document showing the Grading and Erosion Control plan for this project and are intended to be a "living" document used by the SWMP Manager to document construction activities. See Appendix E for record log.

III. Pre-Development Conditions and Soils

Floodway

According to the current FEMA Flood Insurance Rate Maps FEMA FIRM 08041C0315G, revised December 7, 2018, this site is designated as Zone X (outside 0.2% chance of flood). See Appendix A for FEMA FIRM Exhibit.

Existing Vegetation

The existing vegetative cover is approximately 90 percent as evidenced by a field survey and aerial imagery. The existing vegetation includes native grasses and weeds, and shrubs. There are some disbursed trees along the Old Stagecoach Road right-of-way.

Existing Drainage Patterns

The site is tributary to the East Cherry Creek drainageway. Stormwater from the site flows into Pond B within Filing No. 4 which outlets onsite within the subdivision boundary and is directed to natural offsite drainageways that ultimately drain to the East Cherry Creek. There are no stream crossings located in within the construction boundary.

The stormwater outfalls to the respective downstream waterways from this site are not in the vicinity of this site and are not directly connected to outfall locations. The East Cherry Creek is located approximately one mile east of the boundary of Filing No. 5. The outfall from the filing is via the public 24" RCP culvert pipe under Black Forest Road that drains from the west to the east where stormwater continues downstream through subdivisions east of the site via overland flow. There are no public or private storm outfall pipes known to convey stormwater from the site directly to outfall locations at the East Cherry Creek.

Existing Slopes

The Filing No. 5 area consists of varied slopes between 1% and 20% with several peaks and gullies throughout the property.

Soils

According to the US Department of Agriculture Natural Resources Conservation Service Soil Survey of El Paso County, Colorado, the primary soils through the filing area are Peyton sandy loam and Peyton-Pring complex within the East Cherry Creek basin area. These soil types within the filing are within Hydrologic Soil Group B. Runoff coefficients for this study were selected based on "A/B" type soils. This agrees with the MDDP report which also identified these soil classifications and hydrologic soil groups for the area. A copy of the soil map for the site can be found in Appendix A.

The existing soil types have a slight potential for erosion which can be mitigated by employing appropriate downstream construction control measures before/during/after construction to limit potential impacts to



Item 14. Discharges of concrete/masonry washout water to the ground (i.e. a concrete washout area) should be discussed as an Allowable Non-Stormwater Discharge.

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stormwater discharges. The potential impacts are sediment discharge into the existing stormwater conveyance system.

IV. Description of Potential Pollutants

Potential sources of sediment to stormwater runoff include earth moving and concrete activities associated with grading, residential structure construction including concrete foundations and hardscape, and landscaping.

Potential pollutants and sources other than sediment to stormwater runoff include trash, debris, fueling and equipment failure. Materials of significance stored on the project site include: sediment, concrete washout, cement, trash & debris, fuels and oils.

There is no non-stormwater discharge anticipated from the site.

Construction activities can produce a variety of pollutants that can potentially cause stormwater contamination. Grading activities remove rocks, vegetation and other erosion controlling surfaces and can result int he exposure of underlying soil to the elements, which can then be displaced into water sources.

Wind and erosion and vehicular transport can produce sediment debris.

Potential Sources of Pollution:

- 1. Potential sources of pollution from construction activities include
 - a. Disturbed or stored soils
 - b. Vehicle tracking of sediment
 - c. Loading & unloading operations
 - d. Outdoor Storage activities
 - e. Vehicle and Equipment Maintenance/Fueling
 - f. Dust or Particulate Generating Processes
 - g. Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents etc.
 - h. On-site waste management (waste piles, liquid wastes, dumpsters)
 - i. Concrete truck/equipment washing (washing truck chute and associated fixtures)
 - j. Non-industrial waste (worker trash and portable toilets)

V. Areas and Volumes

The total limits of construction is 115.1 acres which is the Filing No. 5 boundary area. Of the total limits of construction, approximately 60 acres, or 52% of the limits of construction, is to be disturbed per the Grading and Erosion Control Plan for right-of-way improvements such as roadways, trails, sidewalk, curb and gutter, and ditches and daylight grading from the rights-of-way. The final construction phase shows a limits of disturbance and construction that encompasses and the full vertical construction of each single-family lot development. The full developable area including private lots is included in the limits of disturbance and construction for the final phase to account for private lot construction and to establish perimeter control measures such as silt fence at the initial construction phase. However, the total disturbance area is not the full limits of construction area as individual lot development will require future plans and lot specific control measures at the time of construction.



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Below are roadway construction earthwork figures. These numbers are adjusted using a fill factor of 1.15.

Roadway and Detention Pond Construction Phase:

Earthwork Analysis with 15% Compaction Factor

Cut Quantity (adjusted): 27,760.72 cubic yards

Fill Quantity (adjusted): 28,766.77 cubic yards

Net (adjusted): 1006.04 cubic yards FILL

*This analysis is to finished grade and does not include the pavement thickness of the roadways

Earthwork Analysis with no Compaction Factor

Cut Quantity (unadjusted): 27,760.72 cubic yards

Fill Quantity (unadjusted): 25,014.58 cubic yards

Net (unadjusted): 2746.14 cubic yards CUT

The full build-out earthwork quantities cannot be quantified at this stage as each respective lot disturbance and construction will vary by architecture, layout, and plot plan.

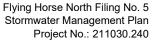
VI. Self-Inspections

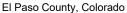
Self-inspections of the Construction Control Measures must be completed by the certified GEC Administrator. The below provides the minimum to satisfy the El Paso County self-inspection requirements. A more frequent self-inspection schedule may be required to ensure Control Measures are operating in compliance with the approved GEC plan.

- 1. Inspection Schedules:
 - a. The GEC Administrator shall make a thorough inspection of the Control Measures:
 - i. At least once every fourteen (14) calendar days.
 - ii. Within 24 hours following any precipitation event (i.e. rain, snow, hail etc.) that causes surface erosion.
 - Alternatively, the GEC Administrator can perform a thorough inspection of the Control Measures once every seven (7) days and forego post-precipitation inspections.
 - b. For sites where construction activities have completed and final stabilization measures installed but final stabilization has not yet been achieved, the GEC Administrator shall make a thorough inspection of the Control Measures:

 Update to "every 30 days"
 - i. At least once every month <
 - ii. Within 72 hours following any precipitation event that causes surface erosion
- 2. Inspection Procedures:

^{*}This analysis is to finished grade and does not include the pavement thickness of the roadways







- a. Site Inspection & Observation Items:
 - i. Limits of disturbance perimeter and stormwater discharge points
 - ii. All disturbed areas to ensure necessary Construction Control Measures are in place to control potential stormwater runoff.
 - iii. Areas used for material/waste storage.
 - iv. Any areas having a signification potential for storm water pollution (i.e. site entrances, concrete washout areas etc.)
 - v. All Construction Control Measures identified on the GEC plans.
- b. Inspection Requirements:
 - i. Determine any locations, or potential locations, where pollutants and stormwater may be exiting the site/entering the receiving waters.
 - ii. Evaluate Construction Control measures and determine if they are constructed in accordance with the latest revision of the approved GEC plan and operating effectively.
 - iii. Provide recommendations for the need of additional Construction Control measures and the maintenance of existing measures in disrepair to ensure complication with the El Paso County Stormwater Construction Manual.
- c. Construction Control Measure Maintenance/Replacement:
 - i. The GEC administrator shall ensure sediment has been removed from perimeter controls and relocated to an area without the potential for sediment to discharge from the site
 - ii. The GEC administrator shall ensure diversion ditches and temporary sediment ponds have not accumulated excess sediment that impedes their functionality.
 - iii. The GEC administrator shall ensure that failed Control Measures are repaired/reinstalled within three (3) calendar days, according to the El Paso County Stormwater Control Measure details, to ensure pollutants and/or sediment do not discharge from the site. GEC details are provided in Appendix B.
- d. Documentation:
 - i. Update the GEC plan to document the installation/revision of Control Measures
 - ii. Identify Control Measure deficiencies and that noncompliance is resolved within three (3) calendar days.
 - iii. Identify Self-Inspection schedule in most recent inspection form
 - iv. Complete and submit Self-Inspection forms to the El Paso County within five (5) business days of the completed inspection
 - Ensure Self-Inspections are available, either physically or electronically, throughout the duration of the project
 - vi. Self-Inspection Repost shall contain at least the following:
 - Inspection Date
 - Name and title of the GEC Administrator performing inspection
 - Location(s) of illicit discharges of stormwater, sediment or pollutants from the site
 - Location(s) of Construction Control Measures in need of maintenance/repair
 - Location(s) of Construction Control Measures that failed to operate as designed or proved inadequate
 - Location(s) of additional Construction Control Measures not shown on the latest, approved revision of the GEC plan
 - Any deviations from the minimum inspection schedule

Clarify that the entire SWMP (to include the SWMP narrative, GEC plans [i.e. the living control measure map], and the self-inspection reports) will be available throughout the duration of the project.



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Signature of GEC Administrator

VII. Materials Handling

- 1. General Materials Handling Practices:
 - a. Potential pollutants shall be stored and used in a manner consistent with the manufacturer's instructions in a secure location. To the extent practical, material storage areas should be located away from storm drain inlets and should be equipped with covers, roofs or secondary containment as required to prevent stormwater from contacting stored materials. Chemicals that are not compatible shall be stored in segregated areas so that spill materials cannot combine and react.
 - b. Disposal of materials shall be in accordance with the manufacturer's instructions and applicable local, state, and federal regulations.
 - c. Materials no longer required for construction shall be removed from the site as soon as possible.
 - d. Adequate garbage, construction waste, and sanitary waste handling and disposal facilities shall be provided as necessary to keep the site clear of obstruction and Control Measures clear and functional.
- 2. Specific Materials Handling Practices:
 - a. All pollutants, including waste materials and demolition debris, that occur onsite during construction shall be handled in a way that does not contaminate stormwater.
 - b. All chemicals including liquid products, petroleum products, water treatment chemicals, and wastes stored onsite shall be covered and protected from vandalism.
 - c. Maintenance, fueling, and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, degreasing operation, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants, shall be conducted under cover during wet weather and on an impervious surface to prevent release of contaminants onto the ground. Materials spilled during maintenance operations shall be cleaned up immediately and properly disposed of.
 - d. Wheel wash water shall be settled and discharged onsite by infiltration.
 - e. Application of agricultural chemicals, including fertilizers and pesticides, shall be conducted in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Follow manufacturer's recommendations for application rates and procedures.
 - f. pH-modifying sources shall be managed to prevent contamination of runoff and stormwater collected onsite. The most common sources of pH-modifying materials are bulk cement, cement kiln dust (CKD), fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, and concrete pumping and mixer washout waters.

VIII. Spill Prevention & Response Plan

The primary objective in responding to a spill is to quickly contain the material and prevent or minimize
their mitigation into stormwater runoff and conveyance systems. If the release has impacted onsite
stormwater, it is critical to contain the released materials onsite and prevent their release into receiving
waters.





2. Spill Response Procedures:

- a. Notify site superintendent immediately when a spill, or the threat of a spill, is observed. The superintendent shall assess the situation and determine the appropriate response.
- b. If spills represent an imminent threat of escaping onsite facilities and entering the receiving waters, site personnel shall respond immediately to contain the release and notify the superintendent once the situation has stabilized.
- c. The site superintendent shall be responsible for completing a spill reporting form and for reporting the spill to the appropriate agency.
- d. Spill response equipment shall be inspected and maintained as necessary to replace any materials used in spill response activities.
- 3. Spill kits shall be on-hand at all fueling sites. Spill kit locations shall be reported to the GEC administrator.
- 4. Absorbent materials shall be on-hand at all fueling areas for use in containing advertent spills. Containers shall be on-hand at all fueling sites for disposal of used absorbents.
- 5. Recommended components of spill kits include the following:
 - a. Oil absorbent pads
 - b. Oil absorbent booms
 - c. 55-gallon drums
 - d. 9-mil plastic bags
 - e. Personal protective equipment including gloves and goggles
- 6. Concrete wash water: unless confined in a pre-defined, bermed containment area, the cleaning of concrete truck delivery chutes is prohibited at the job site.
- 7. Notification procedures:
 - a. In the event of an accident or spill, the GEC administrator shall be notified.
 - Depending on the nature of the spill and material involved, the Colorado Department of Public Health and Environment, downstream water users, or other agencies may also need to be notified
 - c. Any spill of oil which 1) violates water quality standards, 2) produces a "sheen" on a surface water, or 3) causes a sludge or emulsion, or any hazardous substance release, or hazardous waste release which exceeds the reportable quantity, must be reported immediately by telephone to the National Response Center Hotline at (800) 424-8802.

There are no dedicated batch plants proposed as a part of this project and therefore are not a source of pollution requiring spill prevention and response.

IX. Implementation of Control Measures

Stormwater control measures must be installed according to El Paso County design specifications, presented in Appendix D, and the approved Grading and Erosion Control plan this report supports. Within the context of this CSWMP's construction activities the following control measures, at a minimum, are required:



Silt fence is to be installed at the initial construction phase at the perimeter of the project to
prevent sediment runoff offsite from the project disturbance area. While disturbance for
roadway construction may be more central to the project construction area, the silt fence acts

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as a barrier for downstream sediment from the disturbed area and may remain in place for private lot construction.

Vehicle Tracking Control

Vehicle Tracking Control is required for the ingress/egress areas of the project for large construction vehicles to access the site with minimal disturbance to existing infrastructure and pavement. The VTC also assists in debris removal from vehicles prior to exit of the site. The control measure is to be installed at the initial construction phase

Stabilized Staging Area

A designated stabilized staging area is required for equipment staging at the initial construction phase. This area is to be sufficient in size and relatively flat to prevent erosion and sediment runoff when handling materials and maneuvering vehicles. Perimeter controls of the SSA are recommended as localized erosion and sediment control of this area.

• Stockpile Management

 A designated stockpile area is required for dirt and debris containment at the initial construction phase. This area is to have perimeter controls for localized erosion and sediment control. Frequent export haul is recommended to maintain a minimal stockpile size and minimize sediment runoff during rain events during construction activities.

Inlet Protection

o Inlet protection is to be installed to prevent sediment runoff from entering storm systems and allow present and future stormwater conveyance as designed. Inlet protection is to remain in place until permanent stabilization is completed. Any sediment identified in inlets and storm pipes is to be removed prior to inspection and/or final permanent stabilization. Frequent inspection and maintenance of the inlet protection is to take place to ensure that wear and tear of the control measure has not taken place.

Culvert Inlet Protection

Culvert protection, similar to inlet protection, is to be installed at the initial construction phase to prevent sediment runoff from entering storm systems and allow present and future stormwater conveyance as designed. Culvert protection is to remain in place until permanent stabilization is completed. Any sediment identified in inlets and storm pipes is to be removed prior to inspection and/or final permanent stabilization. Frequent inspection and maintenance of the culvert inlet protection is to take place to ensure that wear and tear of the control measure has not taken place.

• Temporary Outlet Protection

Temporary outlet protection is to be installed at the initial construction phase and as outlet pipes are installed to prevent sediment runoff from entering storm systems and allow present and future stormwater conveyance as designed. Culvert protection is to remain in place until permanent stabilization is completed. Any sediment identified in inlets and storm pipes is to be removed prior to inspection and/or final permanent stabilization. Frequent inspection and maintenance of the culvert inlet protection is to take place to ensure that wear and tear of the control measure has not taken place.

• Erosion Control Blanket

Erosion Control Blanket is to be installed on disturbed slopes of 3:1 or greater to stabilize
these areas for permanent stabilization in future construction phases. The erosion control
blanket remains in place from the time of disturbance and establishment of the slope in



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perpetuity as natural degradation of the control measure will occur over time. Any disturbance of the blanket itself requires replacement to ensure stabilization of the slope.

- Diversion Ditches (Earth Dikes & Drainage Swales)
 - Diversion Ditches proposed within this project scope include drainage swales that outfall to temporary sediment basins. The drainage swales are to be maintained throughout the initial construction phase to ensure that tributary areas that the temporary sediment basins are designed for are captured during rain events.
- Temporary Sediment Basins
 - Temporary Sediment Basins are to be constructed at the initial construction phase for stormwater attenuation during the initial construction phase which includes earthwork disturbance and results in sediment runoff. The TSB's are designed to capture sediment runoff during this phase to minimize sediment runoff directly offsite.
- Seeding & Mulching
 - Seeding and mulching is proposed as a temporary construction phase control measure for slope stabilization and restoration of disturbed areas to remain pervious areas. Permanent seeding and mulching is included in the final construction phase as a permanent stabilization method to stabilize disturbed areas and provide vegetation.
- Rock Socks
 - o Rock socks are to be installed in curb and gutter urban roadway sections along flowlines as shown on the GEC. The rocks socks assist in mitigating sediment runoff within paved curb and gutter sections where earthwork disturbance erosion and sediment runoff can be conveyed downstream to inlets and stormwater infrastructure. Rock socks are to be inspected and maintained as needed. Cleaning of rock socks is to occur as needed to dispose of sediment build up during construction activities.
- Check Dams
 - Check dams are to be installed at elevation intervals per the GEC. This project includes extensive rural roadway sections with roadside ditches. Check dams are to be installed at the flowline of the roadside ditches for sediment control along the swales as well as energy dissipation to minimize erosion within the ditch sections.
- Concrete Washout Areas
 - Concrete Washout Areas are to be established at the initial construction phase as designated concrete washouts per MHFD details. The designated CWA's are to be monitored to ensure that effluent does not overflow or drain out of the excavation. Removal of materials is to take place prior to deconstruction and fill of the CWA.

Additional control measures may be required at the discretion of the County Stormwater Inspector.

Stormwater pollutant control measures for waste disposal and off-site soil tracking are to follow the State's CDPHE Brochure instructions and guidelines. Site specific off-site soil tracking is to be mitigated via Vehicle Tracking Control measures and daily project site street sweeping. Perimeter control measures are to be inspected and maintained as required to reduce sediment runoff.

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X. Final Stabilization & Long-Term Stormwater Management Plan

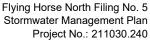
- 1. Temporary seeding and mulching will be installed to provide interim stabilization prior to final landscaping installation (Refer to approved Landscape Plan). Final stabilization will be achieved at time of final landscaping. See approved landscaping plans for final stabilization details. Final stabilization is met when 70% of pre disturbance levels, not including noxious weeds, are stabilized. Final stabilization must be achieved prior to removal of temporary stormwater control measures. Anticipated date of final stabilization is Fall 2025; however, this is subject to change. Long term stormwater management will be provided in the onsite, private full spectrum detention ponds. the Permanent Control Measure Plans for construction details of the permanent full spectrum detention pond. See below for seeding and mulching details:
 - a. Prior to seeding, fill any eroded rills and gullies with topsoil.
 - b. Ensure all areas are seeded and mulched per the County Stormwater Construction Manual.
 - c. Continue monthly self-inspections of final stabilization methods and the stormwater management system to ensure proper function. If repairs are needed, reseed and re-mulch as needed.
 - d. Control noxious weeds in a manner acceptable to the GEC inspector.
 - e. Seed Mix: See Appendix D for approved seed mixes.
 - f. Seeding Requirements:
 - Drill seed whenever possible, seed depth must be 1/3 to ½ inch when drill-seeding. Cross drilling should be used whenever possible with the seed divided between the two operations. The second drilling should be perpendicular to the first.
 - . When drill seeding is not possible or on slopes greater than 3:1, hydro-seeding with tackifier may be substituted at the discretion of the GEC inspector. Hydro-seeding must be lightly raked into soil. Seeding rates are presented in Appendix D.
 - ii. All seeded areas must be mulched.

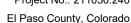
Mulching Requirements:

- Mulching shall be completed as soon as practical after seeding but no more than fourteen (14) days after planting. Erosion control blanket can be used in place of the below mulching methods.
- ii. Hay or straw mulch:
 - 1. Only certified weed-free and certified-seed free mulch may be used. Must be applied at 2 tons/acre and adequately secured.
 - 2. Crimping shall not be used no slopes greater than 3:1, tackifier must be used in place.
- iii. Hydraulic mulching:
 - 1. Allowable on steep slopes or areas with limited access
 - 2. If hydro-seeding is used, mulching must be applied secondly.
 - 3. Wood cellulose fibers mixed with water must be applied at a rate of 2,000-2,500 lbs/acre, and tackifier applied at a rate of 100 lbs/acre.
- 2. The project control measures are to be owned and maintained by the Developer or their assigns (General Contractor, GEC Administrator).
- 3. This Stormwater Management Plan Report is a living document that is to be continuously reviewed and modified as part of the overall process of evaluating and managing stormwater quality issues at the site. The Qualified Stormwater Manager shall amend the SWMP when there is a change in design,

- Item 22. There is no onsite permanent detention pond shown on the GEC plan, please update accordingly. Identify by name and locate the permanent detention pond that will provide long-term stormwater.

 Mulicipal Mulicipal Control of the permanent detention pond that will provide long-term stormwater.
 - Provide the EDARP
 Project number for the off-site ponds the project site drains to.







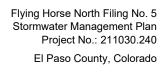
construction, or operations and maintenance of the site which would require the implementation of new or revised control measures or if the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with the construction activity when control measures are no longer necessary and are removed.

XI. References

El Paso County – Drainage Criteria Manual, latest revision October 31, 2018

El Paso County - Engineering Criteria Manual, latest revision October 14, 2020

Mile High Flood District Urban Storm Drainage Criteria Manual Volumes 1, 2, and 3; latest revisions

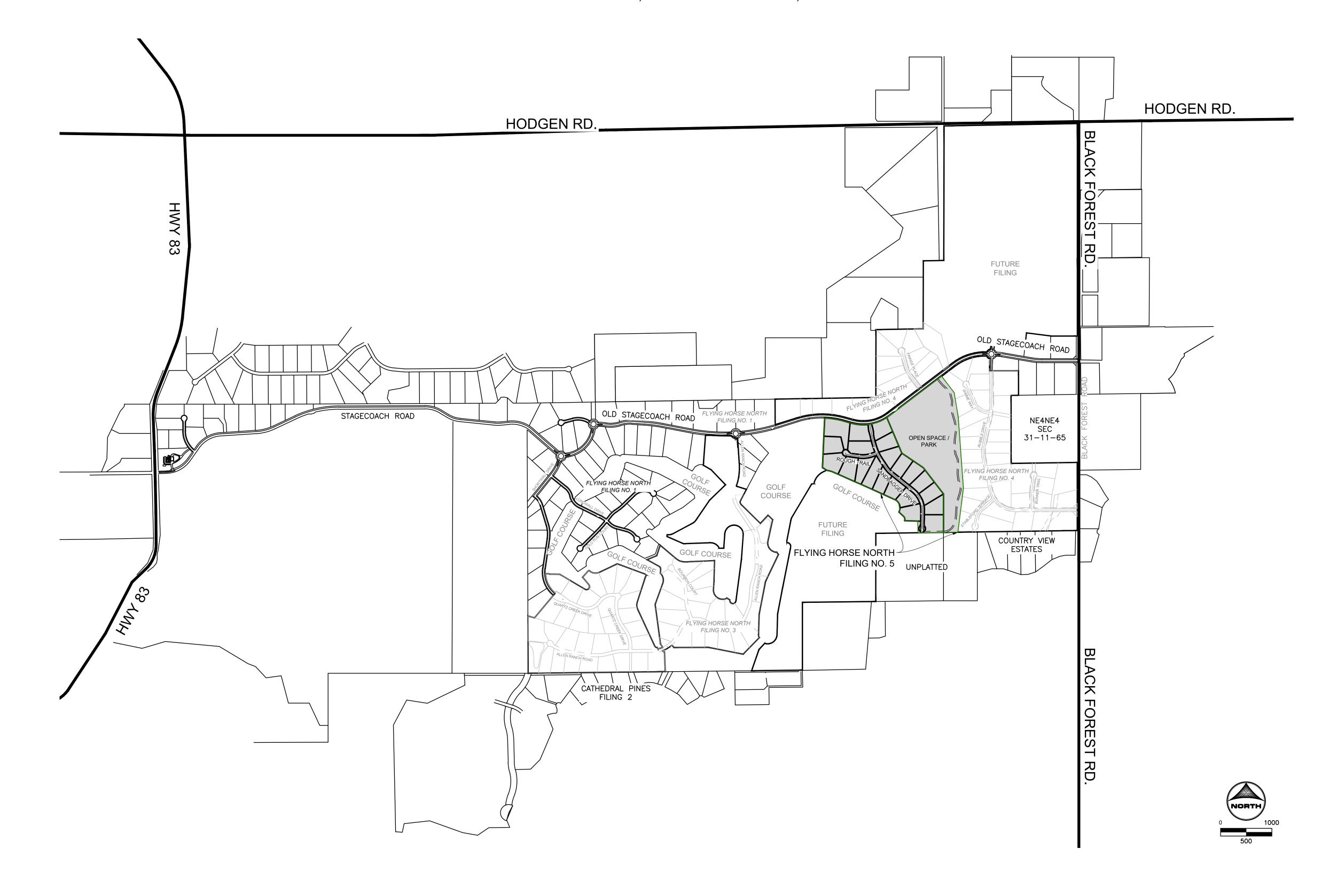




APPENDIX A - VICINITY MAP & NRCS SOIL SURVEY & FEMA MAP

FLYING HORSE NORTH FILING NO. 5 VICINITY MAP

A TRACT OF LAND BEING A PORTION OF SECTION 30, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH P.M., AND A PORTION OF SECTION 31, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH P.M., CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO



DRAWN BY: CMD JOB DATE: 10/2/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS.

APPROVED: RDL JOB NUMBER: 211030 0 1"

CAD DATE: 10/3/2024 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

CAD FILE: J:\2021\211030\CAD\Dwgs\C\Filing_No_5\Vicinity_Map

REVISION DESCRIPTION

HR

NO. DATE BY

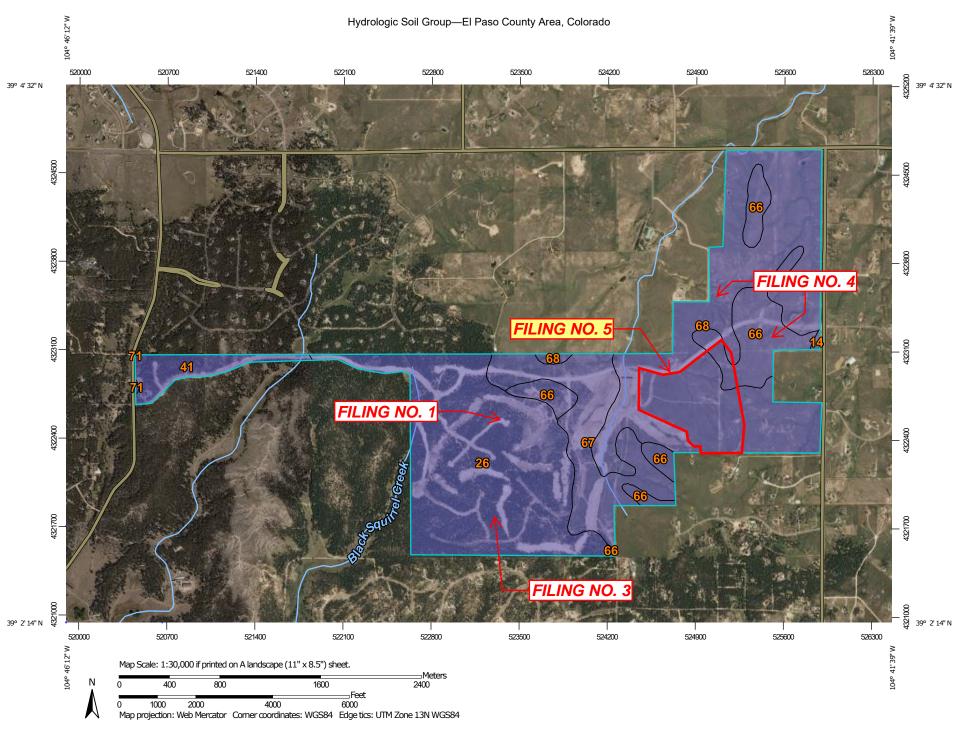
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING NO. 5
PRI #2, LLC.
EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS
VICINITY MAP

SHEET

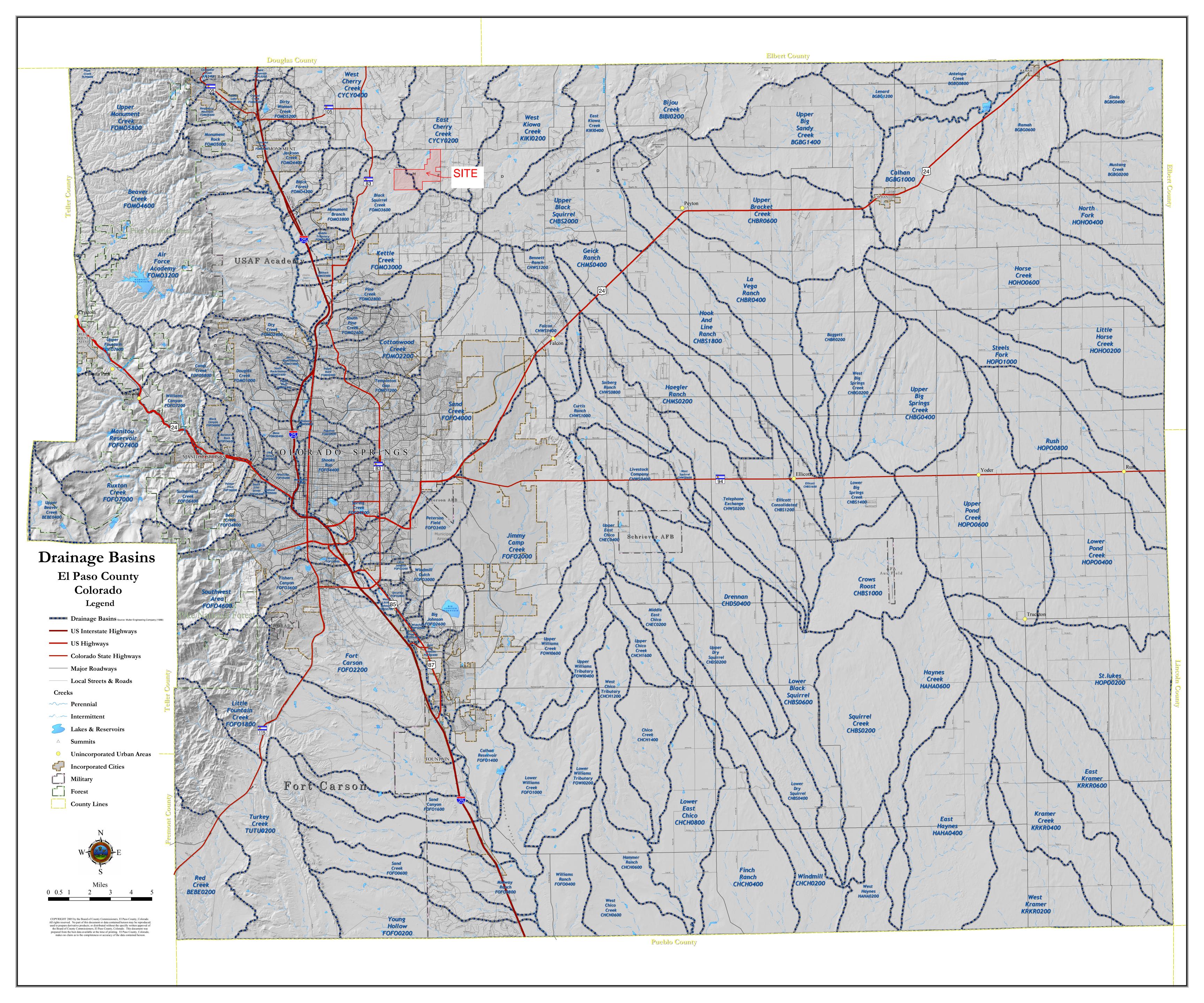
1



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:24.000. Area of Interest (AOI) C/D Please rely on the bar scale on each map sheet for map Soils D measurements. Soil Rating Polygons Not rated or not available Α Source of Map: Natural Resources Conservation Service Web Soil Survey URL: **Water Features** A/D Coordinate System: Web Mercator (EPSG:3857) Streams and Canals В Maps from the Web Soil Survey are based on the Web Mercator Transportation projection, which preserves direction and shape but distorts B/D Rails distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more Interstate Highways accurate calculations of distance or area are required. C/D **US Routes** This product is generated from the USDA-NRCS certified data as D Major Roads of the version date(s) listed below. Not rated or not available -Local Roads Soil Survey Area: El Paso County Area, Colorado Soil Rating Lines Survey Area Data: Version 19, Aug 31, 2021 Background Aerial Photography Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. Date(s) aerial images were photographed: Aug 19, 2018—May 26, 2019 B/D 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 C/D shifting of map unit boundaries may be evident. D Not rated or not available **Soil Rating Points** A/D B/D

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI		
14	Brussett loam, 1 to 3 percent slopes	В	1.9	0.1%		
26	Elbeth sandy loam, 8 to 15 percent slopes	В	474.2	33.7%		
41	Kettle gravelly loamy sand, 8 to 40 percent slopes	В	53.4	3.8%		
66	Peyton sandy loam, 1 to 5 percent slopes	В	160.9	11.4%		
67	Peyton sandy loam, 5 to 9 percent slopes	В	182.8	13.0%		
68	Peyton-Pring complex, 3 to 8 percent slopes	В	533.4	37.9%		
71	Pring coarse sandy loam, 3 to 8 percent slopes	В	0.6	0.0%		
Totals for Area of Inter	rest		1,407.3	100.0%		



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD88). These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website a http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242 or visit its website at http://www.ngs.noaa.gov/.

Base Map information shown on this FIRM was provided in digital format by El Paso County, Colorado Springs Utilities, City of Fountain, Bureau of Land Management, National Oceanic and Atmospheric Administration, United States Geological Survey, and Anderson Consulting Engineers, Inc. These data are current as of 2006.

This map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles and Floodway Data Tables if applicable, in the FIS report. As a result, the profile paselines may deviate significantly from the new base map channel representation and may appear outside of the floodplain.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is

Contact FEMA Map Service Center (MSC) via the FEMA Map Information eXchange (FMIX) 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The MSC may also be reached by Fax at 1-800-358-9620 and its website a http://www.msc.fema.gov/.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

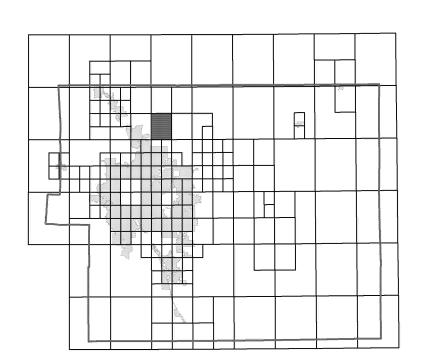
El Paso County Vertical Datum Offset Table

REFER TO SECTION 3.3 OF THE EL PASO COUNTY FLOOD INSURANCE STUDY

FOR STREAM BY STREAM VERTICAL DATUM CONVERSION INFORMATION

Panel Location Map

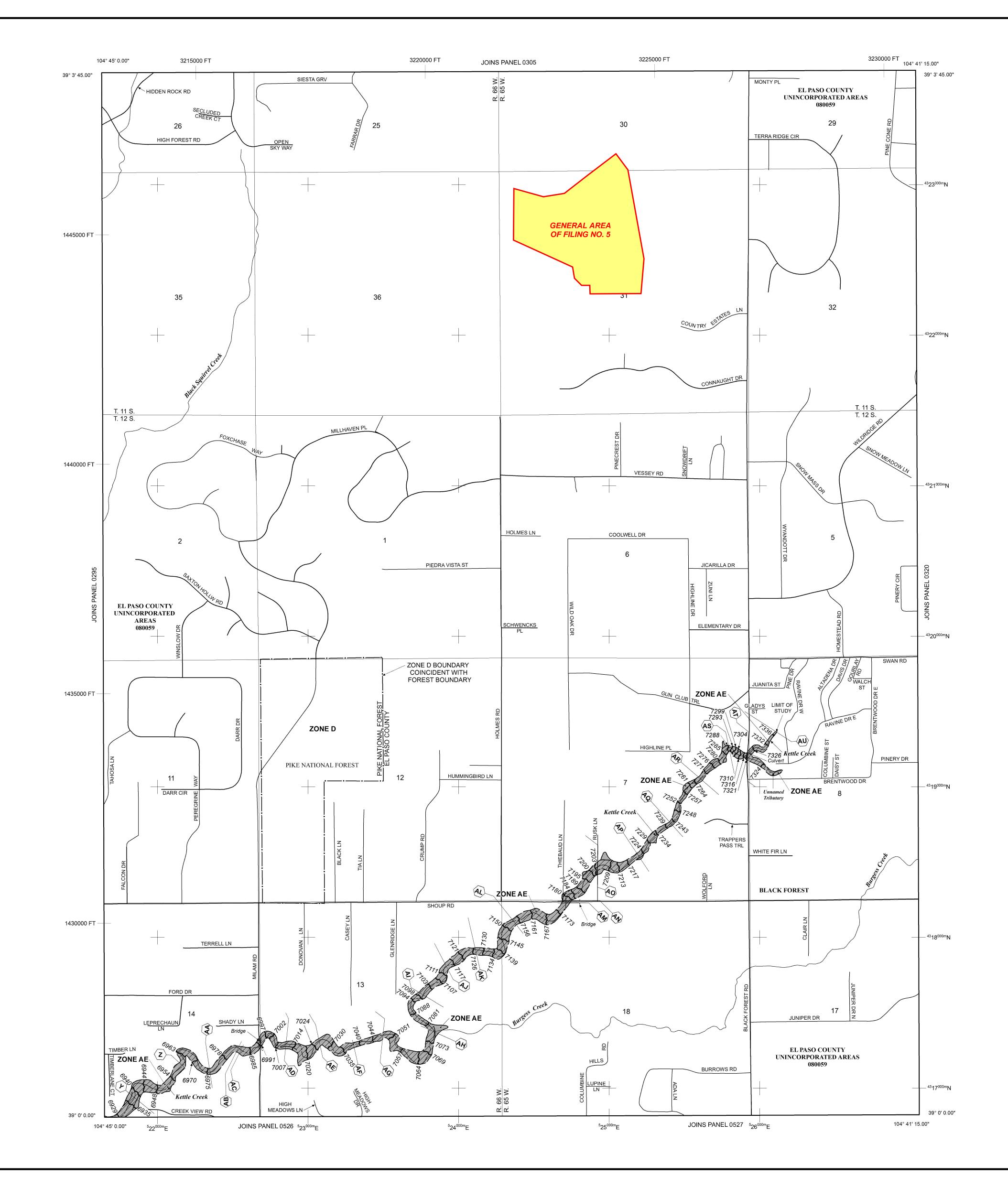
Flooding Source



This Digital Flood Insurance Rate Map (DFIRM) was produced through a Cooperating Technical Partner (CTP) agreement between the State of Colorado Water Conservation Board (CWCB) and the Federal Emergency Management Agency (FEMA).



Additional Flood Hazard information and resources are available from local communities and the Colorado Water Conservation Board.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also

ZONE AR Special Flood Hazard Area Formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone

AR indicates that the former flood control system is being restored to

provide protection from the 1% annual chance or greater flood. **ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain.

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Floodway boundary Zone D Boundary ••••••• CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. ~~ 513 ~~ Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet* * Referenced to the North American Vertical Datum of 1988 (NAVD 88)

Cross section line

(EL 987)

97° 07' 30.00" Geographic coordinates referenced to the North American 32° 22' 30.00" Datum of 1983 (NAD 83)

1000-meter Universal Transverse Mercator grid ticks,

5000-foot grid ticks: Colorado State Plane coordinate 6000000 FT system, central zone (FIPSZONE 0502),

Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES

Refer to Map Repositories list on Map Index EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP

MARCH 17, 1997 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL DECEMBER 7, 2018 - to update corporate limits, to change Base Flood Elevations and Special Flood Hazard Areas, to update map format, to add roads and road names, and to

incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community

Map History Table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance

agent or call the National Flood Insurance Program at 1-800-638-6620.

FIRM

COLORADO

PANEL 0315G

FLOOD INSURANCE RATE MAP EL PASO COUNTY,

AND INCORPORATED AREAS

PANEL 315 OF 1300 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

NUMBER PANEL 080059 EL PASO COUNTY

Notice to User: The Map Number shown below should be used when placing map orders: the Community Number shown above should be used on insurance applications for the



MAP REVISED

MAP NUMBER

08041C0315G

DECEMBER 7, 2018

Federal Emergency Management Agency

National Flood Hazard Layer FIRMette

250

500

1,000

1,500

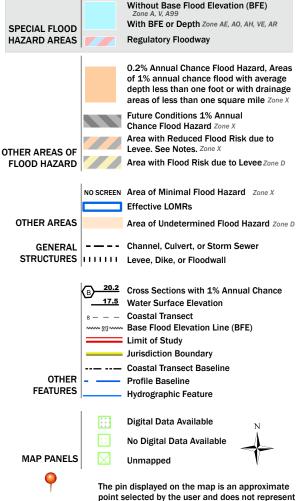




2,000

Legend

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



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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/2/2024 at 2:05 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.

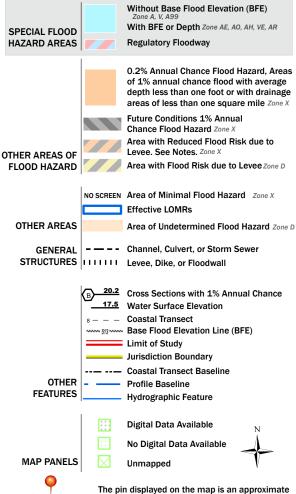
National Flood Hazard Layer FIRMette





Legend

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



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

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/2/2024 at 2:08 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.

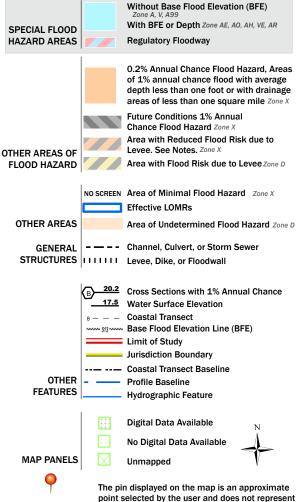
National Flood Hazard Layer FIRMette





Legend

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

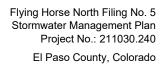


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

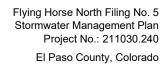
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/2/2024 at 2:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.





APPENDIX B - GEC PLANS





APPENDIX C - CALCULATIONS

TEMPORARY SEDIMENT BASIN A SEDIMENT BASIN STAGE-STORAGE CALCULATIONS

Elevation	Area	Area	Volume	Volume	Cumm Vol	Cumm Vol	Proration	Proration	Elev.
	S.F.	Acre	Cu. Ft.	Acre-Ft	Cu. Ft.	Acre-Ft		Enter Vol.	ft.
								in Acre-Ft*	
7539.0	5000								
7540.0	6264		5,620		5,620	0.129	12,718	0.292	7,541.02
7541.0	7656		6,948		12,569		,		.,,,,,,,,,,
7542.0	9176		8,405		20,973				
7543.0	10824		9,989		30,962	0.711			
7544.0	12600		11,701		42,662	0.979	38,154	0.876	7,543.61
7545.0	14504		13,541		56,203				,
7546.0									
7547.0									
7548.0									
7549.0									
7550.0									
7551.0									
7552.0									
7553.0									
7554.0									
7555.0									
7556.0									
7557.0									
7558.0				•					
7559.0									
7560.0				•					

COLUMN 1	COLUMN 2	CENTROID EL.
ORIFICE 1-1	ORIFICE 1-2	7,541.02
ORIFICE 2-1	ORIFICE 2-2	7,541.35
ORIFICE 3-1	ORIFICE 3-2	7,541.68
ORIFICE 4-1	ORIFICE 4-2	7,542.01
ORIFICE 5-1	ORIFICE 5-2	7,542.34
ORIFICE 6-1	ORIFICE 6-2	7,542.67
ORIFICE 7-1	ORIFICE 7-2	7,543.00
ORIFICE 8-1	ORIFICE 8-2	7,543.33

	SED Basin riser pipe orifice calculations									
$A_0 =$	area per row	ea per row of orifices spaved on 4" centers (in ^c)								
V=	0.8759	0.8759 design volume (acre feet) *<15 ac.								
$T_D =$	72	time to dra	in the pres	scribed colun	ne (hrs) (Typically 72 hours for EURV)					
H=	2.593	depth of vo	olume (ft)							
S=	0.0001	Trickel cha	nnel slope	e (ft/ft) [Use (0.0001 for flat slope]					
				` /-						
			S=0%							
A _{0 =}	2.1323	in ²	2.1261	in ²						
Dia	1.65	in	*EXCEED	S 1", USE T	WO COLUMNS @ A ₀ =2.1 in ²					
	3.29	Dia=/2		2.1 in ² = 2-1	/4" in. dia.					
	6.58	Dia=/4								
	13.16	Dia=/8								
	26.32	Dia=/16								
	52.65	Dia=/32								

SEDIMENT VOLUME CALCULATIONS								
Disturbed area-acres	9.020	Acres						
Undisturbed area-acres	27.600	Acres						
Total Area-acres	36.620	Acres						
Sediment volume	38,154	cu-ft	0.8759	Acres-ft				
Volume below lowest hole	12,718	cu-ft	0.2920	Acres-ft				
Volume above lowest hole	38,154	cu-ft		Acres-ft				
Total Volume	50,859	cu-ft	1.1676	Acres-ft				

Note: Enter values in highlighted cells only.

TEMPORARY SEDIMENT BASIN B SEDIMENT BASIN STAGE-STORAGE CALCULATIONS

Elevation	Area	Area	Volume	Volume	Cumm Vol	Cumm Vol	Proration	Proration	Elev.
	S.F.	Acre	Cu. Ft.	Acre-Ft	Cu. Ft.	Acre-Ft	Enter Vol.	Enter Vol.	Cu-Ft
							in Cu-Ft*	in Acre-Ft*	
7549.0	1250								
7550.0	1914		1,570		1,570	0.036			
7551.0	2706		2,299		3,869				7,551.22
7552.0	3626		3,155		7,024	0.161	9,095	0.2088	7,552.50
7553.0	4674		4,139		11,163	0.256			
7554.0									
7555.0									
7556.0									
7557.0									
7558.0									
7559.0									
7376.5									
7377.0									
7378.0									
7379.0									
7380.0									
7381.0									
7382.0		•							
7383.0		•							•
7384.0									
7385.0		•							•
7386.0									

		SED	Basin rise	er pipe orifi	ce calculations
A ₀ =	area per ro	w of orifice	s spaved o	on 4" cente	ers (in²)
V=	0.1044	design vol	ume (acre	feet)	*<15 ac.
T _D =)	. `	,	lume (hrs) (Typically 72 hours for EURV)
H=	1.285	depth of vo	olume (ft)		,
S=			. , ,	e (ft/ft) [Us	e 0.0001 for flat slope]
				` /-	
			S=0%		
A _{0 =}	0.3286	in ²	0.3277	in ²	
Dia	0.65	in			TWO COLUMNS @ A ₀₌ 1.36 in ²
	1.29	Dia=/2		1.13 in ² =	1-1/8" in. dia.
	2.58	Dia=/4			
	5.17	Dia=/8			
	10.33				
	20.67	Dia=/32			

COLUMN 1	CENTROID EL.
ORIFICE 1-1	7,551.22
ORIFICE 2-1	7,551.55
ORIFICE 3-1	7,551.88
ORIFICE 4-1	7,552.21

SEDIMENT VOLUM	IE CALCULA	TIONS		
Disturbed area-acres	1.600	Acres		
Undisturbed area-acres	6.670	Acres		
Total Area-acres	8.270	Acres		
Sediment volume	9,095	cu-ft	0.2088	Acres-ft
Volume below lowest hole	4,548	cu-ft	0.1044	Acres-ft
Volume above lowest hole	4,548	cu-ft	*****	Acres-ft
Total Volume	9,095	cu-ft	0.2088	Acres-ft

Note: Enter values in highlighted cells only.

J	BMP FEATURE	TOTAL TRIBUTARY AREA (AC)	DISTURBED AREA (AC)	UNDISTURBED AREA (AC)	BOTTOM SIZE (FT)	SEDIMENT VOLUME (AC-FT)	BASIN VOLUME (AC-FT)	BOTTOM ELEVATION	CREST ELEVATION	CREST, WxL (FT)	TOP OF POND ELEVATION	LOWEST ORIFICE ELEVATION	TOTAL AREA OF ORIFICES (SQ IN)	# OF ORIFICE COLUMNS	DIA. OF ORIFICES	RISER PIPE INVERT	DAYLIGHT ELEVATION	OUTLET PIPE LENGTH (FT)	OUTLET PIPE SLOPE
	SB-A	36.6	9.0	27.6	70' x 31'	88.0	0.98	7539.00	7544.00	40' x 50'	7545.00	7541.02	2.13	2	1-1/8"	7539.77	7536.00	65.36	5.8%
	SB-B	8.3	1.6	6.7	210' x 440'	0.21	0.26	7549.00	7552.00	15' x 25'	7553.00	7551.22	0.33	1	1-1/8"	7549.97	7546.89	32.68	9.4%

*ORIFICES TO BE EVERY 3" FROM LOWEST ORIFICE ELEVATION TO THE TOP OF RISER PIPE, TOTAL NUMBER OF ORIFICES VARY.



APPENDIX D - EL PASO COUNTY CONSTRUCTION CONTROL MEASURES

Mulching (MU)

EC-4

Description

Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures. Mulching helps reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff. Although often applied in conjunction with temporary or permanent seeding, it can also be used for temporary stabilization of areas that cannot be reseeded due to seasonal constraints.

that hydraulically applies a slurry of water,

wood fiber mulch, and often a tackifier.

Mulch can be applied either using standard mechanical dry application methods or using hydromulching equipment

Photograph MU-1. An area that was recently seeded, mulched,

Appropriate Uses

Use mulch in conjunction with seeding to help protect the seedbed and stabilize the soil. Mulch can also be used as a temporary cover on low to mild slopes to help temporarily stabilize disturbed areas where growing season constraints prevent effective reseeding. Disturbed areas should be properly mulched and tacked, or seeded, mulched and tacked promptly after final grade is reached (typically within no longer than 14 days) on portions of the site not otherwise permanently stabilized.

Standard dry mulching is encouraged in most jurisdictions; however, hydromulching may not be allowed in certain jurisdictions or may not be allowed near waterways.

Do not apply mulch during windy conditions.

Design and Installation

Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical because track walking with heavy equipment typically compacts the soil.

A variety of mulches can be used effectively at construction sites. Consider the following:

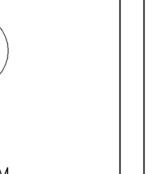
Mulch	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material Management	No

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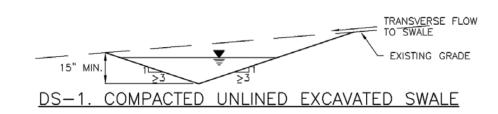
Earth Dikes and Drainage Swales (ED/DS)

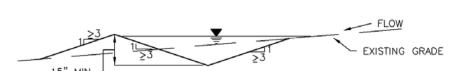
EC-10

ED/DS-3

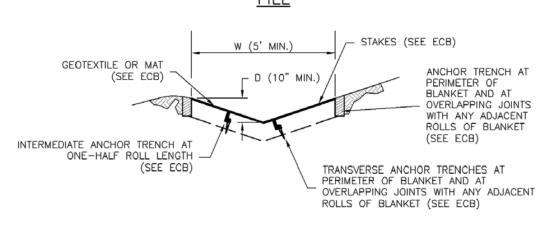


ED-1. COMPACTED UNLINED EARTH DIKE FORMED BY BERM





DS-2. COMPACTED UNLINED SWALE FORMED BY CUT AND



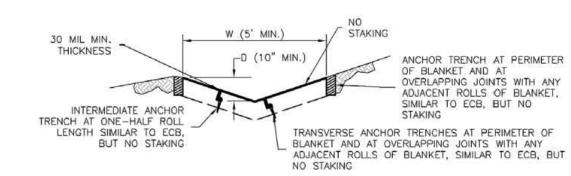
DS-3. ECB LINED SWALE (CUT AND FILL OR BERM)

November 2010

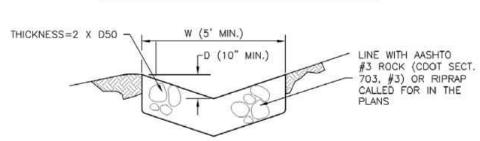
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Earth Dikes and Drainage Swales (ED/DS)



DS-4. SYNTHETIC LINED SWALE



DS-5. RIPRAP LINED SWALE

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

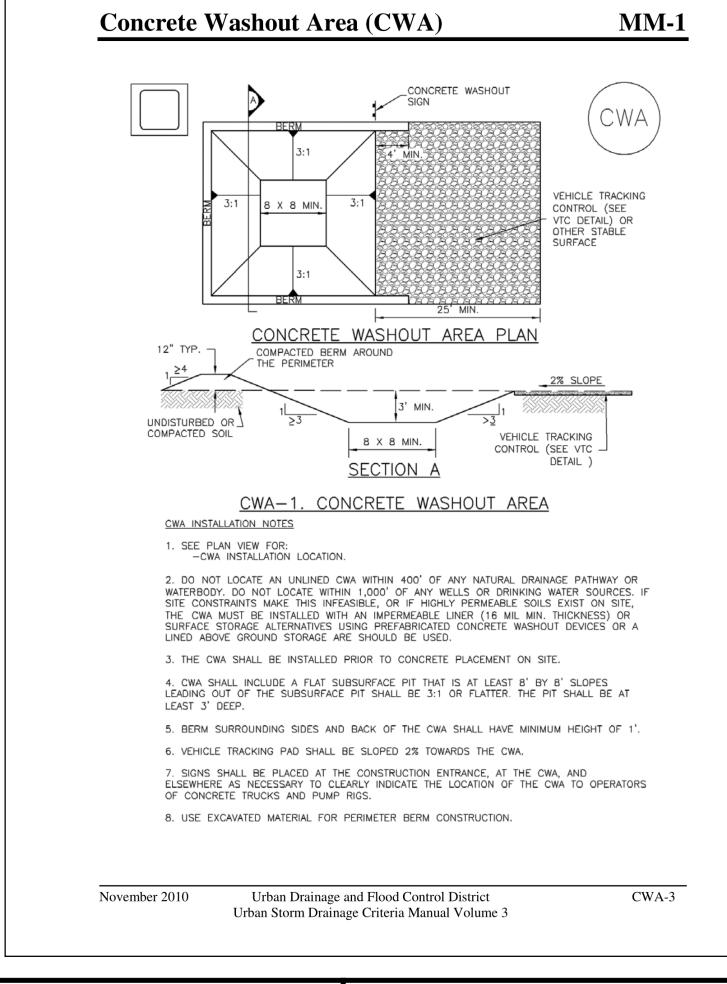
- SEE SITE PLAN FOR:
 LOCATION OF DIVERSION SWALE
- TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED). DEPTH, D. AND WIDTH, W DIMENSIONS
- FOR ECB/TRM LINED DITCH, SEE ECB DETAIL, FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, D50.
- 2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.
- 3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY.
- 4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
- 5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
- 6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS
- 7. WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

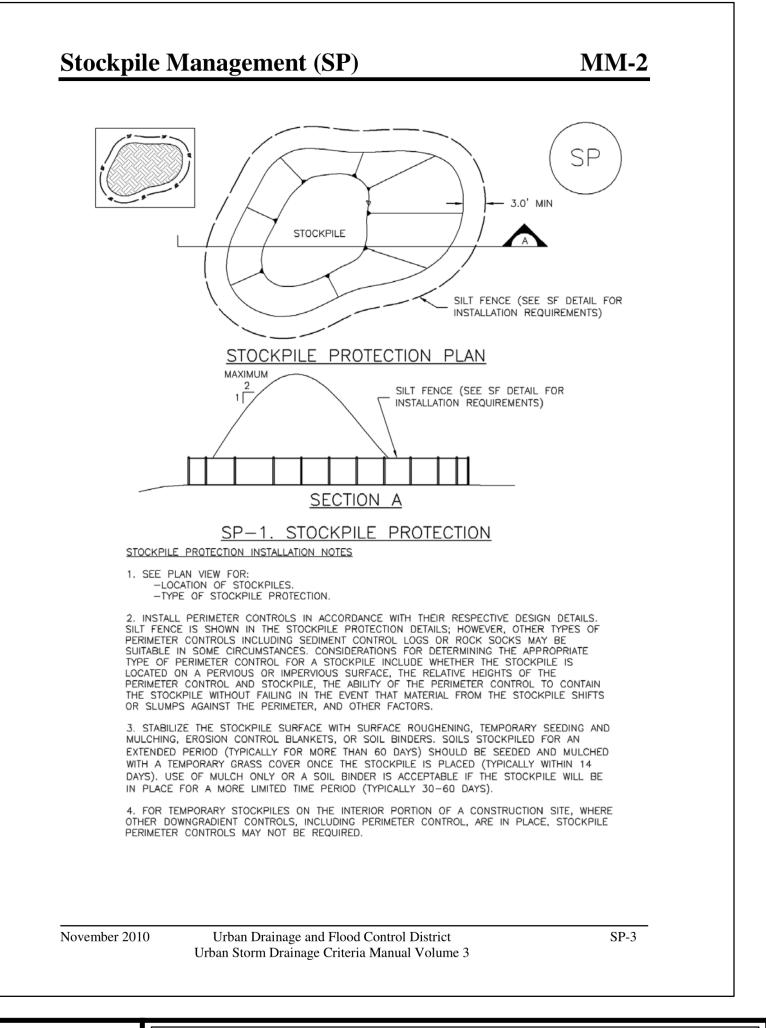
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EC-12 Check Dams (CD) CREST LENGTH, C BACKFILL, -L TOP OF CHECK DAM UPSTREAM AND -DOWNSTREAM CHECK DAM ELEVATION VIEW FLOW - MIN. EXCAVATION TO NEAT LINE, AVOID OVER-EXCAVATION, D50 = 12" RIPRAP, TYPE M OR TYPE L D50= 9" (SEE TABLE \ MD-7, MAJOR DRAINAGE, VOL. 1 FOR GRADATION) FLOW -EXCAVATION TO NEAT LINE, AVOID OVER-EXCAVATION D50 = 12" RIPRAP, TYPE M OR TYPE L D50=9" (SEE TABLE MD-7, MAJOR DRAINAGE, VOL. 1 FOR **PROFILE** CD-1. CHECK DAM





PCD FILE NO.: SF##

BAR IS ONE INCH ON DRAWN BY: AMC JOB DATE: 9/30/2024 OFFICIAL DRAWINGS. APPROVED: RDL JOB NUMBER: <u>211030</u> IF NOT ONE INCH. CAD DATE: <u>10/1/2024</u> ADJUST SCALE ACCORDINGLY. CAD FILE: J:\2021\211030\CAD\Dwgs\C\Filing_No_5\GEC\GEC-Details

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NO. DATE BY REVISION DESCRIPTION



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Implement construction site good housekeeping practices to prevent pollution associated with solid, liquid and hazardous construction-related materials and wastes. Stormwater Management Plans (SWMPs) should clearly specify BMPs including these good housekeeping practices:

- Provide for waste management.
- Establish proper building material staging areas.
- Designate paint and concrete washout areas.
- Establish proper equipment/vehicle fueling and maintenance practices.
- Control equipment/vehicle washing and allowable nonstormwater discharges.
- Develop a spill prevention and response plan.

Acknowledgement: This Fact Sheet is based directly on EPA guidance provided in Developing Your Stormwater Pollution Prevent Plan (EPA 2007).

Appropriate Uses

Good housekeeping practices are necessary at all construction sites.

Design and Installation

The following principles and actions should be addressed in SWMPs:

 Provide for Waste Management. Implement management procedures and practices to prevent or reduce the exposure and transport of pollutants in stormwater from solid, liquid and sanitary wastes that will be generated at the site. Practices such as trash disposal, recycling, proper material handling, and cleanup measures can reduce the potential for stormwater runoff to pick up construction site wastes and discharge them to surface waters. Implement a comprehensive set of waste-management practices for hazardous or toxic materials, such as paints, solvents, petroleum products, pesticides, wood preservatives, acids, roofing tar, and other materials. Practices should include storage, handling, inventory, and cleanup procedures, in case of spills. Specific practices that should be considered include:

Solid or Construction Waste

Designate trash and bulk waste-collection areas on-

Good Housekeeping				
Functions				
Erosion Control	No			
Sediment Control	No			
Site/Material Management	Yes			

Photographs GH-1 and GH-2. Proper materials

storage and secondary containment for fuel tanks

courtesy of CDOT and City of Aurora.

are important good housekeeping practices. Photos

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Good Housekeeping Practices (GH)

- Recycle materials whenever possible (e.g., paper, wood, concrete, oil).
- Segregate and provide proper disposal options for hazardous material wastes.
- Clean up litter and debris from the construction site daily.
- Locate waste-collection areas away from streets, gutters, watercourses, and storm drains. Wastecollection areas (dumpsters, and such) are often best located near construction site entrances to minimize traffic on disturbed soils. Consider secondary containment around waste collection areas to minimize the likelihood of contaminated discharges.
- Empty waste containers before they are full and overflowing.

Sanitary and Septic Waste

- Provide convenient, well-maintained, and properly located toilet facilities on-site.
- Locate toilet facilities away from storm drain inlets and waterways to prevent accidental spills and contamination of stormwater.
- Maintain clean restroom facilities and empty portable toilets regularly.
- Where possible, provide secondary containment pans under portable toilets.
- Provide tie-downs or stake-downs for portable toilets.
- Educate employees, subcontractors, and suppliers on locations of facilities.
- Treat or dispose of sanitary and septic waste in accordance with state or local regulations. Do not discharge or bury wastewater at the construction site.
- Inspect facilities for leaks. If found, repair or replace immediately.
- o Special care is necessary during maintenance (pump out) to ensure that waste and/or biocide are not spilled on the ground.

Hazardous Materials and Wastes

- Develop and implement employee and subcontractor education, as needed, on hazardous and toxic waste handling, storage, disposal, and cleanup.
- Designate hazardous waste-collection areas on-site.
- Place all hazardous and toxic material wastes in secondary containment.



Photograph GH-3. Locate portable toilet facilities on level surfaces away from waterways and storm drains. Photo courtesy of WWE.

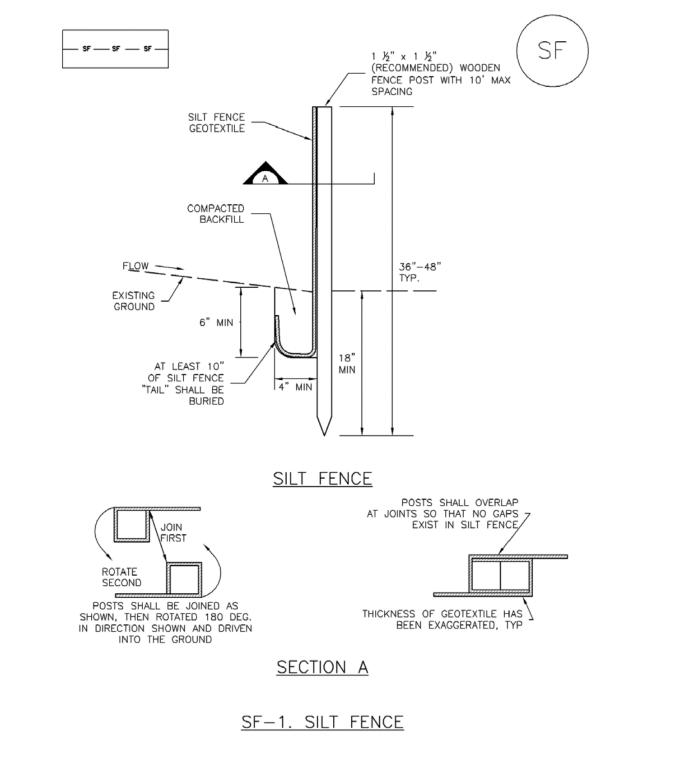
November 2010

SM-4

GH-2

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SC-1 Silt Fence (SF)



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Inlet Protection (IP)

SC-6

CULVERT END SECTION BACKFILL UPSTREAM - ROCK SOCK CULVERT INLET PROTECTION SECTION A <u>PLAN</u> KEY IN ROCK SOCK O" ON BEDROCK, PAVEMENT OR RIPRAP KEY IN ROCK SOCK 2" ON EARTH SECTION B

CIP-1. CULVERT INLET PROTECTION CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

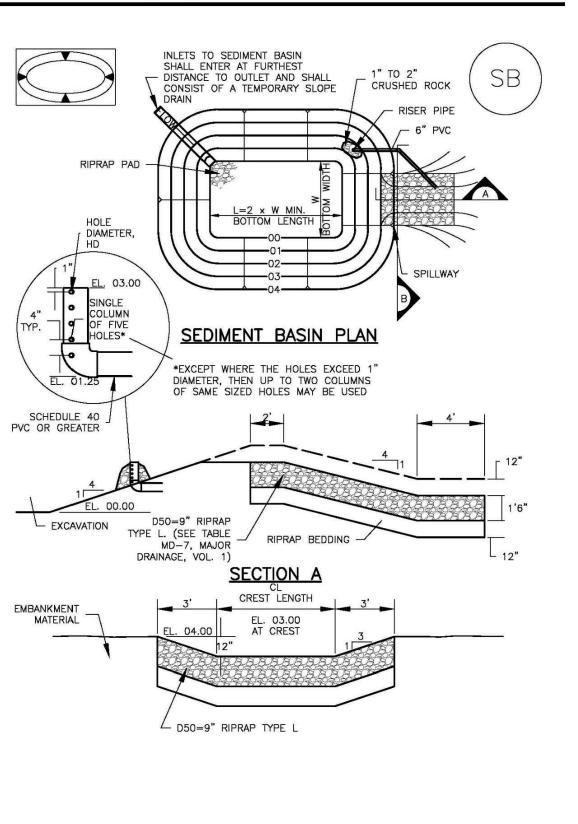
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

August 2013

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Sediment Basin (SB)

SC-7

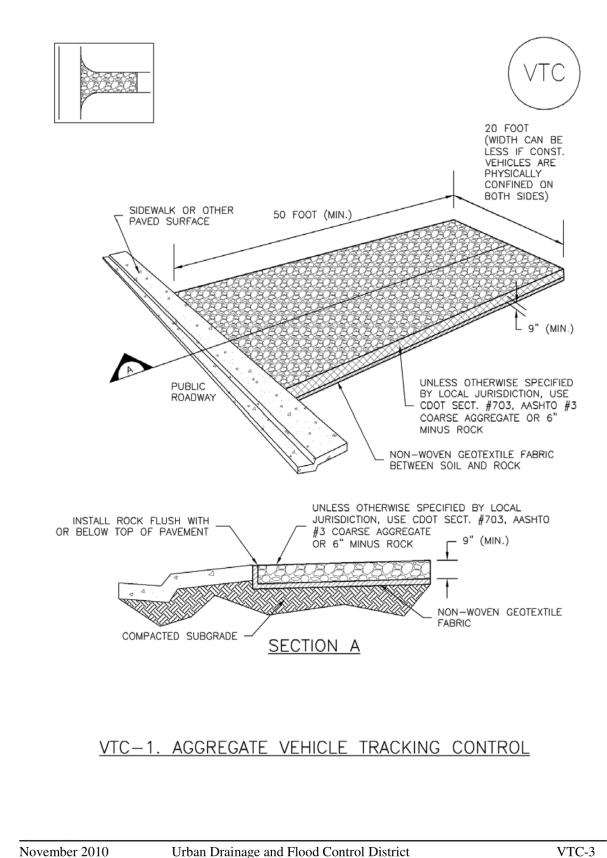


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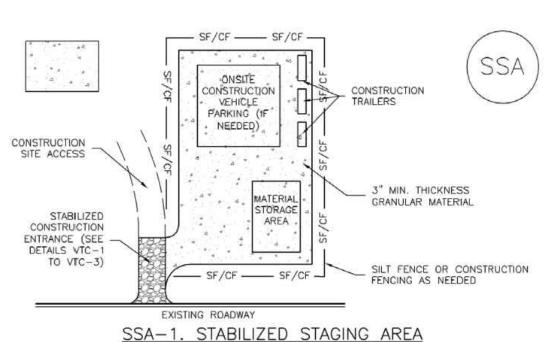
9/30/2024

Vehicle Tracking Control (VTC)



Stabilized Staging Area (SSA)

SM-6



STABILIZED STAGING AREA INSTALLATION NOTES 1. SEE PLAN VIEW FOR

-LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION. 3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE. 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING. STABILIZED STAGING AREA MAINTENANCE NOTES

MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON 4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR

FLYING HORSE NORTH FILING NO. 5

November 2010

Urban Drainage and Flood Control District

UNDERLYING SUBGRADE BECOMES EXPOSED.

PRI #2, LLC.

EL PASO COUNTY, CO

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GRADING & EROSION CONTROL PLAN

DETAILS 2

PCD FILE NO.: SF##

DRAWN BY: AMC

APPROVED: RDL CAD DATE: _10/1/2024

August 2013

JOB NUMBER: <u>211030</u> CAD FILE: J:\2021\211030\CAD\Dwgs\C\Filing_No_5\GEC\GEC-Details

JOB DATE:

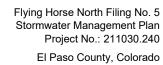
BAR IS ONE INCH ON OFFICIAL DRAWINGS. IF NOT ONE INCH. ADJUST SCALE ACCORDINGLY.

NO. DATE BY REVISION DESCRIPTION



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APPENDIX E - SPILL PREVENTION PLAN

Spill Prevention, Control and Countermeasure (SPCC) Plan

Facility Name: Address:			
Contact Name: Phone: Fax: Email:			
Certification:	the provisions of 40 CFF	R part 112, attest that thin 5 years, in accordance	ance with good engineering
This plan has been o	certified by:		
Date of certification	:	Engi	neer's Seal
Copies of this plan a	are located at the facility	and are available to	all employees.
Location(s) of plan(s	s):		

I. FACILITY INFORMATI	ON	
a. Facility Name:		
b. Mailing Address:		
c. Physical address if different:		
d. Owner Name:		
e. Owner Address:		
f. Primary Contact Name: Work Phone Number: Home Phone Number: Mobile Phone Number:		
g. Secondary Contact Name: Work Phone Number: Home Phone Number: Mobile Phone Number:		
h. Date of Initial Operation:		
II. SITE ASSESSMENT		
miles north of its confluence with	. For example, "This site is located along the Choptank River at Holland Point. Ronty ADC map 22 (H5). Latitude is and	oad access is from

III. FACILITY DESCRIPTION

a. Acres of land:	
b. Facilities and Equipment: Place an X beside all that apply.	
Garage for vehicle processing Parts store On-site crusher Impervious crush pad for crusher Impervious pad for outside vehicle processing Spill kit/emergency equipment	Parts washer Other structures and major equipment: Please list:
Refrigerant (Freon) extractor c. Services: Place an X beside all that apply. Dismantler/Recycler Sell used parts	Other services:
Sell used parts Sell vehicles for scrap Crushing Auto body/repair shop Sell used cars	Please list:
ground tank containing diesel fuel." Be sure t	
-	

e. Non-Fixed Storage:
List capacity and contents of each storage container. For example, "One 55 gallon drum for
recycled oil." Be sure to indicate what each container is used for, its condition and construction
and how secondary containment is provided.
f. Total quantity of stored materials:
The combined quantity of the materials listed above: gallons
IV. OIL SPILL HISTORY
Place an X on the appropriate line and proceed accordingly.
There has never been a significant spill at the above named facility.
There have been one or more significant spills at the above named facility. Details of such spill(s) are described below.
For each spill that occurred, supply the following information:
 Type and amount of oil spilled
 Location, date and time of spill(s)
Watercourse affected
 Description of physical damage
 Cost of damage
Cost of clean-up
Cost of clean-upCause of spill
Action taken to prevent recurrence
7 Action taken to prevent recurrence

V. POTENTIAL SPILL VOLUMES AND RATES

Fill in all applicable blanks. Be prepared to show the engineer documentation of flow rates. Your fuel vendor and the manufacturer of your storage and dispensing equipment should be able to provide this documentation.

Potential Event	Volume Released	Spill Rate
Complete failure of a full tank* Partial failure of a full tank* Tank overflow** Leaking during unloading*** Pipe failure**** Leaking pipe or valve*** Fueling operations*** Oil and grease	gallons 1 to gallons 1 to gallons up to gallons up to gallons several ounces to gallons several ounces to gallons several ounces to quarts	instantaneous gradual to instantaneous up to gallons per minute spotting
	ervice). ns of your equipment.	uck into your tank(s). the tank if it should have to be emptied
a. Spill Prevention: Provide specific descriptions of cosuch as double-walled tanks, contaprocedures and spill response kits. handling procedures and spill preventions.	inment berms, emergency shu Also, describe how and when	nt-offs, drip pans, fueling n employees are trained in prope

For each potential spill source, describe where petroleum would flow in the event of a spill. For example, "The 6,000 gallon diesel tank has a pre-manufactured secondary containment system capable of holding 110 percent of the total volume of the tank" and, "A spill from engine repair
would be contained inside the shop building and quickly cleaned up with oil absorbents." Incorporate site map by reference (see instructions under <i>Appendices</i>).
c. Spill response: Identify what equipment would be deployed by whom and in what situation. Also, include phone numbers for response agencies, <i>e.g.</i> , U.S. Coast Guard, fire department, spill response contractors, etc. A copy of your spill response plan may be attached as an appendix to this SPCC plan in lieu of completing this section.
d. Security Provide a description of how all containers are protected when the facility is not in operation or unattended. Include a description of fencing, access control, gates, locks, etc. that prevent access by unauthorized individuals.

VII. FACILITY INSPECTIONS

a. Routine Inspections Name facilities and the frequency with which they are inspected. For example, "The fuel pumps are inspected daily. The materials storage area is inspected monthly." Describe all facility containers, piping, etc. that is to be inspected. Name the person who has responsibility to implement preventative maintenance programs, oversee on-site inspections, coordinate employee training, maintain records, update the plan as necessary, and ensure that reports are submitted to the proper authorities.
b. Annual Inspections Include a description of annual comprehensive inspections. For example, "A site inspection is also conducted annually by appropriate responsible personnel to verify that the description of potential pollutant sources are accurate, that the map reflects current site conditions, and that the controls to reduce the pollutants identified in this plan are being implemented and are adequate. This annual inspection will be conducted above and beyond the routine inspections done focusing on designated equipment and areas where potential sources are located."
VIII. RECORD KEEPING Describe record keeping procedures. For example, "Record keeping procedures consist of maintaining all records a minimum of three years. The following items will be kept on file: current SPCC plan, internal site reviews, training records, and documentation of any spills or maintenance conducted in regards to these sites." Maintenance Inspection, Employee Training,
and Record Keeping logs are included in this template for your use.

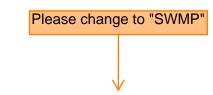
IX. MAINTENANCE INSPECTIONS

Maintenance Coordinator: Maintenance Coordinator responsibilities include implementation of preventative maintenance programs and oversight of on-site inspections.									
Use this table to reco	ord inspections:								
Facility Inspected	Date of Inspection	Name of Inspector	Result Pass/Fail	Comments					

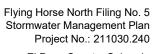
X. RECORD KEEPING OF INCIDENTAL SPILLS

Record Keeper: Record Keeper responsibilities include maintaining records of incidents, updating the SPCC plan as necessary and ensuring reports are submitted to the proper authorities when necessary.				
Incident No.	Type of Incident	Date of Occurrence	How it was Cleaned Up	
Ì	1			





APPENDIX F - CSWMP REPORT REVISION LOG





El Paso County, Colorado

SWMP REPORT REVISION LOG

REVISION #	DATE	BY	COMMENTS