



Innovative Design. Classic Results.

**EROSION CONTROL AND STORMWATER
MANAGEMENT PLAN
FOR
HANNAH RIDGE AT FEATHERGRASS
FILING NO. 4**

Prepared for:
Feathergrass Investments, LLC
4715 N. Chestnut Street
Colorado Springs, CO 80907

ATTN: Mr. Kenneth P. Driscoll

Job no. 1116.04



**EROSION & STORMWATER QUALITY CONTROL PLAN FOR
HANNAH RIDGE AT FEATHERGRASS FILING NO. 4**

**COLORADO DISCHARGE PERMIT SYSTEM STATEMENT (CDPS)/
EROSION AND STORMWATER QUALITY CONTROL PLAN (ESQCP)**

Site Inspector

The following Erosion and Stormwater Quality Control Plan (ESQCP) is a detailed account of the requirements of the City of Colorado Springs Drainage Criteria Manual, Volume 2 – Stormwater Quality Policies, Procedures and Best Management Practices. The main objective of this plan is to help mitigate the increased soil erosion and subsequent deposition of sediment off-site and other potential stormwater quality impacts during the period of construction from start of earth disturbance until final landscaping and other potential permanent stormwater quality measures are effectively in place.

This document must be kept at the construction site at all times and be made available to the public and any representative of the Colorado Department of Health - Water Quality Control Division, if requested.

This report is also proposed to meet all requirements of the Colorado Discharge Permit System for Construction Activity. If any discrepancies between this report and Volume 2 exist, the City Manual will prevail.



EROSION & STORMWATER QUALITY CONTROL PLAN FOR HANNAH RIDGE AT FEATHERGRASS FILING NO. 4

TABLE OF CONTENTS

- SITE DESCRIPTION**
 - RECEIVING WATER(S)
 - PROPOSED CONSTRUCTION ACTIVITY
 - PROPOSED SEQUENCE OF ACTIVITIES/ CONSTRUCTION TIMING
 - EROSION & SEDIMENT CONTROL
 - DEVELOPMENT AREA
 - SOILS INFORMATION
 - EXISTING SITE CONDITIONS.
- SITE MAP (See Appendix)**
- STORMWATER MANAGEMENT CONTROLS**
 - SWMP ADMINISTRATOR
 - POTENTIAL POLLUTANT SOURCES
 - BMPS FOR POLLUTION PREVENTION
 - BMP SELECTION
 - MATERIAL HANDLING & SPILL PREVENTION
 - CONCRETE/ASPHALT BATCH PLANTS
 - WASTE MANAGEMENT & DISPOSAL INCLUDING CONCRETE WASHOUT
 - DOCUMENTING SELECTED BMPS
 - NON-STORMWATER DISCHARGES
 - STORMWATER DEWATERING
 - REVISING BMPS AND THE SWMP
- FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT**
- INSPECTION AND MAINTENANCE PROCEDURES**
 - INSPECTION SCHEDULES & PROCEDURES
 - SWMP OWNER/ADMINISTRATOR INSPECTION PROCEDURES & SCHEDULES
 - BMP MAINTENANCE/REPLACEMENT & FAILED BMPS
 - RECORD KEEPING AND DOCUMENTING INSPECTIONS
- EROSION CONTROL COST OPINION**

APPENDIX

VICINITY MAP

COPY OF GENERAL PERMIT APPLICATION

OPERATION & MAINTENANCE INSPECTION RECORD

STANDARD BMP DETAILS w/ INSTALLATION & MAINTENANCE REQUIREMENTS



EROSION & STORMWATER QUALITY CONTROL PLAN FOR HANNAH RIDGE AT FEATHERGRASS FILING NO. 4

SITE DESCRIPTION

The proposed Hannah Ridge development is located in the south one-half of Section 32, Township 13 South, Range 65 west of the 6th p.m. and the northeast one-quarter of Section 5, Township 14 South, Range 65 West of the 6th p.m., in El Paso County, Colorado. The project site is on Constitution Avenue, west of Marksheffel Road and east of the Old Rock Island Railroad right of way. The majority of the site is located on the north side of Constitution Avenue with a minor portion on the south side of Constitution Avenue, adjacent to Marksheffel Road. A portion of the land was previously platted as Akers-Acres Subdivision Filing No. 1.

The property is located in the south one-half of Section 32, Township 13 South, and in the northeast quarter of Section 5, Township 5 South Range 65 West of the 6th Principal Meridian, in County of El Paso, State of Colorado. The project site is shown on the Vicinity Map in the Appendix of this report.

No wetlands, springs, landscape irrigation return flows or construction dewatering is anticipated on this site. Should any of the above items occur unexpectedly, BMPs shall be implemented immediately. The local regulatory agency shall be notified for approval of the BMPs and methods.

- **RECEIVING WATERS**

Name of Receiving Water(s)	Sand Creek east fork
Size/Type/Location of Outfall(s)	Existing Concrete box culvert at Constitution Ave.
Discuss discharge connection to Municipal system (include system name, location, and ultimate receiving water(s):	Site runoff to be conveyed in existing channel north of Constitution Ave then discharged into existing box culvert

- **PROPOSED CONSTRUCTION ACTIVITY**

Proposed construction activities within this project include overlot grading to of the project site, roadway infrastructure and utility infrastructure.

- **PROPOSED SEQUENCE OF ACTIVITY/CONSTRUCTION TIMING**

Proposed construction activities within this project include overlot grading, installation of wastewater mainline, storm sewer pipe, water mainline, curb & gutter, asphalt, dry utilities (gas/electric/telecom) as



well as future home building construction. Sequence of activities will be based upon site contractor timing and scheduling. Upon site contractor selection, contractor to include sequence of activities schedule in the section provided in the Appendix of this report. A standard sequence of events typically includes the following, as applicable:

- 1) Install perimeter, interior & exterior BMPs
- 2) Clear and grub site
- 3) Rough overlot grading
- 4) Excavation & installation of utilities
- 5) Building construction
- 6) Paving, curb & gutter, sidewalk, landscaping.

- **EROSION AND SEDIMENT CONTROL**

Erosion control measures shall be implemented in a manner that will protect properties and public facilities from the adverse effects of erosion and sedimentation as a result of construction and earthwork activities. In order to prevent a net increase of sediment load, Best Management Practices will be implemented during the construction life of this project. A silt fence will be built around the perimeter of the disturbed areas. All roads will be inspected to ensure that sediment from on-site construction activity is not being discharged with the stormwater. Roadways shall be swept as needed for controlling tracking of mud onto public roadways. Vehicle tracking control pads will aid in minimizing soil tracking onto roadways. All disturbed areas, not sodded, will be reseeded with a native seed mix and watered until a mature stand is established. All areas disturbed will be protected with silt fence, diversion swales and temporary sediment traps until such time as the site has been re-vegetated. Vegetation and vegetated buffers shall be preserved as much as possible. Wherever feasible, vegetated buffers shall be maintained free from vehicle/equipment parking, storage, stockpiles, or other impacts.

- **DEVELOPMENT AREA**

Total Site Area	<u>10.12</u>	Acres
Site area to be disturbed	<u>10.12</u>	Acres
Percent disturbance	<u>100</u>	%



- **SOILS INFORMATION**

The average soil condition reflects Hydrologic Group "A" and "B" (Blakeland, Blendon, Truckton sandy loam) as determined by the "Soil Survey of El Paso County Area", prepared by the Soil Conservation Service. Based upon the current proposed development of this site, the following runoff coefficients would be realized:

Existing site runoff coefficient = 0.25

Developed site runoff coefficient = 0.8/.35 lots & streets/ landscaped & seeded areas

- **EXISTING SITE CONDITIONS**

The site is located within the Sand Creek Drainage Basin. Currently, the majority of this site drains to the center of the site in a southerly direction. Stormwater drains to the south across this site and is conveyed to the east along existing Constitution Avenue. An existing concrete box culvert under Constitution Avenue will convey the stormwater to the south along the historic drainage path.

This site is currently 90% vegetated with native grasses and has existing slopes ranging from approximately 2% to 30% percent. The site was previously disturbed.

There are no areas designated as wetlands within the development limits for this report.

SITE MAP

Included in the appendix of this report is the approved overlot grading plan for the subject property which will serve as the SWMP site map. This document contains site specific grading and erosion control BMP measures as required and approved by the El Paso County Engineering division. Limits of disturbance, areas of cuts/fills, proposed stockpile areas, areas used for storage of materials, equipment, soil, or waste, batch plants, minimum and maximum cut/fill slopes, existing limits of significant vegetation, locations of springs, streams, and/or wetlands, and existing facilities (including but not limited to: detention/drainage facilities, structures, retaining walls, gas main, water main, wastewater main, electric and telecom vaults, fences, sidewalks, trails, curbs and streets) will be



represented on this plan as applicable. The site map will depict locations of specific interim and ultimate stormwater management BMPs throughout the lifetime of the project. Erosion control cost assurances must be posted to City Engineering in the amount listed on the Title Page of the overlot grading plan prior to approval of the overlot grading plan. The site map/overlot grading plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule. All construction BMP details will be included in the appendix of this report. Detail sheets include installation and maintenance requirements. Also reference "Drainage Criteria Manual, Volume 2 Stormwater Quality Policies, Procedure, and Best Management Practices" for additional information and guidance regarding construction BMPs.

STORMWATER MANAGEMENT

- **SWMP ADMINISTRATOR**

The SWMP Administrator can be an individual(s), position, or title – this entity is responsible for developing, implementing, maintaining, and revising the SWMP. The Administrator is the contact for all SWMP related issues and is the entity responsible for its accuracy, completeness, and implementation. Therefore, the SWMP Administrator should be a person with authority to adequately manage and direct day to day stormwater quality management activities on the subject site. Reference the Appendix of this report for the SWMP permit application which names the individual/entity applying for the permit and naming the Administrator of the SWMP.

- **POTENTIAL POLLUTANT SOURCES**

Potential pollutant sources which shall be evaluated for potential to contribute pollutants to stormwater discharge from the subject site may include the following:

- Disturbed and stored soils
- Vehicle tracking of sediments
- Management of contaminated soils
- Loading and unloading operations
- Outdoor storage activities (building materials, fertilizers, chemicals, etc.)
- Vehicle and equipment maintenance and fueling
- Significant dust or particulate generating processes
- Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc.



- On-site waste management practices (waste piles, liquid wastes, dumpsters)
- Concrete truck/equipment washing, including the concrete truck chute associated fixtures and equipment
- Dedicated asphalt and concrete batch plants
- Non-industrial waste sources such as worker trash and portable toilets
- Other areas or procedures where potential spills can occur.

The location and description of these areas are shown on the attached SWMP Site Map, as applicable.

- **BMPS FOR POLLUTANT PREVENTION**

The following are common practices to mitigate potential pollutants:

- Wind erosion shall be controlled by sprinkling site roadways and/or temporary stabilizing stockpiles. Each dump truck hauling material from the site will be required to be covered with a tarpaulin.
- Sanitary facilities shall be placed at a minimum of 10' from any curblin and 50' from any inlet. If not feasible for the project, use of a secondary containment shall be implemented.
- Equipment fueling and Maintenance Services – a designated fueling area will be established to contain any spill resulting from fueling, maintenance, or repair of equipment. Contractors will be responsible for containment, cleanup, and disposal of any leak or spill and any costs associated with the cleanup and disposal.
- Chemical products shall be protected from precipitation, free from ground contact, and stored properly to prevent damage from equipment or vehicles.
- Material stockpiles (soils, soil amendments, debris/trash piles) – All construction trash and debris will be deposited in the dumpster.
- Sediment and Migration of Sediment – Sweeping operations will take place as needed to keep roadways maintained. The perimeter of the site will be evaluated for any potential impact resulting from trucking operations or sediment migration from the site. BMP devices will be placed to protect storm system inlets should any roadway tracking or sediment migration occur.
- Snow removal and/or stockpiling will be considered prior to placement at the site. Snow stockpiles must be kept away from any stormwater conveyance system (i.e., inlets, ponds, outfall locations, roadway surfaces, etc.).

- **BMP SELECTION**

Selection of the appropriate BMP will limit the source of the pollutant. Guidance for the selection process can be found by referencing the City of Colorado Springs “Drainage Criteria Manual Volume 2”.

During grading and construction activity for the subject site, silt fence will be installed along the perimeter of the site as well as at the limits of grading within the project. Check dams will be installed along all permanent and temporary diversion swales to minimize erosion in areas of concentrated stormwater. Temporary diversion swales will be installed to a minimum of 1% slope to divert stormwater to several proposed sediment basins intended to collect stormwater and filter the sediment before conveyance into the proposed storm systems. Inlet protection will be installed at all proposed and adjacent inlets to ensure no downstream pollutants will enter storm sewer facilities. Vehicle tracking control pads will be installed at all access points to the property. Regular maintenance and inspection of these facilities will be necessary throughout grading operations and until vegetation is reestablished to ensure proper function of the sediment basin temporary outlet structures.

- **MATERIAL HANDLING & SPILL PREVENTION**

Where materials can impact stormwater runoff, existing and planned practices that reduce the potential for pollution must be included in a spill prevention plan, to be provided by the contractor. Spill prevention plans shall include

- Notification procedures to be used in the event of an accident
- Instruction for clean-up procedures, and identification of a spill kit location
- Provisions for absorbents to be made available for use in fuel areas, and for containers to be available for used absorbents
- Procedures for properly washing out concrete truck chutes and other equipment in a manner and location so that the materials and wash water can not discharge from the site and never into a storm sewer system or stream.

- **CONCRETE/ASPHALT BATCH PLANTS**

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices used to control stormwater pollution from dedicated asphalt or concrete batch plants.



- **WASTE MANAGEMENT AND DISPOSAL INCLUDING CONCRETE WASHOUT**

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices implemented at the site to control stormwater pollution from all construction site wastes (liquid and solid) including concrete washout activities.

- **DOCUMENTING SELECTED BMPs**

As discussed in the SITE MAP section of this report, documentation of the selected BMPs will be included on the site map / overlot grading plan included in this report. The site map/overlot grading plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule.

- **NON-STORMWATER DISCHARGES**

Except for emergency fire fighting activities, landscape irrigation return flow, uncontaminated springs, construction dewatering and concrete washout water, the SWMP permit covers only discharges composed entirely of stormwater.

- **STORMWATER DEWATERING**

The discharge of pumped water, ONLY from excavations, ponds, depressions, etc., to surface waters or to a municipal separate storm-sewer system is allowed by the Stormwater Construction Permit as long as the dewatering activity and associated BMPs are identified in the SWMP (including location of activity), and the BMPs are implemented in accordance with the SWMP. Where applicable, all stormwater and groundwater dewatering practices implemented to control stormwater pollution for dewatering must be amended in the SWMP and Site Map by the contractor.

- **REVISING BMPs AND THE SWMP**

The implemented BMPs will need to be modified and maintained regularly to adapt to changing site conditions and to ensure that all potential stormwater pollutants are properly managed. The BMPs and pollutant sources must be reviewed on an ongoing basis by the Administrator as assigned by the Permit.



With any construction project, special attention must be paid to construction phasing and therefore revisions to the SWMP to include any additional or modification to the BMPs and SWMP report. The SWMP must be modified or amended to accurately reflect the field conditions. Examples include - but are not limited to -- removal of BMPs, identification of new potential pollutant procedures, and changes to information provided in the site map/overlot grading plan. SWMP revisions must be made prior to changes in site conditions. The SWMP should be viewed as a "living document" throughout the lifetime of the project.

FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT

Permanent stabilization of the site includes seeding and mulching the site. Seeding and mulching consists of loosening soil, applying topsoil (if permanent seeding) and drill seeding disturbed areas with grasses and crimping in straw mulch to provide immediate protection from raindrop and wind erosion. As the grass cover becomes established, provide long term stabilization of exposed soils.

Once the construction activity ceases permanently, the area will be stabilized with permanent seed and mulch. All areas that will not be impacted by construction of buildings will be seeded and landscaped as feasible. After seeding, each area will be mulched with straw. The straw mulch is to be tacked into place by a disc with blades set nearly straight. Topsoil stockpiles will be stabilized with temporary seed and mulch. Areas of the site that are to be paved will be temporarily stabilized until asphalt is applied.

The temporary perimeter controls (silt fence or equivalent) will not be removed until all construction activities at the site are complete and soils have been stabilized. Upon completion of construction activities, the site shall be inspected to ensure all equipment, waste materials, and debris have been removed. All other BMPs or other control practices and measure that are to remain after completion of construction will be inspected to ensure they are properly functioning. Final stabilization is reached when all soil disturbing activities at the site have been completed and uniform vegetative cover has been established with a density of at least 70% of pre-disturbance levels. For purposes of the SWMP, establishment of a vegetative cover capable of providing erosion control equivalent to the pre-existing conditions at the site can be considered final stabilized.



INSPECTION AND MAINTENANCE PROCEDURES

All drainage facilities will be monitored using the enclosed "Monitoring and Maintenance Inspection Record" checklist (Appendix II).

- **SWMP OWNER/ADMINISTRATOR INSPECTION PROCEDURES & SCHEDULES**

The Owner/Administrator shall adhere to the following inspection procedures during the development of the site:

1. Make thorough inspection of the stormwater management system at least every 14 days.
2. Make thorough inspection of the stormwater management system within 24 hrs of each precipitation event that creates runoff.
3. If any system deficiencies are noted, corrective actions must begin immediately. Documentation of inspection must be available if requested.
4. Records of the site inspections or facility replacement modifications must be kept at the site within this report.
5. 30 day inspections must take place on this site where construction activity is complete, but vegetative cover is still being established.

In this report's appendix, a site inspection form has been included for use by the Inspector. Upon completion of this form, the document is to be kept in the provided folder also in the rear of this report.

- **BMP MAINTENANCE / REPLACEMENT & FAILED BMPs**

The Stormwater Construction Permit requires that all erosion and sediment control practices and other protective measures identified in the SWMP be maintained in effective and operation condition. A preventative maintenance program should be in place to prevent BMP breakdowns and failures by proactively maintaining or replacing BMPs and equipment. The inspections process should also include procedures to ensure that BMPs are replaced or new BMPs added to adequately manage the pollutant sources at the site. This procedure is part of the ongoing process of revising the BMPs and SWMP as previously discussed, and any changes shall be recorded in the SWMP.

- **RECORD KEEPING AND DOCUMENTING INSPECTIONS**

The following items must be documented as part of the site inspections:

- Inspection date



- Name(s) and title(s) of personnel making inspection
- Location(s) of discharges of sediment or other pollutants from site
- Location(s) of BMPs that need to be maintained
- Location(s) of BMPs that fail to operate as designed or proved inadequate in a particular location
- Location(s) where additional BMPs are needed that were not in place at time of inspection
- Deviations from the minimum inspection schedule
- Descriptions of corrective action for items above including dates and measures taken to prevent future violations
- Signed statement of compliance added to the report after correction action has been taken

PREPARED BY:

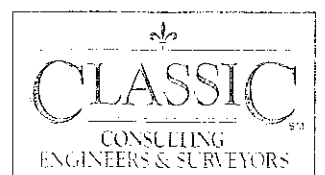
Classic Consulting Engineers & Surveyors, LLC

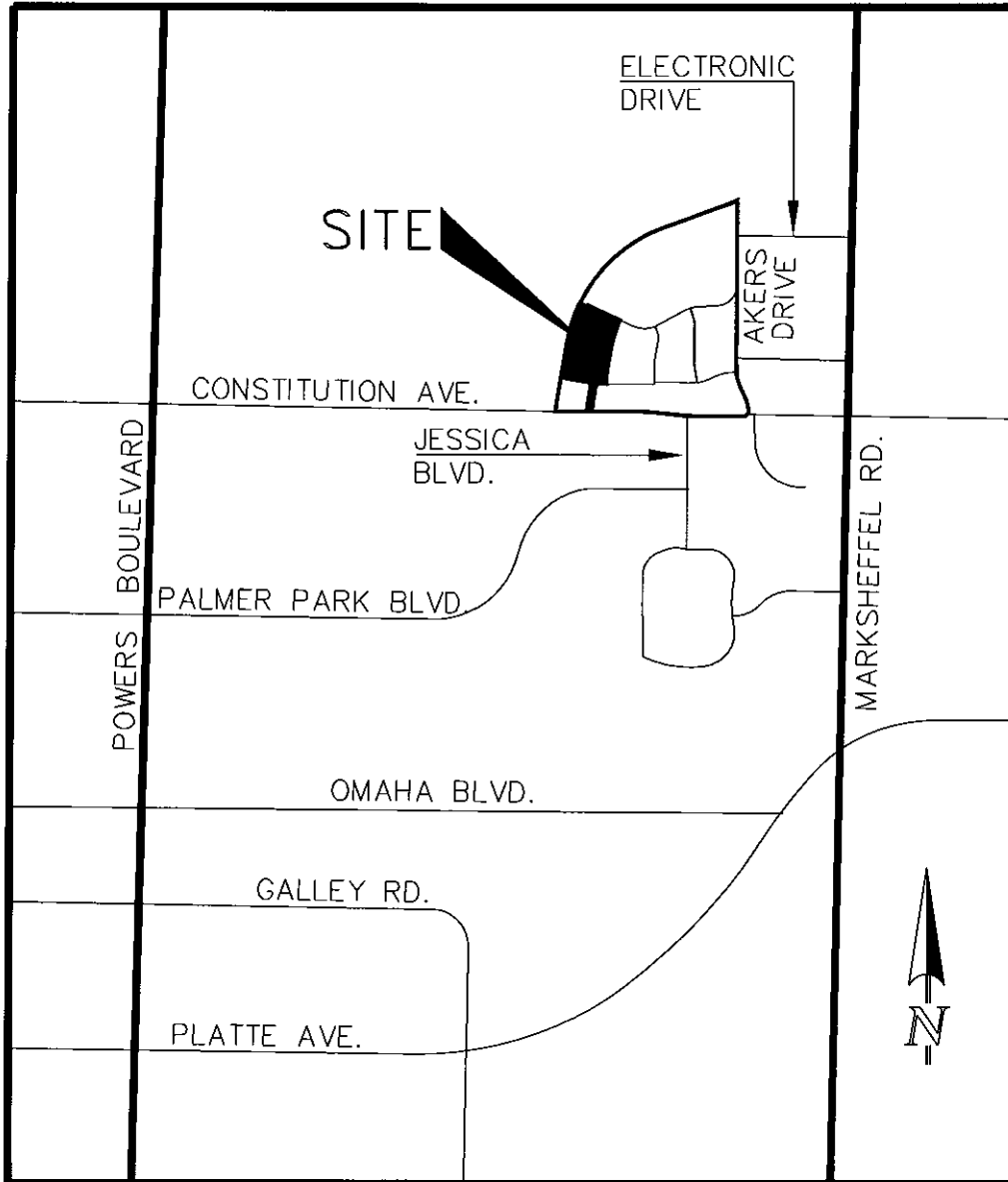
Kyle R. Campbell, P.E.
Division Manager

ag/1116.04/reports/ swmp report fil 4.doc



VICINITY MAP





VICINITY MAP
NOT TO SCALE

COPY OF PERMIT APPLICATION

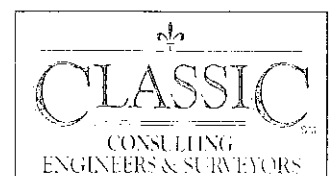
General permit application for stormwater discharges associated with construction activity.

(TO BE PROVIDED PRIOR TO PLAN APPROVAL)

SYSTEM (CDPS) CHECKLIST

Operation & Maintenance Inspection Record

The following inspection records are to be used at each bi-monthly stormwater management system inspection and after any precipitation or snowmelt event that causes surface runoff. As a result of these inspections, the SWMP may need to be revised. The inspection records and revised SWMP shall be made available to the division upon request. If the construction activity lasts more than 12 months, a copy of the inspection records and revised SWMP shall be sent to the division by May 1 of each year covering April 1 to March 31.



Action: _____ Project Type: _____ Zip Code: _____

Project Name: _____ Subdivision: _____

Address/Location: _____ Assigned Inspector: _____

Action Date: _____ Date Next Routine: _____ Date Next Follow-up: _____

Owner: _____ Owner Phone: _____ Stage of Construction: _____

Rep. Name: _____ Rep. Phone: _____ Inspected By: _____

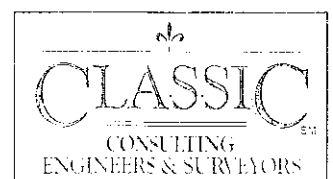
	Items	Is Used	Maint. Required	Remarks / Actions Necessary
1	Check Dam <ul style="list-style-type: none"> ➤ Has accumulated sediment and debris been removed per maintenance requirements? 	No	No	
2	Erosion Control Blanket <ul style="list-style-type: none"> ➤ Is the erosion control blanket fabric damaged, loose, or in need of repair? 	No	No	
3	Inlet Protection <ul style="list-style-type: none"> ➤ Is the inlet protection damaged, ineffective or in need of repairs? ➤ Does sediment remain in inlets? 	No	No No	
4	Mulching <ul style="list-style-type: none"> ➤ Uneven mulch distribution on disturbed areas? ➤ Is the mulch application rate inadequate? ➤ Any evidence of mulch being blown or washed away? ➤ Do areas require additional mulching? 	No	No No No No	
5	Sediment / Basin Trap <ul style="list-style-type: none"> ➤ Is the sediment basin improperly constructed or inoperable? ➤ Is there sediment and/or debris in the basin? 	No	No No	
6	Silt Fence <ul style="list-style-type: none"> ➤ Is the silt fence damaged, collapsed, un-trenched or ineffective? ➤ Is the excess sediment against the barrier? ➤ Is the silt fence improperly located? 	No	No No No	
7	Slope Drain <ul style="list-style-type: none"> ➤ Is water bypassing or undercutting the inlet or pipe? ➤ Is there any evidence of erosion? 	No	No No	
8	Straw Bale Barrier <ul style="list-style-type: none"> ➤ Are the straw bales damaged, ineffective or un-trenched? ➤ Is there excess sediment against the barrier? ➤ Are the bales installed and positioned incorrectly? 	No	No No No	
9	Surface Roughening <ul style="list-style-type: none"> ➤ Is the surface roughening inconsistent on slopes? ➤ Is there any evidence of surface roughening erosion? 	No	No No	
10	Seeding <ul style="list-style-type: none"> ➤ Are the seedbeds unprotected? ➤ Has any erosion occurred in the seeded area? ➤ Any evidence of vehicle tracking on seeded area? 	No	No No No	
11	Temporary Swales <ul style="list-style-type: none"> ➤ Has any sediment or debris been deposited within the swales? ➤ Have the slopes of the swale eroded or has damage occurred to the lining? ➤ Are the swales improperly located? 	No	No No No	
12	Vehicle Tracking <ul style="list-style-type: none"> ➤ Is gravel surface clogged with mud or sediment? ➤ Is the gravel surface sinking into the ground? ➤ Has sediment been tracked onto any roads? ➤ Is inlet protection missing around curb inlets near construction entrance? 	No	No No No No	
13	Diversion Structure <ul style="list-style-type: none"> ➤ Has the structure been damaged or show signs of erosion? ➤ Is the structure properly located? 	No	No No	

14	Outlet Protection ➤ Is erosion taking place?	No	No	
15	Rough-Cut Street Control ➤ Have structures been properly located and installed? ➤ Is there excess sediment against the structures?	No	No No	
16	Concrete Washout ➤ Has material been removed per maintenance requirements? ➤ Does structure have adequate signage? ➤ Is there adequate tracking-pad material for access, if necessary? ➤ Is there adequate protection around the structure?	No	No No No No	
17	Erosion Logs ➤ Are the erosion logs damaged, collapsed, or ineffective? ➤ Is there excess sediment against the barrier? ➤ Are the erosion logs improperly located?	No	No No No	
18	GEC Management ➤ Is the GEC notebook located on site? ➤ Are changes to the GEC documents noted and approved? ➤ Are the inspection reports retained on-site? ➤ Are corrective actions from the last inspection completed?	No	No No No No	
19	Materials and Pollution ➤ Are stockpiles being managed properly? ➤ Are materials being managed properly? ➤ Is solid waste and trash being managed properly? ➤ Is street sweeping being managed properly? ➤ Are the sanitary facilities being managed properly? ➤ Are the vehicles and equipment being managed properly? ➤ Are there other materials or pollution issues being properly maintained?	No	No No No No No No No	

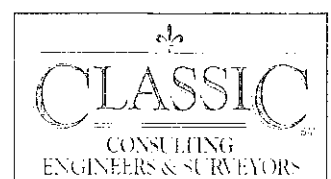
Project Status: _____ Const. Start Date: _____ Size of Disturbance (acres): _____

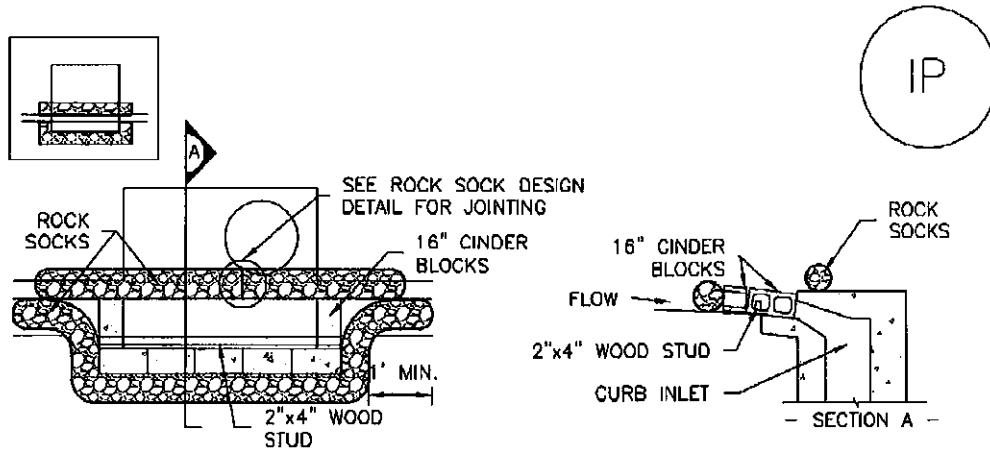
Additional Comments:

**COMPLETED OPERATION AND
MAINTENANCE INSPECTION RECORDS**



STANDARD BMP DETAILS
W/ INSTALLATION AND MAINTENANCE REQUIREMENTS

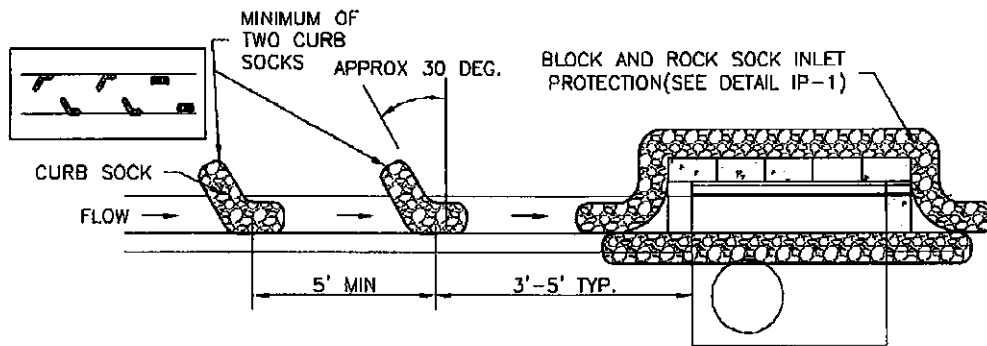




IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

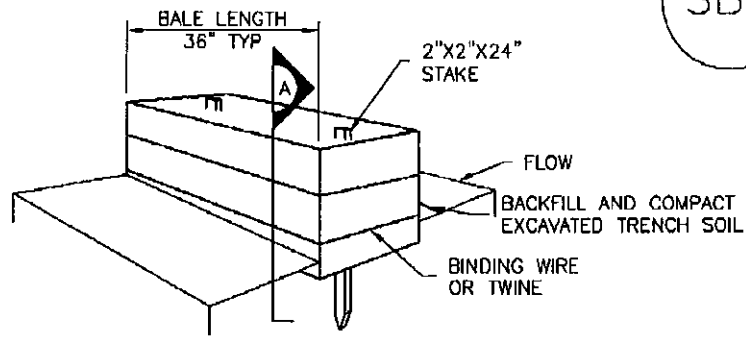
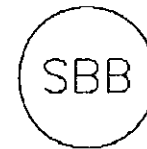
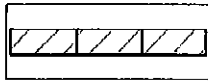
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



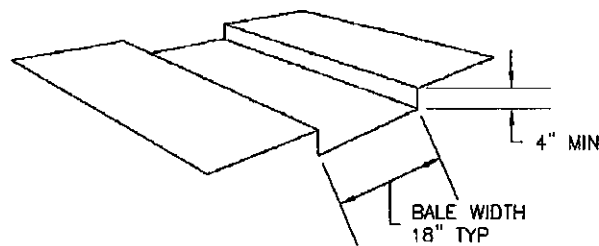
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

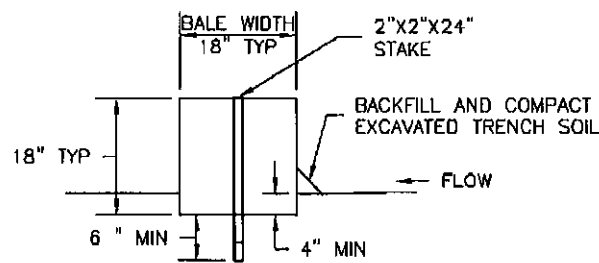
1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.



STRAW BALE



TRENCH FOR STRAW BALE



SECTION A

SBB-1. STRAW BALE

STRAW BALE INSTALLATION NOTES

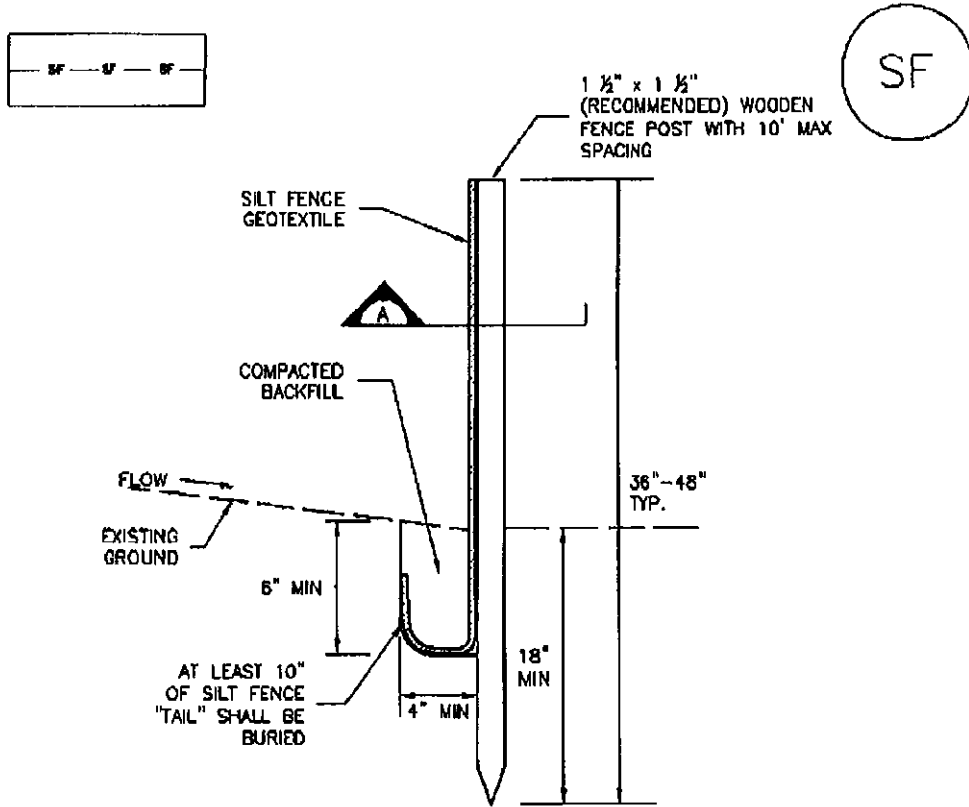
1. SEE PLAN VIEW FOR:
-LOCATION(S) OF STRAW BALES.
2. STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
3. STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
4. WHEN STRAW BALES ARE USED IN SERIES AS A BARRIER, THE END OF EACH BALE SHALL BE TIGHTLY ABUTTING ONE ANOTHER.
5. STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"X18"X18".
6. A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PLACED SO THAT BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALE(S). ALL EXCAVATED SOIL SHALL BE PLACED ON THE UPHILL SIDE OF THE STRAW BALE(S) AND COMPACTED.
7. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2"X2"X24". WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND.

STRAW BALE MAINTENANCE NOTES

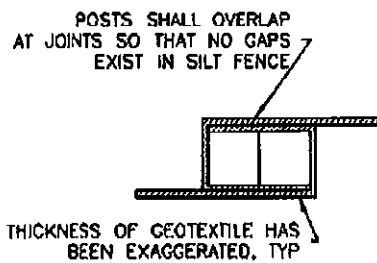
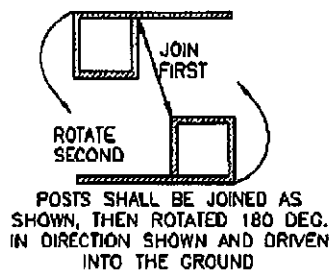
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF STRAW BALE BARRIER SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY $\frac{1}{4}$ OF THE HEIGHT OF THE STRAW BALE BARRIER.
6. STRAW BALES ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN STRAW BALES ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, 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.



SILT FENCE



SECTION A

SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

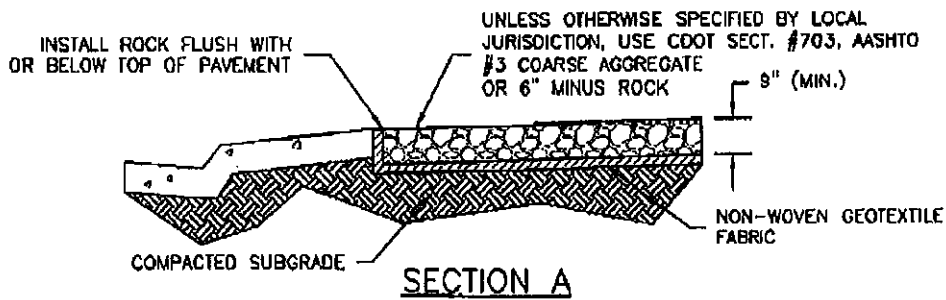
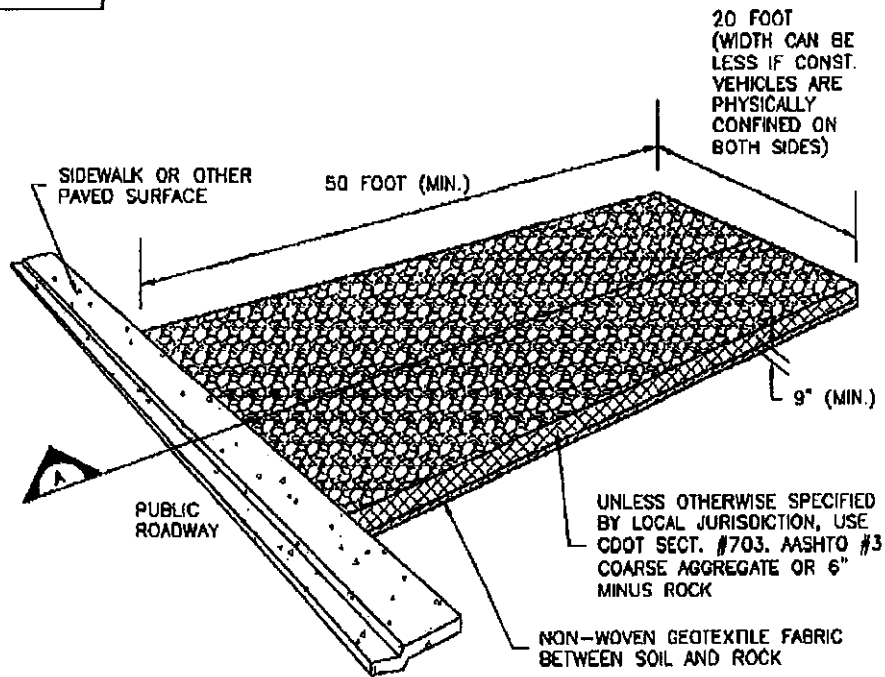
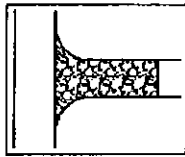
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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 SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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.

Vehicle Tracking Control (VTC)

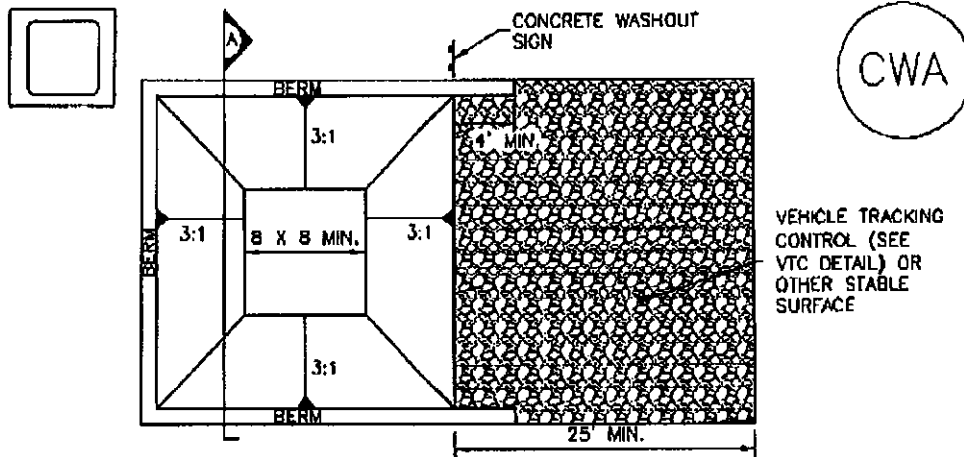
SM-4



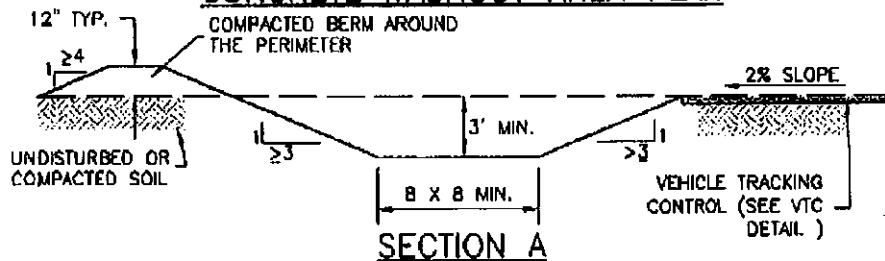
VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

Concrete Washout Area (CWA)

MM-1



CONCRETE WASHOUT AREA PLAN



SECTION A

CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
--CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CWA 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. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, 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.

**SITE MAP/ EROSION AND STORMWATER
QUALITY CONTROL PLAN**



HANNAH RIDGE AT FEATHERGRASS FILING NO. 4

COUNTY OF EL PASO, STATE OF COLORADO

OVERLOT GRADING PLAN INCLUDING EROSION CONTROL

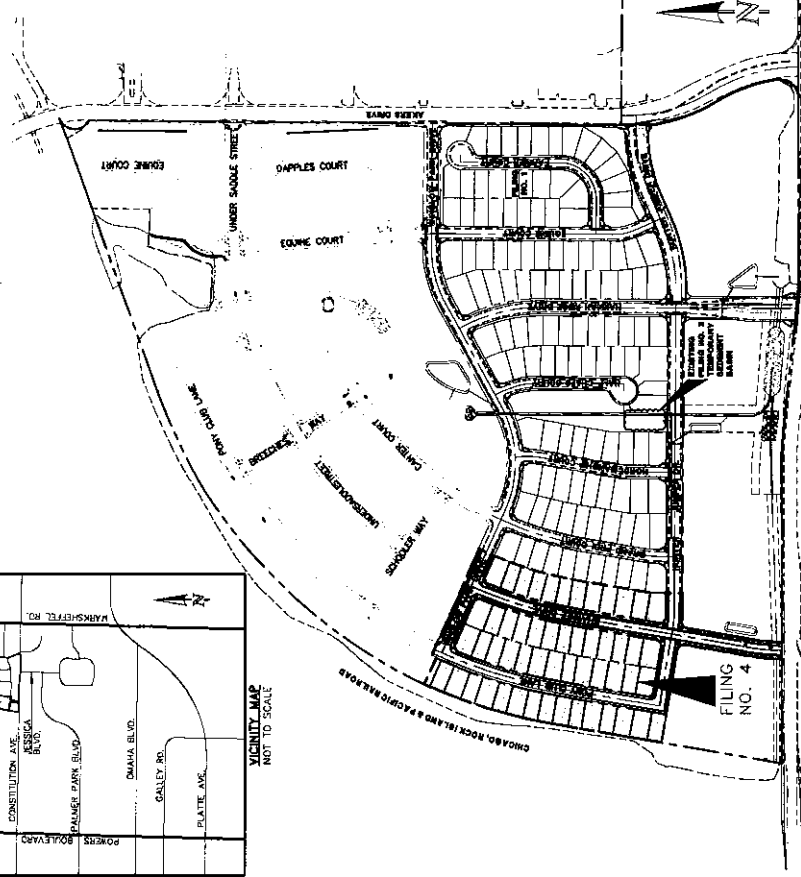
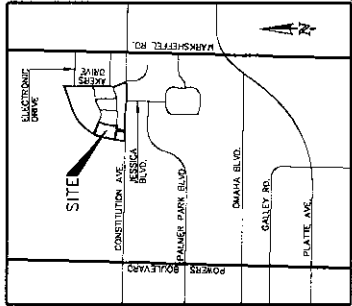
MAY 2017

GENERAL CONSTRUCTION NOTES:

1. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES BEFORE THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES ON THE PLAN IN NOT TO BE CONSIDERED AS THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THE OPERATOR. ANY DAMAGE TO UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE INTERRUPTION WILL BE SETLED BY THE CONTRACTOR.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
3. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
4. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.

EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

1. CONSTRUCTION SHALL BE CONDUCTED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER AND A REGISTERED SURVEYOR.
2. CONSTRUCTION SHALL BE CONDUCTED IN ACCORDANCE WITH THE EL PASO COUNTY GRADING AND EROSION CONTROL MANUAL (2015) AND ALL APPLICABLE EL PASO COUNTY STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.



KEY MAP
SCALE: 1" = 200'

NO. REVISION	DATE	REVIEW

48 HOURS BEFORE YOU DEL.
CALL UTILITY LOCATIONS
811
UTILITY INFORMATION OF COLORADO
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE OBTAINED FROM THE UTILITY INFORMATION OF COLORADO (800) 455-1159. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT.

REVIEW
APPROVED UNDER DIRECT SUPERVISION (AS AND IN NAME OF)
CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC

DATE
BY: T. CORRELL, REGISTERED P.E. 10371
DATE

CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

HANNAH RIDGE AT FEATHERGRASS
FILING NO. 4
OVERLOT GRADING PLAN
INCLUDING EROSION CONTROL - TITLE SHEET

DESIGNED BY: RJC
SCALE: 1" = 100'
DRAWN BY: APR (10) 11-18-16
CHECKED BY: APR (10) 11-18-16
DATE: 02/23/17

PROJECT NO.: 140117-11A-1000-00
SHEET NO.: 1 OF 3

DATE: 02/23/17

CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

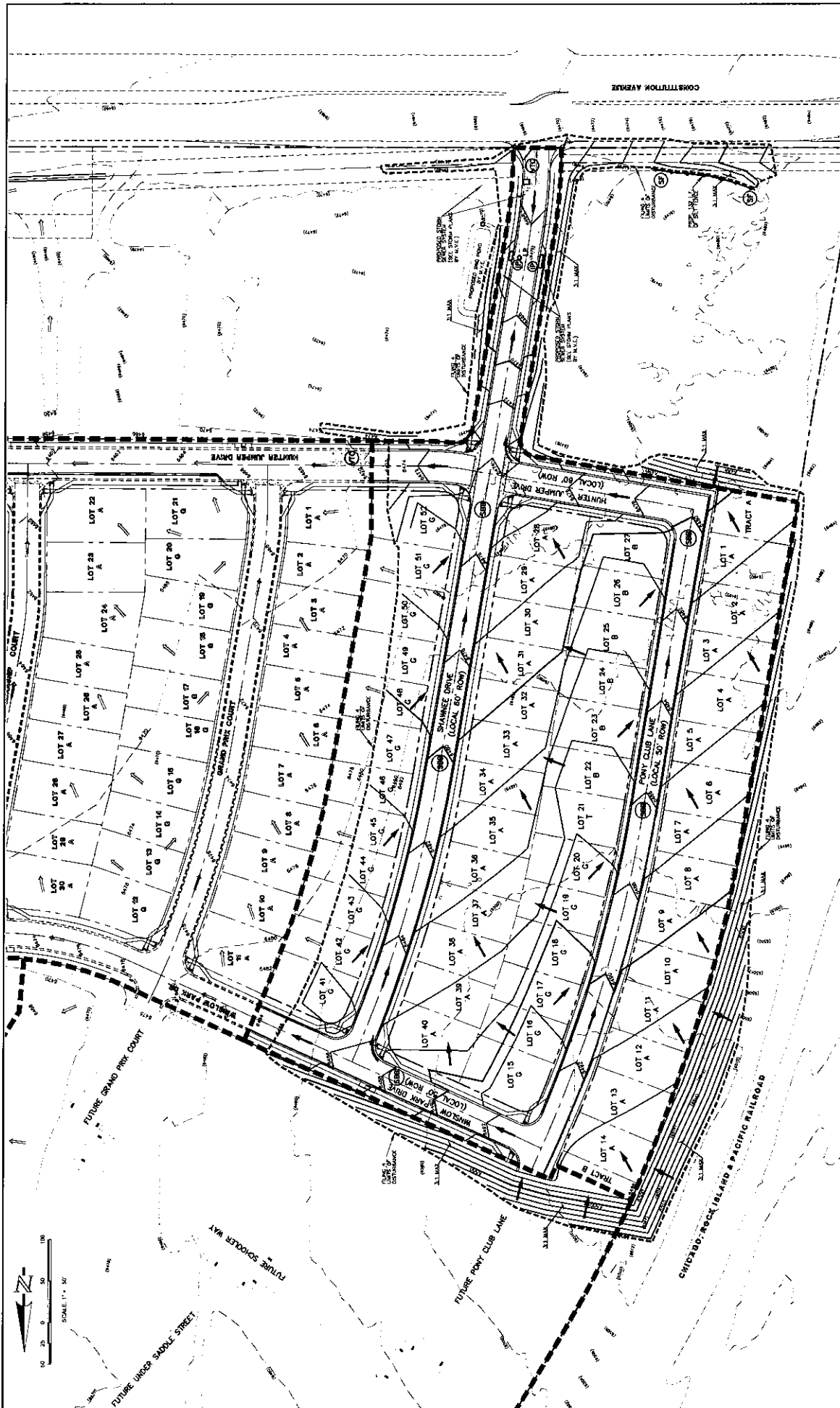
CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
(303) 750-2000

- AGENCIES:**
- OWNER: HANNAH RIDGE AT FEATHERGRASS, LLC
10000 W. WYANDOTT BLVD., SUITE 100
DENVER, COLORADO 80242
 - DESIGNED BY: RJC
SCALE: 1" = 100'
DRAWN BY: APR (10) 11-18-16
CHECKED BY: APR (10) 11-18-16
DATE: 02/23/17
 - PROJECT NO.: 140117-11A-1000-00
 - SHEET NO.: 1 OF 3
 - DATE: 02/23/17

ENGINEER'S STATEMENT:
I, THE ENGINEER, HAVE EXAMINED THE DRAWINGS AND SPECIFICATIONS FOR THE OVERLOT GRADING AND EROSION CONTROL PLAN FOR THE PROJECT AND I AM Satisfied THAT THE SAME COMPLY WITH THE REQUIREMENTS OF THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR.

OWNER/DEVELOPER STATEMENT:
I, THE OWNER/DEVELOPER, HAVE EXAMINED THE DRAWINGS AND SPECIFICATIONS FOR THE OVERLOT GRADING AND EROSION CONTROL PLAN FOR THE PROJECT AND I AM Satisfied THAT THE SAME COMPLY WITH THE REQUIREMENTS OF THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR.

EL PASO COUNTY:
I, THE COUNTY ENGINEER, HAVE EXAMINED THE DRAWINGS AND SPECIFICATIONS FOR THE OVERLOT GRADING AND EROSION CONTROL PLAN FOR THE PROJECT AND I AM Satisfied THAT THE SAME COMPLY WITH THE REQUIREMENTS OF THE EL PASO COUNTY ENGINEERING DEPARTMENT AND THE EL PASO COUNTY SURVEYING DEPARTMENT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO ME BY THE CLIENT OR THE CONTRACTOR.



CLASSIC CONSULTING ENGINEERS & SURVEYORS
 2000 LAWRENCE BLVD., SUITE 100
 DENVER, COLORADO 80202
 (303) 733-1100
 FAX: (303) 733-1101
 WWW.CLASSICCONSULTING.COM

HANNAH RIDGE AT FEATHERGRASS
FLING NO. 4
 OVERLOT GRADING PLAN
 INCLUDING EROSION CONTROL

DESIGNED BY: MRC SCALE: DATE: 02/09/12
 DRAWN BY: JRM (A) 1" = 30' SHEET: 3 OF 3
 CHECKED BY: DATE: 02/09/12

REVIEW
 REVISIONS MADE BY: MRC SUPERVISOR FOR AND IN BEHALF OF
 CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

DATE: 02/09/12

DATE: 02/09/12

NO. REVISION

NO.	REVISION	DATE

48 HOURS BEFORE YOU DIG
 CALL UTILITIES LOCATIONS
811
 UNITS: 800-455-1111
 WEBSITE: WWW.811.CO

THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BEFORE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

LEGEND

(SOLID)	EXISTING CONTOUR
(DASHED)	PROPOSED CONTOUR
(DASHED)	PHASE LINE
(DASHED)	A LOT
(DASHED)	B LOT
(DASHED)	W/OUT LOT
(DASHED)	TRANSITION LOT

PROPOSED FLOW

(ARROW)	EXISTING FLOW
(ARROW)	INLET INDIRECTION
(DASHED)	SKY FENCE
(DASHED)	VEHICLE TRAPPING CONTROL
(DASHED)	(2) STRIKEABLE CHECK DAM (20' x 20' x 2')

