GRADING, EROSION AND STORMWATER QUALITY CONTROL PLAN

for

WINDERMERE

N. Marksheffel Road El Paso County, Colorado

September 2020

PCD File No.: SP-19-003

Prepared For:	Qualified Stormwater Manager:
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Prepared by:	Contractor:
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GRADING, EROSION AND STORMWATER QUALITY CONTROL PLAN WINDERMERE

TABLE OF CONTENTS

1.0		AWATER QUALITY STATEMENT & OBJECTIVES
2.0	2.1	DESCRIPTION OF CONSTRUCTION ACTIVITIES
	2.2	EXISTING SITE CONDITIONS
	2.3	ADJACENT AREAS
	2.4	SOILS 2
	2.5	AREAS AND VOLUME STATEMENT
	2.6	CONTROLS AND MEASURES DURING CONSTRUCTION
	2.7	POTENTIAL POLLUTION SOURCES
	2.8	NON-STORMWATER DISCHARGES
	2.9	RECEIVING WATER
3.0 4.0	SITE M BMP's	AP 6 FOR STORMWATER POLLUTION PREVENTION 7 FROSION CONTROL - STRUCTURAL PRACTICES 7
	4.2	EROSION CONTROL – NON-STRUCTURAL PRACTICES
	4.3	MATERIALS HANDLING & SPILL PREVENTION
	4.4	DEDICATED CONCRETE OR ASPHALT BATCH PLANTS 10
	4.5	GROUNDWATER & STORMWATER DEWATERING 10
5.0 6.0	TIMIN FINAL	G SCHEDULE10 STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT
7.0 8.0	INSPE REFER	CTION AND MAINTENANCE11 ENCES

APPENDIX

VICINITY MAP

SOILS INFORMATION

SITE MAP

CONSTRUCTION STORMWATER SITE INSPECTION REPORT

Drexel, Barrell & Co.

1.0 STORMWATER QUALITY STATEMENT & OBJECTIVES

Stormwater quality best management practices shall be implemented to minimize soil erosion, sedimentation, increased pollutant loads and changed water flow characteristics resulting from land disturbing activity, to the maximum extent practicable, so as to minimize pollution of receiving waters.

Per Appendix A of the Colorado Department of Health, Water Quality Control Division's (the Division) "General Permit Application for Stormwater Discharge Associated with Construction Activities", the goal of the Stormwater Management Plan (SWMP) is:

"To identify possible pollutant sources that may contribute pollutants to stormwater, and identify Best Management Practices (BMPs) that, when implemented, will reduce or eliminate any possible water quality impacts. The SWMP must be completed and implemented at the time the project breaks ground, and revised if necessary as construction proceeds to accurately reflect the conditions and practices at the site."

This document is not intended to address training, site specific operational procedures, logistics, or other "means and methods" required to construct this project.

This document must be kept at the construction site at all times. Inspections are to be made at least every 14 days and after any precipitation event. El Paso County requires that the inspector be contacted 48 hours prior to initial and final inspections. An inspection log entry shall be completed with each inspection performed. The inspection log shall be kept with the SWMP. The conditions of the SWMP and General Permit for Stormwater Discharges associated with the construction activity will remain in effect until final stabilization is achieved, and a notice of inactivation is sent to CDPHE Stormwater Quality Division. All pertinent records must be kept for at least 3 years from the date the site is stabilized.

Drexel, Barrell & Co. has been retained to provide civil engineering services for the design of this project. Drexel, Barrell & Co. is not responsible for implementation and maintenance of the Stormwater Management Plan.

2.0 SITE DESCRIPTION

2.1 DESCRIPTION OF CONSTRUCTION ACTIVITIES

The project involves the development of Windermere in El Paso County, CO, a single family home subdivision. The proposed development consists of approximately 52.07 acres of residential development which will consist of 202 single family lots. The entire project area will be disturbed. The current area of disturbance is required to be updated by the Contractor on the SWMP as changes occur.

The site work will include overlot grading, utility and drainage infrastructure, and roadway construction followed by single-family home construction.

2.2 EXISTING SITE CONDITIONS

The site is currently undeveloped and is 90% covered with native grass and vegetation, as determined by visual site inspection. Historically, this site drains in all directions with a large hill in the southern half of the site and an existing temporary detention facility located at the northern end. There is a large roadside ditch adjacent to Marksheffel Road that routes off-site runoff to the existing 24" CMP storm culvert under Marksheffel Road. There are no stream crossings located within the project area.

2.3 ADJACENT AREAS

The site is bound on the west by Antelope Ridge Dr., on the north by the Chateau at Antelope Ridge subdivision, on the east by Marksheffel Rd., and on the south by N. Carefree Cir. All of the construction activities are to take place on the site. The surrounding areas should not be affected by the land disturbing and stabilization activities.

2.4 SOILS

From the Natural Resources Conservation Service (NRCS), the soils on the site as mapped by the Soil Conservation Service (SCS) are of the Truckton sandy loam, which is a hydrologic soil group A soil. This soil has an erosion K factor of 0.28, which indicates that it has a moderate erosion potential. Hydrologic Soil Group A soils have a high infiltration rate when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission. Potential effects of soil erosion include compaction, loss of soil structure, nutrient degradation, soil salinity and increased sediment load downstream.

2.5 AREAS AND VOLUME STATEMENT

The project site consists of approximately 52.07 acres. Unadjusted overlot earthwork volumes within the construction site are approximately 150,000 CY of cut to fill.

2.6 CONTROLS AND MEASURES DURING CONSTRUCTION

Stabilization activities are anticipated to begin in the fall/winter of 2020. A construction schedule will be prepared by the contractor prior to land disturbing activities. Installation of stabilization measures will be completed in one phase. The general sequence of major construction activities is as follows:

- <u>Temporary Erosion Control Measures</u> Temporary erosion control measures, such as silt fence and construction of vehicle tracking pads and staging area will be completed prior to any other large scale activity. The vehicle tracking pad will ensure a reduction of tracking of soil on and off the construction site. The staging area will house the materials, petroleum product storage (if any), trash dumpster, sanitary facilities and hazardous spill clean-up areas. These are all potential pollutants that are not sediment related.
- <u>Trash and Debris Removal</u> Existing trash and debris shall be removed from the site and hauled to designated receiving facility.
- 3. <u>Site Clearing</u> The area to be disturbed for construction will be cleared and grubbed, as necessary to the perimeter of erosion control. The sequence of the areas to be cleared and grubbed are subject to the contractor's means and methods of construction of the site; however, the general plan is to work towards where the vehicle tracking pads are located in order to eliminate backtracking over areas that have already been completed.
- 4. <u>Overlot Grading</u> Overlot grading will occur to bring the site to the proposed sub–grade elevations in paved areas, and to finished grade elevations in the

landscape and detention areas. Spoils from the site will be removed from the site and hauled to a designated receiving facility or location.

- <u>Utility Installation</u> Utility installation will consist of water, sanitary sewer, electric, and telephone and natural gas service lines. Storm drain lines will also be installed. Utility locations will be obtained prior to commencement of construction activities.
- <u>Final Grading</u> The site will be brought to final elevations with the installation of the proposed paving and final blending to existing grades on the perimeter of the improvement area.
- 7. <u>Permanent Re-vegetation</u> Erosion control blanket will be installed at all areas graded to a 3:1 slope and greater. Areas not paved will be re-vegetated and/or landscaped by the contractor or owner on an as-needed basis. Vegetation and stabilization of soil will aid in the trapping of sediment and reducing soil erosion.
- <u>Removal of Temporary BMP's</u> Temporary erosion control measures may be removed once the site has achieved final 70 percent of pre disturbance levels and vegetation cover is capable of reducing soil erosion. All permanent BMPs shall be cleaned and functioning before any temporary BMPs are removed.
- 9. <u>Housekeeping</u> The best BMP for a job site is good housekeeping around the site. Routine site trash pickup and routine BMP inspection and maintenance are paramount for keeping a job site clean and tidy. All petroleum storage areas in the staging area should be checked daily for leaks. Any leaks shall be reported to the site foreman for clean up. All personnel on site for both the contractor and subcontractors should be briefed on spill cleanup and containment procedures. Employees shall also be briefed as to where the spill cleanup materials can be found if a spill should occur. The spill plan shall be produced by the general contractor for the project and remain onsite for the duration of the project. Contractor shall coordinate with the County to obtain the necessary contacts in the case that a spill occurs.

This project does not rely on control measures owned or operated by another entity.

2.7 POTENTIAL POLLUTION SOURCES

Any substances with the potential to contaminate either the ground or ground surface water shall be cleanup up immediately following discovery, or contained until appropriate cleanup methods can be employed. Manufacturer's recommended methods for cleanup shall be followed, along with proper disposal methods. All waste and debris created by construction at the site or removed from the site shall be disposed of in accordance with all laws, regulations and ordinances of the Federal, State and local agencies. The following is a summary of potential pollution sources and their associated measures intended to minimize the risk of pollution for this project.

- 1) Disturbed and stored soils: Straw waddles/fiber rolls, straw bale check dams and gravel bag check dams.
- 2) Vehicle tracking and sediments: VTC and Street Sweeping
- 3) Vehicle and equipment maintenance and fueling: Spill prevention procedures.
- 4) Dust or particulate generation from earthmoving activities and vehicle movement: water trucks for site watering.
- 5) On site waste management of solid wastes (construction debris): Waste container placement, covering and disposal.
- 6) Worker trash and portable toilets: Container placement, covering and disposal.
- 7) Equipment repair or maintenance beyond normal fueling operations: Spill prevention procedures.

The following items are not anticipated to be potential pollution sources for this project:

1) Management of contaminated soils.

- 2) Outdoor storage of fertilizers, chemicals or potentially polluting construction material.
- 3) Dedicated asphalt or concrete batch plants.

2.8 NON-STORMWATER DISCHARGES

Non-stormwater discharges possibly encountered during construction may include: watering down of the site to minimize dust, construction staging area, and excess dirt storage during high winds to minimize wind erosion and water utilized in soil compaction efforts.

2.9 RECEIVING WATER

Runoff generated by the proposed project will be passed to the onsite storm sewer system and detention ponds prior to discharging into the existing storm sewer system that continues to Sand Creek to the south. The Extended Detention Basins will provide for both stormwater detention and water quality for the site.

3.0 SITE MAP

Attached as part of this plan is a Site Map (See Appendix C). The drawing identifies the following:

- 1) Project area boundary
- 2) Area used for staging area
- 3) Location of erosion control facilities or structures (BMP's)
- 4) Boundaries of 100-year floodplains (if applicable)

The following items may not be indicated on the attached drawings, but will be determined by the individual contractors prior to and during construction activities:

- 1) Areas used for storage of construction materials, soils, or wastes
- Location of portable toilets and waste receptacles (required to be a minimum of 50 feet from state waters. They shall be adequately

staked and cleaned on a weekly basis. They will be inspected daily for spills).

 Location of additional BMP's that may become necessary as work progresses

These items shall be added to the Site Map by the Contractor.

4.0 BMP's FOR STORMWATER POLLUTION PREVENTION

Best management practices (BMPs) used throughout the site shall include: surface roughening, silt fence, inlet protection, vehicle tracking control, temporary sediment basins, straw bale check dams, mulching and reseeding and concrete washout.

4.1 EROSION CONTROL – STRUCTURAL PRACTICES

A list of the Structural BMP's for erosion and sediment control implemented on the site to minimize erosion and sediment are as follows. Refer to the SWMP Drawings for installation and maintenance requirements and location for each structural BMP.

- a) Concrete Washout Area (CWA): A shallow excavation with a small perimeter berm to isolate concrete truck washout operations.
- b) Erosion Control Blanket (ECB): Slopes steeper than or equal to 3 (horizontal) to 1 (vertical) shall be protected with an erosion control blanket.
- c) Inlet Protection (IP): Installed to filter stormwater before entering any watercourses.
- d) Temporary Sediment Basin (TSB): An impoundment that captures sediment laden runoff and releases it slowly, providing prolonged settling times to capture coarse and fine grained soil particles.
- e) Straw Bale Check Dams (CD): Consists of straw bales designed to form a semi-porous filter able to withstand overstopping.
- f) Seeding and Mulching (SM): Temporary seeding and mulching can be used to stabilize disturbed areas that will be inactive for an extended period of time. Permanent seeding should be used to stabilize areas at final grade that will not otherwise be stabilized.

- g) Silt Fence (SF): A temporary sediment barrier constructed of woven fabric stretched across supporting posts.
- h) Stabilized Staging Area (SSA): Consists of stripping the topsoil and spreading a layer of granular material in the area to be used for a trailer, parking, storage, unloading and loading.
- Temporary Stockpile Areas (SP): Temporary stockpiles of excess excavated material and stockpiles for imported materials. Slopes shall not be steeper than 3 to 1.
- j) Vehicle Tracking Control (VTC): Consists of a rock pad that is intended to help strip mud from tires prior to vehicles leaving the construction site. Installed at all entrance/exit points to the site. The number of access points shall be minimized.
- k) Full-spectrum Extended Detention Basin: There are to be 2 EDB's on site, one on the north end and one in the southeast corner of the site. Each are designed to capture the flows produced by a rainfall event, then provide water quality before slowly releasing the flows back into the existing storm sewer system.

Minimal clearing and grubbing may be necessary prior to installing the initial erosion control features.

No clearing, grading, excavation, filling or other land disturbing activities shall be permitted until signoff and acceptance of the Grading and Erosion Control Plan is received from the County.

Once signoff and acceptance is received the approved erosion and sediment control measures must be installed before land-disturbing activities are initiated so that no adverse effect of site alteration will impact surrounding property.

4.2 EROSION CONTROL – NON-STRUCTURAL PRACTICES

Non-structural practices for erosion and sediment control to be used to minimize erosion and sediment transport are:

- a) Seeding and mulching and landscape installation in areas that will not be hard surfaced, while minimizing the amount of vegetation to be removed during construction, leaving native vegetation in place when possible.
- b) Street sweeping around the construction site will be utilized when tracking of mud occurs on paved streets. The sweeping will be required after any significant tracking has occurred; significant meaning any visible amount that cannot be completely cleaned by hand. The adjacent offsite paved drive surfaces will be cleaned at the end of each day of construction activities. Sweeping efforts will continue as necessary until construction operations are completed.

4.3 MATERIALS HANDLING & SPILL PREVENTION

The SWMP administrator will inspect daily to ensure proper use and disposal of materials on site including building materials, paints, solvents, fertilizers, chemicals, waste materials and equipment maintenance or fueling procedures. All materials stored onsite will be stored in a neat and orderly manner in the original containers with the original manufacturer's label, and if possible under a roof or other enclosure to prevent contact with stormwater. Chemicals should be stored within berms or other secondary containment devices to prevent leaks and spills from contacting stormwater runoff. Before disposing of the container, all of a product will be used up whenever possible and manufacturer's recommendations for proper disposal will be followed according to state and local regulations.

Material and equipment necessary for spill cleanup will be kept in the material storage are on site. Manufacturer's recommendations for spill cleanup will be posted and site personnel will be made aware of the procedures along with the location of the information and cleanup supplies.

The contractor shall have spill prevention and response procedures that include the following:

a) Notification procedures to be used in the event of an accident. At the very least, the SWMP administrator should be notified. Depending on the nature of the spill and the material involved, the Colorado Department of Public Health

and Environment (24-hour spill reporting line (877) 518-5608), downstream water users or other agencies may also need to be informed.

- b) Instructions for clean up procedures and identification of spill kit location(s).
- c) Provisions for absorbents to be made available for use in fuel areas and for containers to be available for used absorbents.
- d) Procedures for properly washing out concrete truck chutes and other equipment in a manner and location so that the materials and wash water cannot discharge from the site and never into a storm drain system or stream.

4.4 DEDICATED CONCRETE OR ASPHALT BATCH PLANTS

No dedicated concrete or asphalt batch plants will be used.

4.5 GROUNDWATER & STORMWATER DEWATERING

In the event that groundwater is encountered or stormwater enters an excavation and dewatering is necessary, a separate CDPHE construction discharge (dewatering) permit will be required for groundwater dewatering and shall be obtained by the SWMP administrator. During groundwater or stormwater dewatering, locations and practices to be implemented to control stormwater pollution from excavations, etc., must be noted on the SWMP. Construction dewatering cannot be discharged to surface water or to storm sewer systems without separate permit coverage. The discharge of Construction Dewatering water to the ground, under specific conditions, may be allowed by the Stormwater Construction Permit when appropriate BMP's are implemented. Refer to USDCM Volume III (UDFCD) for County acceptable means of dewatering.

5.0 TIMING SCHEDULE

The project is anticipated to begin construction in the fall/winter of 2020 and be completed by summer of 2021. The contractor shall be responsible for producing a schedule that will show at a minimum: start and completion times including site grading operations, utility construction and the removal of the temporary erosion and sediment control measures.

6.0 FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT

Final stabilization shall not be considered complete until 70% of new vegetated cover is established on areas not to be hard-surfaced. Temporary sediment and erosion control measures listed in Section 4.0 installed prior to the construction phase will remain in place until this time. Any sediment that collects within the site's drainage system is considered unstabilized soil and must be removed prior to the site being considered finally stabilized.

At final stabilization, stormwater pollutants will be controlled by on site landscaping and by the detention and water quality facilities located at the north end of the site and southeast corner.

7.0 INSPECTION AND MAINTENANCE

A site inspection of all erosion control facilities will be conducted by the Qualified Stormwater Manager every 14 days and within 24 hours after every precipitation event or snowmelt event that causes surface erosion. The entrance to the construction site shall be inspected daily and existing street cleaned, as necessary, of all materials tracked out of the site.

The construction site perimeter, disturbed areas, and areas used for material storage that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWMP shall be observed to ensure that they are operating correctly.

All temporary and permanent erosion and sediment control facilities shall be maintained and repaired per manufacturer's specifications to assure continued performance of their intended function. Repairs should be completed within 24 to 48 hours. Silt fences may require periodic replacement.

Based on the results of the inspection, the description of potential pollutant sources and the pollution prevention and control measures that are identified in this plan shall be revised and modified as appropriate as soon as practicable after such inspection. Modification to control measures shall be implemented in a timely manner, but in no case more than seven (7) calendar days after the inspection. The Qualified Stormwater Manager shall be responsible for documenting inspections, maintaining records and signing the inspection logs. Uncontrolled releases of mud or muddy water or measurable quantities of sediment found off the site shall be recorded with a brief explanation as to the measures taken to prevent future releases as well as any measure taken to clean up the sediment that has left the site. All signed inspection record/logs should be kept on site and made available to the El Paso County or CDPHE personnel upon request. Per ECM Appendix I.5, all inspections will be performed by the Qualified Stormwater Manager. The Qualified Stormwater Manager shall have documentation of their credentials (PE, certified erosion control inspector/specialist, certified in a City-approved inspection training program, etc.), which will be provided and attached to the SWMP once the Qualified Stormwater Manager has been determined.

The inspection logs shall be kept with the SWMP onsite (the exact location is TBD). This document is to be viewed as a "living document" and shall be updated regularly and kept currently accurate. It is to be revised and maintained in order to evaluate and manage the ongoing stormwater quality issues at the site. The Qualified Stormwater Manager shall amend the SWMP when there is a change in design, construction, operation or maintenance of the site which would require the implementation of new or revised BMPs or if this document proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity of when BMPs are no longer necessary and are removed

8.0 REFERENCES

- [1] <u>General Permit Application and Stormwater Management Plan Preparation Guidance</u> <u>for Stormwater Discharges Associated with Construction Activities</u>. Prepared by the Colorado Department of Health, Water Quality Control Division. Revised 7/2009.
- [2] <u>City of Colorado Springs</u>– Drainage Criteria Manual, Volume 2 "Stormwater Quality Procedures and Best Management Practices (BMPs). November 1, 2002, amended August 10, 2010.
- [3] NRCS Web Soil Survey, <u>www.websoilsurvey.nrcs.usda.gov</u>

<u>APPENDIX</u>







Natural Resources **Conservation Service**

Web Soil Survey National Cooperative Soil Survey



Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
97	Truckton sandy loam, 3 to 9 percent slopes	A	56.4	100.0%
Totals for Area of Interest			56.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified

USDA

WINDERMERE EROSION CONTROL AND STORMWATER QUALITY PL E 1/2 OF SECTION 29, T13S, R65W OF THE 6TH P.M. EL PASO COUNTY, COLORADO





SHEET IND



NOTES

- IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONS 2 YEARS FROM THE DATE SIGNED BY THE EL PASO CC YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FO COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.
- AT LEAST 10 DAYS PRIOR TO THE ANTICIPATED STASR THE OWNER OR OPERATOR OF THE CONSTRUCTION ACT TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AI CONTAINS CERTIFICATION OF COMPLETION OF A STORM CONTROL PLAN MAY BE A PART. FOR INFORMATION C
- COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVI WATER QUALITY CONTROL DIVISION
- WQCD-PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

DESIGN ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARE SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO CRITE GRADING AND EROSION CONTROL PLANS AND SPECIFICATION APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSF FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACI AND BELIER. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY C PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIO

TIM D. MCCONNELL P.E.# 33797

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REVIEW EN THE STORMWATER I REQUEST.

REVIEW ENGINEER

AGENCY CONTACTS

<u>COUNTY</u>	EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT KARI PARSONS, PROJECT MANACER/PLANNER II 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-6300	ELECTRIC	MOUNTAIN VIEW ELECTRIC ASSOCIATION LES ULFERS 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495-2283
<u>FIRE</u>	CIMARRON HILLS FIRE DEPARTMENT STEVE CONNER, FIRE CHIEF 1835 TUSKEGEE PL COLORADO SPRINGS, CO 80915 (719)591-0960	<u>GAS</u>	COLORADO SPRINGS UTILITIES TODD STURTEVANT 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO 80947 (719) 668-3556
<u>WATER</u>	CHEROKEE METROPOLITAN DISTRICT JONATHON SMITH, SUPERINTENDENT OF WATER & WASTEWATER 6250 PALMER PARK BL/D COLORADO SPRINGS, CO 80915 (719) 597-5080	TELEPHONE	CENTURY LINK PATTY MOORE (719) 636–6096 (LOCATORS) (719) 597–8418 AT&T (LOCATORS) (719) 635–3674
<u>WASTEWATER</u>	CHEROKEE METROPOLITAN DISTRICT JONATHON SMITH, SUPERINTENDENT OF WATER & WASTEWATER 6250 PALMER PARK BLVD COLORADO SPRINGS, CO 80915 (719) 597–5080	CABLE	COMCAST DALE STEWART 213 N. UNION BLVD COLORADO SPRINGS, CO 80909 (719) 442-4733

ESTIMATED COST OF TEMPORARY & PERMANENT BMPs INCLUDING INSTALLATION

AND MAINTENANCE UNTIL FINAL STABILIZATION (FINAL & INTERIM STAGE) Unit (with Pre-Plat Construction) Units Cost Total Quantity % Complete Remaining Descriptio SECTION 1 - GRADING AND EROSION ent BMPs Earthwork less than 1,000; \$5,300 min CY 8.00 = 1,000-5,000; \$8,000 min CY 6.00 = \$ \$ 5.001-20.000: \$30.000 min CY S 5.00 = \$ 20.001-50.000: \$100.000 min CY 3.50 = \$ S 50,001-200,000; \$175,000 min 140,000 CY 2.50 = \$ 350,000.00 350,000.00 greater than 200,000; \$500,000 min 2.00 = \$ ermanent Seeding (inc. noxious weed mgmnt.) AC 800.00 = 9 * Mulching AC 750.00 = \$ \$ * Permanent Erosion Control Blanket SY 6.00 =\$ Permanent Pond/BMP Construction CY 20.00 = \$ * Permanent Pond/BMP (Spillway) EA = \$ Permanent Pond/BMP (Outlet Structure) EA = \$ Safety Fence LF 3.00 = \$ 3.00 = \$ Temporary Erosion Control Blanke SY Vehicle Tracking Control EA \$ 2,370.00 = \$ 4 740 00 4 740 00 10.487.50 10.487.50 Silt Fence 4,195 LE 2.50 = \$ 52 AC 628.00 = \$ 32,656.00 32,656.00 Temporary Seedin \$ Temporary Mulch 52 AC 750.00 = \$ 39,000.00 39,000.00 75 EA 25.00 1,875.00 1,875.00 Erosion Bales Erosion Logs/Straw Waddle 5.00 = \$ Rock Check Dams EA 500.00 = 9 501.00 Inlet Protection EA 167.00 = \$ 501.00 \$ 1.762.00 =\$ 5.286.00 5.286.00 Sediment Basin EA S 900.00 900.00 EA S 900.00 = \$ Concrete Washout Basin 1 [insert items not listed but part of construction plans] MAINTENANCE (35% of Construction BMPs) = \$ 33,405.93 33,405.93 -Subject to defect w arranty financial assurance. A minimum of 20% be retained until final acceptance (MAXIMUM OF 80% COMPLETE \$ 478,851,43 Section 1 Subtotal = \$478,851,43

STRUCTURAL FILL

DURING EARTHWORK BALANCING ACROSS THE SITE, AREAS TO RECEIVE STRUCTURAL FILL SHOULD HAVE TOPSOIL, ORGANIC MATERIAL, OR DEBRIS REMOVED. LOOSE, WET SOILS, ESPECIALLY THOSE FROM NOTED DRAINAGE AREAS, SHOULD BE EXCAVATED TO DRY SOLID MATERIAL, STOCKPILED AND EVALUATED FOR SUITABILITY OF RE-USE AS STRUCTURAL FILL IF SOIL IS FOUND TO BE UNSUITABLE AS STRUCTURAL FILL, IT MAY STILL BE SUITABLE AS BACKFILL IN NON-STRUCTURAL APPLICATIONS.

STRUCTURAL FILL COMPOSED OF ON-SITE SOILS SHOULD CONSIST OF GRANULAR, NIL TO LOW-EXPANSIVE MATERIAL. IF CLAYSTONE IS ELECTED TO BE RE-USED IT SHOULD BE THOROUGHLY PROCESSED, MOISTURE CONDITIONED AND BLENDED WITH SAND SOIL. FILL SHOULD BE SPREAD ACROSS THE SITE AND PLACED IN EVEN LOOSE LIFTS NOT EXCEEDING 10-INCHES, MOISTURE CONDITIONED TO FACILITATE COMPACTION (USUALLY WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT), AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROTOR TEST, ASTM D-698. THE MATERIALS SHOULD BE SPREAD AND COMPACTED BY MECHANICAL MEANS.

STRUCTURAL FILL PLACED ON SLOPES SHOULD BE BENCHED INTO THE SLOPE. MAXIMUM BENCH HEIGHTS SHOULD NOT EXCEED 4 FEET, AND BENCH WIDTHS SHOULD BE WIDE ENDUCH TO ACCOMMODATE COMPACTION EQUIPMENT. MATERIALS USED FOR STRUCTURAL FILL SHOULD BE APPROVED BY RMG PRIOR TO USE. STRUCTURAL FILL SHOULD NOT BE PLACED ON FROZEN SUBGRADE OR ALLOWED TO FREEZE DURING MOISTURE CONDITIONING AND PLACEMENT.

BENCHMARK Elevations are based on colorado springs utilities facilities information system (fims), a 2" aluminum cap stamped "blt100" in se CORNER OF CATCH BASIN ON EAST SIDE OF ANTELOPE RIDGE DRIVE 1500'± NORTH OF NORTH CAREFREE CIR., WITH AN ELEVATION OF 6607.03 (NGVD 29).

LEGAL DESCRIPTION THE EAST HALF OF SECTION 29, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL #08041C0543 G (DECEMBER 7, 2018) THE PROJECT SITE IS WITHIN A DESIGNATED ZONE X AREA DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN" TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: FALL/WINTER 2020-SUMMER 2021

 \underline{AREAS} total area of the site to be cleared, excavated or graded: approximately 54.9 acres

RECEIVING WATERS

SOILS Hydrologic type A: Truckton Sandy Loam

VEGETATION

EXISTING SITE IS UNDEVELOPED AND COVERED WITH NATIVE GRASSES





	7 PLAN		DREXEL, BARR Engineers SI 3 SOUTH 7TH COURADO SPESC. CONTACT: TIM D. Mc (719260-00 BOULDER • COLORADO SPESC. CLIEN	D BY: AELL & CO. UTVeyors STREET LORADO 80905 CONNELL, P.E. 187 Rinkos • GREELEY T:
	SHEET INDEX CO1 COVER SHEET CO2 NOTES CO3 EROSION CONTROL AND STORMWATER QU CO4 EROSION CONTROL DETAILS CO5 EROSION CONTROL DETAILS CO6 EROSION CONTROL DETAILS	IALITY PLAN	4164 AUSTIN BLUFF: COLORADO SPRING: (719) 200- CONTACT: JAMES TO	5 PKWY. #361 5, CO 80918 9594 DDD STEVENS
	1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID THE EL PASO COUNTY ENCINEER. IF CONSTRUCTION H RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF S DISCRETION. UTICIPATED STASRT OF CNSTRUCTION, FOR PROJECTS T NONSTRUCTION ACTIVITY SHALL SUBMIT A PERUIT PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CO INON OF A STORMWATER MANAGEMENT PLAN (SWMP), O INON OF A STORMWATER MANAGEMENT PLAN CONTACT AND ENVIRONMENT MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS, AND SAID PLANS AND PLANS AND SAID PLANS AND SAID PLANS AND SAID PLANS AND ARE CORRI R ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERF AND SPECIFICATIONS.	FOR CONSTRUCTION FOR A PERIOD OF AS NOT STARTED WITHIN THOSE 2 REVIEW FEES AT THE PLANNING AND HAT WILL DISTURB 1 ACRE OR MORE, AITION FOR STORMWATER DISCHARCE NITROL DIVISION. THE APPLICATION F WHICH THIS GRADING AND EROSION WISION. SAID PLANS AND OR THE DETAILED ROADWAY, DRAINAGE, ONS ARE IN CONFORMITY WITH SPECIFICATIONS MEET THE PURPOSES ECT TO THE BEST OF MY KNOWLEDGE RORS OR OMISSIONS ON MY PART IN	WINDERMERE PRELIMINARY PLAN	N. MARKSHEFFEL ROAD EL PASO COUNTY, COLORADO
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EVIEW ENGINEER DATE	HE STORMWATER MANAGEMENT PLAN WAS REVIEWED AN EQUIREMENTS EXCEPT WHERE OTHERWISE NOTED OR AL EQUEST.	ID FOUND TO MEET THE CHECKLIST LOWED BY AN APPROVED DEVIATION		01
•	EVIEW ENGINEER	DATE		

STANDARD NOTES FOR EL PAS CONTROL PLANS

- STORMWATER DISCHARGES FROM CONSTRUCTION SITE CONTAMINATION, OR DEGRADATION OF STATE WATERS. THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFI
- 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLA CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE REQUIREMENTS OF THE MOST RECENT VERSION OF TH LAND DEVELOPMENT CODE, THE UNIVERSION CERTERI CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REC WRITING
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP STORMWATER QUALITY CONTROL PERMIT (ESOCP) ISS SWMP IS THE RESPONSIBILITY OF THE DESIGNATED S CONSTRUCTION AND SHALL BE KEPT UP TO DATE WI
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO STAGE EROSION AND SEDIMENT CONTROL MEASURES BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASC RESPONSIBILITY OF THE APPLICANT TO COORDINATE
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO STORMWATER. TEMPORARY SEDIMENT AND EROSION DISTURBED LAND AREA SHALL BE COMPLETED IMMED
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL CONDITION UNTIL PERMANENT SOIL EROSION CONTR CONDITION UNITE PERMANENT SOIL EROSION CONTRO ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIV AND IDENTIFY IF CHANGES TO THOSE CONTROL MEAS OF THE CONTROL MEASURES. ALL CHANGES TO TEM INCORPORATED INTO THE STORMWATER MANAGEMENT
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED (CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED IS GOING TO REMAIN IN AN INTERIM STATE FOR MOR
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMP COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCE PERMANENT ALTERNATIVE STABILIZATION METHOD IS IN MEASURES SHALL BE REMOVED UPON FINAL STABILIZ
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIE: PROPOSED CHANGES THAT EFFECT THE HYDROLOGY (STRUCTURES MUST BE APPROVED BY THE ECM ADMII
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN EROSION AND RESULTING SEDIMENTATION. ALL DISTUR THE EXPOSED AREA OF ANY DISTURBED LAND SHALL PRE-EXISTING VEGETATION SHALL BE PROTECTED AND UNLESS INFEASIBLE.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREA: STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COV PROTECTED FROM SEDIMENTATION DURING CONSTRUCT
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED THROUGH, OR FROM THE EARTH DISTURBANCE AREA AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAINED AND I BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STA SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL N PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER
- 14. DEWATERING OPERATIONS: UNCONTAMINATED GROUND THE FORM OF SURFACE RUNOFF.
- 15. EROSION CONTROL BLANKETING IS TO BE USED ON
- 16. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER W . BOILDING, CUIVER VIEW EXCAVATION, OR OTHER W THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLES: MAY BE REQUIRED BY EL PASO COUNTY ENGINEERIN CIRCUMSTANCES.
- 17. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DE BE CLEANED UP AND PROPERLY DISPOSED OF IMMEI
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMO ACCORDANCE WITH LOCAL AND STATE REGULATORY R MATERIAL WASTES OR UNUSED BUILDING MATERIALS S
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMW/
- 20. THE QUANTITY OF MATERIALS STORED ON THE PROJE REQUIRED TO PERFORM THE WORK IN AN ORDERLY S NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAIN
- 21. NO CHEMICALS ARE TO BE USED BY THE CONTRACTO UNLESS PERMISSION FOR THE USE OF A SPECIFIC C GRANTING THE USE OF SUCH CHEMICALS, SPECIAL C
- 22. BULK STORAGE OF PETROLEUM PRODUCTS OR OTHEF SECONDARY CONTAINMENT PROTECTION TO CONTAIN A WATERS, INCLUDING ANY SURFACE OR SUBSURFACE S
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STOP THE DITCH FLOW LINE.
- 24. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WU "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OB FLOODPLIN, 404, FUGTIVE DUST, ETC.). IN THE EVE REGULATIONS OF OTHER FEDERAL, STATE, OR COUNT SUMI ADDIVIDED THE FEDERAL STATE, OR COUNT SUMI ADDIVIDED THE FEDERAL STATE, OR COUNT SUMI ADDIVIDED THE FEDERAL STATE, OR COUNT SUMI ADDIVIDED THE STATE STATE, OR COUNT SHALL APPLY.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE
- 26. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SH
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DUR DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPA THESE PLANS.
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATEL OR MORE, THE OWNER OR OPERATOR OF CONSTRUCT DISCHARGE TO THE COLORADO DEPARTMENT OF PUBL APPLICATION CONTAINS CERTIFICATION OF COMPLETION GRADING AND EROSION CONTROL PLAN MAY BE A PA
- COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENV WATER QUALITY CONTROL DIVISION WOCD -PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

<u>so county grading and erosion</u>	\frown	
ES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, . ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER F-SITE WATERS, INCLUDING WETLANDS.	DREXEL, BARR	ELL & CO
ANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND E AND EROSION CONITOL SHALL CONFORM TO THE STANDARDS AND THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE IA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE GULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN	Engineers • Su 3 SOUTH 7TH S COLORADO SPGS, CO CONTACT: TIM D. Met (719)260-08 BOULDEE • COLORADO SP	Irveyors STREET LORADO 8090 CONNELL, P.H 87 RINGS • CREELES
P) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND JUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES DURING ITH WORK PROGRESS AND CHANCES IN THE FIELD.	CLIEN	T:
PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING O COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE THE MEETING TIME AND PLACE WITH COUNTY STAFF.		
COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY JATELY UPON COMPLETION OF THE DISTURBANCE.	4164 AUSTIN BLUFFS COLORADO SPRINGS	5 PKWY. #36 5, CO 80918
MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING L MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. MITES SHALL ASSESS THE ADEOUACY OF CONTROL MEASURES AT THE SITE SURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE MPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE PLAN PRIOR TO IMPLEMENTATION.	(719) 200-5 CONTACT: JAMES TO	9594 DDD STEVENS
ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT RE THAN 60 DAYS SHALL ALSO BE STABILIZED.		
APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED PLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE ENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT MPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL ZATION AND BEFORE PERMIT CLOSURE.	AN	ADO RADO
ES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT INISTRATOR PRIOR TO IMPLEMENTATION.	PL	- ROA
SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL RBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT L BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. D MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE,	ERMI ARY	HEFFEL JNTY,
S DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL VER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE TTION UNTIL FINAL STABILIZATION IS ACHIEVED.	MIN	IARKS 0 COL
AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION		N. PAS
DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL ATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE R BODY.	PRI	Ц
WATER MAY BE DISCHARGED ON SITE BUT MAY NOT LEAVE THE SITE IN		
WATER MAT DE DISCHARGED ON STE, DOT MAT NOT LEAVE THE STE IN		
NATER MAT BE DISCHARGED ON SHE, BUT MAT NOT LEAVE THE SHE IN SLOPES STEEPER THAN 3:1.		
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S G IF DEEMED NECESSARY, BASED ON SPECIFIC CONTINOL PLAN. BMP'S		DATE
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S G IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EERIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY.	ISSUE INITIAL ISSUE LATEST ISSUE	DATE 2/21/19 9/15/20
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S G IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EERIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN DECOUREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.	ISSUE INITIAL ISSUE LATEST ISSUE	DATE 2/21/19 9/15/20
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SLOPES STEEPER THAN 3:1. SLOPES STEEPER THAN 3:1. MASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S IG IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR MATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NERS, WITH ORIGINAL MANUFACTURER'S LABELS.	ISSUE INITIAL ISSUE LATEST ISSUE	DATE 2/21/19 9/15/20
SLOPES STEEPER THAN 3:1. SLOPES STEEPER THAN 3:1. MASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S IG IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR MATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NERS, WITH ORIGINAL MANUFACTURER'S LABELS. TOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS GRANTED IN WRITING BY THE ECCM ADMINISTRATOR. IN SONDITIONS AND MONITORING MAY BE REQUIRED.	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2115	DATE 2/21/19 9/15/20
SLOPES STEEPER THAN 3:1. SLOPES STEEPER THAN 3:1. MATER WATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S IG IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIVIDUTELY. DIVIDUTELY. DIVIDUTELY. IDIVIDUTELY. IDIVIDUTELY. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR ATTER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. TOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM MONITORING MAY BE REQUIRED.	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: CHECKED BY: FILE NAME: 211E PREPARED UNDER SUPERVISION FOR BEHALF C DREXEL, BAREL	DATE 2/21/19 9/15/20 SBN SBN TDM 37-01ECC 2AND ON FL & AND ON
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN SID ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S G IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DUATELY. OVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURED, DUMPED, OR DISCHARGED AT THE STE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR MATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NERS, WITH ORIGINAL MANUFACTURER'S LABELS. TOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN CONDITIONS AND MONITORING MAY BE REQUIRED. IN LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITIES. RUMATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: OHECKED BY: FILE NAME: 2118 PREPARED UNDER SUPERVISION ALF C DREXEL, BARREL	DATE 2/21/19 9/15/20 SBN SBN TDM 37-01ECCV MY DIRECT 2 AND ON FL & CO.
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN SIN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S G IF DEEMED NECESSARY, BASED ON SPECIFIC CONTIDUS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR ATER APUTPERNANCES AS A RESULT OF SITE DEVLOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. TOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN SONDTIONS AND MONITORING MAY BE REQUIRED. IR LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITIES. RWWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN MATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM BTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (MPDES, ENT OF CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE STORM DRAINAGE SYSTEM THESE DEQUIRED. ATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE ENT OF CONTENCENT THESE REQUIRED. ATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE STATE FLOW IN THE FLOW LINE OF THE CURB AND DUTER OR IN MATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE ENT OF CONTENCENT THESE REQUIRED. STORM DRAINAGE SYSTEM THESE REQUIREDENTS AND LWS, RULES, OR Y AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2116 PREPARED UNDER SUPERVSION FOR BEHALF C DREXEL, BARREL	DATE 2/21/19 9/15/20
SLOPES STEEPER THAN 3:1. INATER WAT BE DISCHARGED ON SITE, BOT WAT NOT LEAVE THE SITE IN SLOPES STEEPER THAN 3:1. INASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN IS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S IG IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR INTER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. IOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER HEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN DONDITONS AND MONTORING MAY BE REQUIRED. IR LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITIES. RUWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN MATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLUDED IN THE DOM VOLUME II AND THE COM ENTIALE BY THE CONTRACTOR RIOR TO CONSTRUCTION (NPDES, ENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR Y AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SITE AT APPROVED CONSTRUCTION ACCESS POINTS.	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2118 FILE NAME: 2118 FILE NAME: 2118 PREPARED UNDER SUPERVISION FOR DREXEL, BARREL	DATE 2/21/19 9/15/20 SBN SBN TDM 37-01ECCV MY DIRECT AND ON DF L & CO.
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SLOPES STEEPER THAN 3:1. INASEE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN SLOPES STEEPER THAN 3:1. MASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN IS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S GIF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DUATELY. OVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR MATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. IOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER HEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN DONDTIONS AND MONTORING MAY BE REQUIRED. IR LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITIES. RIWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN MATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLUDED IN THE DOM VOLUME II AND THE COM ENTIOPS SHOULD CONSTRUCTOR REPORT OC CONSTRUCTION (NPDES, ENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR Y AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SITE AT APPROVED CONSTRUCTION ACCESS POINTS. ALL VERIFY THE LOCATION OF EXISTING UTILITIES. RING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 2118 PREPARED UNDER SUPERVISION FOR DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL	DATE 2/21/19 9/15/20 SBN SBN TDM 37-01ECCV MY DIRECT 3 AND ON DF L & CO.
SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN SLOPES STEEPER THAN 3:1. IASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN S IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S GE IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHAREED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR MATER APPURETRANCES AS A RESULT OF SITE DEVLOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. IOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN ZONDITIONS AND MONITORING MAY BE REQUIRED. IF LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITIES. RUWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN MATER QUALITY CONTROL ACT (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLIDED IN THE DCM VOLUME II AND THE ECM BIAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (MPDES, ENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR Y AGENCIES, THE MORE RESTRUCTION ACCESS POINTS. ALL VERIFY THE LOCATION OF EXISTING UTILITIES. RING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE ARED BY AND SHALL BE CONSIDERED A PART OF	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 211E PREPARED UNDER SUPERVISION FOR SUPERVISION FOR DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL NOTE	DATE 2/21/19 9/15/20
SLOPES STEEPER THAN 3:1. INATER WAT BE DISCHARGED ON SITE, BOT WAT NOT LEAVE THE SITE IN SLOPES STEEPER THAN 3:1. INASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN IS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S IG IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND EBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL DIATELY. IOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. R THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR INTER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. ECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL TO THAT QUANTITY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A VERS, WITH ORIGINAL MANUFACTURER'S LABELS. IOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN DONDITONS AND MONTORING MAY BE REQUIRED. IR LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE ALL SPILLS AND PREVENT ANY SPILED MATERIAL FROM ENTERING STATE STORM DRAINAGE SYSTEM OR FACILITES. RIWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN MATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE THE REQUIREMENTS INCLUDED IN THE DOM VOLUME II AND THE COM ENTINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, ENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR Y AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SITE AT APPROVED CONSTRUCTION ACCESS POINTS. ALL VERIFY THE LOCATION OF EXISTING UTILITIES. RING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE ARED BY AND SHALL BE CONSIDERED A PART OF D START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE TION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER FILO HADE HAD EDVINCHMENT, WATER QUALITY DIVISION. THE	ISSUE INITIAL ISSUE LATEST ISSUE DESIGNED BY: DRAWN BY: CHECKED BY: FILE NAME: 211E PREPARED UNDER SUPERVISION FOR DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL DREXEL, BARREL	DATE 2/21/19 9/15/20 SBN SBN SBN TDM 37-01ECCV MY DIRECT AND ON DF AF CALE: N/A N/A S
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PREPARED BY:





Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

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DRAWING SCALE: HORIZONTAL: N/A VERTICAL: N/A	
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Know what's below. Call before you dig. CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR ECCALVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.	icv ∎



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TACKIFIER

			PREPARE	D BY:
RY SEEDING NO	DTES It growth by applying topsoil,	FERTILIZER OR LIME.	DREXEL, BARR Engineers •St 3 SOUTH 7TH colorado SPGS, CO	CELL & CO. urveyors street lorado 80905
E TILLED IMMEDIATELY PF DOSENED.	RIOR TO APPLYING SEEDS. COMPAC	T SOILS ESPECIALLY	CONTACT: TIM D. Mc (719)260-08 BOULDER • COLORADO SE	CONNELL, P.E. 387 PRINGS • GREELEY
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<u>ig mix</u>				
TION, FERTILIZER, SEE DISTURBED AREAS EX	DING, MULCHING AND MULCH TA XCLUDING THE RIGHT-OF-WAYS SHALL BE LISED:	ACKIFIER WILL BE	ISSUE	DATE 2/21/19
		LBS	LATEST ISSUE	9/15/20
ME TEM V. ELIDA	ANDROPOGON HALLII	PLS/ACRE 2.0		
EATGRASS V. ARRIBA AMA V. VAUGHN VIVA (CARYOPSIS)	PASCOPYRUM SMITHII BOUTELOUA CURTIPENDULA HILARIA JAMESII	7.0 4.0 1.0		
STEM V. PASTURA DREED V. GASHEN	SCHIZACHYRIUM SCOPARIUM CALAMOVILFA LONGIFOLIA	2.0	DESIGNED BY:	SBN
VER VER EFLOWER	GAILLARDIA ARISTATA RATIBIDA COLUMINIFERA	1.0 0.5	DRAWN BY: CHECKED BY:	SBN TDM
-	LINUM LEWISII AVENA SATIVA	1.0 3.0 3.0	FILE NAME: 211	B7-01ECDT
DS/ACRE		28.5	SUPERVISION FOR BEHALF (DREXEL, BARREI	R AND ON DF LL & CO.
27				
69 (P205)				
CATION: DRILL SEED EDER AND SLOPES S BOVE SEED RATE ANI	0.25"—0.5" INTO TOPSOIL. AREA TEEPER THAN 2:1 SHALL BE HA D RAKED AT 1/4 TO 1/2 INTO	A NOT ACCESSIBLE AND BROADCAST AT THE TOPSOIL.	DRAWING S HORIZONTAL: VERTICAL:	CALE: N/A N/A
PLICATION: 1 1/2 TON: CRIMED IN TOPSOIL I	S CERTIFIED WEED FREE NATIVE N COMBINATION WITH AN ORGA	HAY PER ACRE NIC MULCH	EROSI CONTR DETAI	ON ROL LS
			PROJECT NO. 211 DRAWING NO.	87-01CSCV
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BEFORE YOU DIG, GRADE EXCAVATE FOR THE MAR UNDERGROUND MEMBER	;, or iking of utlitt€OUNTY FILE N(D.: SP-19-003	SHEET: 5	OF 6

1. SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL. FERTILIZER OR LIN 2. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIAL NEED TO BE LOOSENED.

3. SEEDBED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1 AND 1 INCH FOR SLO

4. ANNUAL GRASSES LISTED IN THE TABLE BELOW ARE TO BE USED FOR TEMPORARY SEEDING SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADI THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAF

5. THE TABLE BELOW ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.

6. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.

8. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

INSTALLATION REQUIREMENTS 1. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED-AND SEED-FREE LONG STEMM FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.

2. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FI CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL.

3. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.

4. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES) OR WITH A TACKIFIER. 5. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.

2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND

SOIL PREPARATION, FERTILIZER, SEEDING, MULCHING AND MULCH TACKIFIER WILL BI REQUIRED FOR DISTURBED AREAS EXCLUDING THE RIGHT-OF-WAYS.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

	SCIENTIFIC NAME	LBS PLS/ACRE
ELIDA SS V. ARRIBA VAUGHN RYOPSIS) PASTURA . GASHEN BR 28	ANDROPOGON HALLII PASCOPYRUM SMITHII BOUTELOUA CURTIPENDULA HILARIA JAMESII SCHIZACHYRIUM SCOPARIUM CALAMOVIEFA LONGIPOLIA PANICUM VIRGATUM GAILLARDIA ARISTATA RATIBIDA COLUMINIFERA LINUM LEWSII AVENA SATIVA TRITICUM AESTIVUM	2.0 7.0 4.0 1.0 2.0 1.0 1.0 0.5 1.0 3.0 3.0
-		28.5

RATE	PER	ACRE
	27 69	

SEEDING APPLICATION: DRILL SEED $0.25^{\prime\prime}-0.5^{\prime\prime}$ INTO TOPSOIL. AREA NOT ACCESSIE TO A DRILL SEEDER AND SLOPES STEEPER THAN 2:1 SHALL BE HAND BROADCAST DOUBLE THE ABOVE SEED RATE AND RAKED AT 1/4 TO 1/2 INTO THE TOPSOIL.

MULCHING APPLICATION: 1 1/2 TONS CERTIFIED WEED FREE NATIVE HAY PER ACRE MECHANICALLY CRIMED IN TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH

what's below.	
all before you dig.	
BUSINESS DAYS IN ADVANCE YOU DIG, GRADE, OR E FOR THE MARKING OF	_



	PREPARED BY:	
	DREXEL, BARRELL & CO Engineers •Surveyors 3 SOUTH 7TH STREET COLORADO SPGS, COLORADO 8090 CONTACT ITM D. McCONNELL, P.E (719)260-0887 BOULDER • COLORADO SPRINGS • GREELEN CLIENT:	1. 05 3. Y
	4164 AUSTIN BLUFFS PKWY, #36 COLORADO SPRINGS, CO 80918 (719) 200-9594 CONTACT: JAMES TODD STEVENS	51
	WINDERMERE PRELIMINARY PLAN n. marksheffel road el paso county, colorado	
	ISSUE DATE	
	INITIAL ISSUE 2/21/19 LATEST ISSUE 9/15/20	
		_
	DESIGNED BY: SBN	
	CHECKED BY: TDM	_
	PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.	
	<u>DRAWING SCALE:</u> HORIZONTAL: N/A VERTICAL: N/A	
	EROSION CONTROL DETAILS	
Know what's below.	PROJECT NO. 21187-01CSCV	,
CALL 2-BUSINESS DAYS IN ADVANCE	DRAWING NO.	
EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.	EC06	
	SHEET 6 OF 6	1



CONSTRUCTION STORMWATER SITE INSPECTION REPORT

Facility Name		Permittee			
Date of Inspection		Weather Conditions			
Permit Certification #		Disturbed Acreage			
Phase of Construction		Inspector Title			
Inspector Name					
Is the above inspector a qualified stormwater manager?				YES	NO
(permittee is responsible for ensuring that the inspector is a qualified stormwater manager)					

INSPECTION FREQUENCY

Check the box that describes the minimum inspection frequency utilized when conducting each inspection			
At least one inspection every 7 calendar days			
At least one inspection every 14 calendar days, with post-storm event inspections conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface erosions			
 This is this a post-storm event inspection. Event Date: 			
Reduced inspection frequency - Include site conditions that warrant reduced inspection frequency			
 Post-storm inspections at temporarily idle sites 			
 Inspections at completed sites/area 			
Winter conditions exclusion			
Have there been any deviations from the minimum inspection schedule?	YES NO		
If yes, describe below.			

INSPECTION REQUIREMENTS*

 Visually verify all implemented control measures are in effective operational condition and are working as designed in the specifications

ii. Determine if there are new potential sources of pollutants

iii. Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges

iv. Identify all areas of non-compliance with the permit requirements, and if necessary, implement corrective action *Use the attached **Control Measures Requiring Routine Maintenance** and **Inadequate Control Measures Requiring**

Corrective Action forms to document results of this assessment that trigger either maintenance or corrective actions

AREAS TO BE INSPECTED

Is there evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system or discharging to state waters at the following locations?

	NO	YES	If "YES" describe discharge or potential for discharge below. Document related maintenance, inadequate control measures and corrective actions Inadequate Control Measures Requiring Corrective Action form
Construction site perimeter			
All disturbed areas			
Designated haul routes			
Material and waste storage areas exposed to precipitation			
Locations where stormwater has the potential to discharge offsite			
Locations where vehicles exit the site			
Other:			

CONTROL MEASURES REQUIRING ROUTINE MAINTENANCE

Definition: Any control measure that is still operating in accordance with its design and the requirements of the permit, but requires maintenance to prevent a breach of the control measure. These items are not subject to the corrective action requirements as specified in Part I.B.1.c of the permit.

Are there control measures requiring maintenance?	NO	YES	
			If "YES" document below

Date Observed	Location	Control Measure	Maintenance Required	Date Completed

INADEQUATE CONTROL MEASURES REQUIRING CORRECTIVE ACTION

Definition: Any control measure that is not designed or implemented in accordance with the requirements of the permit and/or any control measure that is not implemented to operate in accordance with its design. This includes control measures that have not been implemented for pollutant sources. If it is infeasible to install or repair the control measure immediately after discovering the deficiency the reason must be documented and a schedule included to return the control measure to effective operating condition as possible.

Are there inadequate control measures requiring corrective action?	NO	YES	
Are there inadequate control measures requiring corrective action?			If "YES" document below

Are there additional control measures needed that were not in place at the time of inspection?	NO	YES	
Are there additional control measures needed that were not in place at the time of inspection:			If "YES" document below

Date Discovered	Location	Description of Inadequate Control Measure	Description of Corrective Action	Was deficiency corrected when discovered? YES/NO if "NO" provide reason and schedule to correct	Date Corrected

REPORTING REQUIREMENTS

The permittee shall report the following circumstances orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, and shall mail to the division a written report containing the information requested within five (5) working days after becoming aware of the following circumstances. The division may waive the written report required if the oral report has been received within 24 hours.

All Noncompliance Requiring 24-Hour Notification per Part II.L.6 of the Permit
a. Endangerment to Health or the Environment
Circumstances leading to any noncompliance which may endanger health or the environment regardless of the cause of the incident (See Part II.L.6.a
of the Permit)
This category would primarily result from the discharge of pollutants in violation of the permit
b. Numeric Effluent Limit Violations
 Circumstances leading to any unanticipated bypass which exceeds any effluent limitations (See Part II.L.6.b of the Permit)
 Circumstances leading to any upset which causes an exceedance of any effluent limitation (See Part II.L.6.c of the Permit)
• Daily maximum violations (See Part II.1.6.d of the Permit)
Numeric effluent limits are very uncommon in certifications under the COR400000 general permit. This category of noncompliance only applies if
Numeric erriterit minits are very uncommon in certifications under the convocod general permit. This category of honcomphance only appres in

numeric effluent limits are included in a permit certification.

Has there been an incident of noncompliance requiring 24-hour notification?	

NO	YES	
		If "YES" document below

Date and Time of Incident	Location	Description of Noncompliance	Description of Corrective Action	Date and Time of 24 Hour Oral Notification	Date of 5 Day Written Notification *

*Attach copy of 5 day written notification to report. Indicate if written notification was waived, including the name of the division personnel who granted waiver.

After adequate corrective action(s) and maintenance have been taken, or where a report does not identify any incidents requiring corrective action or maintenance, the individual(s) designated as the Qualified Stormwater Manager, shall sign and certify the below statement:

"I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."

Name of Qualified Stormwater Manager	Title of Qualified Stormwater Manager
Signature of Qualified Stormwater Manager	 Date
Notes/Comments	