

ACCEPTED for FILE Engineering Review 03/29/2023 2:42:36 PM Elizabeth Nijkamp, PE EPC Department of Public Works

STORMWATER MANAGEMENT PLAN FOR LATIGO TRAILS FILING NO. 9

Prepared For (Applicant):

BRJM, LLC 101 N. Cascade Avenue, Suite 200 Colorado Springs, CO 80903 (719) 475-7474 Contact: Bob Irwin

Prepared By:

JR Engineering, LLC 5475 Tech Center Drive, Suite 235 Colorado Springs, Colorado 80919 (303) 267-6254 Contact: Bryan Law

Qualified Stormwater Manager:

To Be Determined

Contractor:

To Be Determined

June, 2022

El Paso County PCD File No.: SF2136

ENGINEER OF RECORD:

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

06/16/2022 Bryan Law, P.E. 6-16-2022 Date

Registered Professional Engineer State of Colorado No. 25043 For and on behalf of JR Engineering, LLC.

REVIEW ENGINEER:

The Stormwater Management Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request.

Review Engineer

Date

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1. <u>Applicant / Contact Information</u>

Owner/Developer:	BRJM, LLC Attn: Bob Irwin 101 N. Cascade Avenue, Suite 200 Colorado Springs, CO 80903 (719) 475-7474
Engineer:	JR Engineering, LLC 5475 Tech Center Drive, Suite 235 Colorado Springs, CO 80919 Attn: Bryan Law (303) 267-6254 <u>blaw@jrengineering.com</u>
SWMP Administrator:	To Be Determined
Contractor:	To Be Determined

2. <u>Site Description and Location</u>

The site is located in the southern quarter of Section S17, Township 12 South, Range 64 West of the Sixth Principal Meridian, in the County of El Paso, State of Colorado. Latigo Trails – Filing No. 9 is a 106.62 acre, single family-development and is comprised of 39 lots and associated infrastructure. Lot 1–Lot 39 will be an rural subdivision proposed for RR-2.5 zoning. The site is bounded by existing Latigo Trails – Filing 2 residential subdivision to the north, existing Londonderry Drive to the east, future Meridian Ranch residential subdivision to the south, and private residential parcels 4218000011 and 4218000012 to the west. The nearest street intersection of Buffalo River Trail and Oregon Wagon Trail is located approximately 750 feet northeast of the northeastern corner of the site boundary. See Appendix A for a vicinity map.

Latigo Trails is currently partially undeveloped. The existing ground cover is sparse vegetation and open space. The development of the proposed site will include implementation of BMPs, site grading, utility and storm installation, roadway paving, associated residential site development, and removal of temporary BMPs. Refer to the GEC plans in Appendix C for the phasing of BMPs.

Site details:

- a. Estimated total area to undergo disturbance: 16.87 acres
 - i. Offsite grading for this project: 4.24 acres
- b. Estimated 100-year runoff coefficients:
 - i. Historic: C = 0.36
 - ii. Developed: C = 0.41
- c. Soil Type: Site soils consist of Stapleton sandy loam, 3 to 8 percent slopes and

Columbine gravelly sandy loam, 0 to 3 percent; the soils are classified as Hydrologic Soils Group B and A, respectively. Group B Soils have a moderate infiltration rate when thoroughly wet, which have a moderate runoff potential. Soil Group A have a high infiltration rate (low runoff potential) when thoroughly wet with a high rate of water transmission. Refer to Appendix B for a soils map. Eroded soil may adversely impact downstream drainage ways. BMP's will be installed and maintained to mitigate adverse impacts due to soil erosion.

- d. Receiving Waters: Geick Ranch Tributary 1 via overland flow or controlled release from Southern Pond Full-Spectrum Outlet Structure
- e. Soil erosion potential and potential impacts upon discharge:
 - i. Conduct land-disturbing activities in a manner that effectively reduces accelerated soil erosion and reduces sediment movement and deposition off site.
 - ii. Schedule construction activities to minimize the total amount of soil exposed at any given time.
 - iii. Establish temporary or permanent cover on areas that have been disturbed as soon as practical after grading is completed.
 - iv. Design and construct temporary or permanent facilities to limit the flow of water to non-erosive velocities for the conveyance of water around, through or from the disturbed area.
 - v. Remove sediment caused by accelerated soil erosion from surface runoff water before it leaves the site.
 - vi. Stabilize disturbed areas with permanent vegetative cover and provide permanent storm water quality control measures for the post-construction condition.
- f. Existing vegetation: Native meadow grasses (approximately 60% coverage), determined using a combination of visual field verification and aerial inspection.
- g. Location and description of potential pollution sources: Potential sources of pollution include: Onsite waste management, portable toilets, onsite vehicle fueling, and outdoor storage, vehicle tracking pads, dust management, and temporary stock pile. The locations of these sources are shown in the GEC plans in Appendix C or will be determined by the contractor.
 - i. Non-industrial waste sources such as worker trash and portable toilets Clean up litter and debris from the construction site daily and worker trash receptacles will be located by entrance/exit for easy removal/replace access. All portable toilets should be kept a minimum of 50 feet from a storm drain inlet or drainage course and secured to the ground. Toilets will be cleaned regularly and inspected daily for any spills or leaks. Waste disposal bins will be reasonably maintained at regular intervals to check for leaks and overflow capacity, and will be emptied routinely to prevent overflow.
 - ii. Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc. oil, grease, coolants, etc. that leak onto the soil or impervious surface should be cleaned up as soon as possible and on-site personnel notified.
 - iii. Vehicle, equipment maintenance, and fueling all designated fueling and

maintenance areas shall be located a minimum of 100 feet from any drainage course whenever possible. If the fueling area is located on a pervious surface, the area shall be covered with a non-pervious lining so as to prevent soil contamination by way of infiltration. Any spillage shall be cleaned up immediately.

- iv. Raw materials, intermediate products, byproducts, process residuals, Finished products, containers, and materials storage areas can be sources of pollutants such as metals, oils and grease, sediment and other contaminants. Where practical, conduct operations indoors. Where impractical, select an appropriate temporary or permanent covering to reduce exposure of materials to rainfall and runoff.
- v. Vehicle tracking controls (VTC) provide stabilized construction site access where vehicles exit the site onto paved public roads. An effective vehicle tracking control helps remove sediment (mud or dirt) from vehicles, reducing tracking onto the paved surface. With aggregate vehicle tracking controls, ensure rock and debris from this area do not enter the public right-of-way. Inspect the VTC for degradation and replace aggregate or material used for a stabilized entrance/exit as needed.
- vi. Wind erosion and dust control BMPs help to keep soil particles from entering the air as a result of land disturbing construction activities. Dust control measures should be used on any site where dust poses a problem to air quality. Dust control is important to control for the health of construction workers and surrounding waterbodies.
- vii. Stockpile management should be used when soils or other erodible materials are stored at the construction site. Special attention should be given to stockpiles in close proximity to natural or manmade storm systems. Soils stockpiled for an extended period (typically for more than 30 days) mulched with a temporary grass cover once the stockpile is placed (typically within 21 days). An area that will remain in an interim state for over 60 days must also be seeded. Use of mulch only or a soil binder is acceptable if the stockpile will be in place for a more limited time period (typically 30-60 days). Refer to DCM Vol 2 Section 3.2-General principles Basic Grading, Erosion and Stormwater Quality Requirements and General Prohibitions #16 for more information.
- h. Spill prevention and pollution controls for dedicated batch plants: Not applicable for this site since there will be no dedicated batch plants.
- i. Street sweeping or vacuuming should be conducted when there is noticeable sediment accumulation on roadways adjacent to the construction site. Typically, this will be concentrated at the entrance/exit to the construction site. Well-maintained stabilized construction entrances and vehicle tracking controls can help reduce the necessary frequency of street sweeping and vacuuming.
- j. Location and description of anticipated non-stormwater components of discharge: There will be a concrete washout area (CWA) where the cleaning of concrete trucks could produce a non-stormwater discharge. Proper installation and maintenance of the CWA will not allow runoff from this area. Another potential source of non-stormwater discharge could be the irrigation of permanent seeding

(PS). Irrigation will be kept at a rate so as to not create runoff.

- k. Existing basin drainage patterns are generally from northeast to southwest by way of sheet flow.
- 1. Receiving water: Flows from the ponds will be released across the southern boundary, where flows will follow existing drainage patterns. Runoff from the site will follow historic drainage patterns in the Gieck Ranch drainage basin.
- m. There are no streams that cross the project site.

3. Proposed Sequence of Major Activities

The project will follow standard construction sequences for construction, i.e., clearing and grubbing, over excavation, roadside grading, utility installation, and street paving.

The contractor will be responsible for implementing and maintaining the erosion and sediment control measures described in this document and the accompanying design drawings. The contractor may designate these tasks to certain subcontractors as they see fit, but the ultimate responsibility for implementing these controls and their proposed function at each phase of the project remains with the contractor. The order of major activities (with estimated completion dates) will be as follows:

- 1. Install VTC and other perimeter soil erosion control measures (Fall 2022).
- 2. Clear and rough grade for improvements (Fall 2022).
- 3. Place Seed and Mulch (Spring 2023).
- 4. Clean up and final stabilization (Spring 2023).

4. <u>BMPs for Stormwater Pollution Prevention</u>

See GEC plans in Appendix C for BMP locations and detail sheets.

- a. Erosion and Sediment Controls
 - i. Structural BMPs:
 - 1. Sediment basins (SB) to collect runoff before it enters receiving waters (initial, interim), see custom design in Appendix C
 - 2. Silt fence (SF) along downstream limits of disturbed areas to filter sediment from runoff (initial, interim)
 - 3. Stabilized staging area (SSA) near site entrance to consolidate construction equipment in a stabilized location (initial, interim)
 - 4. Construction fence (CF) to identify limits of construction (LOC) where silt fence is not needed (initial, interim)
 - 5. Vehicle tracking control (VTC) at site entrance to prevent sediment from leaving the site via vehicle tires (initial, interim)
 - 6. Rough Cut Street Control (RCS) is material placed after a road has been cut and before base has been installed for paving (initial)
 - 7. Erosion Control Blanket (ECB) is used on slopes greater than a 3:1 slope (interim)

- 8. Turf Reinforcement Mat (TRM) is used in swales with velocity greater than 5 ft/s, installed to wetted surface
- 9. Temporary stock pile (TSP) to consolidate materials such as topsoil in a controlled area bounded by silt fence (interim)
- 10. Inlet protection (IP) around culvert entrances (interim, final)
- 11. Outlet protection (OP) at culvert outlets (interim, final)
- 12. Concrete washout area (CWA) to allow a controlled area for concrete trucks to be washed (initial, interim)
- 13. Temporary Swale (TSW) to Convey runoff to sediment basins (initial, interim)
- 14. Straw Bale Barrier (STB) to be used as check dams in swales to slow and filter sediment from runoff (initial, interim)
- 15. Sediment Control Logs (SCL) to slow and filter sediment from runoff, to be placed behind sidewalks (initial, interim)
- ii. Non-structural BMPs:
 - 1. Mulching (MU) to stabilize soils and promote seed growth (final)
 - 2. Permanent seeding (PS) to stabilize disturbed areas (final)
- b. Materials Handling and Spill Prevention
 - i. General Materials Handling Practices:
 - 1. Potential pollutants shall be stored and used in a manner consistent with the manufacturer's instructions in a secure location. To the extent practical, material storage areas should not be located near storm drain inlets and should be equipped with covers, roofs, or secondary containment as required to prevent storm water from contacting stored materials. Chemicals that are not compatible shall be stored in segregated areas so that spilled materials cannot combine and react.
 - 2. Disposal of materials shall be in accordance with the manufacturer's instructions and applicable local, state, and federal regulations.
 - 3. Materials no longer required for construction shall be removed from the site as soon as possible.
 - 4. Adequate garbage, construction waste, and sanitary waste handling and disposal facilities shall be provided as necessary to keep the site clear of obstruction and BMPs clear and functional.
 - ii. Specific Materials Handling Practices
 - 1. All pollutants, including waste materials and demolition debris, that occur onsite during construction shall be handled in a way that does not contaminate storm water.
 - 2. All chemicals including liquid products, petroleum products, water treatment chemicals, and wastes stored onsite shall be covered and protected from vandalism.
 - 3. Maintenance, fueling, and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, degreasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants, shall be conducted under cover during wet weather and on an impervious

surface to prevent release of contaminants onto the ground. Materials spilled during maintenance operations shall be cleaned up immediately and properly disposed of.

- 4. Wheel wash water shall be settled and discharged onsite by infiltration.
- 5. Application of agricultural chemicals, including fertilizers and pesticides, shall be conducted in a manner and at application rates that will not result in loss of chemical to storm water runoff. Follow manufacturer's recommendations for application rates and procedures.
- 6. pH-modifying sources shall be managed to prevent contamination of runoff and storm water collected onsite. The most common sources of pH-modifying materials are bulk cement, cement kiln dust (CKD), fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, and concrete pumping and mixer washout waters.
- iii. Spill Prevention and Response Procedures
 - 1. The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize their migration into storm water runoff and conveyance systems. If the release has impacted onsite storm water, it is critical to contain the released materials onsite and prevent their release into receiving waters.
 - 2. Spill Response Procedures:
 - a. Notify site superintendent immediately when a spill, or the threat of a spill, is observed. The superintendent shall assess the situation and determine the appropriate response.
 - b. If spills represent an imminent threat of escaping onsite facilities and entering the receiving waters, site personnel shall respond immediately to contain the release and notify the superintendent after the situation has stabilized.
 - c. The site superintendent, or his/her designee, shall be responsible for completing a spill reporting form and for reporting the spill to the appropriate agency.
 - d. Spill response equipment shall be inspected and maintained as necessary to replace any materials used in spill response activities.
 - 3. Spill kits shall be on-hand at all fueling sites. Spill kit location(s) shall be reported to the SWMP administrator.
 - 4. Absorbent materials shall be on-hand at all fueling areas for use in containing inadvertent spills. Containers shall be on-hand at all fueling sites for disposal of used absorbents.
 - 5. Recommended components of spill kits include the following:
 - a. Oil absorbent pads (one bale)
 - b. Oil absorbent booms (40 feet)
 - c. 55-gallon drums (2)

- d. 9-mil plastic bags (10)
- e. Personal protective equipment including gloves and goggles
- 6. Concrete wash water: unless confined in a pre-defined, bermed containment area, the cleaning of concrete truck delivery chutes is prohibited at the job site.
- 7. Notification procedures:
 - a. In the event of an accident or spill, the SWMP administrator shall be notified.
 - b. Depending on the nature of the spill material involved, the Colorado Department of Public Health and Environment (24-hour spill reporting line: 887-518-5608), downstream water users, or other agencies may also need to be notified.
 - c. Any spill of oil which 1) violates water quality standards, 2) produces a "sheen" on a surface water, or 3) causes a sludge or emulsion, or any hazardous substance release, or hazardous waste release which exceeds the reportable quantity, must be reported immediately by telephone to the National Response Center Hotline at (800) 424-8802.

5. Final Stabilization and Long-Term Stormwater Management

- a. Permanent seeding will be provided to achieve long-term stabilization of the site.
- b. Seed Mix: Sand dropseed, or approved equal.
- c. Seeding Application Rate: Drill seed 0.25" to 0.5" into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25" to 0.5" into the soil. Apply seed at the following rates:
 - i. Dryland: 20-25 lbs/acre
 - ii. Irrigated: 40 lbs/acre
- d. Soil stabilization Practices:
 - i. Mulching Application: Apply 1-1/2 tons of certified weed free hay per acre mechanically crimped into the soil in combination with an organic mulch tackifier. On slopes and ditches requiring a blanket, the blanket shall be placed in lieu of much and mulch tackifier.
- e. Soil Conditioning and Fertilization Requirements:
 - i. Soil conditioner, organic amendment shall be applied to all seeded areas at 3 CY / 1000 SF.
 - ii. Fertilizer shall consist of 90% fungal biomass (mycelium) and 10% potassium-magnesia with a grade of 6-1-3 or approved equal. Fertilizer shall be applied as recommended by seed supplier.
- f. Final stabilization is reached when all soil-disturbing activities at the site have been completed, and uniform vegetative cover has been established with an individual plan density of at least 70 percent of pre-disturbance levels, or equivalent permanent, physical erosion reduction methods have been employed.
 - i. The overall project does not solely rely on another entity or control measures for final stabilization or permanent water quality or detention.
- g. Final Stabilization and Long-term Stormwater Quality:

- i. After final stabilization occurs, Stormwater Quality of the site will be maintained via the use of 2 detention ponds/water quality ponds, all flows on site will be routed to these ponds and treated.
 - 1. Mowing and Trimming shall occur on a regular basis in the ponds and at their spillways.
- ii. Onsite flows will also be treated via grass swales that route flows present to the detention ponds.

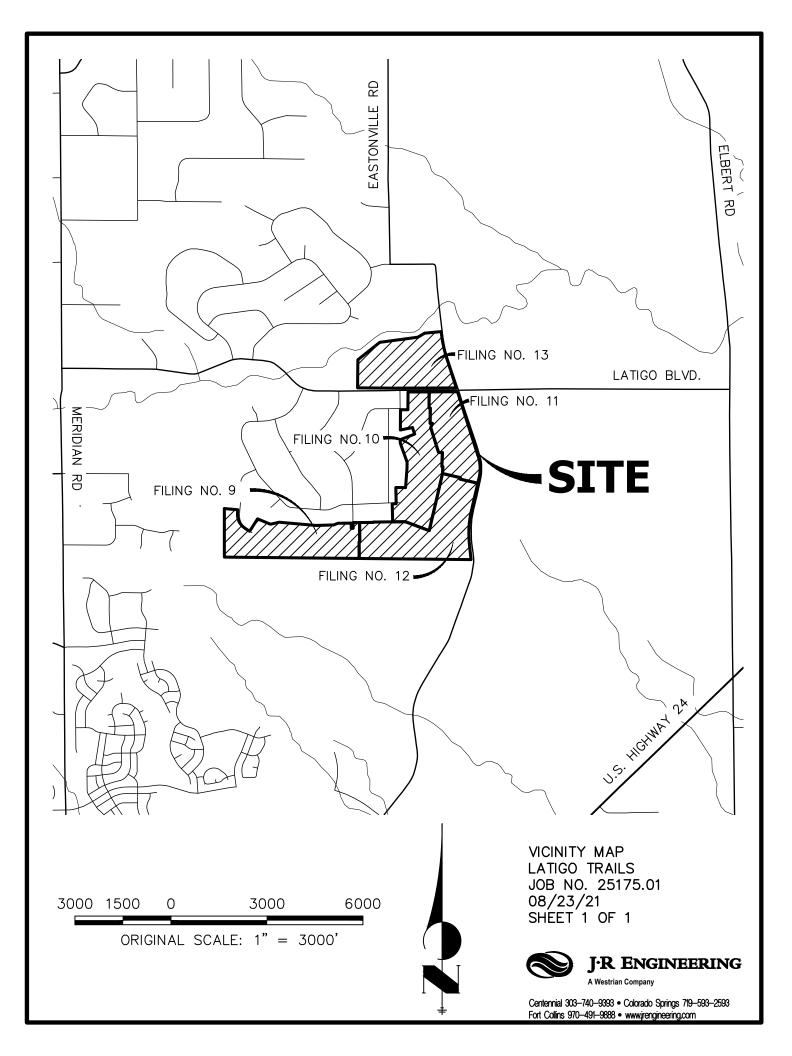
6. Inspection and Maintenance

- a. Inspection Schedules:
 - i. The contractor shall inspect BMPs once every 14 days at a minimum, and immediately (within 24 hours) after any precipitation or snowmelt event that causes surface erosion (i.e. that results in storm water running across the ground), to ensure that BMPs are maintained in effective operating condition.
 - ii. The contractor will be responsible for any re-excavation of sediment and debris that collects in the basin depression required to ensure that the basin meets the design grades following construction. The storm lines shall also be cleaned and free of sediment once the site becomes stabilized.
- b. Inspection Procedures:
 - i. Site Inspection / Observation Items:
 - 1. Construction site perimeter and discharge points
 - 2. All disturbed areas
 - 3. Areas used for material / waste storage that are exposed to precipitation
 - 4. Other areas having a significant potential for storm water pollution, such as demolition areas or concrete washout areas, or locations where vehicles enter or leave the site
 - 5. Erosion and sediment control measures identified in the SWMP
 - 6. Any other structural BMPs that may require maintenance, such as secondary containment around fuel tanks, or the conditions of spill response kits.
 - ii. Inspection Requirements:
 - 1. Determine if there is any evidence of, or potential for, pollutants entering the receiving waters.
 - 2. Review BMPs to determine if they still meet design and operational criteria in the SWMP, and if they continue to adequately control pollutants at the site.
 - 3. Upgrade and/or revise any BMPs not operating in accordance with the SWMP and update the SWMP to reflect any revisions.
 - 4. The SWMP should be viewed as a "living document" that is continuously being reviewed and modified as a part of the overall

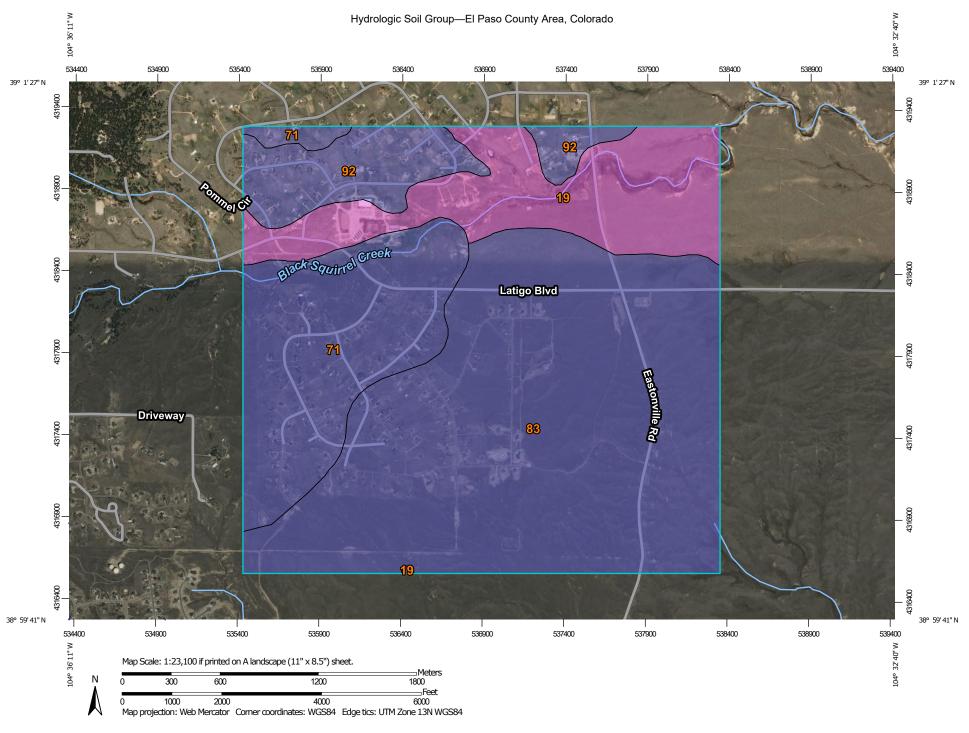
process of evaluating and managing storm water quality issues at the site.

- 5. The QSM will be sufficiently qualified for the required duties per the ECM Appendix I.5.2.A.
- 6. The Qualified Storm water 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 the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity or when BMPs are no longer necessary and are removed.
- iii. BMP Maintenance / Replacement and Failed BMPs:
 - 1. The contractor shall remove sediment that has been collected by perimeter controls, such as silt fence and inlet protection, on a regular basis to prevent failure of BMPs, and remove potential of sediment from being discharged from the site in the event of BMP failure.
 - 2. Removed sediment must be moved to an appropriate location where it will not become an additional pollutant source, and should never be placed in ditches or streams.
 - 3. The contractor shall update the GEC as required with any new BMPs added during the construction period.
 - 4. The SWMP should be viewed as a "living document" that is continuously being reviewed and modified as a part of the overall process of evaluating and managing storm water quality issues at the site.
 - 5. The Qualified Storm water 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 the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity or when BMPs are no longer necessary and are removed.
 - 6. The contractor shall address BMPs that have failed or have the potential to fail without maintenance or modifications, as soon as possible, immediately in most cases, to prevent discharge of pollutants.
- iv. Record Keeping and Documenting Inspections:
 - 1. The contractor shall maintain records of all inspection reports, including signed inspection logs, at the project site.
 - 2. The permittee shall document inspection results and maintain a record of the results for a period of 3 years following expiration or inactivation of permit coverage.
 - 3. Site inspection records shall include the following:
 - a. Inspection date
 - b. Name and title of personnel making the inspection

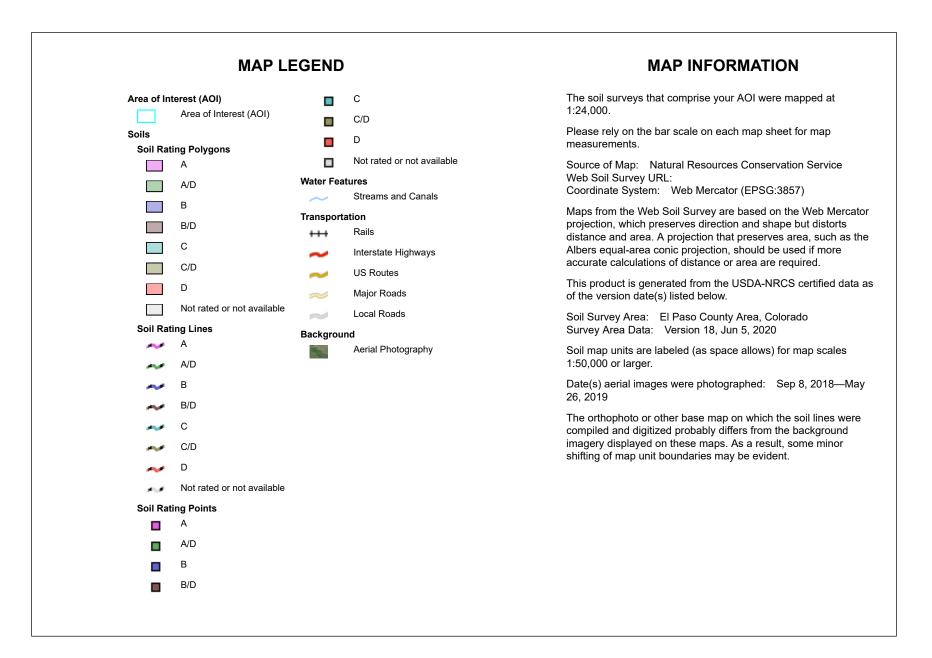
- c. Location of discharges of sediment or other pollutants from the site
- d. Location(s) of BMPs in need of maintenance
- e. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location
- f. Location(s) where additional BMPs are needed that were not in place at the time of inspection
- g. Deviations from the minimum inspection schedule



APPENDIX B - SOILS MAP



USDA 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
19	Columbine gravelly sandy loam, 0 to 3 percent slopes	A	330.2	16.7%
71	Pring coarse sandy loam, 3 to 8 percent slopes	В	393.4	19.9%
83	Stapleton sandy loam, 3 to 8 percent slopes	В	1,081.8	54.7%
92	Tomah-Crowfoot loamy sands, 3 to 8 percent slopes	В	172.5	8.7%
Totals for Area of Inter	rest	1	1,977.9	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 Tie-break Rule: Higher

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
- 3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM) 3.2. CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINÁGE CRITERIA MANUAL, VOLUMES 1 AND 2
- 3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION 3.4. CDOT M&S STANDARDS
- 4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 11. SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.
- 12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- 13. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 14. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWENER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.
- 15. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

	4.005	-		DT	DIOUT
AC	ACRE	FL	FLOWLINE FILING FIBER OPTIC CABLE GRADE BREAK GAS EASEMENT	RI	RIGHT
AD	ALGEBRAIC DIFFERENCE	FIL	FILING	S	SOUTH
AH	AHEAD	FO		CTE	STEEL
			FIDER OF TIC CADLE	SIL	
ARCH	ARCHITECT	GB	GRADE BREAK	SAN	SANITARY SEWER
	AMERICAN SOCIETY OF CIVIL		CAS FASEMENT	SF	SQUARE FOOT
AGUL	AMERICAN SOCIETI OF CIVIL	GL		3	
	ENGINEERS	GIS	GEOGRAPHIC INFORMATION	ST	STREET
ASS'Y	ASSEMBLY		SYSTEM	STA	STATION
A33 I					
AVE	AVENUE	GL	GAS LINE	STM	STORM SEWER
BB	BOX BASE	GPS	GLOBAL POSITIONING SYSTEM	SY	SQUARE YARD
	DON DAGE				
BK	BACK	GV	GATE VALVE		SQUARE YARD INCH
BNDY	BOUNDARY	HBP	HOT BITUMINOUS PAVEMENT	TB	THRUST BLOCK
BOP		HC	HANDICAP	TBC	TOP BACK OF CURB
DUP	BUTTOM OF PIPE	пС			
BOV	AMERICAN SOCIETT OF CIVIL ENGINEERS ASSEMBLY AVENUE BOX BASE BACK BOUNDARY BOTTOM OF PIPE BLOW OFF VALVE BUTTERFLY VALVE BOULEVARD BOTTOM OF WALL CURB & GUTTER CABLE TELEVISION CATCH BASIN	HDC	HIGH DEFLECTION COUPLING	TBW	TOP BACK OF WALK
BFV		UNDE	HIGH DENSITY POLYETHYLENE	TEL	TELEPHONE
BLVD	BOULEVARD	HGL	HYDRAULIC GRADE LINE	TN	TON
BW	BOTTOM OF WALL	HMA	HOT MIX ASPHALT	ΤΟΑ	TOP OF ASPHALT
C&G		HOA	HOME OWNERS ASSOCIATION	TOB	TOP OF BOX
Cale	CURB & GUITER	ПUА	HUME UWINERS ASSOCIATION	ТОВ	
CATV	CABLE TELEVISION	HP	HIGH POINT	тос	TOP OF CURB OR CONCRETE
CB	CATCH BASIN	HR	HOUR	TOF	TOP OF FOUNDATION
	CATCH BASIN CONCRETE BOX CULVERT	1 11 X			
CBC	CONCRETE BOX CULVERT	I		TOP	TOP OF PIPE
CDOT	COLORADO DEPARTMENT OF	IE	IRRIGATION EASEMENT	ΤW	TOP OF WALL
	TRANSPORTATION	INT	INTERSECTION	TYP	TYPICAL
	TRANSPORTATION	IINI			
CDS	CUL-DE-SAC	INV	HIGH POINT HOUR INLET IRRIGATION EASEMENT INTERSECTION INVERT IRRIGATION KICK (THRUST) BLOCK POLIND	UDFCD	URBAN DRAINAGE AND FLOOD
CF	CUBIC FOOT CUBIC FEET PER SECOND COMPLETE IN PLACE CENTER LINE	IRR	IRRIGATION		CONTROL DISTRICT
CFS	CUBIC FEET PER SECOND	KB	KICK (IHRUSI) BLOCK	UE	UTILITY EASEMENT
CIP	COMPLETE IN PLACE	LB	POUND	U&DF	UTILITY & DRAINAGE EASEMENT
		LE		UGE	
CL			LANDSCAPE EASEMENT		UNDERGROUND ELECTRIC
CLOMR	CONDITIONAL LETTER OF MAP	LF	LINEAR FOOT	VCP	VITRIFIED CLAY PIPE
	REVISION	LN	LANE	VPC	VERTICAL POINT OF CURVATURE
CLR	CLEAR	LOMR	LETTER OF MAP REVISION	VPI	VERTICAL POINT OF
CMP	CORRUGATED METAL PIPE	LP	LOW POINT		INTERSECTION
CO	CLEAN OUT	10	LUMP SUM	VPT	VERTICAL POINT OF TANGENCY
		LS			
COCS	CITY OF COLORADO SPRINGS	LT	LEFT	VTC	VEHICLE TRACKING CONTROL
CONC	CONCRETE	MAX	MAXIMUM	W	WEST
CR	CIRCLE	M/D	MOISTURE DENSITY	WL	WATER LINE
CSP	CORRUGATED STEEL PIPE	MDDP	MOISTURE DENSITY MASTER DEVELOPMENT DRAINAGE PLAN MANHOLE	WM	WATER MAIN
				WRD	WATER RESOURCES
CSU	COLORADO SPRINGS UTILITIES		DRAINAGE PLAN	WRD	
СТ	COURT	MH	MANHOLE		DEPARTMENT
CTRB	CONCRETE THRUST REDUCER	MIN	MINIMUM	WS	WATER SURFACE
CIND					
	BLOCK	MS	MOUNTABLE SIDEWALK	WSE	WATER SURFACE ELEVATION
CY	CUBIC YARD	Ν	NORTH	WTR	WATER
DBPS	DRAINAGE BASIN PLANNING	NRCP	NON-REINFORCED CONCRETE	YR	YEAR
DDF 3		NRCE			ILAN
	STUDY		PIPE		
DE	DRAINAGE EASEMENT	ODP	OFFICIAL DEVELOPMENT PLAN		
DIA	DIAMETER	OHE	OVERHEAD ELECTRIC		
DIP	DUCTILE IRON PIPE	OHU	OVERHEAD UTILITY		
DR	DRIVE	PC	POINT OF CURVATURE		
			POINT OF COMPOUND		
DRC	DESIGN REVIEW COMMITTEE	PCC			
DU	DWELLING UNITS		CURVATURE		
DY	DAY	PCR	POINT OF CURB RETURN		
E	EAST	PDP	PRELIMINARY DEVELOPMENT		
EA	EACH		PLAN		
EGL	ENERGY GRADE LINE	PE	PROFESSIONAL ENGINEER		
EL	ELEVATION	ΡI	POINT OF INTERSECTION		
ELEC	ELECTRIC	PKWY	PARKWAY		
EOA	EDGE OF ASPHALT	PL	PROPERTY LINE		
EPC	EL PASO COUNTY	PR	PROPOSED		
ERCP	ELLIPTICAL RCP	PRC	POINT OF REVERSE CURVATURE	.	
				-	
ESMT	EASEMENT	PT	POINT OF TANGENCY		
EST	ESTIMATE	ΡV	PLUG VALVE		
EX	EXISTING	PVC	POLYVINYL CHLORIDE		
FDP	FINAL DEVELOPMENT PLAN	R	RADIUS		
FDR	FINAL DRAINAGE REPORT	RCBC	REINFORCED CONCRETE BOX		
FES	FLARED END SECTION	-	CULVERT		
FF	FINISHED FLOOR ELEVATION	RCP	REINFORCED CONCRETE PIPE		
FG	FINISHED GRADE	RD	ROAD		
FH	FIRE HYDRANT	ROW	RIGHT OF WAY		

ROW RIGHT OF WAY

ABBREVIATIONS

FH

FIRE HYDRANT

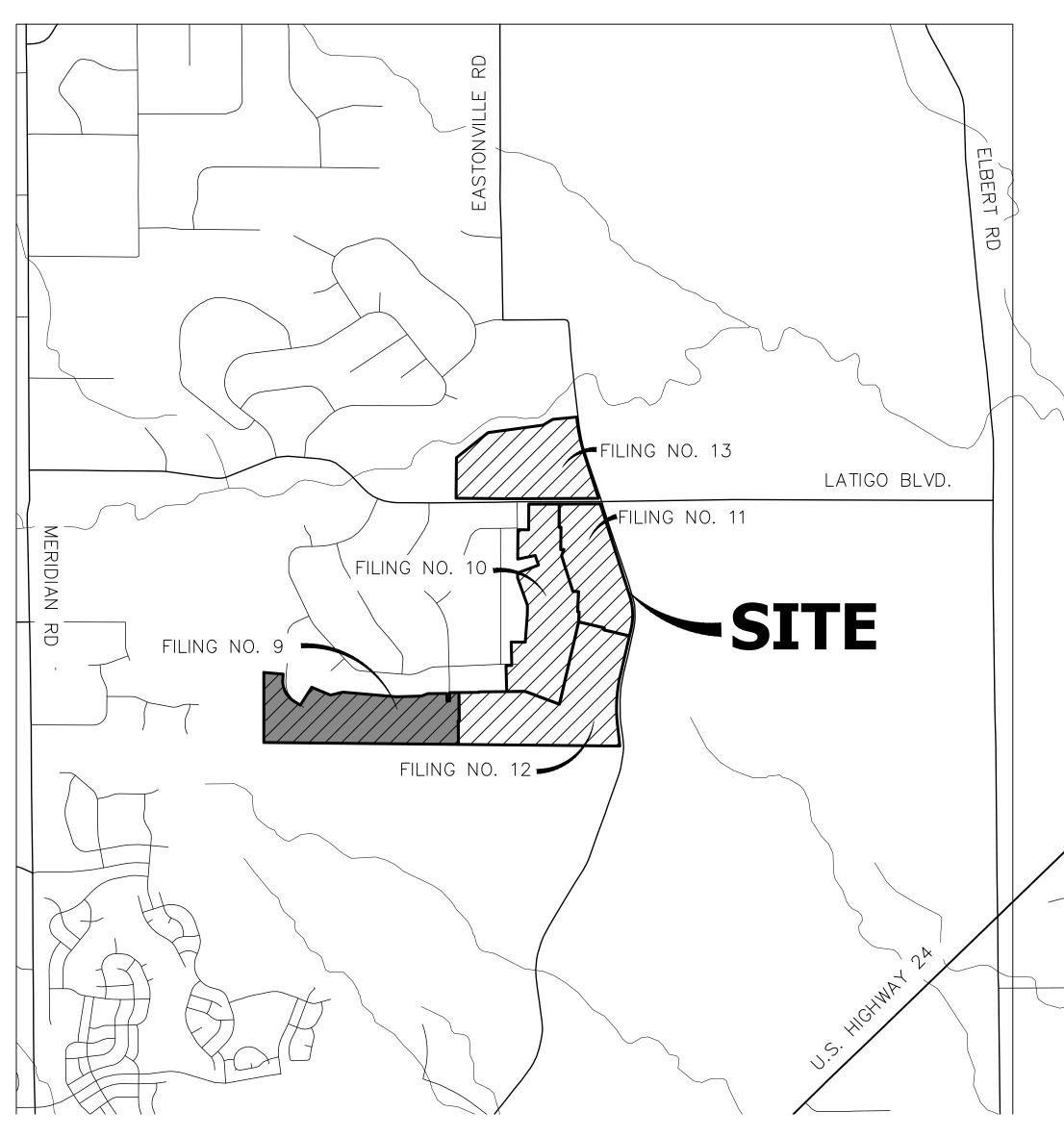
LATIGO PRESERVE FILING 9

A PARCEL OF LAND LOCATED IN THE SOUTH QUARTER OF SECTION S17

TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH P.M.,

EL PASO COUNTY, STATE OF COLORADO

GRADING AND EROSION CONTROL



VICINITY MAP SCALE: 1"=2000'

SHEET INDEX

- :COVER SHEET : LEGEND
- : TYPICAL SECTIONS 4-6 : GRADING AND EROSION CONTROL PLAN 7-11: GRADING AND EROSION CONTROL DETIALS

CONT	TACTS:					NG			
	EVELOPER:	BRJM, LLC ATTN: BOB IRWIN 101 N. CASCADE, SUITE 200		V ▼ ⊥	S ARE He	EVIEWING		WRITTEN	
		MIT HO		ATT ATT ATT		ED BY	A IIUN.		
ENGINEER,	/SURVEYOR:	JR ENGINEERING, LLC ATTN: BRYAN LAW 5475 TECH CENTER DRIVE, SU COLORADO SPRINGS, CO 8091 P~303–267–6254		IINTII SII	THESE DF	APPROPR		DESIGNAT	
FIRE PRO	TECTION DISTRICT:	FALCON FIRE FPD 7030 N MERIDIAN RD FALCON, CO 80831 P~719-494-4050				200	00200	4	
DISTRICT	/ WATER PROVIDER:	MERIDIAN SERVICE METROPOLI 11886 STAPLETON DR PEYTON, CO 80831 P~719-495-6567	TAN DISTRICT	ED FOR	LLC	SUI	R IRWIN	-	
EL PASO	COUNTY:	PLANNING AND COUNTY DEVEL ATTN: BRAD WALTERS 2880 INTERNATIONAL CIRCLE, COLORADO SPRINGS, COLORAE P ~ (719) 520-6819	SUITE 110	PREPARED	BRJM,	CASCADE,	$\prec \vdash$	~(719)-4	
		DEPARTMENT OF PUBLIC WORI 3257 AKERS DR COLORADO SPRINGS, CO 8091 P ~ (719) 529–6460				5 9		ġ.	
ELECTRIC	COMPANY:	MOUNTAIN VIEW ELECTRIC ASS 11140 EAST WOODMEN ROAD FALCON, COLORADO 80831 (719) 495–2283	SOC., INC.		UNI			593-2593	
					TEER			Centennial 303-740-9393 • Colorado Springs 719-593-2593 Ent Colline 970-494-9888 • www.irenninearing.com	leall igwin
					FNGIN	mpanv		Colorado S	www.jrerigineering.com
					I.R. H	; ian		-740-9393 • -/oi-ossa	-431-3000
BASI	S OF BEARING				6			Colline 970.	
PRINCIPAL ALUMINUM	MERIDIAN, BEING MONUMENTE CAP STAMPED "LS 24964 20	SHIP 12 SOUTH, RANGE 64 WES D AT THE SOUTHEAST CORNER DOO" FLUSH WITH THE GROUND MINUM CAP STAMPED "LS 2595	BY A 3-1/4" AND AT THE)		Cent	Ĩ.
BELOW GR	OUND, BEARING N89°25'55"W.			ш					
NGS MONU	HMARK MENT T 294 BEING MONUMEN	TED BY A 3-1/4" BRASS DISC	SET IN A	DATE					
INTERSECTI OF THE RC	ON WITH JACKSON CREEK PA	T ALONG HIGBY ROAD FROM IT RKWAY, 40 FEET SOUTH OF THE ICE, AND 6.2 FEET SOUTH OF A	E CENTERLINE A WITNESS	В≺					
POST. SA	ID MONUMENT HAVING A PUBL	ISHED ELEVATION OF 7247.10 I	FEET, NAVD88.						
	OWNER/DEVEL	OPER STATEMEN	IT						
		R HAVE READ AND WILL COM IFIED IN THESE DETAILED PL							
	ROBERT C. IRWIN, MANAGE	ER	DATE						
	BRJM, LLC 17 S. WAHSATCH AVE.			NO					
	COLORADO SPRINGS, CO E	10903 ITY STATEMENT		REVISION					
	COUNTY PLAN REVIEW IS	PROVIDED ONLY FOR GENER TERIA. THE COUNTY IS NOT	AL CONFORMANCE	No.					
	THE ACCURACY AND ADE ELEVATIONS WHICH SHALL COUNTY THROUGH THE A	QUACY OF THE COUNTLIS NOT QUACY OF THE DESIGN, DIME BE CONFIRMED AT THE JOE PROVAL OF THIS DOCUMEN PLETENESS AND/OR ACCURA	ENSIONS, AND/OR 3 SITE. THE T ASSUMES NO	1"=2000'	N/A	06/16/22	N/A	QNL	
	FILED IN ACCORDANCE WI COUNTY LAND DEVELOPME VOLUMES 1 AND 2, AND	TH THE REQUIREMENTS OF T ENT CODE, DRAINAGE CRITER ENGINEERING CRITERIA MANU	RIA MANUAL, Jal as amended.	H-SCALE	V-SCALE	DATE	ESIGNED BY	DRAWN BY	снескер ву
	DOCUMENTS WILL BE VALI YEARS FROM THE DATE S CONSTRUCTION HAS NOT WILL NEED TO BE RESUBM	M SECTION 1.12, THESE CON D FOR CONSTRUCTION FOR SIGNED BY THE EL PASO COU STARTED WITHIN THOSE 2 Y MITTED FOR APPROVAL, INCL	A PERIOD OF 2 UNTY ENGINEER. IF EARS, THE PLANS UDING PAYMENT OF	 5)		DE		<u>C</u>
	REVIEW FEES AT THE PLA DIRECTORS DISCRETION.	NNING AND COMMUNITY DEV	ELOPMEN I	FII ING		_	_		
	JENNIFER IRVINE, P.E. COUNTY ENGINEER/ECM A		DATE						
	ENGINEER'S ST	ATEMENT		PRFSFRVF	 				
	DIRECTION AND SUPERVIS KNOWLEDGE AND BELIEF. THE CRITERIA ESTABLISHE CONTROL PLANS. I ACCEF BY ANY NEGLIGENT ACTS,	ION AND IS CORRECT TO TH SAID PLAN HAS BEEN PREP D BY THE COUNTY FOR GRA T RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS ON	E BEST OF MY ARED ACCORDING TO ADING AND EROSION LIABILITY CAUSED						
low. you dig.	PREPARING THIS PLANS.	25043	L RED O	I ATIGO	Ì				
SF2136	BRYAN T. LAW, P.E. COLORADO P.E. 25043 FOR AND ON BEHALF OF			SHE	ET NO.	1	01 251		11 \

I A VED LINETVDE LECEND

		EXIST	ING		PROF	POSED
PHASE LINE				_		
MATCH LINE		_				
SECTION LINE						
BOUNDARY LINE						
PROPERTY LINE						
EASEMENT LINE			·			
RIGHT OF WAY						
R.O.W. A LINE		- A ———			—— A ———	
CENTERLINE						
CITY LIMITS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
WIRE FENCE					×	×
CHAIN LINK FENCE		0_	0		•	•
WOOD FENCE						♦
MASONRY FENCE					·	=
GUARDRAIL	<u> </u>	U				
CONC. BARRIER						
CABLE TV						_ _
						—— E ———
TIBER OPTIC						F0
GAS MAIN						G
RRIGATION MAIN						IRR
DIL/PETRO. MAIN						0
OVERHEAD UTILITY						OHU
SANITARY SEWER			s_			
STORM DRAIN			_			
IELEPHONE		<i>T</i>	<i>T</i>		т	T
NATER MAIN					· · · · · · · · · · · · · · · · · · ·	•
RAW WATER LINE			— — — — <i>RWL</i> -			
SWALE/WATERWAY FLOWLINE						· · ·
						_ · · · · ·
DIVERSION DITCH						
DIVERSION CHANNEL						
AJOR DRAINAGE BASIN						
MINOR DRAINAGE BASIN						
TOP OF SLOPE					, lu	, lu
OE OF SLOPE					i	
DGE OF WATER						
NDEX CONTOUR	/ _		~	`	61	00
NTERMEDIATE CONTOUR				``_ <i>/</i>		
DEPRESSION CONT. (INDEX)	- ~ -	7 76100		\sim $-$		00-1-1-
DEPRESSION CONT. (INTER)			т <u>т</u> ттт			
		I	1		'	`
TOP OF CUTS						
TOP OF CUTS TOE OF FILLS				_·		
					• C/F •	
TOE OF FILLS CUT AND FILL LINE		— — — SF —	— — — — SF -		,	,
TOE OF FILLS CUT AND FILL LINE SILT FENCE		0.	— — — — SF - 100YR		SF	SF
TOE OF FILLS CUT AND FILL LINE SILT FENCE OO YEAR FLOODPLAIN		0.			SF 100	SF
TOE OF FILLS		0.	100YR		SF	SF
OE OF FILLS CUT AND FILL LINE SILT FENCE OO YEAR FLOODPLAIN			100YR 500YR	///	SF	

<u>`=--</u>*

STONE WALL

UTIL	<u>_ITIES_LE(</u>	<u>GEND</u>	STORM WATER	<u>r man</u>	<u>AGEMENT</u>	<u>GRADING</u> A
	EXISTING	PROPOSED		KEY	SYMBOL	1. STORMWATER DISC
STORM SEWER			CONSTRUCTION ROAD			CONTAMINATION, (THAT MINIMIZES F
MANHOLE	D	۲	STABILIZATION	(CRS)		2. NOTWITHSTANDING CONSTRUCTION RE
STORM INLET			CURB SOCK INLET PROTECTION	N CS	8	REQUIREMENTS OF LAND DEVELOPME
AREA INLET – SQUARE			CONCRETE WASHOUT AREA			CRITERIA MANUAL APPROVED, IN WR
AREA INLET - ROUND	0			(CWA)		3. A SEPARATE STO
FLARED END SECTION	\triangleright	Ø	DIVERSION DITCH AND DIKE, TEMPORARY	DD		STORMWATER QUA SWMP DURING CO EROSION CONTROL
RIPRAP			DIVERSION CHANNEL, TEMPORARY	DV		BE KEPT UP TO [
SANITARY SEWER			DEWATERING			4. ONCE THE ESQCP THE INITIAL STAGE PRECONSTRUCTION CONSTRUCTION. IT
LINE MARKER	Mkr San ^O		MULCHING	MU		COUNTY STAFF. 5. CONTROL MEASUR
SERVICE MARKER	Ś				L'ANT AND	TO STORMWATER. INSTALLED IMMEDI
CLEAN-OUT	0—	•	PAVED FLUME	PF		6. ALL TEMPORARY
MANHOLE W/ DIRECTIONAL FLOW ARROW	Sa	•4		$\overline{\mathbf{O}}$		OPERATING CONDI IS ESTABLISHED.
WATER LINE			REINFORCED CONCRETE DAM	RCD		MEASURES AT TH CONTINUED EFFEC CONTROL MEASUR
LINE MARKER	Mkr W ^O		ROUGH CUT STREET CONTROL	(RCS)	0000000	7. TEMPORARY STAB
SERVICE MARKER FIRE HYDRANT	í A	۲				CONSTRUCTION AC
FIRE CONNECTION	Ч.	¥	SEDIMENT BASIN	SB		8. FINAL STABILIZATI WHEN ALL GROUN VEGETATIVE COVE
MANHOLE	(W)	•				EQUIVALENT PERM CONTROL MEASUR
BEND BLOW–OFF VALVE	Å		SEDIMENT CONTROL LOG	SCL		9. ALL PERMANENT
WELL	O _{WELL}	•WELL		\bigcirc		PROPOSED CHANG MUST BE APPROV
METER	(9)	•	SURFACE ROUGHENING	(SR)		10. EARTH DISTURBAN
VALVE	\bowtie	•		\bigcirc		EROSION AND RES THAT THE EXPOSE PRE-EXISTING VEC
REDUCER		→	SEDIMENT TRAP	(ST)		STATE UNLESS SH
THRUST BLOCK CROSS		× -∔-	TERRACING	(TER)		11. COMPACTION OF S FINAL STABILIZATI
PLUG W/ THRUST BLOCK	۶Ĺ	۱ ۹		\bigcirc		SHALL ALSO BE F COMPACTION PREY
TEE		↓ +-	TEMPORARY STREAM CROSSIN CULVERT/BRIDGE			VEGETATION CONT 12. ANY TEMPORARY
REVERSE ANCHOR ANODE		Ⅰ ⊗		\bigcirc		THROUGH, OR FROM AND THE DISCHAF
AIR & VACUUM		_	TEMPORARY STREAM CROSSIN FORD TYPE)(13. CONCRETE WASH
VALVE ASSEMBLY TRANSMISSION		۴ ه.t				SHALL BE DISCH DRAINAGE SYSTEM
BLOW-OFF ASSEMBLY		A th	TEMPORARY SLOPE DRAIN	(TSD)		GROUNDWATER MA 14. DURING DEWATERI
GAS LINE			VEHICLE TRACKING CONTROL	WR		LEAVE THE SITE I
MARKER	Mkr G ⁰		WITH WASH RACK	W		15. EROSION CONTROL
SERVICE MARKER METER	<u>267</u> ©	٠				16. CONTRACTOR SHA ACCORDANCE WIT
VALVE	\bowtie	M	LEGEND			MATERIAL WASTES
PLUG TEE	Γ	С +.	STRAW BALE BARRIER	(STB)	**	17. WASTE MATERIALS UNLESS IN ACCOR PASO COUNTY EN
DRY UTILITIES		+*		\bigcirc	\ _	18. TRACKING OF SOI
CABLE TV MARKER	Mkr TV ⁰		CHECK DAM	CD	\geq	CLEANED UP AND
CABLE TELEVISION PEDESTA			CONSTRUCTION FENCE	(CF)	CF	19. THE OWNER/DEVE SEDIMENT, SOIL, A SYSTEMS AND ST
ELECTRIC MARKER ELECTRIC SERVICE MARKER	Mkr E ⁰					20. THE QUANTITY OF
ELECTRICAL PEDESTAL	Ε		CONCRETE WASHOUT AREA	CWA	Ĭ	QUANTITY REQUIR STORED IN A NEA
ELECTRICAL METER	Ê		INLET PROTECTION	(IP)		21. NO CHEMICAL(S)
ELECTRICAL MANHOLE FIBER-OPTIC MARKER	E Mkr F0 ⁰		LIMITS OF CONSTRUCTION/			PERMISSION FOR APPROVAL FOR T
IRRIGATION PEDESTAL	Ī		DISTURBANCE	\sim		22. BULK STORAGE O SHALL REQUIRE A
TELEPHONE MARKER	Mkr T ^O		OUTLET PROTECTION	(OP)		SPILLED MATERIAL FACILITIES.
TELEPHONE PEDESTAL TELEPHONE MANHOLE	T T		PERMANENT SEEDING & MULCHING	(PS) (MU)	· · · · · · · · · · · · · · · · · · ·	23. NO PERSON SHAL
UTILITY POLE	-0-	-	SEDIMENT BASIN	\sim		
GUY ANCHOR GUY POLE	@ O-			(SB)		24. OWNER/DEVELOPE ARTICLE 8, CRS), DEVELOPMENT CO
UUT TOLL	U U		SILT FENCE	(SF)	SF	CONTRACTOR PRIC
MISC. UTILITIES			STABILIZED STAGING AREA	SSA		LOCAL, OR COUNT
VENT PIPE	<i>∨₽О∨₽</i> Т <u>Ң</u> #	● _{VP}	TEMPORARY STOCK PILE	(TSP)		25. ALL CONSTRUCTIO
TEST HOLE DESIGNATOR	FIRM			\sim		26. PRIOR TO CONSTR 27. A WATER SOURCE
			TEMPORARY SWALE	TSW		TO MINIMIZE DUST
			VEHICLE TRACKING CONTROL	(VTC)		28. THE SOILS REPOR BE CONSIDERED A
				\smile	(10(10(10(10(1)	29. AT LEAST TEN (1

CONTACT:

WQCD - PERMITS DENVER, CO 80246-1530 ATTN: PERMITS UNIT

CUT AND FILL LINE

(WATTLE)

PROPOSED DRAINAGE ARROW

EROSION CONTROL BLANKET

TURF REINFORCEMENT MAT

SEDIMENT CONTROL LOG

ROUGH CUT STREET CONTROL

(RCS

(SCL

 \Rightarrow

EXISTING DRAINAGE ARROW

DING AND EROSION CONTROL STANDARD NOTES

IWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, MINATION. OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

THSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND TRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE RIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND OVED, IN WRITING.

ARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND IWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED ON CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL EPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED. THE CONTRACTOR MAY INSTALL NITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A DNSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY TRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH

ROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS ORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE LED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.

EMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE TING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION ABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL JRES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE NUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION ROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.

DRARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING TRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM ATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR ALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION ROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.

ERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY DSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL ON AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.

ACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF ACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND TATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).

TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, JGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION THE DISCHARGE OF SEDIMENT OFF SITE.

RETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM AGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW NDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.

NG DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE. BUT SHALL NOT THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.

ION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

ACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN RDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING RIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, SS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

ING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE NED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

WNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, ENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE MS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT TITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE ED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

HEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS SSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING OVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY ED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER

RSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH OVED SEDIMENT CONTROL MEASURES.

R/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, É 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND OPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE ACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF LICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, , OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

TER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED NIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. (DATED 04/07/2020) AND SHALL ONSIDERED A PART OF THESE PLANS.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORÉ, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION

4300 CHERRY CREEK DRIVE SOUTH

Know what's **below**.

ENGINEER'S STATEMENT

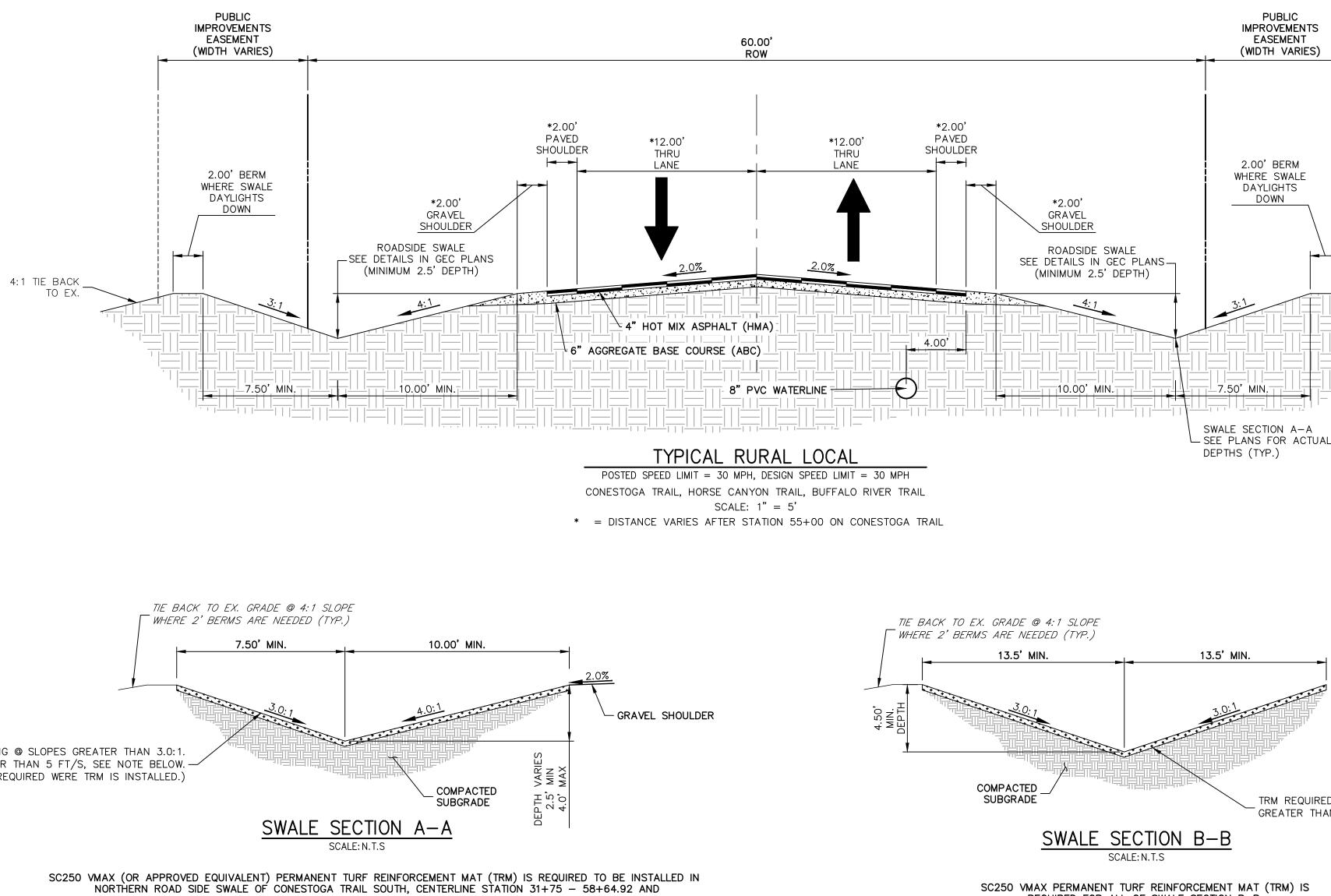
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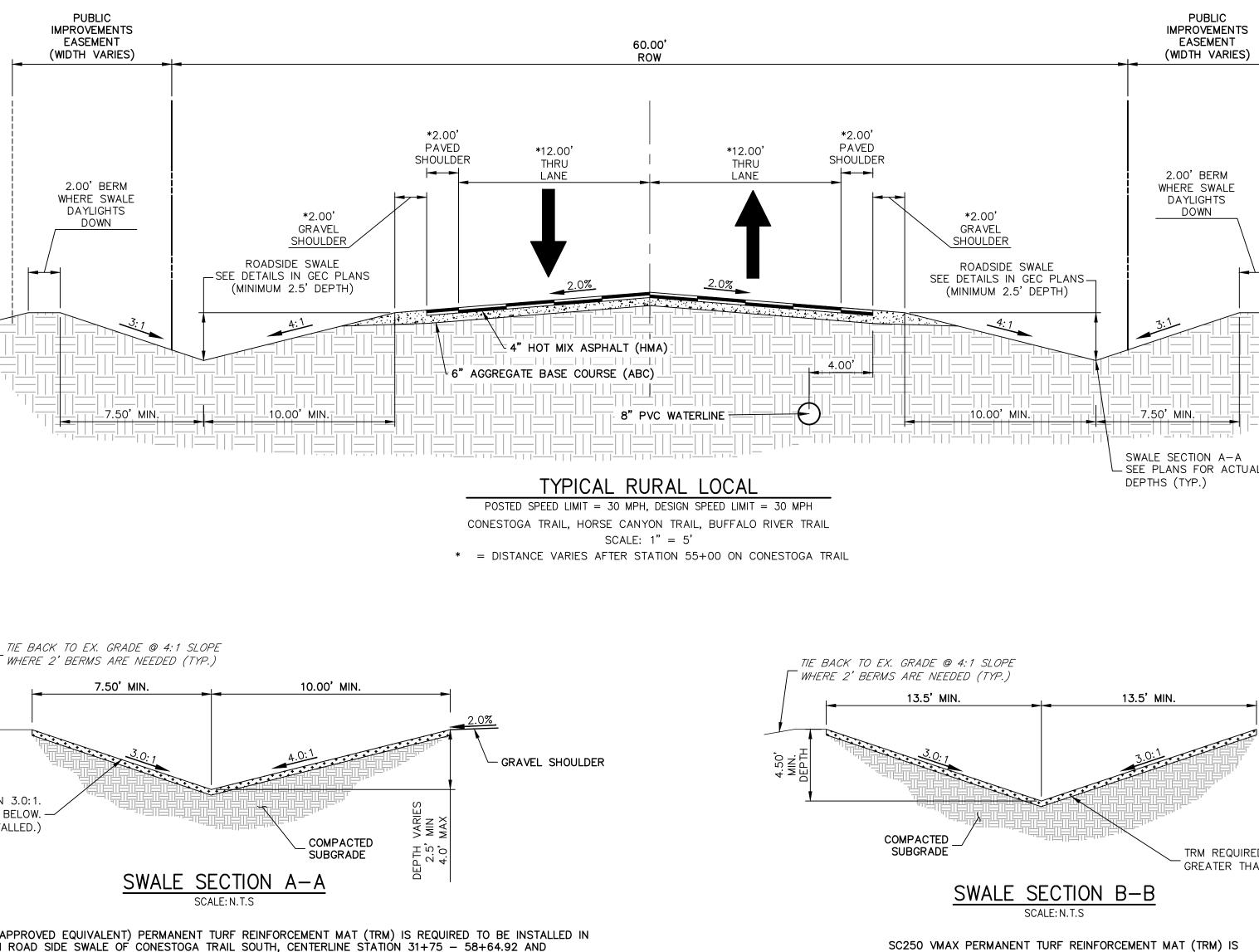
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		THESE DRAWINGS ARE		AUS AGENCIES, UR ENGINEERING APPROVES THEIR USE	ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN		
	PREPARED FOR BRJM, LLC 101 N. CASCADE, SUITE 200 COLORADO SPRINGS, CO 80903 ATTN: BOB IRWIN P~(719)-475-7474						
			A Westrian Commany		Centennial 303-740-9393 • Colorado Springs 719-593-2593	Eart Calline 070-004000 - MMMMironarinaaroom	1 01 001119 210
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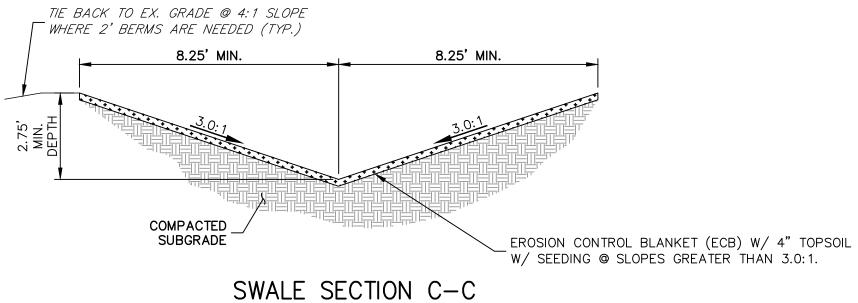
ow what's below.	BRYAN T. LAW, P.E. COLORADO P.E. 25043 FOR AND ON BEHALF OF J	
Call hofers you dia	COLORADO P.E. 25043	
Call before you dig.	FOR AND ON BEHALF OF J	r engineering,‴1





EROSION CONTROL BLANKET (ECB) W/ 4" TOPSOIL W/ SEEDING @ SLOPES GREATER THAN 3.0:1. TRM REQUIRED @ SWALE LOCATIONS WITH VELOCITY GREATER THAN 5 FT/S, SEE NOTE BELOW. ----(ECB IS NOT REQUIRED WERE TRM IS INSTALLED.)

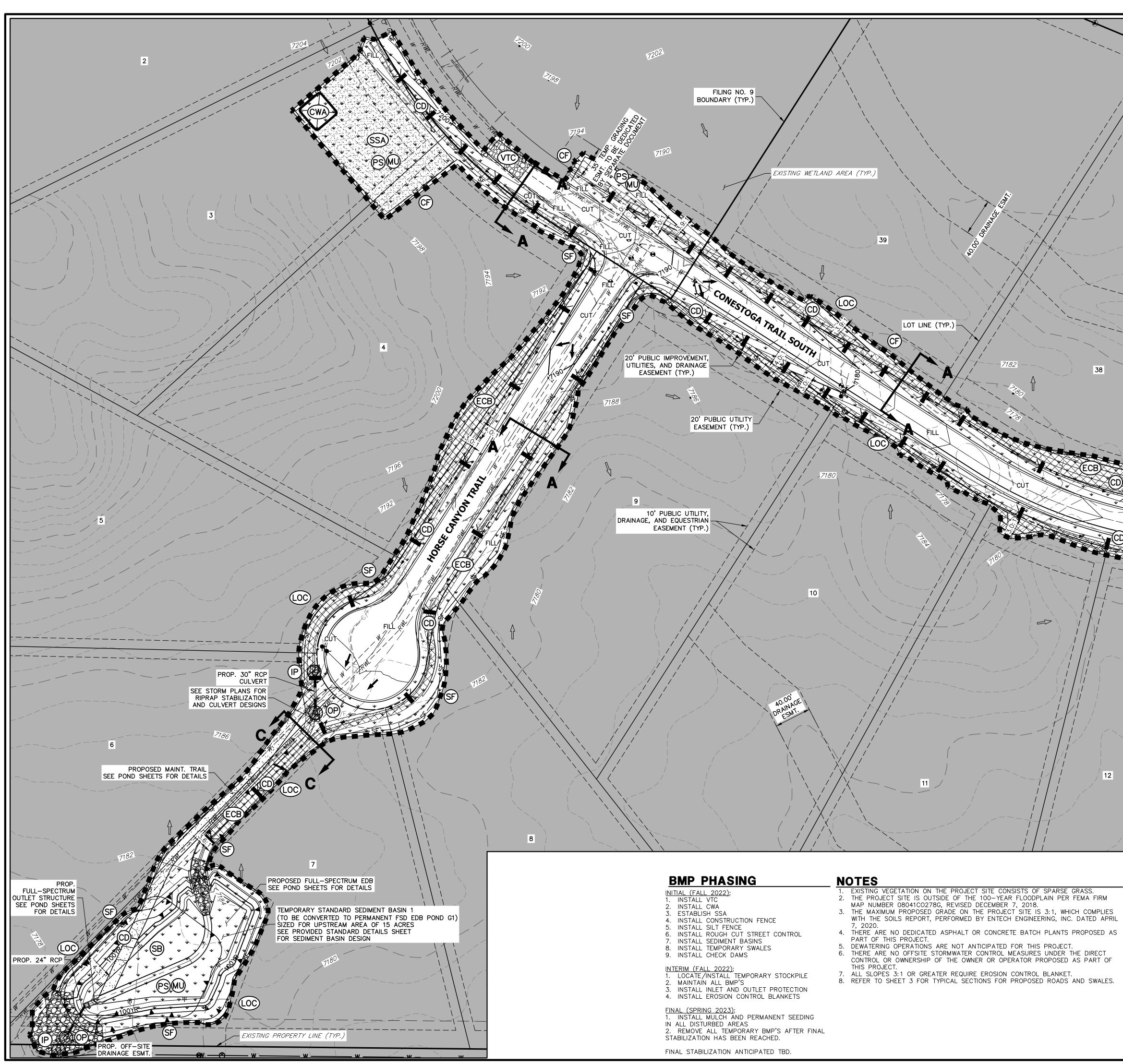
CENTERLINE STATION 58+64.92 - START OF EAST SWALE SECTION B-B. (SEE GEC PLAN FOR LOCATION, TO BE INSTALLED UP TO WETTED SURFACE)

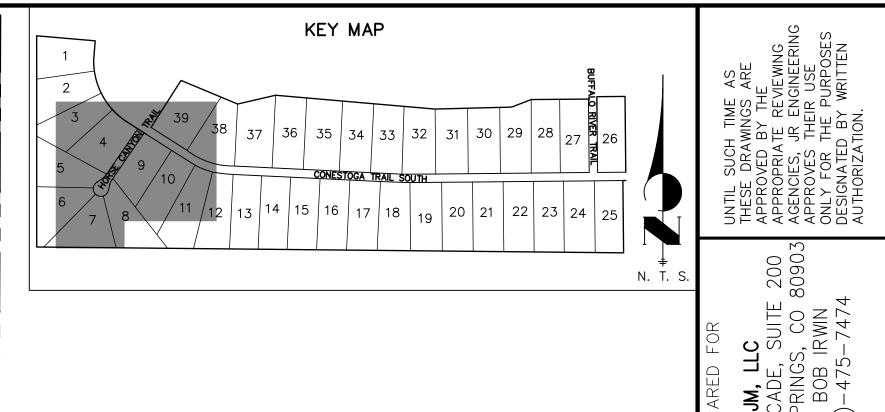


REQUIRED FOR ALL OF SWALE SECTION B-B. (SEE GEC PLAN FOR LOCATION, TO BE INSTALLED UP TO WETTED SURFAC

N.T.S

			Ľ	BRJM, LLC 101 N. CASCADE, SUITE 200 APPROPRIATE REVIEWING	CO 80903 MN)-475-7474	
A 4:1 TIE BACK TO EX.				J-R ENGINEERING		Centennial 303-740-9393 Colorado Springs 719-593-2593 Fort Collins 970-491-9888 www.irenaineering.com	
			BY DATE				
ED @ SWALE LOCATIONS WITH VELOCITY AN 5 FT/S, SEE NOTE BELOW.				SCALE 1"=5 DATE 06/16/22	B	V BY RWK	ED BY
PREI	IGINEER'S STA	DN BEHALF OF JR	LATIGO PRESERVE FILING 9		TYPICAL SECTIONS	DRAWN	CHECKED
Know what's below. Call before you dig.	AN T. LAW, P.E. ORADO P.E. 25043 AND ON BEHALF OF JR	241111 1411111 141111111111111111111111	SHEE			= 1 ⁻ 75.0	

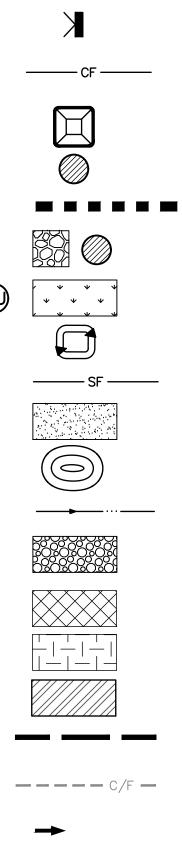




LEGE	END)
STRAW	BALE	B

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STR	AW BALE BARRIER	STB	жж
CHE	CK DAM	CD	Х
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TEM	PORARY SWALE	TSW	_
VEHI	CLE TRACKING CONTROL	VTC	
ERO	SION CONTROL BLANKET	ECB	
TUR	F REINFORCEMENT MAT	TRM	
ROU	GH CUT STREET CONTROL	RCS	
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EXIS	TING DRAINAGE ARROW		

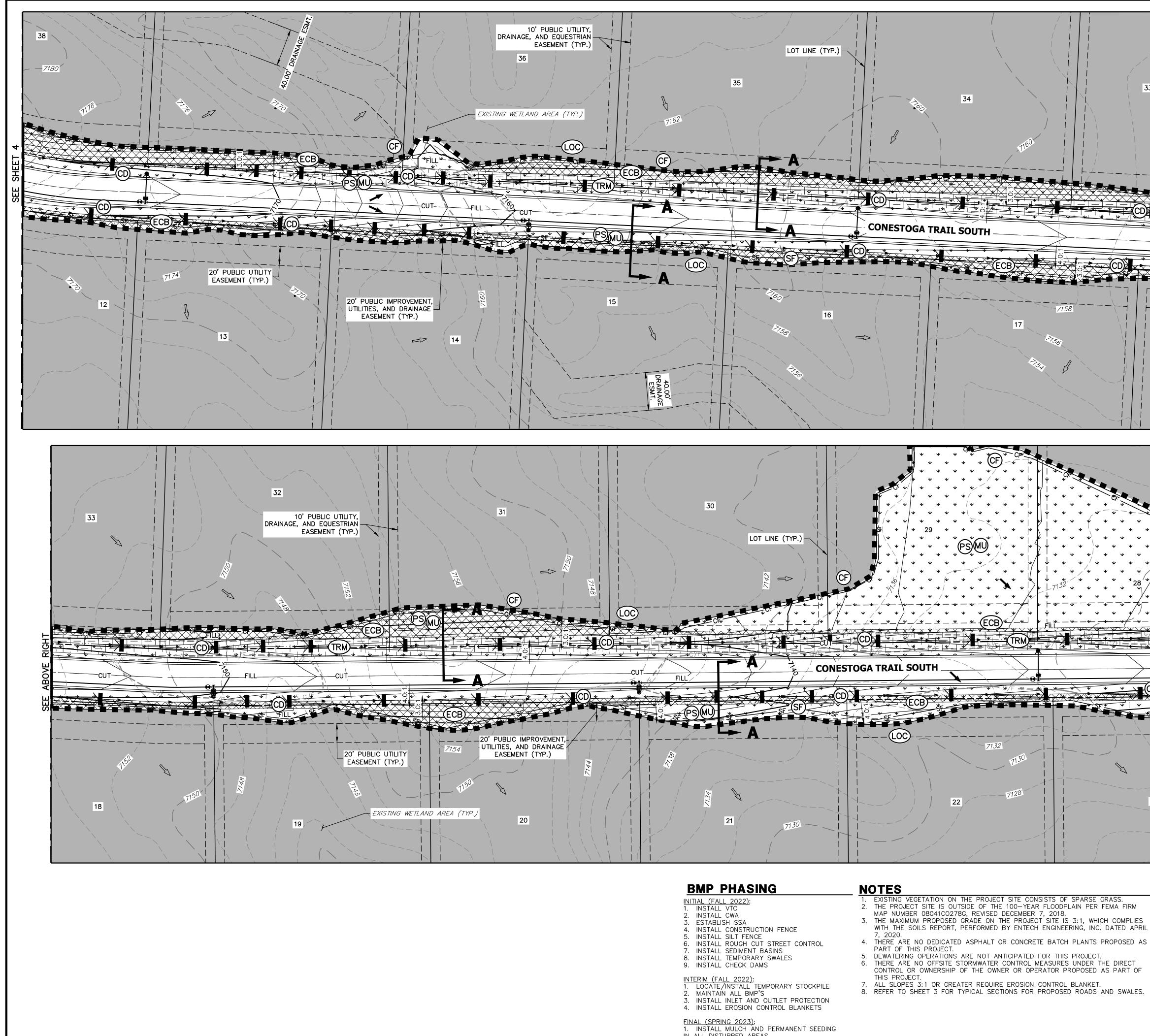


	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.							
<u>.</u>	PREPARED FOR		BRJM, LLC	101 N. CASCADE, SUITE 200	CULURADU SPRINGS, CU 80903 Attn. Por irnini	ATIN: BOB IKWIN D (740) 175 7171	+/+/-C/+-(SI/)~J	
			I'R ENGINEERING	A Wastrian Comnany		Centennial 303-740-9393 • Colorado Sorinos 719-593-2593		rut cuills aro-tai-acco • www.jeigineeii.ig.cuit
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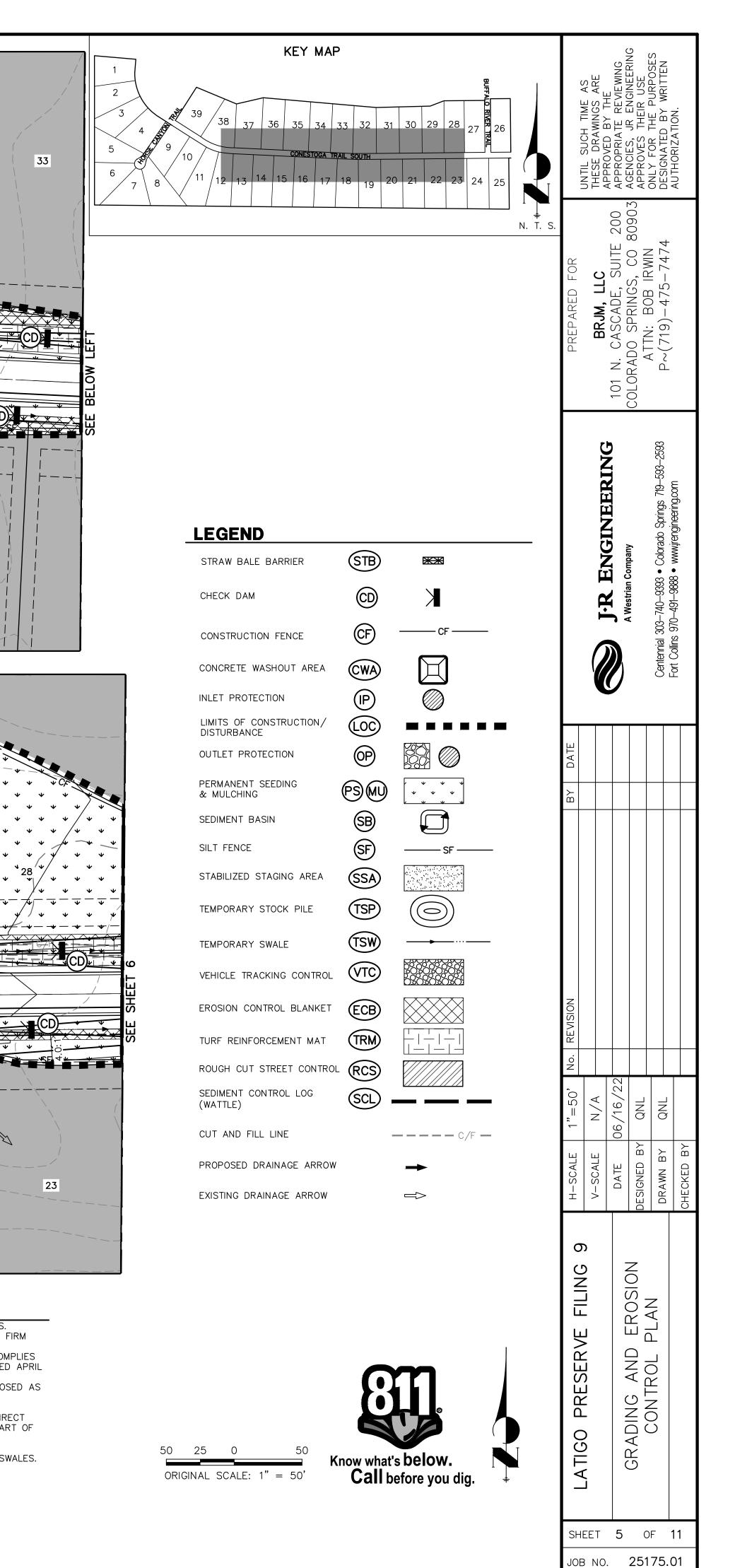
50 25 0 50 ORIGINAL SCALE: 1" = 50'

Know what's **below**. Call before you dig.



IN ALL DISTURBED AREAS 2. REMOVE ALL TEMPORARY BMP'S AFTER FINAL STABILIZATION HAS BEEN REACHED.

FINAL STABILIZATION ANTICIPATED TBD.

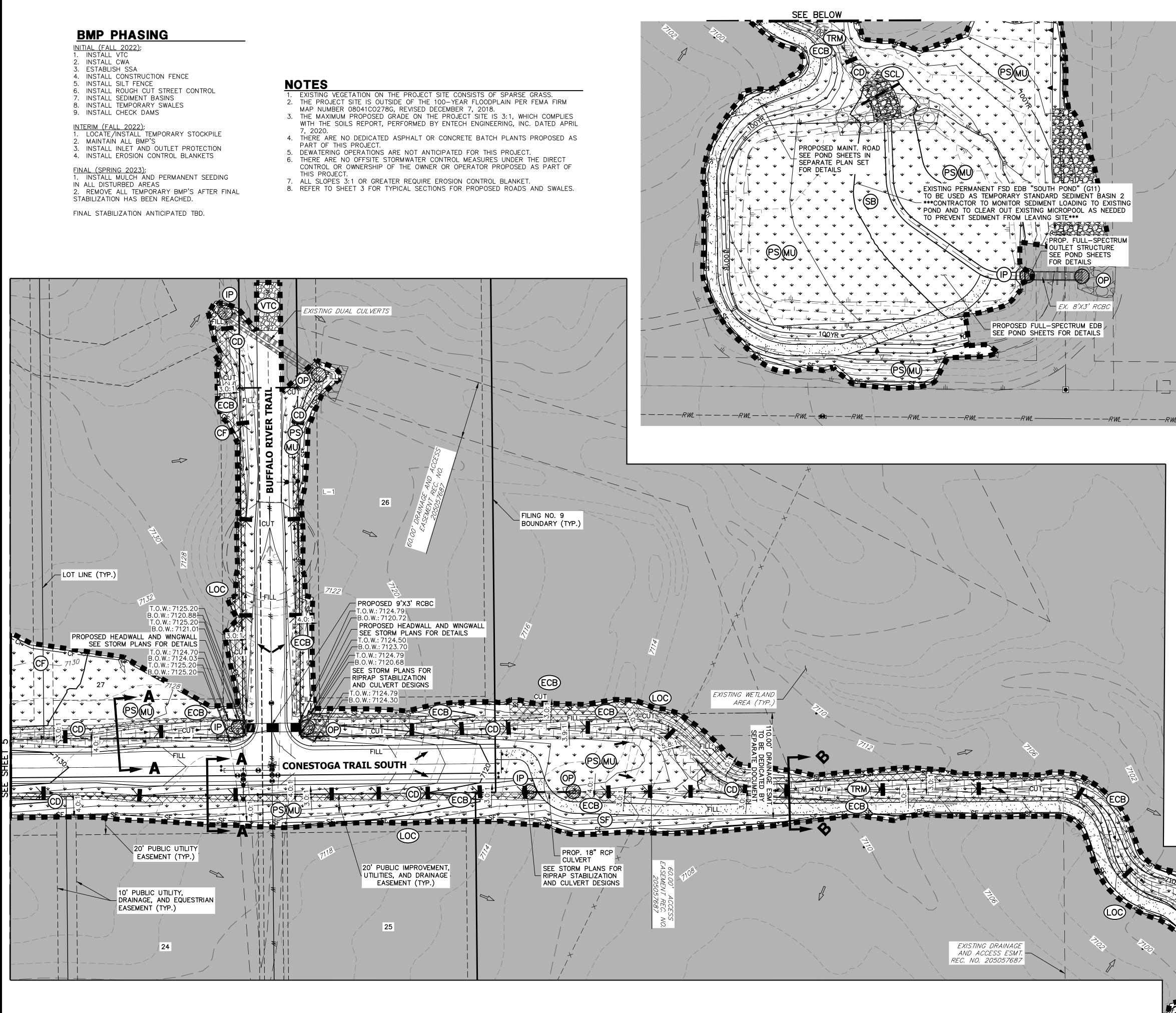


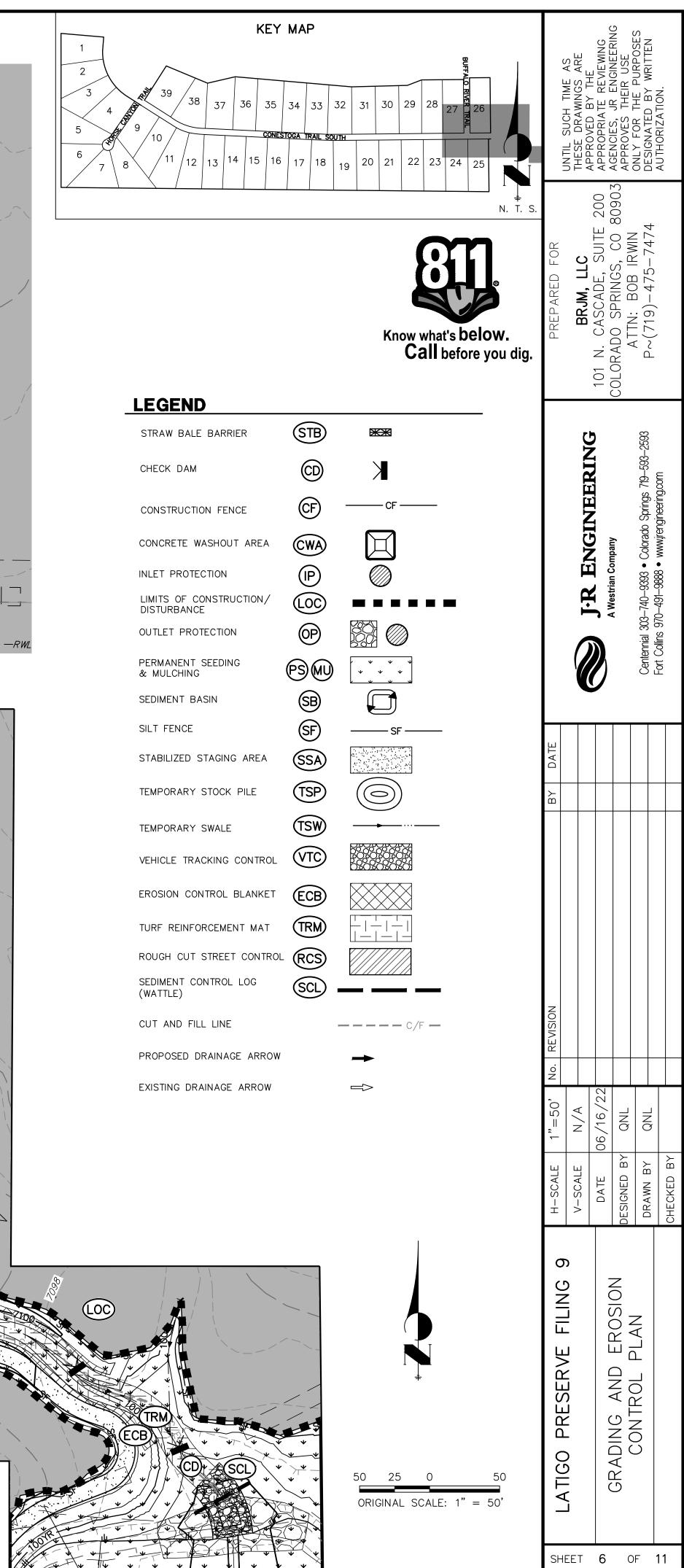


- ESTABLISH SSA
- INSTALL SILT FENCE

- INSTALL INLET AND OUTLET PROTECTION

- MAP NUMBER 08041C0278G, REVISED DECEMBER 7, 2018.
- 7, 2020.
- PART OF THIS PROJECT.





SEE ABOVE

JOB NO. 25175.01

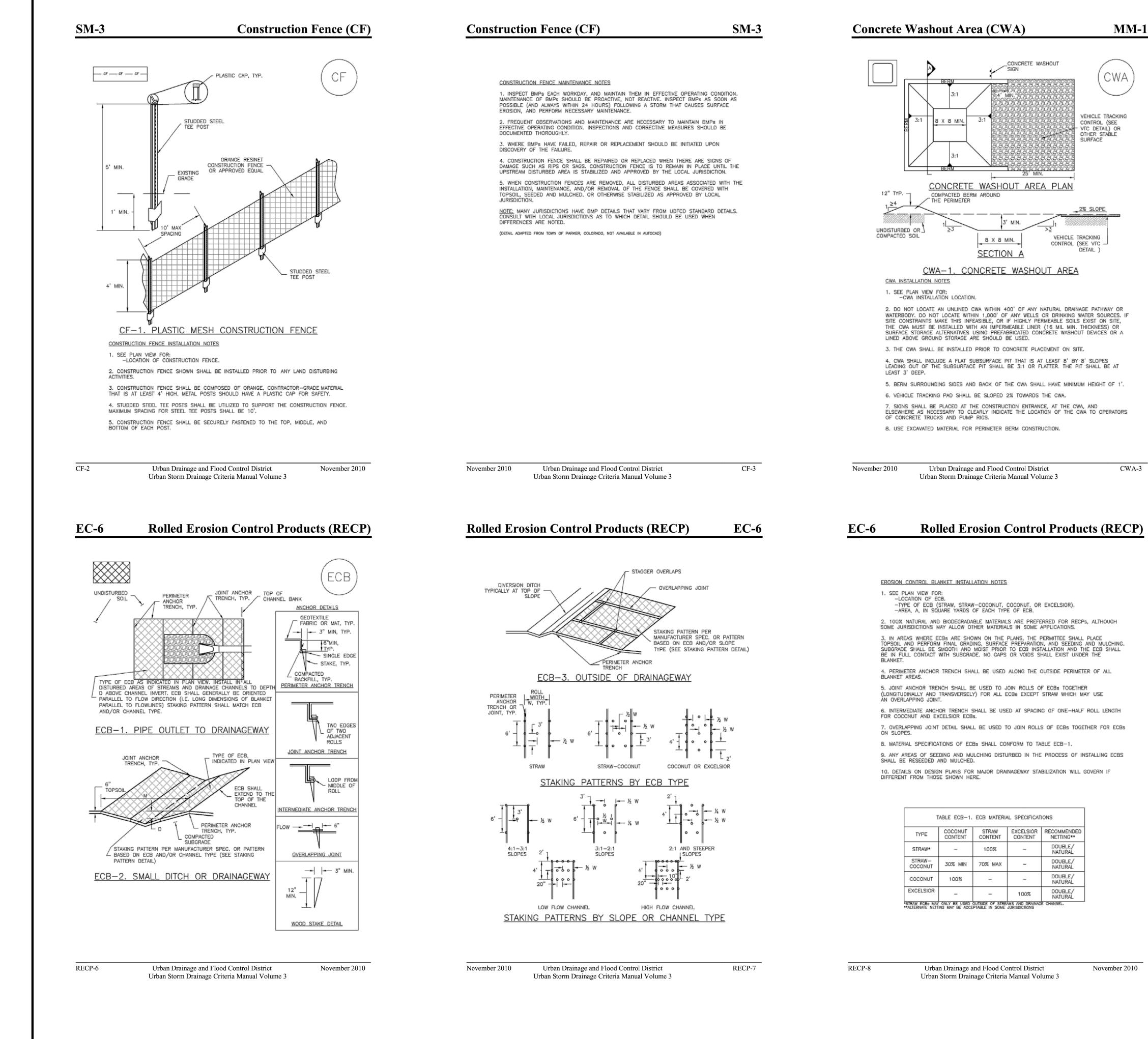
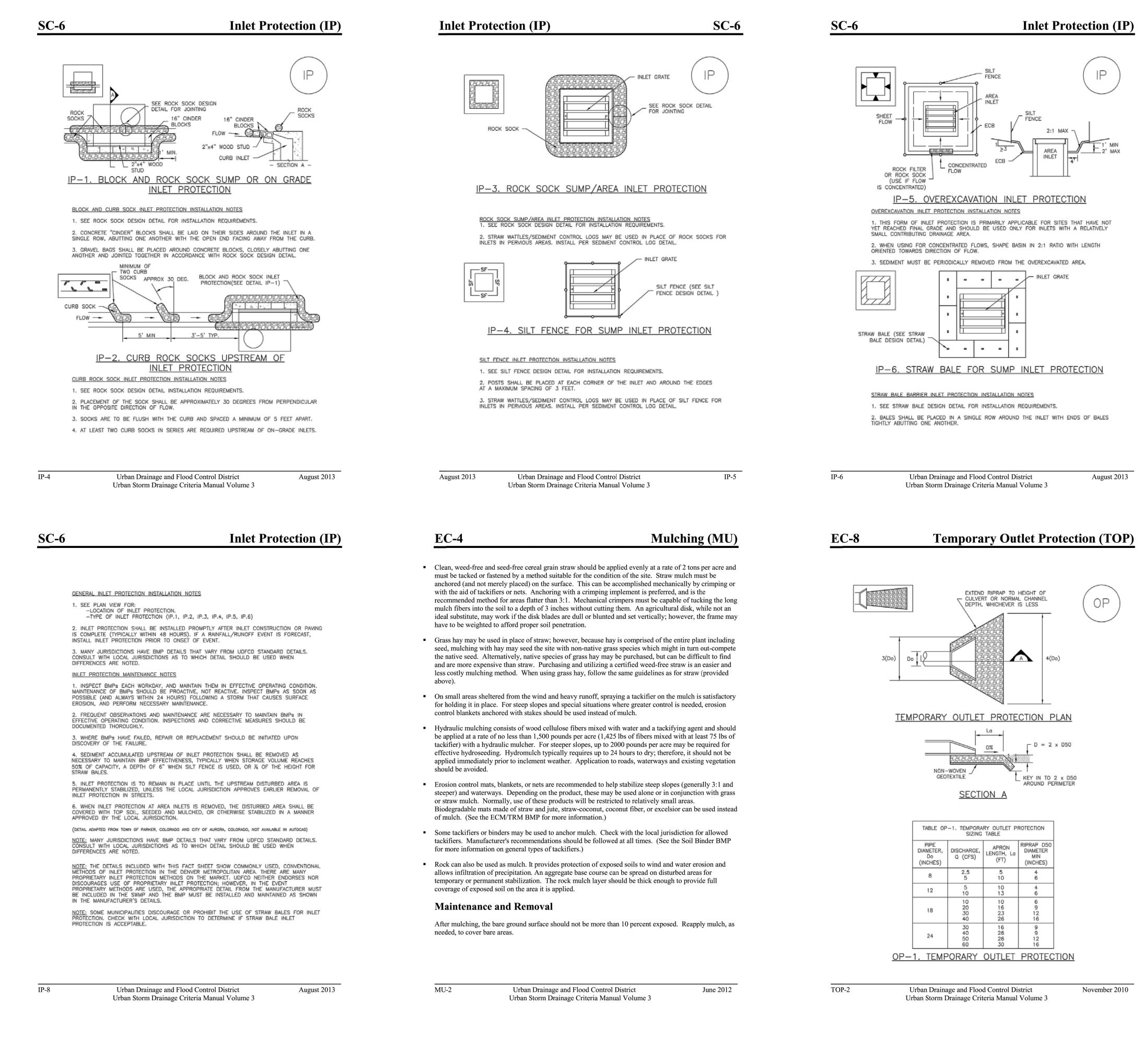
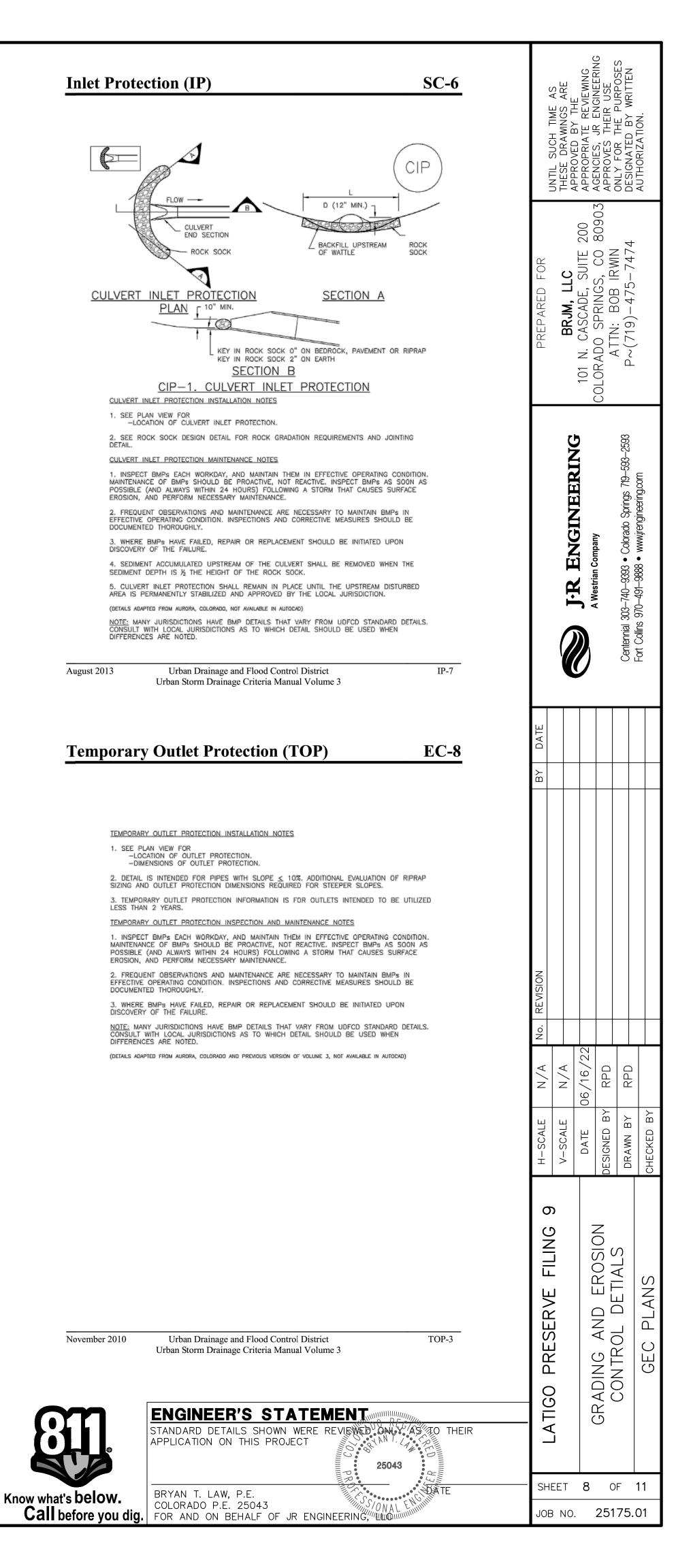
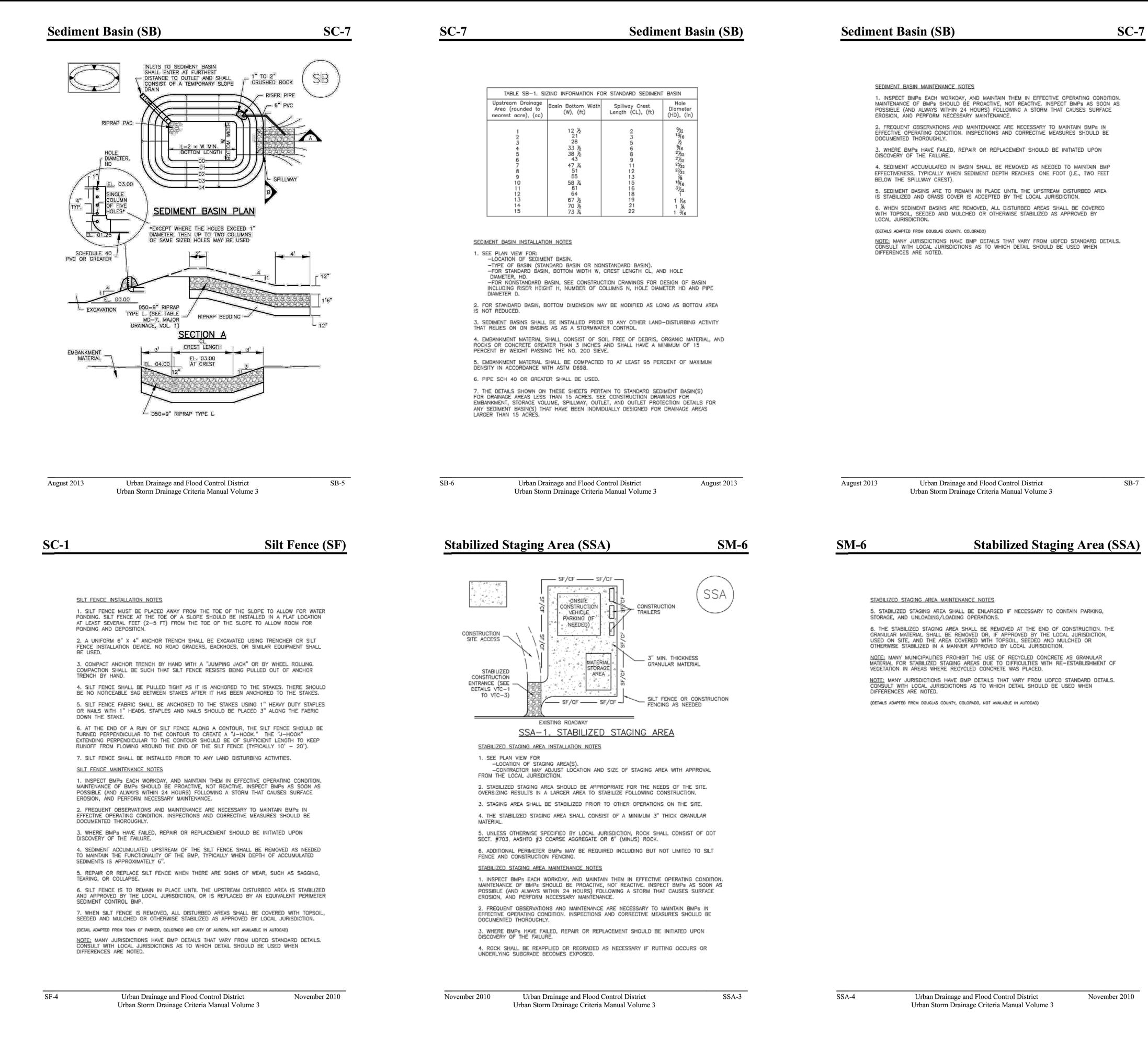


TABLE ECB-1. ECB MATERIAL SPECIFICATIONS						
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**		
STRAW*	_	100%	-	DOUBLE/ NATURAL		
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL		
COCONUT	100%	-	-	DOUBLE/ NATURAL		
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL		

MAINTENANCE OF POSSIBLE (AND)	Concrete Washout Area (CWA CE NOTES s EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE ERFORM NECESSARY MAINTENANCE.	<u>.)</u>	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE		DESIGNATED BY WRITTEN
EFFECTIVE OPER/ DOCUMENTED TH 3. WHERE BMPs DISCOVERY OF T 4. THE CWA SHA CAPACITY FOR C REMOVED ONCE 5. CONCRETE WA IN THE SUBSURF CONTAINER AND 6. THE CWA SHA 7. WHEN THE CV MULCH OR OTHE (DETAIL ADAPTED FROM NOTE: MANY JUR	HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON HE FAILURE. ALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN ONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE THE MATERIALS HAVE REACHED A DEPTH OF 2'. ASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS FACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT DISPOSED OF PROPERLY. ALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. NA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND REWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. M DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). RISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. OCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN		PREPARED FOR BRJM, LLC	TUT N. CASCADE, SUITE ZUU COLORADO SPRINGS, CO 80903 ATTN: ROB IRWIN	(719)-475
			J.R ENGINEERING	an Company	Centennial 303-740-9393 • Colorado Springs 719-593-2593
	Urban Drainage and Flood Control District November 2010 Jrban Storm Drainage Criteria Manual Volume 3		ATE		\top
1. INSPECT BM MAINTENANCE (POSSIBLE (AND EROSION, AND 2. FREQUENT (EFFECTIVE OPE DOCUMENTED T 3. WHERE BMP DISCOVERY OF 4. ECBs SHALL REMOVED BY T 5. ANY ECB PI REINSTALLED. A A VOID UNDER RESEEDED AND NOTE: MANY JU CONSULT WITH DIFFERENCES A	Ps HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON THE FAILURE. . BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE HE LOCAL JURISDICTION. ULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR NAY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, MULCHED AND THE ECB REINSTALLED. JRISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN		H-SCALE N/A V-SCALE N/A	DATE 06/16/22 DESIGNED BY RPD	DRAWN BY RPD
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November 2010 U	Urban Drainage and Flood Control District RECP- Irban Storm Drainage Criteria Manual Volume 3	.9	RESI	GRADING A	

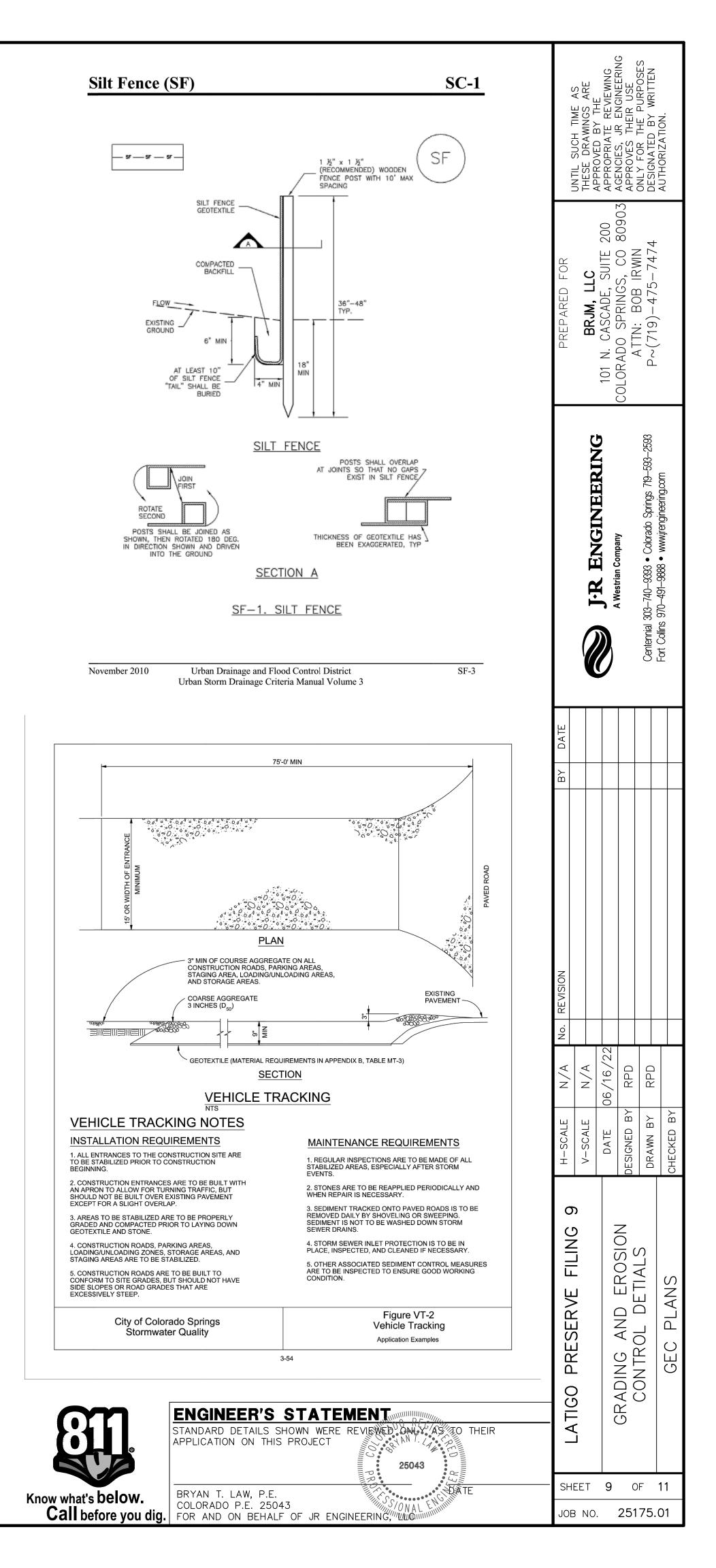






Sediment Basin	(SB)
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ZING INFORMATION FO	OR STANDARD SEDIMENT	BASIN
Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
12 ½ 21 28 33 ½ 43 47 ¼ 51 55 58 ¼ 61 64 67 ½ 70 ½ 73 ¼	2 3 5 6 8 9 11 12 15 16 18 19 21 22	952 176 252 2552 2552 2552 2552 2552 2552 255



Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species ^a (Common name)	Growth Season ^b	Pounds of Pure Live Seed (PLS)/acre [°]	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	1/2
5. Millet	Warm	3 - 15	1/2 - 3/4
6. Sudangrass	Warm	5–10	1/2 - 3/4
7. Sorghum	Warm	5–10	1/2 - 3/4
8. Winter wheat	Cool	20-35	1 - 2
9. Winter barley	Cool	20–35	1 - 2
10. Winter rye	Cool	20–35	1 - 2
11. Triticale	Cool	25–40	1 - 2
^a Successful seeding of an usually produce enough of wind and water erosion f is not disturbed or mowe	dead-plant resider an additionation	due to provide protect Il year. This assumes	ion from
Hydraulic seeding may b			-

steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

^b See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

Common^a

Name Alakali Soil Seed Mix Alkali sacaton Sporob Basin wildrye Elymus Sodar streambank wheatgrass Agropy Jose tall wheatgrass Agropy Arriba western wheatgrass Agropy Total Fertile Loamy Soil Seed Mix Agropy Ephriam crested wheatgrass Ephria Festuca Dural hard fescue Bromus Lincoln smooth brome 'Lincoln Sodar streambank wheatgrass Agropyr Arriba western wheatgrass Agropy Total High Water Table Soil Seed Mix Meadow foxtail Alopecı Redtop Agrostis Phalari Reed canarygrass Bromus 'Lincoln Lincoln smooth brome Panicun Pathfinder switchgrass 'Pathfine Agropy 'Alkar' Alkar tall wheatgrass Tota Transition Turf Seed Mix^c Poa con Ruebens Canadian bluegrass Dural hard fescue Festuca Lolium Citation perennial ryegrass Bromus Lincoln smooth brome 'Lincolr Total

June 2012

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

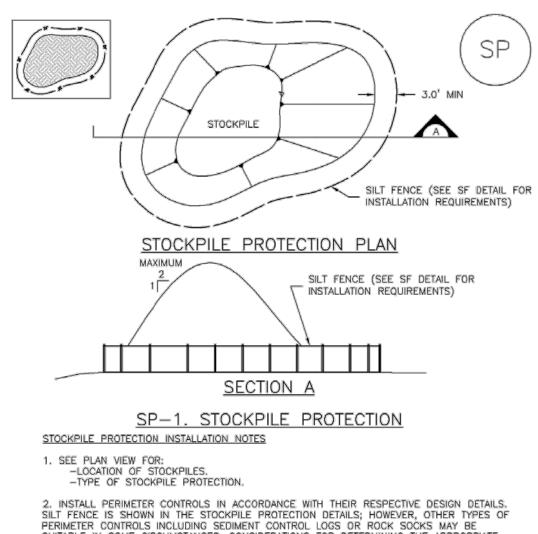
TS/PS-4

MM-2

Urban Storm Drainage Criteria Manual Volume 3

Stockpile Management (SP)





SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

November 2010

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

SP-4

DIFFERENCES ARE NOTED.

Temporary and Permanent Seeding (TS/PS)

Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre
olus airoides	Cool	Bunch	1,750,000	0.25
cinereus	Cool	Bunch	165,000	2.5
ron riparium 'Sodar'	Cool	Sod	170,000	2.5
ron elongatum 'Jose'	Cool	Bunch	79,000	7.0
ron smithii 'Arriba'	Cool	Sod	110,000	5.5
				17.75
			,	
ron cristatum m'	Cool	Sod	175,000	2.0
ovina 'duriuscula'	Cool	Bunch	565,000	1.0
inermis leyss 1'	Cool	Sod	130,000	3.0
ron riparium 'Sodar'	Cool	Sod	170,000	2.5
ron smithii 'Arriba'	Cool	Sod	110,000	7.0
				15.5
urus pratensis	Cool	Sod	900,000	0.5
s alba	Warm	Open sod	5,000,000	0.25
s arundinacea	Cool	Sod	68,000	0.5
inermis leyss 1'	Cool	Sod	130,000	3.0
n virgatum nder'	Warm	Sod	389,000	1.0
ron elongatum	Cool	Bunch	79,000	5.5
				10.75
npressa 'Ruebens'	Cool	Sod	2,500,000	0.5
ovina 'duriuscula'	Cool	Bunch	565,000	1.0
perenne 'Citation'	Cool	Sod	247,000	3.0
inermis leyss '	Cool	Sod	130,000	3.0
				7.5

Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre	
Sandy Soil Seed Mix			·			
Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000	0.5	
Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000	1.0	
Prairie sandreed	Calamovilfa longifolia	Warm	Open sod	274,000	1.0	
Sand dropseed	Sporobolus cryptandrus	Cool	Bunch	5,298,000	0.25	
Vaughn sideoats grama	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0	
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5	
Total					10.25	
Heavy Clay, Rocky Foothill Seed	Mix					
Ephriam crested wheatgrass ^d	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	1.5	
Oahe Intermediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000	5.5	
Vaughn sideoats grama ^e	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0	
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0	
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5	
Total					17.5	
doubled if seed is broadcast and through hydraulic seeding. Hyd	nd rates are based on drill seedin should be increased by 50 percen raulic seeding may be substituted ulic mulching should be done as a	t if the seeding for drilling or	g is done using a line where slopes a	Brillion Drill o	r is applied	
^b See Table TS/PS-3 for seeding d	ates.					
^c If site is to be irrigated, the transition turf seed rates should be doubled.						

Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.

Urban Drainage and Flood Control District

June 2012

Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

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

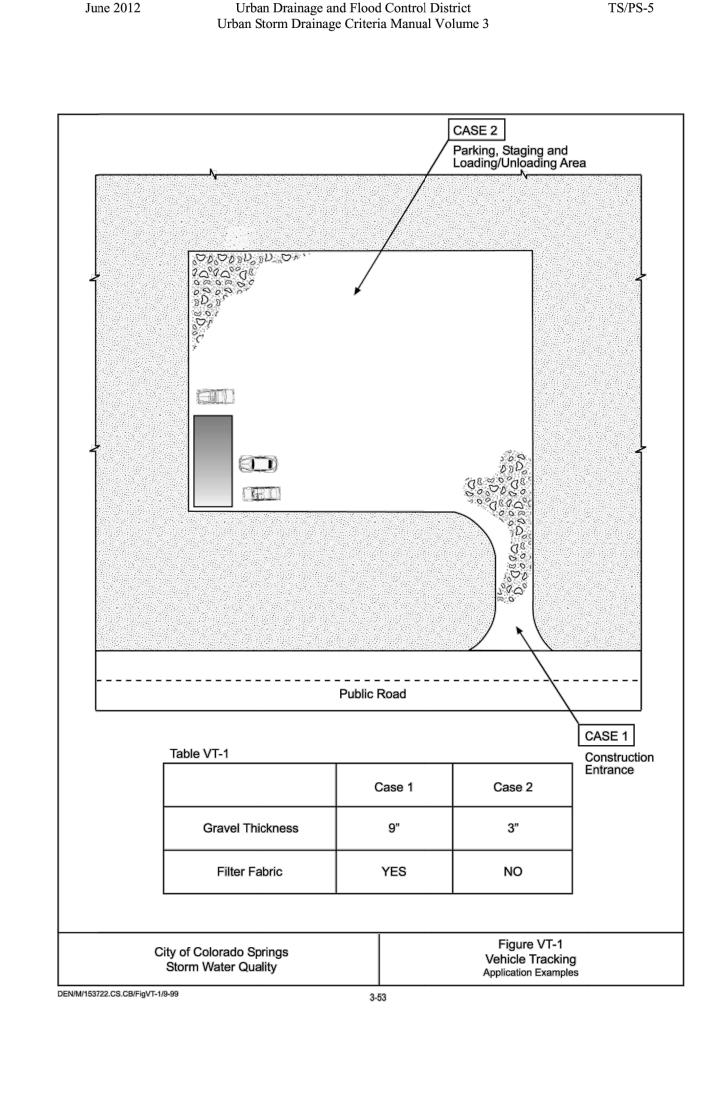
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

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

STOCKPILE PROTECTION MAINTENANCE NOTES 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED. (DETAILS ADAPTED FROM 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



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Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

	(Numbers in	Annual Grasses Perennia (Numbers in table reference species in Table TS/PS-1)		ll Grasses	
Seeding Dates	Warm	Cool	Warm	Cool	
January 1–March 15			✓	√	
March 16–April 30	4	1,2,3	✓	✓	
May 1–May 15	4		✓		
May 16–June 30	4,5,6,7				
July 1–July 15	5,6,7				
July 16–August 31					
September 1-September 30		8,9,10,11			
October 1–December 31			\checkmark	✓	

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

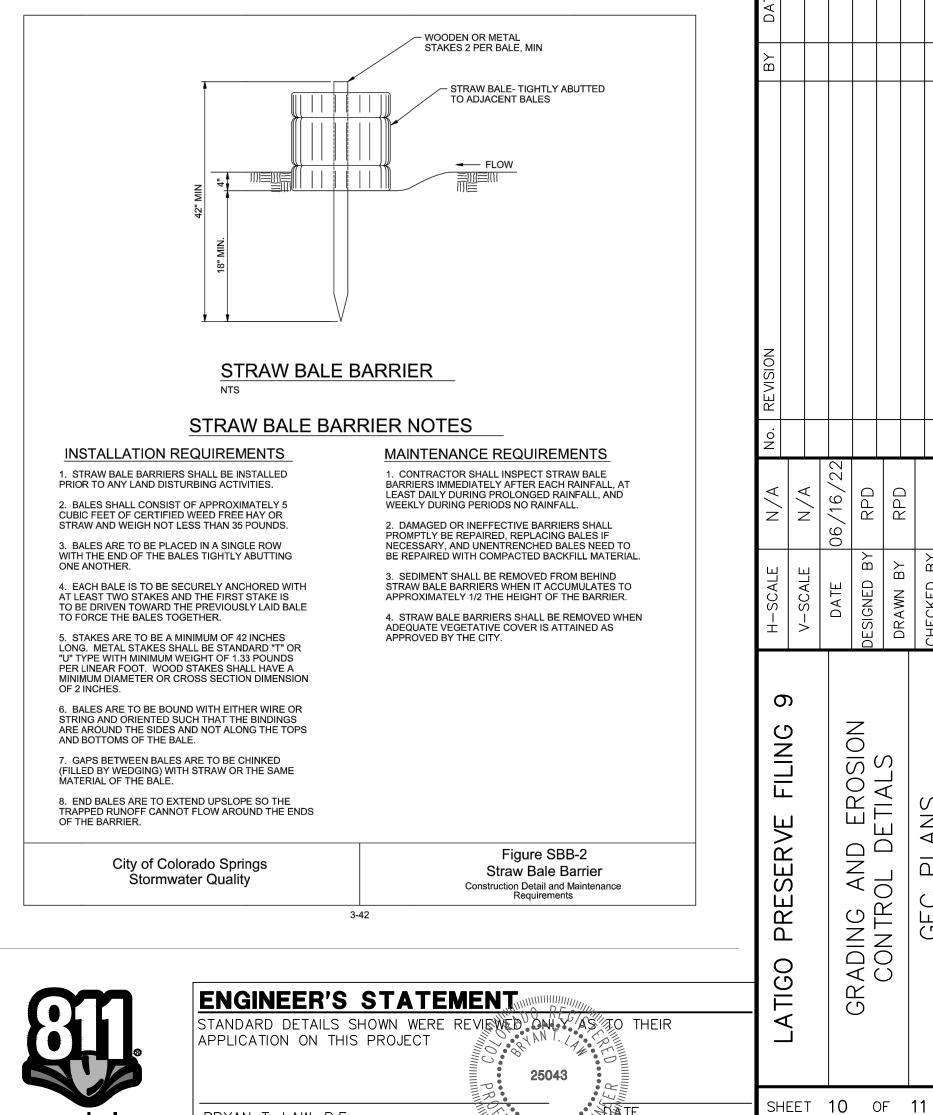
Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

TS/PS-6

Know what's **below**.

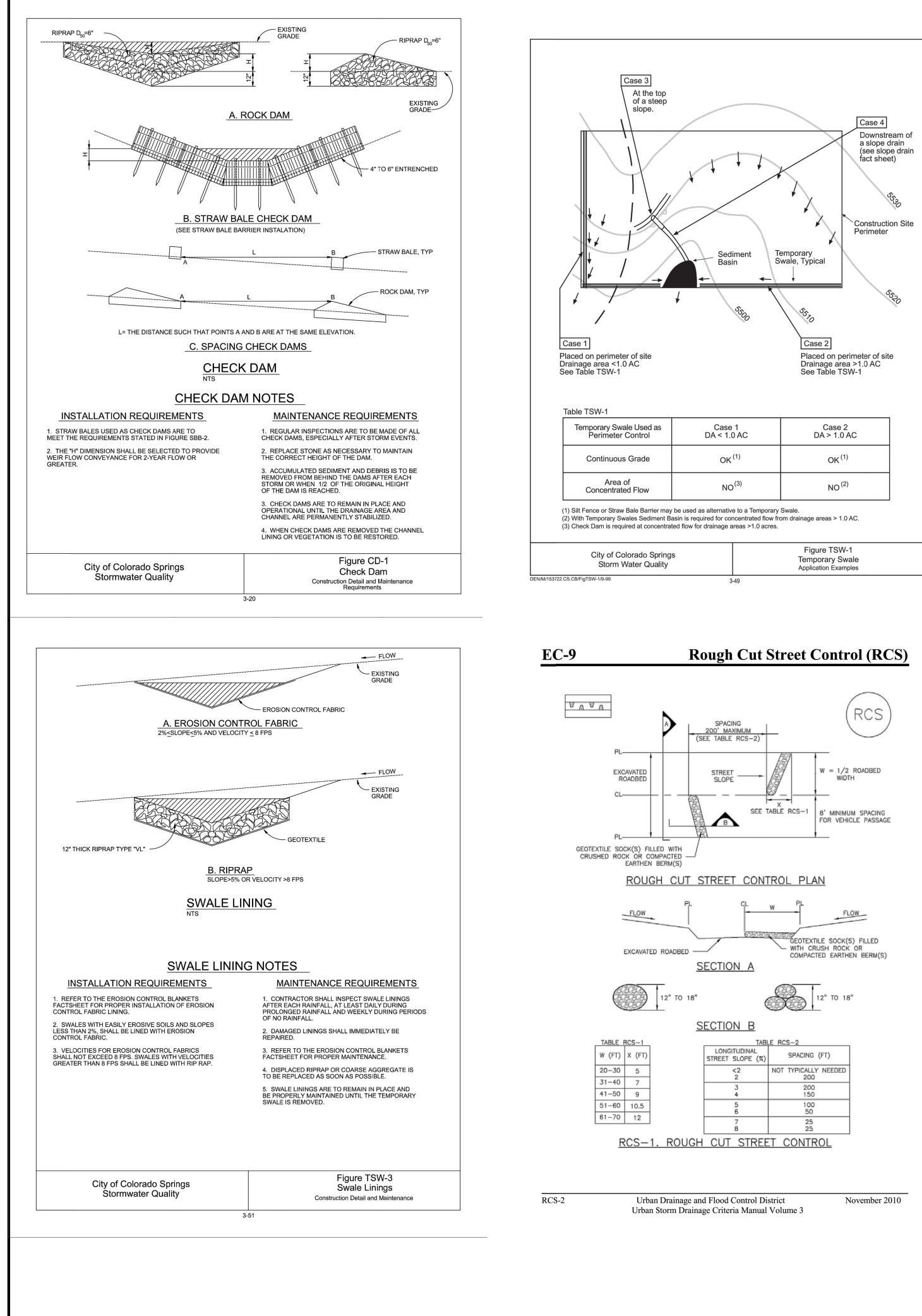
Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012



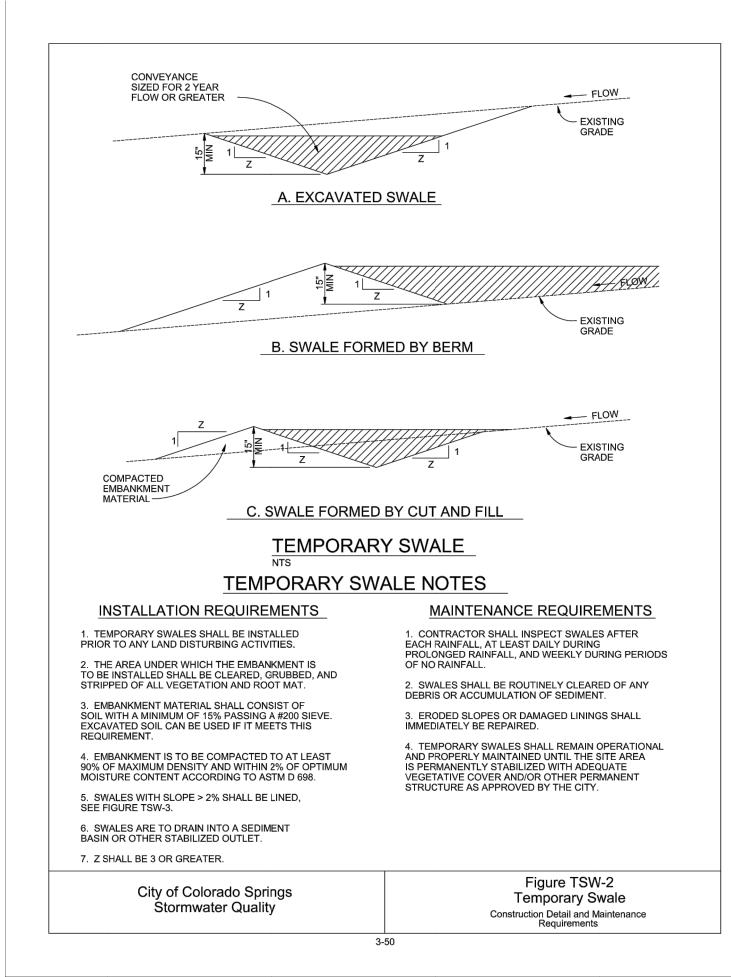
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BRYAN T. LAW, P.E. COLORADO P.E. 25043 Call before you dig. For and on BEHALF OF JR ENGINEERING,



	TABL	<u>E RCS-2</u>
	LONGITUDINAL STREET SLOPE (%)	SPACING (FT)
	<2 2	NOT TYPICALLY NEEDED 200
	3 4	200 150
	5 6	100 50
	7 8	25 25
лісн		



Rough Cut Street Control (RCS)

EC-9

ROUGH_CUT_STREET_CONTROL_INSTALLATION_NOTES

1. SEE PLAN VIEW FOR -LOCATION OF ROUGH CUT STREET CONTROL MEASURES.

2. ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION ROADS THAT HAVE NOT RECEIVED ROAD BASE.

ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

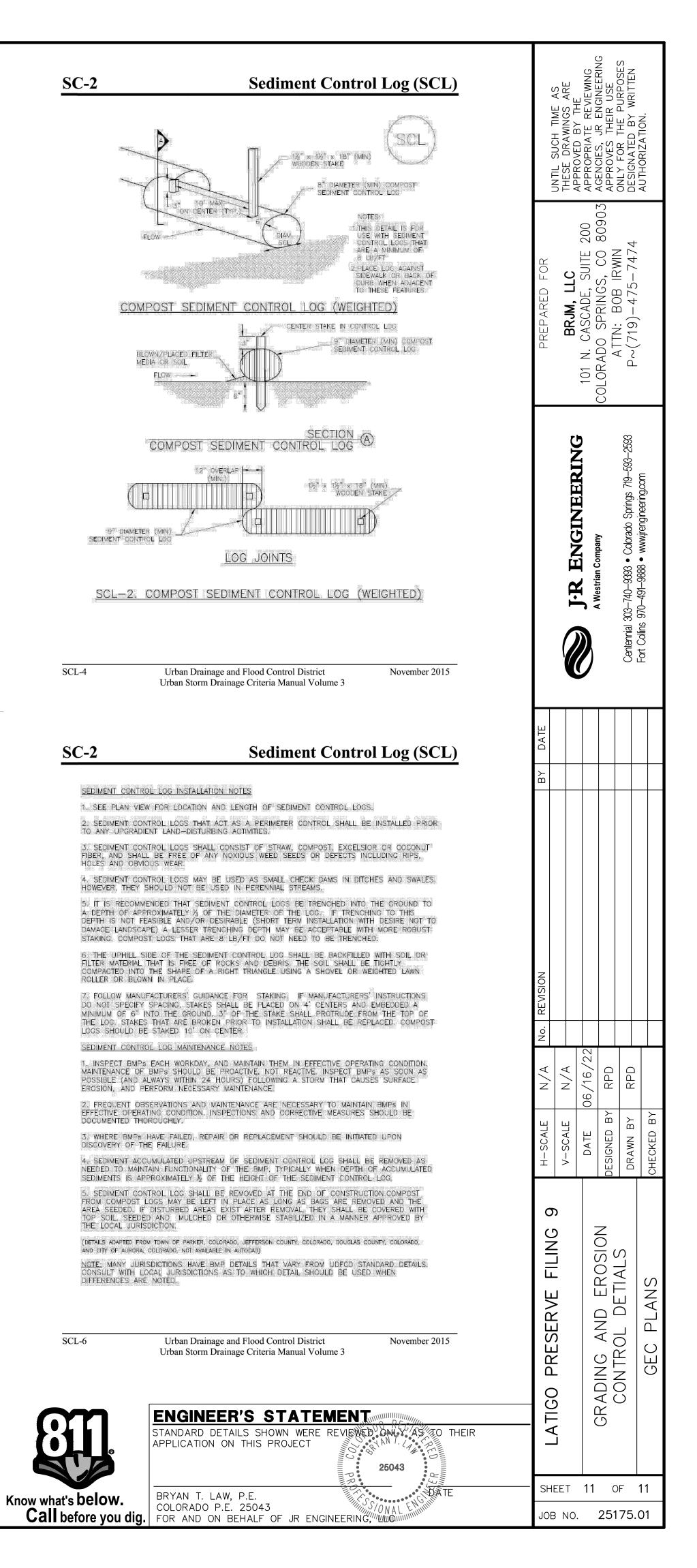
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NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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APPENDIX D – INSPECTION REPORT TEMPLATE

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	(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 insp	ection
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	
Are there control measures requiring maintenance?			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)
o 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.L.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	