JUDGE ORR ROAD RV PARK & STORAGE DEVELOPMENT

GRADING, EROSION CONTROL AND STORMWATER QUALITY REPORT (SWMP)

Prepared For:
Prairie Stone, LLC
9476 Dakota Dunes Lane
Peyton, CO 80831-4138

Prepared By:
Associated Design Professionals, Inc.
3520 Austin Bluffs Parkway, Suite 102
Colorado Springs, CO 80918
719.266.5212

ADP Project No. 160301 June 14, 2019

PCD Project #PPR-16-040



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PROJECT DESCRIPTION

General Location

The Judge Orr Road RV Park & Storage project consists of 39.9 acres located along Judge Orr Road just east of US 24 and approximately two miles northeast of Falcon, Colorado. The project is located within the previously approved Meadowlake Commons Master Plan area. The site is further described as being located in central El Paso County within the Southwest Quarter of Section 33, Township 12 South, Range 64 West of the 6th Principal Meridian, El Paso County, Colorado.

The proposed development lies within the Haegler Ranch Drainage Basin Planning Study area, prepared by URS Corporation in 2007. It is also included in the Meadowlake Commons MDDP, prepared by Springs Engineering in 2008. For this report, the existing flows for this project utilize the findings of the Meadowlake Commons MDDP and flows into the Middle Fork of Black Squirrel Creek.

SITE DESCRIPTION

Existing Site Conditions

The existing site is mostly undeveloped with a residence and a barn. The remainder of the site is vacant and covered with rangeland grasses with about 90% coverage. The existing impervious value is approximately 1.4%. The site does not contain any springs or irrigation systems.

Soils

The Soil Conservation Service (NRCS) soil survey for El Paso County has identified the soil type in this study area as follows:

Map Symbol No.

Soil Name

Hydrologic Soil Group

19

Columbine Gravelly Sandy Loam

Α

The soil erosion potential of this soil is slight to moderate.

EROSION AND SEDIMENT CONTROL CRITERIA

Areas and Volumes

The proposed site development shall require the construction of approximately 7,150 lineal feet of private roadways, 120 RV pads, gravel RV storage area and associated utilities. The site will be overlot graded with two (2) connections to Judge Orr Road. This will increase the estimated imperviousness to 45.2% from 1.4%.

Improvements shall include the construction of a detention/water quality basin on the property to account for the areas of the most disturbances. The total area of disturbance shall be about 30 acres. Construction activities shall consist of clearing, grubbing and grading for the new development. Approximately 60,000 cubic yards of cut and fill shall be moved. Disturbed and exposed areas of the site shall be seeded and mulched if construction activities cease for more than 30 consecutive days. The site shall also require the sedimentation basins listed below to handle the potential erosion.

Erosion and Sediment Control Measures

Erosion control and sediment prevention measures describe a wide range of management procedures, schedules of activities, prohibitions on practices, and other best management practices (BMP). BMPs also include operating procedures, treatment requirements and practices to control site runoff, drainage from materials storage, spills or leaks. Structural practices for this site include silt fences, straw bales, inlet protection, and vehicular tracking control. Erosion matting may be required on unstable slopes, if directed by the engineer. General descriptions of the BMPs to be used during the construction of this project are listed below. See the Erosion Control Plans for the specific type and location of each erosion and sediment control device required for this project.

Initial Stage

These BMPs shall be installed at the outset of construction, prior to the initial pre-construction meeting and any other land-disturbing activities. Initial controls are to be placed on existing grades but shall be based in part on proposed grading operations. The initial stage includes clearing, grubbing, overlot grading, and utility and other construction prior to paving operations.

Temporary Stabilization

Disturbed areas will be temporarily stabilized as soon as construction activities are completed. Seeding will be applied to completed areas within 14 days of completion.

Vehicle Tracking Control

A vehicle tracking control device will be installed at the construction entrance where the construction entrance intersects an existing paved private roadway.

Silt Fence

Prior to the start of construction, silt fence will be installed along the perimeter of all disturbed areas that are within the project site. Silt fence shall be placed as indicated on the plan drawing. Sediment shall be removed when depth exceeds one-fourth the height of the silt fence. The engineer may require additional silt fence as necessary to retard sediment transport on or off the project site.

Outlet Protection

Outlet protection at the water quality basin on the site will be provided to prevent erosion and scour of the water quality basin area by the concentrated flows gathered by the storm sewer system both during and after construction.

Non-Structural Practices

Upon completion of the grading, temporary seeding and mulching will be applied to all disturbed areas on and adjacent to the site. All seeding, fertilizers, and mulching shall conform to *El Paso County Engineering Criteria Manual*.

Construction Timing

The site will be graded to accommodate the proposed redevelopment items delineated previously. This project will be constructed in a single phase. Once construction begins, it will continue until the project is complete; therefore, construction phasing will not be necessary. The construction process will consist of grading (excavation and fill) activities, installation of utilities, paving, concrete placement, landscaping, and building construction. The general sequence for major construction activities will be as follows:

Establish limits of disturbance

- Install vehicle tracking control (VTC)
- Install silt fence
- Install temporary sedimentation basin
- Clear and grub the site
- Excavation and fill placement
- Install underground utilities
- Install inlet and outlet protection BMPs
- RV pad construction
- Paving
- Install permanent landscaping and irrigation
- Remove temporary sediment pond and reshape for water quality basin
- Remove BMPs

To be fully effective, erosion and sediment control measures must be installed and phased with the construction activities. The vehicular tracking control device shall be installed at the entrance prior to the mobilization of construction equipment on-site. Prior to the clearing and grubbing of the entire construction area, localized clearing shall be performed for the placement of perimeter erosion control measures. Site clearing shall commence only after the perimeter erosion control measures are in place. Erosion control devices must be in place to reduce the potential of eroded excavated material entering the storm drainage system. Protection devices shall be placed during grading activities, in the appropriate areas, as indicated on the plan drawing that is located in the Appendix.

Anticipated starting and competition date: June 1, 2019 to October 1, 2019

Expected date on which the final stabilization will be completed: October 1, 2019

Permanent Stabilization

Disturbed areas shall be permanently stabilized as soon as construction activities are completed. Viable vegetative cover shall be established no later than one year from disturbance. Areas to be revegetated shall be treated with soil amendments to provide an adequate grown medium to sustain vegetation and shall match the existing 70 percent pre-disturbed vegetation cover.

The seedbed shall be well settled and firm, but friable enough that seed can be placed at the seeding depth specified. The seedbed shall be reasonably free of weeds. Soils that have been over-compacted by traffic or equipment, especially when wet, shall be tilled to break up rooting restrictive layers and then harrowed, rolled, or packed to prepare the required firm seedbed. Mulch shall be applied at a rate of two and one-half (2 ½) tons per acre and shall be spread uniformly, in a continuous blanket, after seeding is complete. Mulch shall be clean, weed and seed free, long-stemmed grass or hay, or long-stemmed straw of oats, wheat, or rye. At least 50 percent of mulch, by weight, shall be ten inches or longer. Mulch shall be spread by hand or blower-type mulch spreader. Mulching shall be started on the windward side of relatively flat areas or on the upper part of steep slope and continued uniformly until the area is covered. The mulch shall not be bunched. Immediately following spreading, the mulch shall be anchored to the soil by a v-type wheel land packer or scalloped-disk land packer designed to force mulch into the soil surface a minimum of three inches. All seeded areas shall be mulched after seeding on the same day as the seeding. The type of seed mix used for permanent vegetation shall utilize perennial grasses as delineated on the plans.

Stormwater Management

All developed stormwater will be routed through the EDB facilities to provide stormwater quality as delineated on the drawings.

Maintenance

All temporary and permanent erosion and sediment control practices shall be maintained and repaired as needed by the contractor throughout the duration of construction to assure that each BMP will function as intended. As required by the stormwater discharge permit, a weekly inspection of these items will be performed. In addition, all facilities must be inspected by the owner or the owner's representative following each heavy precipitation or snowmelt event that results in runoff, with maintenance occurring immediately after discovering a need.

Silt fence may require periodic replacement. All sediment accumulated behind the silt fence must be removed and disposed of properly when depth exceeds one-fourth the height of the silt fence. On-site construction traffic will be monitored to minimize the transport of sediment onto the proposed on-site streets, as well as onto adjacent city streets. The Owner, Site Developer, Contractor, and/or their authorized agents shall prevent loss of cut and fill material being transported to and from the site by taking appropriate measures. All mud and sediment tracked onto public streets shall be cleaned immediately. Road cleaning includes shoveling and sweeping activities.

Diversion ditches shall be kept clean and functional during construction. They shall be routinely checked on a weekly basis and cleaned if the height of sedimentation exceeds one-half its depth.

Inlet/outlet protection shall be inspected to ensure proper operation. Excess debris or sediment must be removed prior to final acceptance of the project.

The temporary sedimentation pond shall remain in place until such time as the major grading operations in the area are completed and the ground stabilized by either temporary or permanent measures. The ponds will be cleaned out periodically with depth of sediment at no time allowed to accumulate more than one-half the depth of the facility.

CostAn engineer's cost estimate for the anticipated erosion and sediment control items for the entire site are listed below:

Section 1 – Grading & Erosion Control BMPs	Quantity	Units	Price	Total
Earthwork*	60000	CY	\$5	\$300,000
Permanent Seeding*	5.0	AC	\$582	\$ 2.,910
Mulching*	5.0	AC	\$507	\$ 2,535
Erosion Bales	22	EA	\$21	\$ 462
Inlet Protection	1	EA	\$153	\$ 153
Vehicle Tracking Control	1	EA	\$1,625	\$ 1,625
Sedimentation Basin	1	EA	\$1,625	\$ 1,625
Silt Fence	3725	LF	\$4	\$14,900
TOTALE	DOCION & CE	DIMENT CO	NTROL COST	6224 240
IUIALE	KUSIUN & SE	DIMENT CO	MIROL COST	\$324,210

STORMWATER MANAGEMENT

Stormwater Management

Stormwater quality shall be protected and preserved throughout the life of this development. During mass grading and construction, measures such as sediment fences, straw bales, and vehicle tracking control shall be used to minimize erosion and sedimentation on site. During construction, the proposed extended detention basin shall function as a temporary sediment basin to reduce the potential for sediment leaving this development. Temporary diversion dikes shall be constructed to transport runoff that may contain sediment to the temporary sediment basin located on site until a stormwater system is installed. After various stages of the construction, when applicable, temporary or permanent erosion control stabilization shall be installed and maintained (landscaping, seeding, mulching, etc.).

Potential Pollution Sources

Materials are sometimes used at the construction site that present a potential for contamination of stormwater runoff. These include sediment, equipment/vehicle washing, vehicle maintenance and fueling, petroleum products, paint, solvents, treated wood products, asphalt (bituminous) paving, concrete, concrete-curing compounds, metal, waste storage and disposal and other liquid chemicals such as fertilizers, herbicides, and pesticides. Practices that can be used to prevent or minimize toxic materials in runoff from a construction site are described in this section.

Areas at the construction site that are used for storage of toxic materials and petroleum products shall be designed with an enclosure, container, or dike located around the perimeter of the storage area to prevent discharge of these materials in runoff from the construction site. These barriers shall also function to contain spilled materials from contact with surface runoff. Proposed locations for storage of toxic materials have not been determined at the time of this report. Locations shall depend upon construction phasing.

Measures to prevent spills or leaks of fuel, gear oil, lubricants, antifreeze, and other fluids from construction vehicles and heavy equipment shall be considered to protect groundwater and runoff quality. All equipment maintenance shall be performed in designated areas and shall use spill control measures, such as drip pans, to contain petroleum products. Spills of construction-related materials, such as paints, solvents, or other fluids and chemicals, shall be cleaned up immediately and disposed of properly. No batch plants will be located on this site.

Trash receptacles shall be provided and kept clean as required to keep the site clean of trash. In addition, portable toilets shall be provided for all workers on the site during construction. All portable toilet facilities shall be located at least three feet from curb flow lines and paved surfaces. The facilities shall be stationed on ground and secured down to prevent tipping.

Potable water is anticipated as a non-stormwater discharge. Potable water shall be used for grading, dust control, and irrigation of erosion control and permanent landscaping. An effort shall be made to use only the amount of potable water required for these operations.

Owner Inspection and Maintenance of Constructed BMPs

All inspection logs will include signatures on the logs and be kept on site along with other SWWP records.

1. *Minimum Inspection Schedule.* The permittee shall, at a minimum, make a thorough inspection at least once every 14 calendar days. Also, post-storm event inspections shall be conducted

Add the following sentence:
Revisions shall be annotated on plan
and initialed and dated by the
Stormwater and EPC inspector.

within 24 hours after the end of any precipitation or snowmelt event that causes surface erosion. Provided the timing is appropriate, the post-storm inspections shall be used to fulfill the 14-day routine inspection requirement. A more frequent inspection schedule than the minimum inspections described may be necessary to ensure that BMPs continue to operate as needed to comply with the permit. Existing BMP's will be evaluated during inspections and revised as necessary to achieve site compliance.

- 1.1. **Post-Storm Event Inspections at Temporarily Idle Sites.** If no construction activities will occur following a storm event, post-storm event inspections shall be conducted prior to recommencing construction activities, but no later than 72 hours following the storm event. The occurrence of any such delayed inspection must be documented in the inspection record. Routine inspections still must be conducted at least every 14 calendar days.
- 1.2. *Inspections at Completed Sites/Areas.* For sites, or portions of sites, that meet the following criteria; but final stabilization has not been achieved due to a vegetative cover that has not become established, the permittee shall make a thorough inspection of their stormwater management system at least once every month. Post-storm event inspections are not required. This reduced inspection schedule is only allowed if:
 - 1.2.1.all construction activities that will result in surface ground disturbance are completed;
 - 1.2.2.all activities required for final stabilization in accordance with the Grading and Erosion Control/Stormwater Quality Plan have been completed, with the exception of the application of seed that has not occurred due to seasonal conditions or the necessity for additional seed application to augment previous efforts; and
 - 1.2.3.the Grading and Erosion Control/Stormwater Quality Plan has been amended to indicate those areas that will be inspected in accordance with the reduced schedule allowed for in this section.
- 1.3. Winter Conditions Inspections Exclusion. No changes are expected for winter work.

CONCLUSION

This SWMP Report and the Best Management Practices (BMPs) specified on the Erosion Control Plans have been designed to reduce any adverse impacts the construction of this project might have on the surrounding properties. If properly installed and maintained, the design shall protect the quality of the stormwater runoff that is released from this development.

All temporary erosion and sediment control measures shall be removed and disposed of within thirty (30) days after final site stabilization is achieved, or after temporary measures are no longer needed, whichever occurs earliest, or as authorized by the local governing jurisdiction.

Temporary erosion control measures may be removed only after streets and drives are paved, and all disturbed areas have been stabilized. Trapped sediment and disturbed soil areas resulting from the disposal of temporary measures must be returned to final plan grades and permanently stabilized to prevent additional soil erosion.

Final stabilization is reached when all soil disturbing activities at the site have been completed, and uniform vegetative cover has been established with a density of at least 70 percent of predisturbance levels; or equivalent permanent, physical erosion reduction methods have been employed.

Compliance with Standards

This report was prepared in accordance with the procedures and concepts outlined in the *El Paso County Engineering Criteria Manual*.

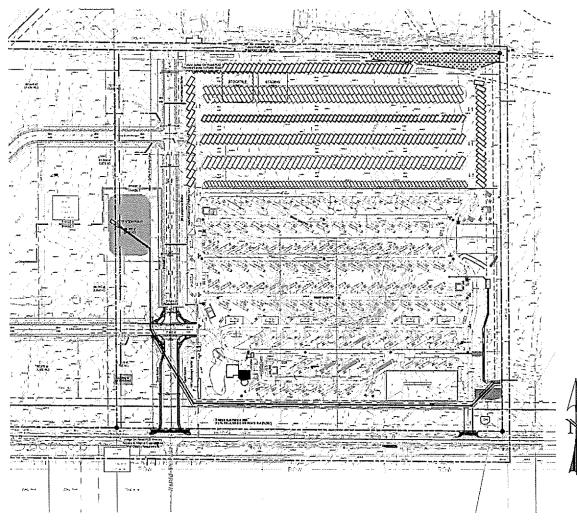
REFERENCES

- City of Colorado Springs Drainage Criteria Manual, Volume 2, including Addendums I and II.
- El Paso County Engineering Criteria Manual.

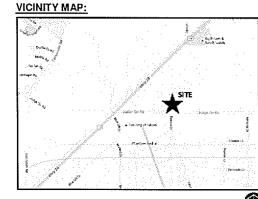
APPENDIX A

Grading and Erosion Control Plans

GRADING AND EROSION CONTROL PLAN JUDGE ORR ROAD RV PARK AND STORAGE EL PASO COUNTY, COLORADO



SITE MAP



OWNER'S STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

PRAIRIE STONE LLC

ENSIMBERS SIATEMENT:
These detailed plans were prepared under my direction and supervision. Said plans and specifications have been prepared in according to the criteria established by the County for detailed roadway, drainage, grading and crosion control plans and specifications, and said plan sand specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief I accept responsibility for any lability caused by any negligent acts, errors or omissions on my part in preparing these detailed plans and specifications.

Michael A. Bartusek, P E. #23329

DEVELOPER'S STATEMENT:
I, the Developer, have read and will comply with all of the requirements specified on this plan

MANAGER
PRAIRIE STONE, LLC
9476 DAKOTA DUNES LANE
PEYTON, CO 8031-4138

Filed in accordance with the EI Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and the Engineering Criteria Manual, as amended

Andrea Minnich, Manager

ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEGGE AND BELIEF SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS, I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

MICHAEL BARTUSEK, COLORADO P.E. # 23329 Date ASSOCIATED DESIGN PROFESSIONALS, INC.

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN OR CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN OMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR COMMUNITY DEVELOPMENT DIRECTORS DISCRETION

JENIFER IRVINE P.E.
COUNTY ENGINEER/ECM ADMINISTRATOR

LEGEND:

- PROPOSED MAJOR CONTOUR - PROPOSED MINOR CONTOUR

---- EXISTING MAJOR CONTOUR ---- EXISTING MINOR CONTOUR

U/G PIPE (MATERIAL AND SIZE AS NOTED)

MILLON DIS DIS DESIGNATION DE CONSTRUCTION

CONCRETE WASHOUT

VEHICLE TRACKING CONTROL STRAW BALE BARRIER INLET PROTECTION

TRAFFIC FLOW ARROWS

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DPC	DRAINAGE, CRADING & EROSION CONTROL DETA	L 4 OF 7
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DPC	STORM SEWER PROFILES	2 OF 7

PCD PROJECT NO. PPR-16-040

DATE: 02/05/19 02/05/19 1600/01 1600/0

PREPARED BY:

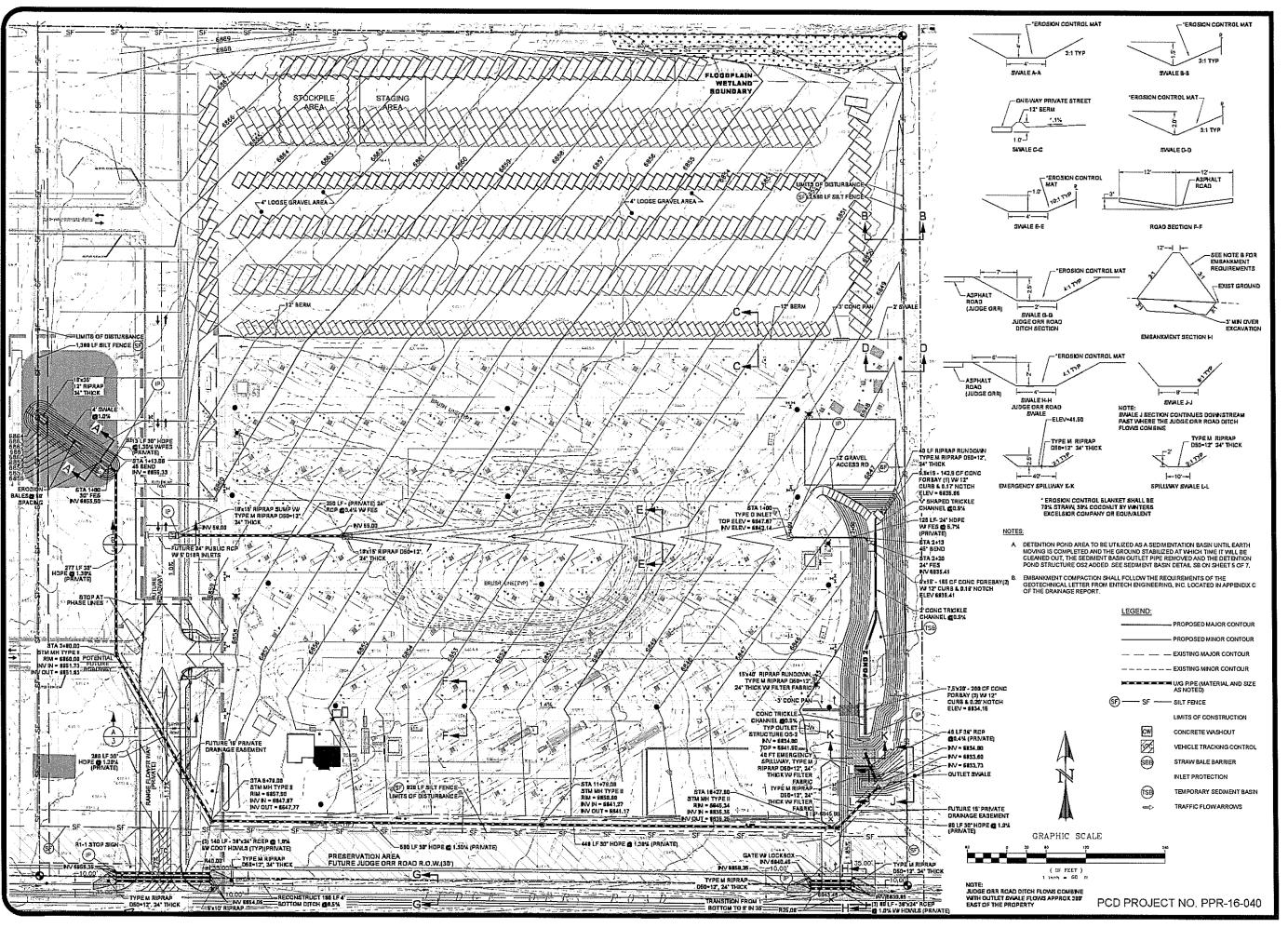
3520 Austin Bald's Partoway Sazte 102 Colorado Springs, CO 80918 (719) 266-5212 fax: (719) 265-5341

CONTROL

STORA COLORADO త SPRINGS,

ORADO ORR JUDGE

SHEET



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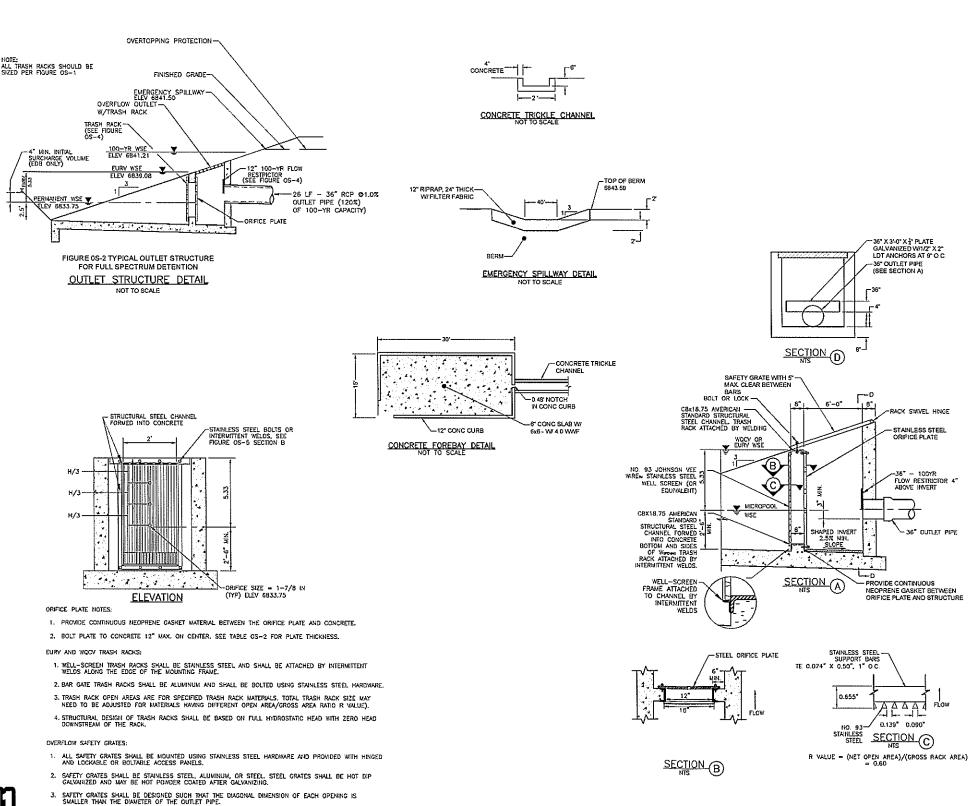


FIGURE OS-5 TYPICAL OUTLET STRUCTURE
WITH WELL SCREEN TRASH RACK

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING SPECIFICATIONS.
 THE CONTRACTOR SHALL NOTIFY COLORADO STATE UTILITIES CENTRAL LOCATING (1-809-922-1987 AT LEAST 49 HOURS PRIOR TO ANY EXCAVATION SO THAT THEY MAY LOCATE THEIR FACILITIES. THE LOCATION OF FACILITIES SHOWN ON THE DRAWINGS IS FROM AVAILABLE RECORDS AND IS APPROXIMATE.

 ALL EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS REPLECT THE AVAILABLE INFORMATION AND DO NOT NECESSARILY NDICATE THE ACTUAL LOCATIONS PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES THAT MAY CONDICT WITH OR OBSTRUCT THE NEW CONSTRUCTION ANY REQUIRED RELOCATIONS THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE COORDINATED WITH AND HAVE PRIOR APPROVAL OF EL PASO COUNTY UTILITIES.

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STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 1 CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM DEVELOPMENT SERVICES AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMUNITY DEVELOPMENT SERVICES AND A PRE-CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MARNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.

 3 NOTWITHSTANDING ANYTHING DEPICTED IN THESS PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND REGION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED BL. PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE. THE ENGINEERING CRITERIA MANUAL AND THE DRAINAGE CRITERIA MANUAL AND THE DRAINAGE REDUISSTED, AND PAPROVED, IN WRITIME AND STANDARDS MAND STANDARDS MAD BE REQUISSTED, AND PAPROVED, IN WRITIME AND STANDARDS MAD REGION OF THE MOST OF THE DESIGNATED STORM WATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALD BE KEPT UP TO DATE WITH YORK PROCRESS AND CHANGES IN THE FIELD OF THE WITH MOST OF THE MOST OF THE

- PRIOR TO COMMENCING CONSTRUCTION DURING CONSTRUCTION THE SWAP IS THE PRESPONSIBILITY OF THE DESIGNATED STORM-WATER MANAGER, SHALL RE LOCATEO ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD ONCE THE SCOPE HAS BEEN ISSUED. THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GGC. A PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ROWNING THAT IN TO COORDINATE THE MEDITION OF THE CONTRACTOR, ROWNING THAT TO COORDINATE THE MEDITION OF THE CONTRACTOR. PROVINGE THE APPLICANT TO COORDINATE THE METING SITURD STRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE METING TIME AND PLACE WITH COUNTY PCO LINSPECTIONS STAFF.

 5. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CHANDAD DAYS AFTER FIR FIRM, ARADING, OR FIRM, EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREA SAN) STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORNANT FOR LONGER THAN 30 DAYS SHALL ALSO DE SEEDO ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED WITH LIPERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED WITH THE DEAD AND STABLIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED HED UNTIL PERMANENT TO LEROSION CONTROL MEASURES AND BMPS SHALL BE MEMOVED AND EARTH DISTURBANCE PERMANENT FOR THE SECOND AND STABLIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURBANCE SHALL BIRDLEMENT SOIL EROSION CONTROL MEASURES PURBANCE SHALL BIRDLEMENT FOR MAINTAIN AND MAINTAIN AND MAINTAIN AND MAINTAIN AND MAINTAIN AND MAINTAIN AND MAINTAIN

- BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SYMP AND THE DOM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.

 10 ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.

 11 ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORM-WATER ROQUIND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.

 12 CONCRETE WASH WATER SHALL BE CONTIANIED AND DISPOSED OF IN ACCORDANCE WITH THE SWAIP. NO WASH WATER SHALL BE CONTIANIED AND PRAINAGE SYSTEM OR FACILITIES.

 13 EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.

 14 BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN BIRPS MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING ID DEFINED NETS.

 15 VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- IMMEDIATELY

 16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE
 CONSTRUCTION SITE FOR DESPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY
 REQUIREMENTS. NO CONSTRUCTION DESRIS, TREE SLASH, BUILDING MATERIAL WASTES OR
 UNISED BUILDING MATERIAL SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
 THE OWNER, SITE DEVELOPER CONTRACTOR, ANDORT THEIR AUTHORIZED AGENTS SHALL BE
 RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DESRIS, DIRT, TRASH, ROCK, SEDIMEN
 AND SAND THAT MAY ACQUIVALATE INTHE STORM, SEVER OR OTHER DRAVINGE CONVEYANCE
 SYSTEM AND STORM-WATER APPURITENANCES AS A RESULT OF SITE DEVELOPMENT.

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

- ALL MATERNALS STORED ON-SHE SHALL BE STORED IN NEAT, ORDERLY MANNER, IN THER ORIGINAL CONTAINERS, WITH CORDINAL MANNEACTURER'S LABELS.

 19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORM-WATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WHITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

 20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL, FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

 21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORM-WATER FLOWIN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH-LINE.

 22. INDIVIDUALS SHALL CAUSE THE IMPEDIMENT OF STORM-WATER FLOWIN THE FLOW LINE OF THE REDUREMENTS INCLUDED IN THE COLORADO WATER CUALITY CONTROL. ACT "(TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DOM VOLUME II AND THE ECM APPENDIX. I ALL APPROPRIATE PERMITS MUST BE OBSTANED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (HPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.) IN THE EVENT OF CONFLICTS BETWEEN THESE FEGUREMENTS AND LAWS, RULES, OR REGULATIONS SHALL STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 24 PRIOR TO ACTUAL CONSTRUCTION THE PERMITTE SHALL VERIFY THE LOCATION OF EXISTING

- UTILITIES

 25 A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED
 AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND MIND.

 26 THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RIMG INC AND SHALL BE CONSIDERED
 A PART OF THESE PLANS.

 27 AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT
 WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL
 SUBMIT A PERMIT APPLICATION FOR STORM-WATER DISCHARGE TO THE COLORADO
 DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE
 APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORM-WATER MANAGEMENT
 PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR
 INFORMATION OR APPLICATION METERALS CONTACT. COPPIE, 4300 CHERRY CREEK DR
 S, DENVER, CO 80246-1530, PH 303-692-3500

Know what's below. Call before you dig.

STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

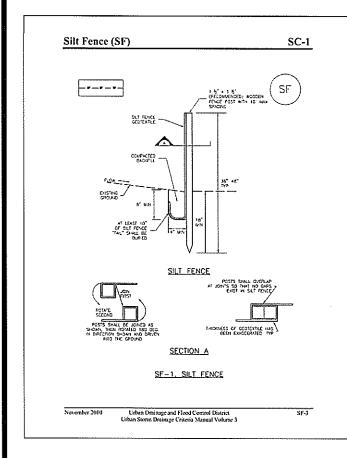
FIGURE OS-4 ORIFICE PLATE AND TRASH RACK DETAILS AND NOTES

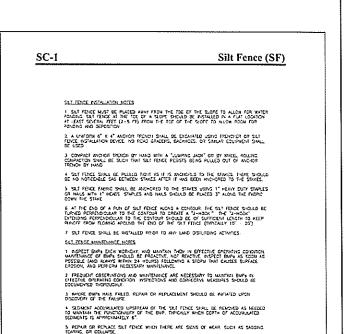
PCD PROJECT NO. PPR-16-040

DATE. CZCS19 JOB NO. 160001 CAD FLE 160001-B PREPARED BY: 3520 Ausan Bud's Padreay Suite 102 Dolorado Springs, CO 80918 (719) 266-5212 fax (719) 266-6341 STORAG CONTROL DE 0 COLORAD య PARK SPRINGS, 2 ROAD COLORADO ORR JODGE

DRAINAGE, GRADING & EROSION

SHEET





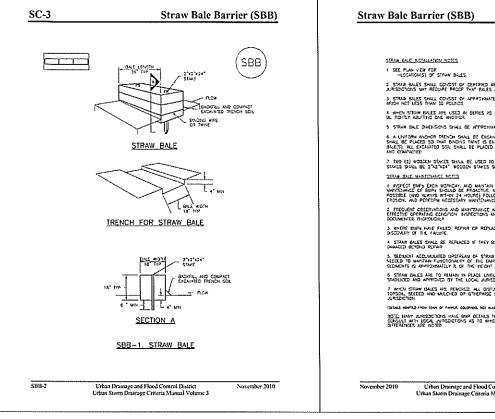
6 Set fence is to behave in place unit. He upsticem distinged area is subjuzed and approach of the local dissipation, of is reflecte of an equality principal stimule confres supplementations.

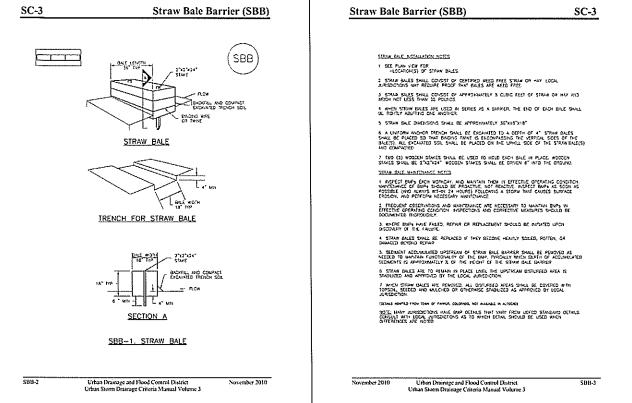
7 WHEN SAT TENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSCH., SEEDED AND ULRICHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

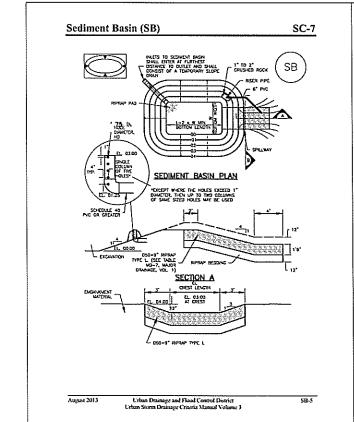
NOTE: MANY JUREDICTUMS HAVE BUR DETAILS THAT VARY FROM UDIFCE STANDURG DETAILS. CONSULT WON LOCAL JUREDICTIONS AS TO WHICH CETAIL SHOULD BE USED WHEN PATTERFACE USE LOTED.

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

SC-7







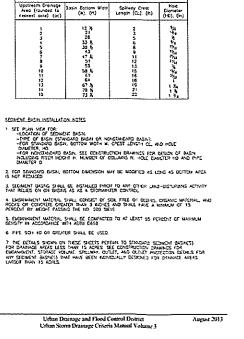
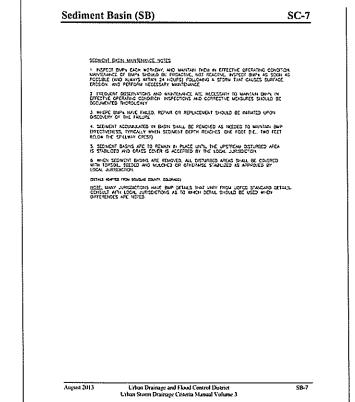


TABLE SH-1 SURG WARRANTON FOR STANDARD SEEMENT BASH

Sediment Basin (SB)



STORA COLORADO CONTROL DETAILS ٥ð SPRINGS, R ROAD EROSION COLORADO ORR DGE SHEET PCD PROJECT NO. PPR-16-040 4 of 7

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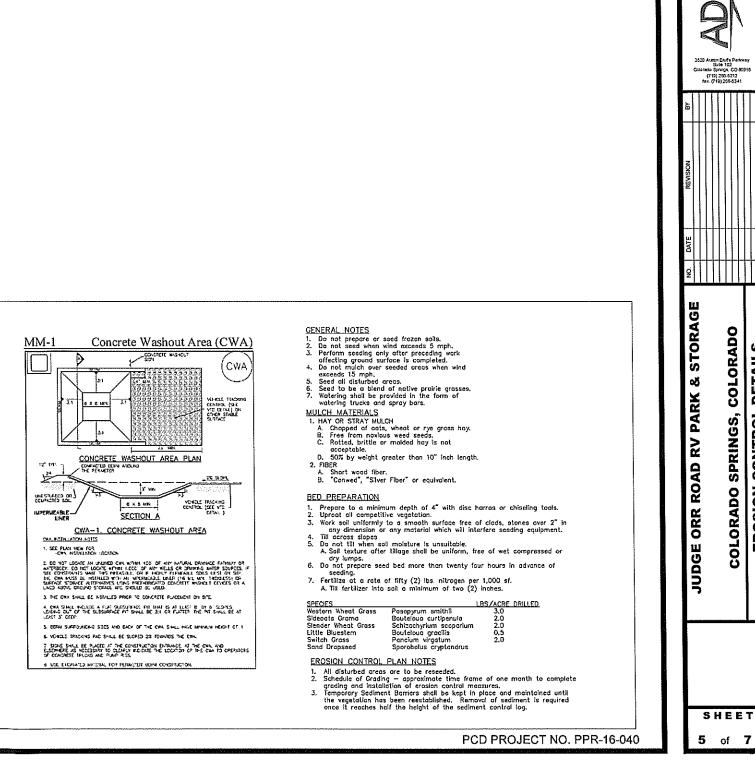
PREPARED BY:

<u>پر</u> NO SOMO

2

3530 Austra Baulia Parkway Bute 102 Colorado Springa, CO 60918

(719) 266-5212 fax (719) 266-5341



EESWO FOR TH ADPC1 3520 Austri Bluffs Parkway 924s 192 Cotorado Springs, CO 80918 (719) 293-5212 fax. (719) 295-5341 STORAGE COLORADO CONTROL DETAILS భ PARK SPRINGS, ⋧ ROAD EROSION COLORADO ORR JUDGE SHEET

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PORT NAME
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DATE: 02/05/19 JOBINO: 160301 CAD FLE NO 160301-Base DEAWN BY HJO

PREPARED BY:

Standard Notes for El Paso County Construction Plans

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.

- 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 VERIFIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCO)
- 2. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLIDING THE FOLLOWING:

 a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- 4. NOTWTHSTANDING 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 VERSION 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 DEVALTIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER—THE—FACT WILL BE ENTITIED THE DEVAL OFERS'S DESCRIBED FOR DEPOTEY. WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 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.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPEMENT (PCD) INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS—ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 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. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY
- 10. 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.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCO CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF DISTURBANCE SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF—SITE DISTURBANCE, GRADING, OR

NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF TRANSPORTATION FOR A PRE-CONSTRUCTION CONFERENCE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. CONTRACTOR SHALL OBTAIN NECESSARY CONSTRUCTION PERMITS PRIOR TO CONSTRUCTION.
- 4. ALL ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO EL PASO COUNTY STANDARD SPECIFICATIONS.

NOTE:

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

SIGNING AND STRIPING NOTES:

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM

- . ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

 2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPUSHED BY A METHOD THAT DOES NOT MATERIALLY DAVAGE THE PAVEMENT THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.

 3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.

 4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCO STANDARDS.

 5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.

 6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANUER BY THE CONTRACTOR.

 7. ALL SIGNS SHOWN ON THE SIGN SHALL BE ON SHALL BE ON THE SAME POST AT INTERSECTIONS.

 6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANUER BY THE CONTRACTOR.

 7. ALL STREET NAME SIGNS SHALL HAVE "D' SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDER SHALL MATCH PAGE 255 OF THE 2012 MUTCD' STANDARD WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD

- WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"

 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.

 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75°X 1.75°SQUARE TUBE SIGN POST AND STUE POST BASE. FOR OTHER APPLICATIONS, REFER TO THE COOT STANDARD S-614-B REGARDING USE OF THE P2 TUBLIAR SIERL POST SUPPASE DESIGN.

 10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100°MINIMUM THICKNESS.

 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER COOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24°IN WOTH. CROSSWALKS LINES SHALL BE 12°WIDE AND 8"CROSSWALKS LINES SHALL BE 12°WIDE AND 8"CROSSWALKS LINES SHALL BE RESIDENTIAL ROLDWAYS SHALL INCLIDE BOTH RICHT AND LEFT EDGE LINE STRIPTING AND ANY ADDITIONAL STRIPTING AS REQUIRED BY COOT S-627-1.

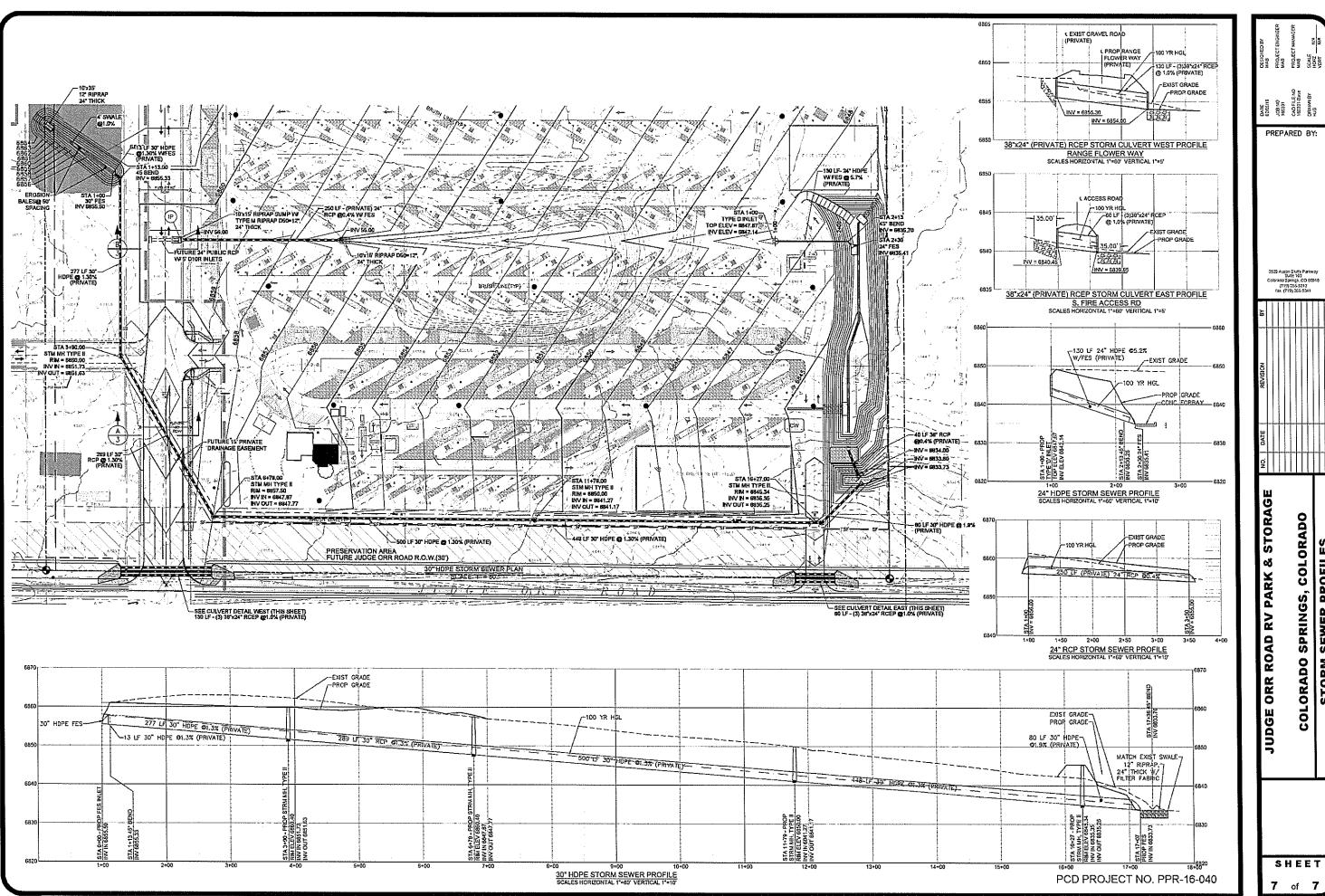
 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819

- SINDERIG AS REQUIRED BY COOT S-627-1.

 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

 14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

ŀ		NO. DATE	REVISION BY			DESIGNED BY	6
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	STANDARD NOTES						



DESIG MAB MAB PROJE NAB SCALE HORZ DATE 02/05/19 JCB NO 16/010: CAD FILE NO 16/03/01:83:e DRAWN BY HJ.0 PREPARED BY: 3530 Austr Bluft Parkway Suite 162 Colorada Springs, CO 60018 (719) 255-5212 fax. (719) 255-5341 COLORADO SPRINGS, SEWER PR ORADO 6

APPENDIX C

Inspection Checklist

Appendix C

EXTENDED DETENTION BASIN (EDB) INSPECTION FORM

	Date:
ubdivision/Business Name:	
ubdivision/Business Address:	
Weather:	
Date of Last Rainfall:	
Date of Last Maillian.	Amount:Inches
Property Classification: Residential Multi Fan	nily Commercial Other:
Circle One)	
· · · · · · · · · · · · · · · · · · ·	Complaint After Significant Rainfall Event
Circle One)	
INSPECTION SCORING - For each facility inspection ite	em, insert one of the following scores:
0 = No deficiencies identified	2 = Routine maintenance required
1 = Monitor (potential for future problem)	3 =Immediate repair necessary
N/A = Not applical	
FEATURES	
1.) Inflow Points	2.) Forebay
Riprap Displaced	Sediment/Debris Accumulation
Erosion Present/Outfall Undercut	Concrete Cracking/Failing
Sediment Accumulation	Drain Pipe/Wier Clogged (not draining)
Structural Damage (pipe, end-section, etc.)	Wier/Drain Pipe Damage
Woody Growth/Weeds Present	· · · ·
3.) Trickle Channel (Low-flow)	4.) Bottom Stage (Micro-Pool)
Sediment/Debris Accumulation	Sediment/Debris Accumulation
Concrete/Riprap Damage	Sediment/Debris AccumulationWoody Growth/Weeds Present
Woody Growth/Weeds Present	Bank Erosion
Erosion Outside Channel	
LIOSION Outside Charines	Mosquitoes/Algae Treatment Petroleum/Chemical Sheen
	Fetioleuti/Citertical Sileeti
5.) Outlet Works	6.) Emergency Spillway
Trash Rack/Well Screen Clogged	Riprap Displaced
Structural Damage (concrete, steel, subgrade)	Erosion Present
Orifice Plate(s) Missing/Not Secure	Woody Growth/Weeds Present
Manhole Access (cover, steps, etc.)	Obstruction/Debris
Woody Growth/Weeds Present	
7.) Upper Stage (Dry Storage)	8.) Miscellaneous
Vegetation Sparse	Encroachment in Easement Area
Woody Growth/Undesirable Vegetation	Graffiti/Vandalism
Standing Water/Boggy Areas	Public Hazards
Standing Waterboggy Areas	Burrowing Animals/Pests
Erosion (banks and bottom)	Other
Trash/Debris	
Maintenance Access	
··	
Inspection Summary / Additional Comments:	
OVERALL FACILITY RATING (Circle One)	
0 = No Deficiencies Identified	2 = Routine Maintenance Required
1 = Monitor (potential for future problem exists)	3 = Immediate Repair Necessary

request.

Markup Summary

dsdlaforce (1)



Subject: Callout Page Index: 8 Lock: Unlocked Author: dsdlaforce Date: 7/15/2019 7:39:49 AM

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Add the following sentence: Revisions shall be annotated on plan and initialed and dated by the Stormwater and EPC inspector.