

Engineer's Statement (for GEC Plan within Construction Drawing set): These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and 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 liability caused by any negligent acts, errors or these detailed plans and specifications. Engineer of Record Signature Oliver E. Watts, COLO PELS#9853 Oliver E Watts Consulting Engineer, inc. 614 Elkton Drive Colorado Springs, CD 80907 719-593-0173 olliewatts@aol.com Owner's Statement (for GEC Plan within Construction Drawing set); the owner/developer have read and will comply with the requirements of the grading and erosion control plan and all of the requirements specified in these detailed plans and specifications. Richard Graham, Falcon Storage Partners, LLLP date <u>El Paso County (standalone GEC Plan)</u> County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document. 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 amended. In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion. JOSHUA PALMER, PE County Engineer / ECM Administrator date date REVISIONS DRAWN BY: D.E. WATTS APPROVED BY: date: 1-29-21 PROJ. NO.

DWG. NO .: 20-5523-05

SURVEYED BY: DEW, ESW, 10-6-20

DWG.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

1. Stormwater discharges from 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 manner that minimizes pollution of any on-site or off-site waters, including wetlands. 2. 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 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 deviations from regulations and standards must be requested, and approved, in writing, 3. A separate Stormwater Management Plan (SMWP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. Management of the SWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP shall be located on site at all times during construction and shall be kept up to date with work progress and changes in the field.

4. Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff. 5. Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater, control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance. 6. All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures are needed to ensure the continued effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the Stormwater Management Plan.

7. Temporary stabilization shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days. 8. Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.

9. All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that effect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to implementation. 10. Earth disturbances shall be conducted in such a manner so as to effectively minimize 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. Pre-existing vegetation shall be protected and maintained within 50 horizontal feet of waters of the state unless shown to be infeasible and specifically requested and approved.

11. Compaction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control measures shall also be protected from sedimentation during construction until final stabilization is achieved. If compaction prevention is not feasible due to site constraints, all areas designated for infiltration and vegetation control measures must be loosened prior to installation of the control measure(s). 12. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off site. 13. Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to enter State Waters, including any surface or subsurface storm drainage system or facilities. Concrete washouts shall not be located in an area where shallow groundwater may be present, or within 50 feet of a surface water body, creek or stream. 14. During dewatering operations of uncontaminated ground water may be discharged on site, but shall not leave the site in the form of surface runoff unless an approved State dewatering permit is in place.

15. Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1. 16. Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes or unused building materials shall be buried, dumped, or discharged at the site.

17. 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. Control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.

18. Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.

19. The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of site development. 20. The guantity of materials stored on the project site shall be limited, as much as practical, to that guantity required to perform the work 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.

21. No chemical(s) having the potential to be released in stormwater are to be stored or used onsite unless permission for the use of such chemical(s) is granted in writing by the ECM Administrator. In granting approval for the use of such chemical(s), special conditions and monitoring may be required.

22. Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment protection to contain all spills onsite and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system or other facilities.

23. No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures. 24. Owner/developer and their agents shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Water Actnd shall" (33 USC 1344), in addition to the requirements of the Land Development Code, DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and other laws, rules, or regulations of other Federal, State, local, or County agencies, the most restrictive laws, rules, or regulations shall apply.

25. All construction traffic must enter/exit the site only at approved construction access points. 26. Prior to construction the Permittee shall verify the location of existing utilities. 27. A water source shall be available on site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.

28. The soils report for this site has been prepared by <u>Parr Engineering dated 11-20-13</u> and shall be considered 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 more, 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 contact: Colorado Department of Public Health and Environment Water Quality Control Division

WQCD - Permits

4300 Cherry Creek Drive South Denver, CD 80246-1530

Attn: Permits Unit

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omissions	on my part	in preparation of	
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CONSULTING ENGINEER COLORADO SPRINGS	FALCON STORAGE PARCEL PART W 1/2 SEC. 1, T.13S., R.65W., 6TH P.M. EL PASO COUNTY	GRADING AND EROSION CONTROL PLAN	2 DF 5	
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DRAWN BY: U.E. WATTS DATE: 1-29-21	APPROVED BY: PROJ. NO.	
DWG. NO.: LU JJLJ-UD SURVEYED BY: DEW, ESW, 10-6-20		



DLIVER E. WATTS CONSULTING ENGINEER COLORADO SPRINGS	FALCON STORAGE PARCE PART W 1/2 SEC. 1, T.13S., R.65W. EL PASO COUNTY
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	Silt Fence (SF)		SC-1	Stockpile Management (SP)
	SILT FENCE	1 ½" x 1 ½" (RECOMMENDED) WOODEN FENCE POST WITH 10' MAX SPACING	SF	STOCKPILE
	COMPACTED BACKFILL	A 36"-48" TYP.		STOCKPILE PROTECTION
	EXISTING GROUND 6" MIN AT LEAST 10" OF SILT FENCE TAIL" SHALL BE BURIED			SECTION A SP-1. STOCKPILE PROTECTION INSTALLATION - NOTES
		SILT FENCE POSTS SHALL OVERLAP AT JOINTS SO THAT NO GAPS EXIST IN SILT FENCE		 SEE PLAN VIEW FOR: LOCATION OF STOCKPILES. TYPE OF STOCKPILE PROTECTION. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OF SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DET TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHI LOCATED ON A PERVIOUS OR IMPERVIOUS SUFACE, THE RELA PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PEI THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
	POSTS SHALL BE JOINED AS SHOWN, THEN ROTATED 180 DEG. IN DIRECTION SHOWN AND DRIVEN INTO THE GROUND	THICKNESS OF GEOTEXTILE HAS BEEN EXAGGERATED. TYP		3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHE MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. S EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHO WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS P DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTAE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-0 4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION O OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONT PERIMETER CONTROLS MAY NOT BE REQUIRED.
	November 2010 Urban Draina Urban Storm Dra	ge and Flood Control District inage Criteria Manual Volume 3	SF-3	November 2010 Urban Drainage and Flood Control Distric Urban Storm Drainage Criteria Manual Volum
	<u>SC-1</u>	Silt Fen	ice (SF)	MM-2 Stockpile
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SM-6

Stockpile Management (SM)

H WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. S SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPS AS SOON AS S WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE RM NECESSARY MAINTENANCE.

TIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON MAINTENANCE NOTES

TECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE BY THE END OF THE WORKDAY. ER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE SED

R, COLORADO, NOT AVAILABLE IN AUTOCAD) ONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. JURISDICTIONS AS TO WHICH DETAIL SHCULD BE USED WHEN

Stabilized Staging Area (SSA)

STABILIZED_STAGING_AREA_MAINTENANCE_NOTES 5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS. 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION. NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED. 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.

(DETAILS ADAPTED FROM DOUCLAS COUNTY, COLORADO, NCT AVAILABLE IN AUTOCAD)

November 2010

OLIVER E. WATTS

CONSULTING ENGINEER

COLORADO SPRINGS

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

PROJECT

November 2010

SHT. NAME

Prepared by the Office of: Oliver E. Watts, Consulting Engineer, Inc. 614 Elkton Drive, Colorado Springs, CD 80907 719-593-0173 olliewatts@aol.com Celebrating over 39 years in business

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DRAWN BY: D.E. WATTS DATE: 1-29-21	APPROVED BY:	REVISIONS		PROJECT	
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CWA-4





Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

INSPECT BNPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTEMANCE OF BMPS SHOULD BE PROACTIVE. NOT READING. INSPECT BMPS AS SOON AS POSSIBLE (AND AUMAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

 FREQUENT DESERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BIMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE ODCUMENTED THOROUGHLY.

3 WHERE BWPS HAVE FAILED, REPAIR OF REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4 THE CWA SHALL BE REPARED, OLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CARACITY FOR CONCRETE MASTE, CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE, REWOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'

REWOVED DNCE THE MATERIALS HAVE REACHED A DEPTH OF 2' 5 CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB STE IN & WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

E THE DWA SHALL REMAIN IN PLACE UNTIL ALL CONDRETE FOR THE PROJECT IS PLACED.

7 WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION (DETAIL ADAPTED TROM HOVED COUNTY, COLORADO AND THE CITY OF IMPRER COLORADO, NOT WALABLE IN ALTOCAL). HOTEL WARY JURISDICTIONS HAVE BMF 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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Urban Drainage and Flood Control District

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