V	Erosion Control Plans"						ν
RADIN	G	AND	EROSIO	N	CONTROL	NOTES:	_

Label as "Standard Notes for El Paso

County Grading and

There should only be 29.

See GEC Checklist for

exact GEC Notes. Many

of the ones below need

to be modified, are out of order, or are incomplete

- 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS.
- 2. 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.
- 3. 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 4. 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE 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 PCD INSPECTIONS STAFF.
- 6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- 7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- 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 PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
- 10. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 11. 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. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO MINIMIZE EROSION AND 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 RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONJCRETE 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. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- 15. 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. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 16. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 17. 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.
- 18. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- 19. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY 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.
- 20.NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 21. BULK STORAGE STRUCTURES FOR ALLOWED PETROLEUM PRODUCTS AND OTHER CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION SO AS TO CONTAIN ALL SPILLS ONSITE AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- 22.NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE. 23. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 24. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 25. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 26.A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 27. THE SOILS REPORT HAS BEEN PREPARED BY ROCKY MOUNTAIN GROUP (DATE: 08/07/2020) FOR THIS SITE, SHALL BE CONSIDERED A PART OF THE PLANS AND WILL BE PROVIDED AT THE TIME OF FINAL GRADING DESIGN STAGE.
- 28. 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.
- 29. 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).
- 30. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 31. 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 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



STATEMENT:

THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR HE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW CCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



FOR LOCATIN

- 3.4 CDOT M&S STANDARDS.
- RESPONSIBILITY TO RECTIFY.
- INSPECTIONS STAFF.

- GRADING, OR CONSTRUCTION.

TRANSPORT PERMITS.



STANDARD CONSTRUCTION NOTES:

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 LOCATION 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 SPRINGS.

3. 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 TIME INCLUDING THE FOLLOWING: 3.1 EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

3.2 CITY OF COLORADO SPRINGS/EL PASO COUNTY ENGINEERING CRITERA MANUAL VOLUMES 1 AND 2. 3.3 COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.

4. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITION BOTH ONSITE AND OFFSITE ON THE CONSTRUCTION PLANS. ANY MODIFICATION NECESSARY DUE TO CONFLICT OMISSIONS OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPERS

5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE 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 PCD

6. IT IS THE CONTRACTORS 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 STORM WATER QUALITY CONTROL PERMIT (ESQCP), US ARMY CORPS OF ENGINEER ISSUED 401 AND/OR 404 PERMITS AND COUNTY AND STATE FUGITIVE DUST PERMITS.

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

8. ANY TEMPORARY SIGNAGE AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA.

9. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRE BY EL PASO COUNTY DPW INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL

10. THE LIMITS OF CONSTRUCTION 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 OFFSITE DISTURBANCE

ADDITIONAL NOTES:

STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRAC THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REG UPDATED BY THE CONTRACTOR.

BENCHMARK:

1. BASED ON USGS NGVD 29 VERTICAL DATUM MONUMENT R76 ELEVATION = 6286.32'

TIMING: JANUARY 2021 – APRIL 2021 ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE AUGUST 2021 EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COM

AREAS 29.35 AC TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADE RECEIVING WATERS: SAND CREEK

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	OWNER:	CROSSROADS METROPOLITAN DISTR	ICT NO. 2			020	
		COLORADO SPRINGS, CO 80903 DANNY MIENTKA (719) 475-7621		JSE	I RO	23/20	0F 3
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		COLORADO SPRINGS, CO 80903 VIRGIL A. SANCHEZ P.E. (719) 955	5–5485	MIX	N (DATE:	SHE
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		COLORADO SPRINGS, CO 80910 GILBERT LAFORCE (719)-520-794	5	SR0,	ER(SCALE	N/A N/A N/A N/A
	TRAFFIC ENGINEERING:	EL PASO COUNTY PUBLIC SERVICES 3275 AKERS DRIVE	S & TRANS. DEPT.	ROS	ని		
		COLORADO SPRINGS, CO 80922 JENNIFER IRVINE, P.E. (719) 520-	6460	0	ING	8-003	CVW CVW VAS
	WATER RESOURCES:	CHEROKEE METRO DISTRICT 6250 PALMER PARK BLVD. COLORADO SPRINGS CO 80915			RAD	NO.	D BY: 3Y:) BY:
		(719) 597–5080			9	ROJECT	ESIGNEI RAWN E HECKED
	GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947			~		
	ELECTRIC DEPARTMENT:	TIM WENDT (719) 668–3556 COLORADO SPRINGS UTILITIES		JITE 500	0608 00		
		7710 DURANT DR. COLORADO SPRINGS, CO 80920 SARAH LABARRE (719) 668-4933		k ave, si	rings, C 5.5485		
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		AT&T (LOCATORS) (719) 635–367	4	102 E P	COLOF		
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	VIRGIL A. SANCHEZ, COLORADO P.E. NO	. 37160	DATE				
	FOR AND ON BEHALF OF M&S CIVIL CO	NSULTANTS, INC.			AND ON F OF	ULTANTS	
t in	NEVELOPER'S STATEMENT.			37160	FOR / BEHAL	CONS CONS INC.	
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	DANNY MIENTKA, THE EQUITY GROUP		DATE	COLOR			
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EXISTING (PUB) CSU 30 PVC SAN SEW



1" = 1

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00' 200 Feet	CROSSROADS MIXED USE	GRADING & EROSION CONTROL P	T NO. 18-003 SCALE: DATE: 11/23/20	ED BY: CVW 1" = 100' 2
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EX. WATER LINE EX. STORM SEWER LINE LOT NUMBER EX. IRRIGATION VALVE EX. STORM INLET EX. GAS TEST NODE EX. TELEPHONE PEDESTAL EX. ELECTRIC VAULT EX. SANITARY MANHOLE EX. WATER VALVE PROPOSED RIPRAP EXISTING CONCRETE EMERGENCY OVERFLOW DIRECTION	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160	FOR AND ON BEHALF OF	M&S CIVIL CONSULTANTS, INC.	
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LINES

FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG

CALL 1-800-922-1987



GEC V_1 engr comments.pdf Markup Summary

dsdlaforce (6)		
GRADING & ERO: PLAI	Subject: Callout Page Label: [1] GR01 Lock: Unlocked Author: dsdlaforce Date: 1/21/2021 5:05:02 PM Status: Color: Layer: Space:	Revise to Pre-development GEC
	Subject: Image Page Label: [1] GR02 Lock: Unlocked Author: dsdlaforce Date: 1/22/2021 9:19:20 AM Status: Color: Layer: Space:	
	Subject: Callout Page Label: [1] GR02 Lock: Unlocked Author: dsdlaforce Date: 1/22/2021 9:22:05 AM Status: Color: Layer: Space:	Provide a typical road cross section of the road identifying the rough grade elevation for the road (example to the right) or revise contour to rough cut elevation.
	Subject: Callout Page Label: [1] GR02 Lock: Unlocked Author: dsdlaforce Date: 1/25/2021 3:45:23 PM Status: Color: Layer: Space:	include hatching in the legend
	Subject: Cloud+ Page Label: [1] GR02 Lock: Unlocked Author: dsdlaforce Date: 1/25/2021 3:45:45 PM Status: Color: Layer: Space:	Unclear how this will be phased with the construction of the underground detention facility. Plans must be revised if the underground facility deviation request is approved.

	Subject: Callout Page Label: [1] GR02 Lock: Unlocked Author: dsdlaforce Date: 1/25/2021 3:46:19 PM Status: Color: Layer: Space:	Move VTC to the western side of the intersection since the early grading includes meadowbrook parkway. Update the FAE accordingly
GReese (22)		
SP-20-011). CDR 18-XXX	Subject: SW - Text Box Page Label: [1] GR01 Lock: Unlocked Author: GReese Date: 12/28/2020 1:00:30 PM Status: Color: ■ Layer: Space:	SP-20-011
ROL ext	Subject: Stormwater Comment Legend Page Label: [1] GR01 Lock: Unlocked Author: GReese Date: 12/28/2020 1:00:39 PM Status: Color: Layer: Space:	
	Subject: SW - Text Box Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/28/2020 1:26:25 PM Status: Color: ■ Layer: Space:	Checklist Item "i" - add a note discussing condition of existing vegetation
	Subject: Image Page Label: [1] GR03 Lock: Unlocked Author: GReese Date: 12/28/2020 1:30:23 PM Status: Color: Layer: Space:	
	Subject: SW - Text Box Page Label: [1] GR03 Lock: Unlocked Author: GReese Date: 12/28/2020 1:30:30 PM Status: Color: ■ Layer: Space:	Include details for the following BMP's that are shown on the GEC Plan and Legend on the previous sheet. Examples of acceptable details are also provided in the following table:

	Subject: SW - Text Box Page Label: [1] GR03 Lock: Unlocked Author: GReese Date: 12/28/2020 1:30:54 PM Status: Color: ■ Layer: Space:	Also provide a detail for Mulching since it is included in the FAE
	Subject: Image Page Label: [1] GR03 Lock: Unlocked Author: GReese Date: 12/28/2020 1:30:57 PM Status: Color: Layer: Space:	
	Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/28/2020 1:37:11 PM Status: Color: ■ Layer: Space:	Checklist Item "o" - Callout offsite grading. And note that offsite grading will need a "Work in the ROW" permit and provide copy of owner permission to EPC
	Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/28/2020 1:39:55 PM Status: Color: ■ Layer: Space:	Show actual size of VTC (75ft long by 20ft wide)
	Subject: SW - Rectangle Page Label: [1] GR01 Lock: Unlocked Author: GReese Date: 12/28/2020 2:34:28 PM Status: Color: Layer: Space:	
Review to match test in Characteristics from Yor Packadat from Yor Face con	Subject: SW - Comment Page Label: [1] GR01 Lock: Unlocked Author: GReese Date: 12/28/2020 2:36:03 PM Status: Color: ■ Layer: Space:	Revise to match text in Checklist Item "hh"

SU COUNTT: Subject: SW - Comment Volumes 1 and 2 Page Label: [1] GR01 Lock: Unlocked Author: GReese Date: 12/28/2020 2:43:45 PM Status: Color: Layer: Space: Subject: SW - Comment Label as "Standard Notes for El Paso County Page Label: [1] GR01 Grading and Erosion Control Plans" Lock: Unlocked GRADING AND FROSION C Author: GReese 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A AND A PRECONSTRUCTION CONFERENCE IS HI Date: 12/28/2020 2:57:46 PM Status: Color: Layer: Space: Subject: SW - Comment See GEC Checklist for exact GEC Notes. Many of Page Label: [1] GR01 the ones below need to be modified, are out of Lock: Unlocked order, or are incomplete. There should only be 29. Author: GReese Date: 12/28/2020 2:58:32 PM USE OR THREATEN TO CAUSE POLLUTION, CONTAMIN Status: Color: Layer: Space: Subject: SW - Comment Temporary Sediment Basin: Provide details of Page Label: [1] GR02 temporary sediment basin, including riser pipe Lock: Unlocked perforation sizing, number of rows, required Author: GReese volume, and tributary area to the sediment basin. Date: 12/28/2020 3:00:30 PM Status: Color: Layer: Space: Subject: SW - Comment Include page SB-6 as well and circle/highlight row Page Label: [1] GR03 of Table SB-1 that is applicable to this site. Lock: Unlocked Author: GReese Date: 12/28/2020 3:03:22 PM Status: Color: Layer: Space: Subject: SW - Rectangle Page Label: [1] GR02 PROF MAINTENANCE Lock: Unlocked _E Author: GReese . 6294 -Date: 12/30/2020 9:05:19 AM Status: Color: Layer:

Space:



Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/30/2020 9:05:22 AM Status: Color: Layer: Space:

Access ramp shall be a minimum of 15 ft wide, in accordance with DCM Vol. 1 Section 11.2.2



Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/30/2020 9:18:59 AM Status: Color: Layer: Space:

Modify VTC hatching length to match detail (75ft min length)



Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/30/2020 9:44:16 AM Status: Color: Layer: Space:



Subject: SW - Comment Page Label: [1] GR02 Date: 12/30/2020 9:45:34 AM then collected by the next downstream ED/DS's? Either way, there likely needs to be a swale along the site perimeter to direct flow to the next ED/DS or all the way to the SB.

Is the concentrated runoff from these two ED/DS's

Lock: Unlocked Author: GReese Status: Color: Layer: Space:



Subject: SW - Comment Page Label: [1] GR02 Lock: Unlocked Author: GReese Date: 12/30/2020 9:56:52 AM Status: Color: Layer: Space:

It looks like runoff from this ED/DS is designed to flow towards the site entrance. Consider adding a culvert under entrance road to allow concentrated flow to go under it. And then may need to add a swale to direct concentrated flow to the next ED/DS or to the western swale.

There will be a significant amount of flow entering the SB at this point. There needs to be a piped rundown, riprap, or a combo of both to prevent significant erosion. The single SBB just upstream will not be sufficient for flows coming from the swale and berm.

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