



LORSON RANCH
LORSON BOULEVARD BRIDGE
GRADING PLAN & EROSION CONTROL PLAN
EL PASO COUNTY, COLORADO

| Project ! | Vo.: | 17001 |
|-----------|-------|-------|
| Date: | 2/26, | /18 |
| Design: | RNW | |
| Drawn: | EAK | |
| Check: | RNW | |
| Revision | s: | |
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LORSON BOULEVARD BRIDGE GRADING & EROSION CONTROL PLAN EL PASO COUNTY, COLORADO RANCH LORSON

STABLITTO STADING APEA WANTERWICE NOTES

5. STABILIZED STACING ANEA SHILL BE DRANGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND LINEAGUNG/LOADING OPPERATIONS.

HOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANAFAR MATERIAL FOR STABLED STAGING AREAS DUE TO DEFOLUTIES WITH RE-ESTABLISHMENT OF MEDITATION MALES WHOM RECYCLED CONCRETE WAS FLACTO.

NOTE: MANY JURSDOTIONS HAVE BMP DETAILS THAT YARY FROM LOFGO STANDARD DETAILS. CONJUST WITH LOCAL JURGOCTIONS AS TO WHICH DETAIL SHOULD BE USED WHICH DIFFERENCES ARE NOTED.

SM-6

SM-6

Stabilized Staging Area (SSA)

(SSA)

Stabilized Staging Area (SSA)

SSA-1. STABILIZED STAGING AREA

STABILIZED STACING AREA INSTALLATION MOTES SCE PLAN WEN FOR

-CONTINUED WENT ADMISS LOCATION AND SUZE OF STADING AREA WITH APPROVAL
FROM THE COCK, LINESCHOOL AND SUZE OF STADING AREA WITH APPROVAL
FROM THE COCK, LINESCHOOL AND SUZE OF STADING AREA WITH APPROVAL

2. STABILITY STADING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. 4. THE STABLIZED STACING AREA SHALL CONSIST OF A MINIMAN 3" DECK GRAVELAN

S. UNIESS CHIEFRISE SPECIFIE BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. \$703, MISHTO \$3 COARSE ACCREDATE OR 5" (MRHJS) ROCK. 6. ADDITIONAL PERMETER DAPA MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SLIF FENCE AND CONSTRUCTION FENCING. STAGELIZED STAGING AREA MAINTENANCE MOTES

AND THE PROPERTY WAS AND THE PROPERTY OF THE P FREQUENT DESERVATIONS AND MAINTENANCE ARE RECESSARY TO MAINTAIN BARY IN EFFECTIVE OPERATURE CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED TRANSPORTED.

3. WHERE DUPS HAVE FALED, REPAR OR REPLACEMENT SHOULD BE INTUITED UPON INCOMEN OF THE FALER.

4. ROOK SHALL BE REAPPLIED OR RECRUDED AS NECESSARY IF RUTTING OCCURS OR UNCERTAIN SURCEMENT RECEMES EXPOSED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

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

Concrete Washout Area (CWA)

(CWA) UNDISTURBED OR VEHICLE TRACKING CONTROL (SEE VIC -DETAIL)

SECTION A CWA-1. CONCRETE WASHOUT AREA

1. SEE PLAN VIEW FOR -CWA INSTALLATION LOCATION.

CHA MODILIZION LOCUMED.

CHA MODILIZION CHARACTER AND MODILIZIONE PATRICIPAL DISSISSE PATRICIPAL DISSISSE

4. CHA SHALL INCLUDE A FLAT SUBFURFACE HIT SHALL BE 3:1 OR FLATTER THE INT SHALL BE AT LEAST 3 CIEF.

5. SOWN SUPROUNDING SIDES AND BACK OF THE CHIL SHALL HAVE MINIMUM HEIGHT OF 1". POPUL TRACKED PIO SPILL SE SUPED 23 INDICES SHALL HAVE VINIALISH HEIGHT OF 1°.
 SUPE SHALL SE PLACES AS THE CONSTRUCTION ENTRACES, AT THE COM, AND ESSENDED AS INCESSANCE TO CLUMP PROCEET THE LOCATION OF THE COM TO OPPORTUNITY OF CONTROLS THE LOCATION OF THE COM TO OPPORTUNITY OF CONTROLS THE LOCATION OF THE COM TO OPPORTUNITY.

8. USE EXCAVATED NATERIAL FOR PERSUETER BERN CONSTRUCTION.

November 2010

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

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MM-1

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

Concrete Washout Area (CWA)

2. FREQUENT OBSERVATIONS AND MANTENANCE ARE RECESSARY TO MAINTAIN BURY IN EFFECTIVE OPERATING CONCILION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THEORY LINES. J. THERE BUP'S HAVE FALED, REPART OR REPLACEMENT SHOULD BE INTUITED UPON DISCOVERY OF THE FALLIRE.

4. THE CHA SHALL BE REPARED, CLEMED, OR DRARGED AS RECESSARY TO MARTAN CANOTY FOR CONCRITE MASTE, CONCRITE MATERIAS, ACQUIRATED IN PIT, SHALL BE REMOVED ONCE THE MATERIAS HAVE REMOVED A DEPTH OF 2".

5. CONCRETE MALHOUT WATER, WASTED PRICES OF CONCRETE AND ALL OTHER DEEPES IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TRUST CONTAINER AND CEPTODES OF PROPERTY. 6 THE CHA SHILL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED 7, WHEN THE CHAN'S PENONED, COMER THE DISTANCED AREA WITH TOP SOL, SEED AND MALCH OR OTHERWISE STABLETED IN A MANNER APPROVED BY THE LOCAL AURESCICTION.

EDIA, NAPED HON HOUSEN COUNTY, COLONIO ARE THE CITY PARKE, COLONIA, NET MARKER IN NETWOOD,
HOLD, MARY JURISOCIONES HALE BAY DETAILS THAT WARY FROM LOCAD STANDARD DETAILS.
CONSIGNT WITH LOCAL JURISOCIONES AS TO WHICH DETAIL SHOULD BE USED WHICH
DETERFACES ARE NOTED.

Project No.: 17001

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Date: 2/26/18

Design: RNW

Drawn: EAK

Check: RNW

Revisions:

ING AND MULCHING

TYPE OF SEED MIX

TYPE OF SECHMIX

ALL BRANDS FURNISHED SHALL BE FREE FROM SUCH NOXIOUS SEEDS AS RUSSIAN OR CANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KVAP WEED AND LEAFY SPURCE

THE SEEDER SHALL FURNISHED TO THE CONTRACTOR A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY. SEED WHICH HAS BECOME WET, MOLDY OR OTHERWISE DAMAGED IN TRAINSIT OR IN STORAGE WILL NOT BE ACCEPTABLE. SEED TICKETS SHALL BE PROVIDED TO REGULATING ACENCY UPON REQUEST.

DRILL SEEDING MIX SHALL CONFORM TO THE TABLE ON THE RIGHT.

IF THE SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION PERCENTAGES SPECIFIED, THE SUBCONTRACTOR MUST COMPENSATE FOR A LESSER PERCENTAGE OF PURITY OR GERMINATION BY FURNISHING SUFFICIENT ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT. THE TAGS FROM THE SEED MIXES MUST BE SUPPLIED TO CONTRACTOR OR THE FORMULA USED FOR DETERMINING THE QUANTITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) ** POUNDS OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) ** POUNDS OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) ** POUNDS OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) ** POUNDS OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) ** POUNDS OF PURE LIVE

SEED (PLS).

PERMANENT SEED MIX SHALL BE USED UNLESS OTHERWISE APPROVED BY THE REGULATING AGENCY.

ALL AREAS TO BE SEEDED AND MULCHED SHALL HAVE NATIVE TOPSOIL OR APPROVED SOIL AMENDMENTS SPREAD TO A DEPTH OF AT LEAST 6 INCHES (LOOSE
DEPTH) HAUL ROADS AND OTHER COMPACTED AREAS SHALL BE LOOSENED TO A DEPTH OF 6 INCHES PRIOR TO SPREADING TOPSOILS

SOIL IS TO BE THOROUGHLY LOOSENED (ILLEO) TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO SPEADING. THE TOP 6 INCHES OF THE SEED BED SHALL BE FREE OF
ROCKS GREATER THAN 4 INCHES AND SOIL CLODS GREATER THAN 2 INCHES. SEEDING OVER ANY COMPACTED AREAS THAT HAVEN'T BEEN THOROUGHLY

LOOSENED SHALL BE REJECTED.

LOOSENED SHALL BE REJECTED.
SEED IS TO BE APPLIED USING A MECHANICAL DRILL TO A DEPTH OF 1/4 INCH. ROW SPACING SHALL BE NO MORE THAN 5 INCHES. MATERIAL USED FOR MULCH SHALL CONSIST OF LONG-STEMMED STRAW, AT LEAST 50 PERCENT OF THE MULCH, BY WEIGHT, SHALL BE 10 INCHES OR MORE IN LENGTH, MULCH SHALL BE APPLIED AND MECHANICALLY ANCHORED TO A DEPTH OF AT LEAST 2 INCHES. MULCH SHALL BE APPLIED AT A RATE OF 4000 LB. OF STRAWPER ACRE.
IF THE PERMITTEE DEMONSTRATES TO THE REQULATING AGENCY THAT ITS NOT POSSIBLE TO DRILL SEED, SIS TO BE UNFORMED'S ROADCAST AT TWO TIMES THE DRILLED RATE, THEN LIGHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4 INCH., THEN ROLLED TO COMPACT, THEN MULCHED AS SPECIFIED ARROYS.

ABOVE.
SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 30 DAYS OF INITIAL EXPOSURE OR 7 DAYS AFTER GRADING IS SUBSTANTIALLY COMPLETE IN A GIVEN AREA (
AS DEFINED BY THE REGULATING AGENCY). THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING. MULCH SHALL BE APPLIED WITHIN 24 HOURS OF SEEDING.
TACKIFIER SHOULD BE UTILIZED TO HELP WITH STRAW DISPLACEMENT.

SEEDING AND MULCHING MAINTENANCE NOTES

SEEDED AND MULCHED AREAS SHALL BE INSPECTED FOR REQUIRED COVERAGE MONTHLY FOR A PERIOD OF TWO YEARS FOLLOWING INITIAL SEEDING, REPAIRS AND RE-SEEDING AND MULCHING SHALL BE UNDERTRICEN AFTER REQUIRED COVERAGE. FOR ANY AREAS FALLING TO MEET THE REQUIRED COVERAGE. PROPERTY OF THE SEED MERCHAGE FOR THE SEED OVERAGE FOR THE SEED MERCHAGE SHALL BE OFFICE WARREY AND SPECIES FOUND IN THE DOUGLAS OF THALL BE OF THE WARREY AND SPECIES FOUND IN THE DOUGLAS OF THALL BE OF THE WARREY AND SPECIES FOUND IN THE DOUGLAS OF THE SEED MERCHAGE FOR THALL BE OF THE WARREY AND SPECIES FOUND IN THE DOUGLAS OF THE SEED MERCHAGE FOR THALL SAS RESERVED.

2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO FEET BY 2 NO BARE AREAS LANGER FRANK SUDARE FEEL (TWO-FEEL B)
TWO-FEET OR EQUIVALENCY
3. FREE OF ERODED AREAS.
4. FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH
SECTION 6.4 OF THE GESC CRITERIA MANUAL.
REQUIRED COVERAGE FOR TURE GRASS AREAS SHALL BE DEFINED AS

NEGUINED COVERAGE FOR TURE GRASS AREAS SHALL BE DEFINED.

1. AT LEAST 80% VEGETATIVE COVER OF GRASS SPECIES PLANTED.

2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY TWO-FEET OR EQUIVALENT.

3. FREE OF REOUDE AREAS.

FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 6.4 OF THE GESC CRITERIA MANUAL

RILL AND GULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO RESEEDING. THE RESEEDING METHOD SHALL BE APPROVED BY THE COUNTY.

SEEDING AND MULCH

SM)

Silt Fence (SF)

DOSTING _

J. John

ROTATE SECOND

SLT PENCE .

COMPACTED

SILT FENCE

SECTION A

SF-1. SILT FENCE

:75' MIN

POSTS SHALL OVERLAP IGNIS SO THAT NO CAPS -DIST IN SLI FENCE!

SC-1

Silt Fence (SF)

SAT FENCE INSTALLATION NOTES

SC-1

2. A UNFORM &" X 4" ANCHOR TRENCH SHALL BE EXCANATED USING TRENCHER OR SLI FENCE INSTALLATION DEVICE. NO ROAD GRACERS, BACCHOES, OR SMALER ECOMMENT SHALL 3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SLT FONCE RESISTS BEING PULLED DUT OF ANCHOR TRENCH BY HAND.

A SLI FENCE SHALL BE PAULED THAT AS IT IS ANCHORED TO THE STATES, THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STATES AFTER IT HAS BEEN ANCHORED TO THE STATES. S. SET FORCE FARRO SHALL BE ANOMORED TO THE STARES USING 1" HEAVY DUTY STAPLES OR HALS WITH 1" HEADS. STAPLES AND HALS SHOULD BE PLACED 3" ALONG THE FRANCE DOWN THE STAPLES

6. AT INC. DB OF A RON OF SAT FORCE ADMG A CONTOUR, THE SAT FORCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CHEMIC A "3-HOOK". THE "3-HOOK" TO THE CONTOUR SHOULD BE OF SUFFRICION LEDGED TO ASSESS PROPERTY OF THE SATE FROM A CONTOUR TO THE CONTOUR SHOULD BE OF SUFFRICION LEDGED TO ASSESS PROPERTY OF THE SATE FROM THE CONTOUR SHOULD BE OF THE SATE FROM THE SA

7. SET FONCE SHALL BE INSTALLED PRICH TO ANY LAND DISTURBING ACTIVITIES. SET FENCE WANTENWACE NOTES

1. INSPECT BUTS CACH WORKER, AND MANTAIN THEM IN EFFECTIVE OPERATING CONDITION.

MAINTENANCE OF BUTS SHOULD BE PROJECTIVE, NOT REACHNEL PROFECT BUTS AS SOON AS
POSSIBLE (AND AURIST WITHOUT A FOUNDAMENT A STORM THAT CAUSES SURFACE
ENDOWN, AND PROPONIN INCESSING MANTENANCE.

FREQUENT OBSERVATIONS AND MAINTENANCE AND RECESSARY TO MAINTAIN BMPM IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGH.

3. WHERE BLIPS HAVE FALLD, REPAR OR REPLACEMENT SHOULD BE INTIATED UPON 4. SEDMENT ACCUMULATED UPSTREAM OF THE SLI FENCE SHALL BE PENOVED AS NEEDED TO MINTAIN THE PROPERTY OF THE BUP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDMENTS IS APPROXIMATELY AC-

5. REPAIR OF REPLACE SLT FENCE WITH THERE ARE SIGNS OF WEAR, SUCH AS SLOCKED

6. SLI FENCE IS TO RELIAN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABLUZED AND APPROVED BY THE LOCAL AURISOCTION, OR IS REPLACED BY AN EQUIPALISH PERMISTER. 7. WHON SLT FONCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOL, SEEDED AND MULCHED OR CITHERMISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BUP DETAILS THAT WAY FROM MOFCE STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DETERBOOKS AND ADMINISTRATIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

Urban Drainage and Flood Control District

PROJECT SPECIFIC GRADING AND EROSION CONTROL NOTES

All earthwork required of this construction shall be completed in accordance with all applicable sections of the Project Specifications and Soil Investigation Report (Geotechnical Report). Rubbish including timber, concrete rubble, trees, brush, and asphalt shall not be backfilled adjacent to any of the structures or be in the placement of any undassified fill. The Contractor shall be responsible for the removal and hauling of such materials to a suitable spoil area. Costs associated with the removal of such materials shall be paid for as documented in the Project Specifications. Excess excavation shall become the property of the Contractor and shall be disposed of at the Contractor's expense. The cost of haulage and spoiling of excess excavated materials shall be paid for as documented in the Project Specifications.

Project Specifications.

Water shall be used as a dust palliative as required and shall be included in the cost for earthwork item(s). No

separate payment will be made for dust control associated with the site consti The road grades shall be cleared of vegetation and the topsoil stockpiled for it

All grading shall be in conformance with the Geotechnical Report for the area.

Placement of fill for roadway embankments shall be completed in conformance with the Geotechnical Report for the area.

Placement of fill for roadway embankments shall be completed in conformance with the Geotechnical Report. Grading contours shown on this plan are to final grade.

Compaction under filled areas, including roadway and detention basin embankments, shall be 95 percent of the maximum Standard Proctor Density (ASTM DS99) at two (2) percent of opinimum moisture content. No rubble or debris shall be placed in the backfill under any of the proposed buildings, streets, curb & gutter, sidewalk and drainage structures or within five (5) feet of a building footprint. Property graded rubble may be used in some locations as specified and venticed by the Geotechnical Engineer.

Contractor is responsible for reviewing the site prior to bidding to verify site conditions.

Contractor is responsible for providing erosion control measures as approved by the EI Paso County PCD Engineering Division and as may be required by the EI Paso County Inspector.

All slopes equal to or greater than 3:1 shall require anchored soil retention blanket (SRB), Geocoir 700 or equal. The Developer is responsible for maintaining erosion control measures until a mature stage of vegetation is established.

14. The Developer is responsible for maintaining erosion control measures until a mature stage of vegetation is established.

15. All soils used for fill must be approved by a representative of the Geotechnical Engineer.

16. All natural ground to receive fill must be properly scarified, watered and compacted prior to placing fill.

17. The Contractor is soldly responsible for the design, maintenance and operation of any required dewatering system. The Contractor shall perform such independent investigation as he deems necessary to satisfy himself as to the subsurface groundwater conditions and unstable soil conditions to be encountered throughout the construction. Contractor shall coordinate the devatering system with EI Paso County when associated with public facilities.

18. No fill shall be placed, spread or rolled while it is frozen, thawing or during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until a representative of the Geotechnical Engineer indicates that the moisture content and density of the previously placed fill are as specified. Fill surfaces may be scarified and recompacted after rainfall if necessary, to obtain proper moisture density relation.

19. Additional erosion control structures and/or grading may be required at the time of construction.

20. Sediment removal for erosion control facilities shall be performed continuously for proper function.

21. Base mapping was provided by Core Engineeting. The date of the last survey update was January 2016.

22. Proposed Construction: pending

Begin Construction: pending End Construction: pending

Total Site Area = 5 Acres

23. Area to be disturbed = 2.5 Acres (est.). Existing 100-year runoff coefficient = 0.25 Proposed 100-year runoff coefficient = 0.25 Existing Hydrologic Soil Groups: B/C (B ASCALON SANDY LOAM)

Site is currently undeveloped and covered with native grasses on moderate to steep slopes (3%-6%). Site is located in the Jimmy Camp Creek Drainage Basin.

SEED MIX

AREAS DISTURBED BY THE EARTHWORK SHALL BE PERMANENTLY REVEGETATED WITH NATIVE GRASSES. NATIVE SEED MIX FOR THIS

SPECIES SWITCH GRASS JUNE GRASS

SM-4

SEEDING APPLICATION: DRILL SEED 1/4" TO 1/2" INTO TOPSOIL IN AREAS INACCESSIBLE TO A DRILL HAND BROADCAST AT DOUBLE THE RATE AND RAKE 1/4" TO 1/2" INTO THE TOPSOIL MILCHING APPLICATION: 1–1/2 TONS NATIVE HAY PER ACRE, MECHANICALLY CRIMPED INTO THE TOPSOIL OR HYDROMULCH.

SM-4

Vehicle Tracking Control (VTC)

SCEWALK OR OTHER

NSTALL ROOK FLUSH WITH ____

10000

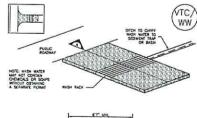
SM-4

VTC

NON-WOVEN GEGTEXTILE FABRE

SM-4

Vehicle Tracking Control (VTC)



SECTION A

VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-1, AGGREGATE VEHICLE TRACKING CONTROL

SECTION A

Urban Drainage and Flood Control District

Urban Drainage and Flood Control District

CONSTRUCTION MATS, WOVE OR TURF REINFORCEMENT

RESTRICT CONST. VEHICLE

VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION
MAT OR TURF REINFORCEMENT MAT (TRM)

Vehicle Tracking Control (VTC)

VTC-5

THE END OVERAP MEH SPIKES OR STAKES

STABILIZED CONSTRUCTION ENTRANCE/ENT INSTALLATION HOTES SEE PLAN VIEW FOR

-LOCALION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).

-THPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/MITHOUT WHEEL WASH,
CONSTRUCTION MAY OF THUS

STABLIZED CONSTRUCTION ENTRANCE/ENT MAINTENANCE MOTES

CONSTRUCTION MAT OR TRIM STABILIZED CONSTRUCTION ENTRANCES ARE DIALY TO BE USED ON SHORT DURATION PROCESS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WELL BE LIGHTED WENGLAR MCCESS.

3. A STABLIZED CONSTRUCTION INTRANCE/DUT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VIDICLES ACCESS THE CONSTRUCTION SITE FROM PARED RIGHT-OF-WAYS.

4. STABULED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PROP TO MY LAND DISTURBING ACTIVITIES. 5 A NON-MOVEN CONTEXTER FARRY SHALL BE PLACED UNDER THE STABLIZED CONSTRUCTION ENTRANCE/ENT PROP TO THE PLACEMENT OF MOOK. 8. UNLESS OTHERWISE SPECIFED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. \$703, ANSHITO \$3 COURSE ACCREGATE ON 6" (MINUS) ROCK

MSPECT BUPS EACH WORKDAY, AND WANTAN THOU IN EFFECTIVE OPERATING CONDITION
WINITERANCE OF BUPS SHOULD BE PROJECTIVE, NOT REACTIVE, INSPECT BUPS AS 500M AS
POSSIBLE (AND ALMATS WITHIN 28 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE
ENDION, AND PREFERRING PERSONS.

2. FREDUENT DESERVATIONS AND MANTENANCE ARE NECESSARY TO MAINTAIN BUPE IN EFFECTIVE OPERATIVE CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DECLINED TO THORSE THE TOTAL BE

3. INVEST BUT'S HAVE FALLED, REPAR OR REPLACEMENT SHOULD BE INTAFED UPON

5. SEDWENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE SHIP OF THE DAY BY SHOULDING OR SHEEPING, SEDWENT MAY HOT BE WASHED ONE STORM STORM DRAWS.

NOTE MANY JURISDICTIONS HAVE BUP DETAILS THAT WARY FROM UDGED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHICH DEFFERENCES ARE NOTED.

4. ROCK SHALL BE REAPPLED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/DOT TO MAINTAIN A CONSISTENT DEPTH.

Vehicle Tracking Control (VTC)

STANDARD EPC GRADING AND EROSION CONTROL NOTES

Construction may not commence until a Construction Permit is obtained from Planning and Community
Development Department (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

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 erosino control shall conform to the standards and requirements of the most recent version of the relevant adopted EI Paso County standards, including the Land Development Code, the Engineering Cirteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual, volume 2. Any deviations to regulations and standards must be requested, and appropried in writine.

Drainage Criteria Manual Volume 2. Any deviations to regulations and standards must be requested, and approved in writing.

A separate Stormwater Management Plan (SWMP) for this project shall be completed and an Erosion and Stormwater Stormwater Management Plan (SWMP) 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. The SWMP shall be located on site at all times and shall be kept up to date with work progress and changes in the field.

Once the ESQCP has been issued, the contractor may install the initial stage crossion and sediment control BMP's as indicated on the GEC. A preconstruction meeting between the contractor, engineer, and EI 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.

Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 21 clayers and storkpiles, which are not at final grade, or 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 muched within 21 days after intesting grading. And area that is going to remain an interim for more than 60 days shall also be seeded. All temporary soil erosion control measures and BMP's shall be maintained until permanent soil erosion control measures are implemented and established.

Temporary soil erosion control facilities shall be removed and earth disturbance areas graded and

stabilized with permanent soil erusion control measures pursuant to standards and specification prescribed in the DCM Volume II and the Engineering Criteria Manual (ECM) appears and specification prescribed in the DCM Volume II and the Engineering Criteria Manual (ECM) specification and an advantage of the Company of th

All temporary erosion control facilities including BMPs and all permanent facilities intended to control

9. 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. IO, 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. II. 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 limit the discharge to a non-erosive velocity.

velocity.

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.

B. Erosion control blanketing is to be used on slopes steeper than 3:1.

13 Eroson Control contendency is to be used on suppes sieeper train 3.1.

Reliating, 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. BMPs may be required by El Paso County Department of Public Works if deemed necessary, based on specific Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked offsite shall

15. Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked offsite shall be deaned up and properly disposed of immediately.
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. The owner, site developer, contractor, and/or their authorized agents shall be responsible for the removal of all constructions debris, cit, trash, rock, sediment, and sand that may accumulate in the storm sewer or other drainage conveyance and stormwater appurtenances as a result of site development.
18. 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.
19. No chemicals are to be used by the contractor, which have the potential to be released in stormwater unless permission fort the use of a specific chemical is oranted in writino by the ECM Administrator in

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. O 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 Water subsurface storm drainage system or facilities.

21.No person shall cause the impediment of stormwater flow in the flow line of the curb and gutter or in the

21. No person shall cause the impediment of stormwater flow in the flow line of the curb and gutter or in the dictahine.

22. Individuals shall comply with the "Colorado Water Quality Control Act" (Title 25, Article8, CR5), and the Clean Water Act" (33 USC 1344), in addition to the requirements included in the DCM volume III and the ECM Appendix I. All appropriate permits must be obtained by the Contractor prior to the 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.

23. All construction traffic must enter/exit the site at approved construction access points.

24. Prior to actual construction the permitee 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 wind.

26. The soils report for this site entitled Geotechnical Report Fontaine Boulevard Bridge over East Tributary Jammy Camp Creek, Lorson Ranch, El Paso county, Colorado, prepared by RMG engineers, Sept. 24, 2016 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 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

WQCD - Permits 4300 Cherry Creek Drive South Denver, Colorado 80246-1530 Attn: Permits Unit

OULEVARD BRIDGE
N CONTROL DETAILS
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17001 Project No.: Date: 2/26/18 Design: RNW Drawn: EAK Check: RNW Revisions:

Markup Summary

dsdrice (1)

Seeding and mulching?

Subject: Callout Page Label: 1 Lock: Unlocked

Status:

Checkmark: Unchecked

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Seeding and mulching?