

VICINITY MAP
1"=1000'

Engineer's Statement: This Erosion Control Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County for Grading and Erosion Control Plans. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in the preparation of this plan.



Name: Oliver E. Watts Date: 7/12/21

Engineer's Statement:
The Driller will comply with the requirements of the Grading and Erosion Control Plan.

Name: SSA/12/2021 Date: SSA/12/2021

El Paso County:

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 site. The County does not assume any 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 EDM Section 112, 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 these 2 years, the documents shall be voided for approval including payment of review fees at the Planning and Community Development Director's discretion.

APPROVED
Engineering Department
6/7/21/2021/12:57 PM
El Paso County
Engineering Department

Jennifer Irvine, P.E.
County Engineer / ECD Administrator

INDEX TO SHEETS

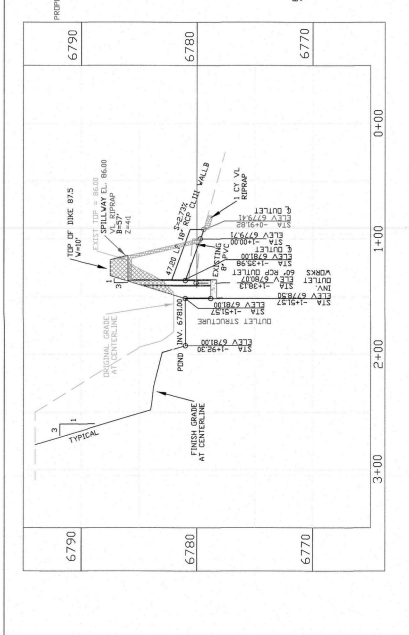
SHEET	TITLE
1	COVER SHEET
2	GRADING AND EROSION CONTROL PLAN
3	EDB DIFILET DETAILS
4	NOTES PAGE
5	EROSION CONTROL DETAILS

Prepared in the Office of:
Oliver E. Watts, Consulting Engineer, Inc.
914 533rd Drive, Colorado Springs, CO 80907
oilewatts@aol.com
Celebrating over 40 years in business

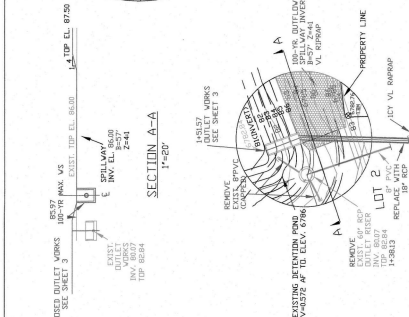
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DESIGNED BY: OLIVER E. WATTS CONSULTING ENGINEER COLORADO SPRINGS	DATE: 06-23-21	REVISED PER COUNTY REVIEW COMMENTS	BY: [Signature]
PROJECT: 16140 OLD DENVER ROAD PART NM174 SEC. 26, T11S, R67W, 6TH P.M. EL PASO COUNTY	DATE: 6-25-21	REVISED PER COUNTY REVIEW COMMENTS	BY: [Signature]
PROJECT: 16140 OLD DENVER ROAD PART NM174 SEC. 26, T11S, R67W, 6TH P.M. EL PASO COUNTY	DATE: 6-25-21	REVISED PER COUNTY REVIEW COMMENTS	BY: [Signature]

CONSTRUCTION DOCUMENT
COVER SHEET

Sheet 1 of 5



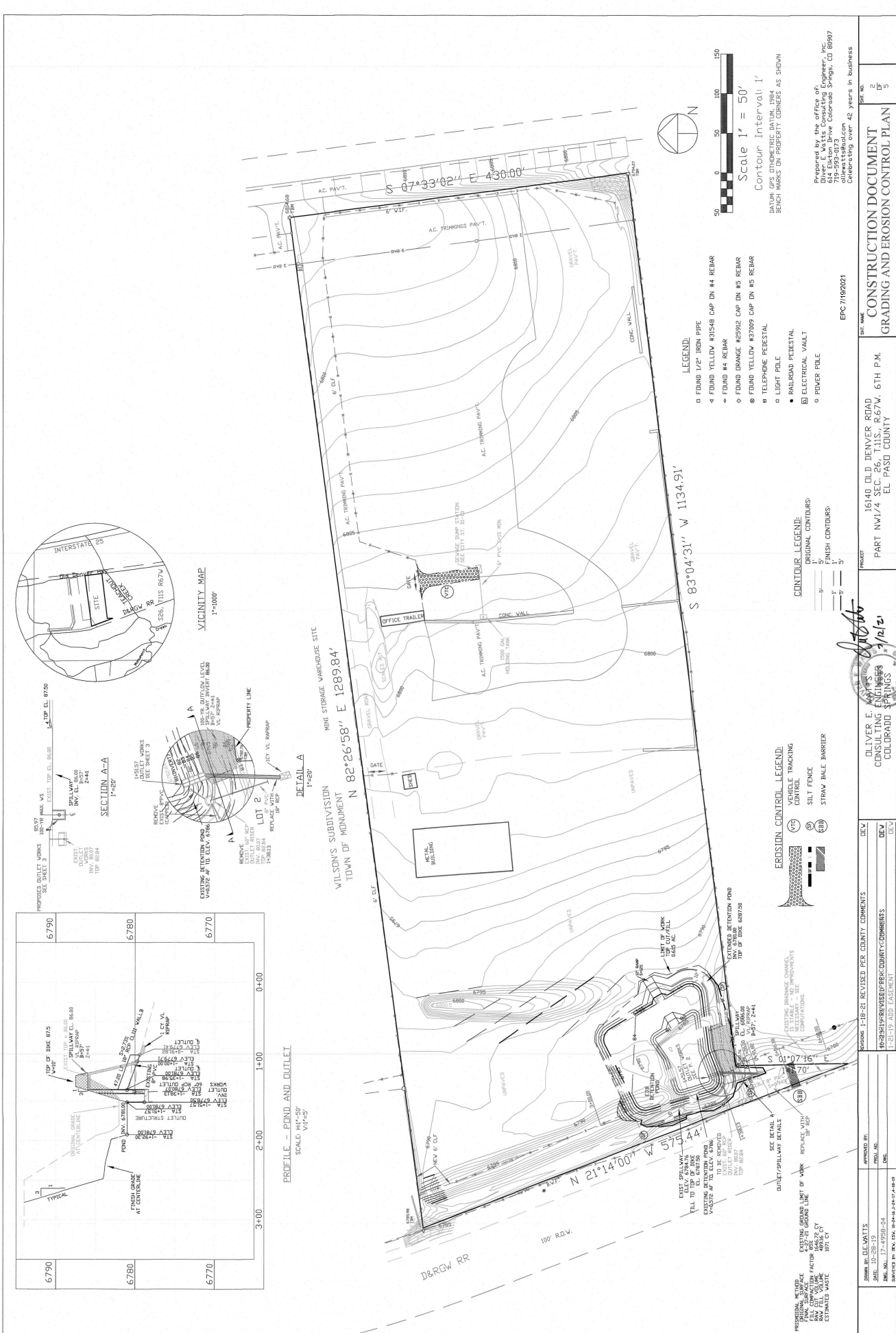
PROFILE - POND AND OUTLET
SCALE: H_T=50'
V_T=5'



SECTION A-A
1"=8'



VICINITY MAP
1"=1000'



WILSON'S SUBDIVISION
TOWN OF MONUMENT
N 82°26'58" E 1289.84'
MINI STORAGE WAREHOUSE SITE

- LEGEND:**
- FOUND 1/2" IRON PIPE
 - ◊ FOUND YELLOW 431548 CAP DN 44 REBAR
 - ◊ FOUND #4 REBAR
 - ◊ FOUND ORANGE #5292 CAP DN #5 REBAR
 - ◊ FOUND YELLOW #37009 CAP DN #5 REBAR
 - TELEPHONE PEDESTAL
 - LIGHT POLE
 - RAILROAD PEDESTAL
 - ELECTRICAL VAULT
 - POWER POLE

- CONTOUR LEGEND:**
- ORIGINAL CONTOURS
 - FINISH CONTOURS

- EROSION CONTROL LEGEND:**
- ▭ TRUCK TRACKING CONTROL
 - ▭ SILT FENCE
 - ▭ STRAW BALE BARRIER

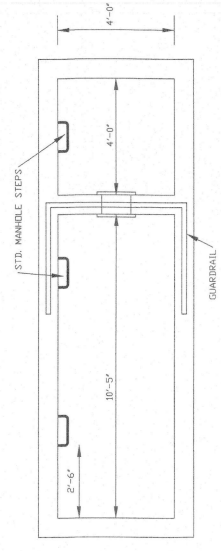


Contour Interval: 1'

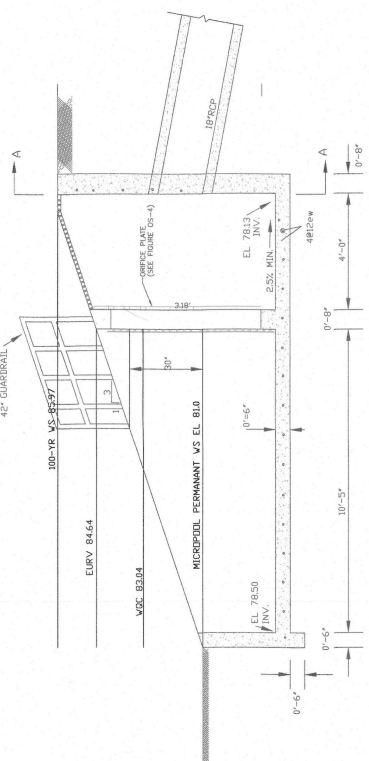
DATUM: G.P.S. DATUM: 1984
BENCH MARKS ON PROPERTY CORNERS AS SHOWN

Prepared by the office of
Oliver E. Watts
504 E. Union Drive, Colorado Springs, CO 80907
719-593-0173
Celebrating over 42 years in business

DATE: 10-28-19	PROJECT: 15,140 OLD DENVER ROAD PART NW 1/4 SEC. 26, T11S, R67W, 6TH P.M. EL PASO COUNTY	SHEET NO. 2
ISSUED BY: D.E.W.	PROJECT: CONSTRUCTION DOCUMENT GRADING AND EROSION CONTROL PLAN	OF 5
DATE: 12-19-19	PROJECT: 15,140 OLD DENVER ROAD PART NW 1/4 SEC. 26, T11S, R67W, 6TH P.M. EL PASO COUNTY	
ISSUED BY: D.E.W.	PROJECT: CONSTRUCTION DOCUMENT GRADING AND EROSION CONTROL PLAN	
DATE: 1-18-21	PROJECT: 15,140 OLD DENVER ROAD PART NW 1/4 SEC. 26, T11S, R67W, 6TH P.M. EL PASO COUNTY	
ISSUED BY: D.E.W.	PROJECT: CONSTRUCTION DOCUMENT GRADING AND EROSION CONTROL PLAN	



OUTLET WORKS PLAN
1/2"=1'-0"



OUTLET WORKS PROFILE
1/2"=1'-0"

NOTES: TRASH BACKS SHOULD BE SIZED PER FIGURE OS-1

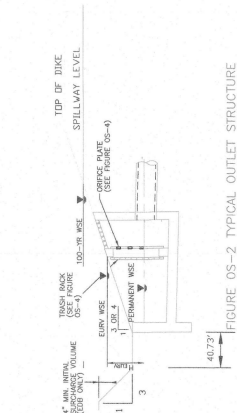
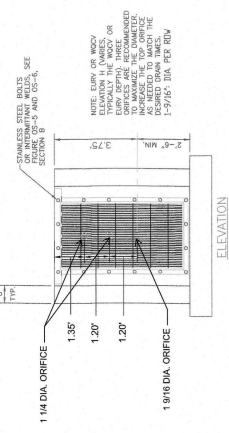


FIGURE OS-2 TYPICAL OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION



ORIFICE PLATE NOTES

1. PROVIDE CONTINUOUS INCONSPICUOUS GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
 2. BOLT PLATE TO CONCRETE 12" ON CENTER MAX.
 3. BOLT OR LOCK WASHER SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE WELDING FRAME.
 4. TRASH BACK TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
 5. TRASH BACK VENA AREAS FOR SPECTROFOT TRASH RACK MATERIALS, TOTAL TRASH BACK SIZE MAY BE INCREASED TO 12" MIN. INCREASE AS NEEDED TO MEET RECOMMENDED OPEN AREA (SEE FIGURE OS-1).
 6. DOWNSTREAM OF THE RACK.
- ORIFICE SAFETY GRATES
1. SAFETY GRATES SHALL BE INSTALLED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR REMOVABLE ACCESS PANELS.
 2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE NOT DFP.
 3. SAFETY GRATES SHALL BE CONSIDERED SUCH THAT THE ORIGINAL WIDTH OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
 4. 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

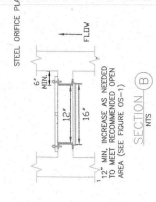
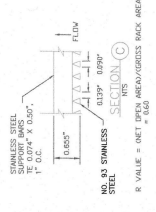
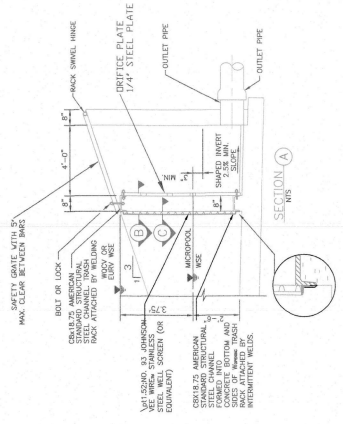


FIGURE OS-5 TYPICAL OUTLET STRUCTURE WITH WELL SCREEN TRASH RACK



OLIVER F. WATTS
CONSULTING ENGINEER
COLORADO SPRINGS

REVISIONS: 4, 27-21 REVISED PER CITY REVIEW COMMENTS
2, 16-21 REVISED PER CITY REVIEW COMMENTS

DESIGNED BY: [Signature]
DATE: 11-19-21
PROJECT NO.: 14-2552-17
DWG. NO.: [Blank]
SCALE: 1/4"=1'-0"

PROJECT: 16140 OLD DENVER ROAD
PART NW1/4 SEC. 26, T11S., R67W., 6TH P.M.
EL PASO COUNTY

DATE: 11/19/21
BY: [Signature]
CHECKED BY: [Signature]
SCALE: 1/4"=1'-0"

FIGURE NO.: EDB OUTLET DETAILS

EPC 7/19/2021

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

1. Stormwater discharge 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 water bodies, including streams.
2. All activities on or near water bodies shall be conducted in accordance with the standards and requirements of the Department of Natural Resources, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be approved in writing by the County Engineer.
3. Stormwater Quality Control Permit (SQCP) issued prior to commencing construction. Management of the SQWP during construction shall be in accordance with the permit conditions. The SQWP shall be located on site at all times during construction and shall be kept up to date with any program changes in the field.
4. The "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved DEC. A Preconstruction Meeting shall be held on site prior to commencement of activities that could contribute pollutants to the receiving water body. The contractor shall be responsible for the installation and maintenance of the SQCP. 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 the receiving water body. The contractor shall be responsible for the installation and maintenance of the SQCP. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.
6. All 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 make any necessary adjustments to the measures. Temporary sediment and erosion control measures must be incorporated into the final stabilization 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. Final stabilization shall be achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with a minimum of 75% ground cover or a permanent soil erosion control measure. Temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.
8. Final stabilization and before permit closure.
9. Proposed changes that affect the design or function of permanent stormwater management structures must be approved in writing by the County Engineer. All disturbances shall be designed, constructed, and completed so that the exposed soil and resulting sedimentation All disturbances shall be designed, constructed, and completed so that the exposed soil and resulting sedimentation shall be protected and maintained within 30 horizontal feet of water of the state unless shown to be infeasible and approved in writing by the County Engineer.
10. Connection 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 and maintained within 30 horizontal feet of water of the state unless shown to be infeasible and approved in writing by the County Engineer.
11. Any temporary or permanent facility designed and constructed for the conveyance of stormwater erosion and through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the conveyance of sediment to the receiving water body.
12. Concrete wash water shall be contained and disposed of in accordance with the SQWP. No wash water shall be discharged to any water body or to any stormwater management facility. Concrete washwater 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.
13. Concrete wash water shall be contained and disposed of in accordance with the SQWP. No wash water shall be discharged to any water body or to any stormwater management facility. Concrete washwater 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. The site in the form of surface runoff unless an approved State dewatering permit is in place.
15. 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, or other debris shall be left on site.
16. Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with applicable regulations. Temporary storage of materials shall be in accordance with applicable regulations.
17. Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with applicable regulations. Temporary storage of materials shall be in accordance with applicable regulations.
18. Tracing of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be removed from the site as soon as possible.
19. The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock, and other materials from the site. The contractor shall be responsible for the removal of all construction debris, dirt, trash, rock, and other materials from the site.
20. The quantity of materials stored on the project site shall be limited as much as practical, to that quantity necessary for the project. All materials shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.
21. The 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, or other debris shall be left on site.
22. For the use of such chemicals, special conditions and monitoring may be required.
23. No person shall dump, store, or otherwise dispose of any materials, equipment, or other items on the project site.
24. No person shall dump, store, or otherwise dispose of any materials, equipment, or other items on the project site.
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.
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EPC 7/19/2021

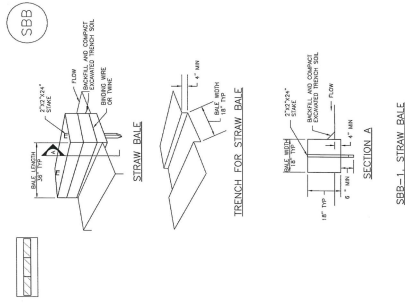
Prepared by the Office of:
Oliver E. Watts, Consulting Engineer, Inc.
13400 S. Washington Drive, Suite 200
Colorado Springs, CO 80907
www.oewatts.com
Colorado State License # 45, expires in business

DATE: 10-25-19	APPROVED BY: [Signature]	REVISION: 5-15-20 REVISED PER COUNTY REVIEW COMMENTS	REV: 1
PROJECT NO: 17-4998-05	PROJECT NAME: 16140 OLD DENVER ROAD	SECTION: SEC. 66-1135-267W, 6TH P.M.	REV: 2
		EL PASO COUNTY	REV: 3
CONSTRUCTION DOCUMENT			
NOTES PAGE			



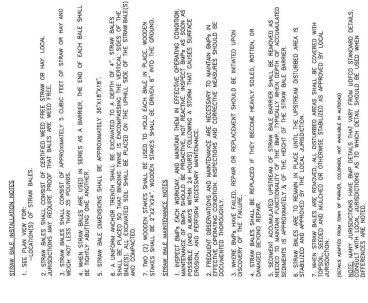
OLIVER E. WATTS
CONSULTING ENGINEER
COLORADO SPRINGS

SC-3 Straw Bale Barrier (SBB)



SBB-1. STRAW BALE
November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC-3 Straw Bale Barrier (SBB)



SBB-1. STRAW BALE
November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

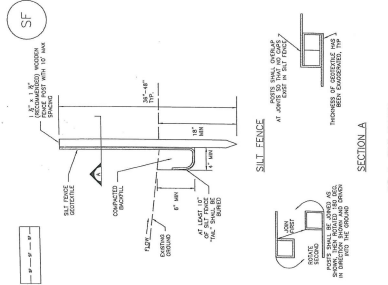
CONSTRUCTION DOCUMENT
GRADING AND EROSION CONTROL PLAN

16140 OLD DENVER ROAD
PART NW1/4 SEC. 26, T.11S., R.67W., 6TH P.M.
EL PASO COUNTY

OLIVER E. WATTS
CONSULTING ENGINEER
COLORADO SPRINGS

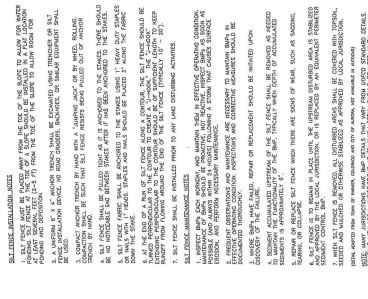
DATE: 10.28.19
DRAWN BY: DE.WATTS
APPROVED BY: [Signature]
SCALE: AS SHOWN
PROJECT NO.: 17-4998-04-B
SHEET NO.: 15 OF 15

SC-1 Silt Fence (SF)

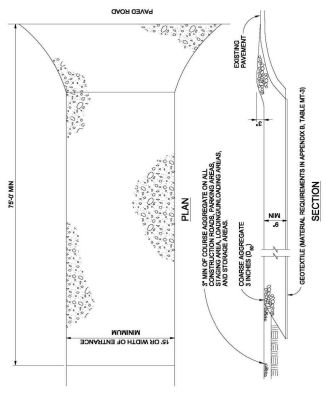


SF-1. SILT FENCE
November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC-1 Silt Fence (SF)



SF-1. SILT FENCE
November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3



VEHICLE TRACKING CONTROL

VEHICLE TRACKING NOTES

- CONSTRUCTION NOTES ARE TO BE BUILT TO SPECIFICATIONS AND STANDARDS THAT ARE INDICATED IN THE DRAWINGS.
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VEHICLE TRACKING

VEHICLE TRACKING NOTES

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL VEHICLE TRACKING AREAS ESPECIALLY AFTER STORM EVENTS.
- VEHICLE TRACKING AREAS SHOULD BE MAINTAINED AND REPAIRED AS NECESSARY.
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MAINTENANCE REQUIREMENTS

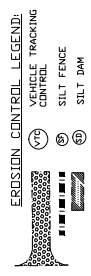
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VEHICLE TRACKING CONTROL LEGEND:

- VEHICLE TRACKING CONTROL
- SILT FENCE
- SILT DAM

City of Colorado Springs
Stormwater Quality

Figure SF-3
Vehicle Tracking
Applicability Examples



APPROVED BY: [Signature]
DATE: 10.28.19
DRAWN BY: DE.WATTS
SCALE: AS SHOWN
PROJECT NO.: 17-4998-04-B
SHEET NO.: 15 OF 15