



**COLORADO**

Department of Public  
Health & Environment

**CERTIFICATION TO DISCHARGE  
UNDER  
CDPS GENERAL PERMIT COR400000  
STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES**

Certification Number: **COR407559**

**This Certification to Discharge specifically authorizes:**

**Owner Challenger Homes  
Operator Challenger Homes**  
to discharge stormwater from the facility identified as

**Bent Grass Residential Filing No. 2**

**To the waters of the State of Colorado, including, but not limited to:**

**Unnamed Tributary, Black Squirrel Creek, Chico Creek**

**Facility Activity :** Residential Development

**Disturbed Acres:** 60.6 acres

**Facility Located at:** Bent Grass Meadows Dr. & Woodmen Rd. Unincorporated CO 80831  
EL PASO County  
Latitude 38.949338 Longitude -104.619839

**Specific Information  
(if applicable):**

**Certification is issued and effective: 12/4/2019**  
**Expiration date of general permit: 3/31/2024**

This certification under the permit requires that specific actions be performed at designated times. The certification holder is legally obligated to comply with all terms and conditions of the permit.

This certification was approved by:  
Meg Parish, Section Manager  
Permits Section  
Water Quality Control Division





## COLORADO

Department of Public  
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

James Byers, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

James Byers, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

DATE: 2019-12-04

**MEMO RE:** Certification, Colorado Discharge Permit System  
Permit No., COR400000, Certification Number: COR407559

**DIVISION CONTACTS:** Joseph Sturgeon, 303-691-4019, Joseph.Sturgeon@state.co.us

**ATTACHMENTS:** Certification COR407559, [COR400000 General Permit](#)

The Water Quality Control Division (the Division) has reviewed the application submitted for the Bent Grass Residential Filing No. 2 facility and determined that it qualifies for coverage under the CDPS General Permit for Stormwater Discharges Associated with Construction Activities (the permit). Enclosed please find a copy of the permit certification, which was issued under the Colorado Water Quality Control Act.

### **FEE INFORMATION: 60.6 acres**

An application fee of \$270 (50% of the annual fee) will be assessed for all new applications. Beginning July 1, 2019 an annual fee of \$540 category 7, subcat - Stormwater Construction >30 acres disturbed per CRS 25-8-502] will be assessed and invoiced every July for as long as the permit certification is in effect.

**It is the responsibility of the permittee to submit a termination application when the permit is no longer needed.** Fees are assessed and invoiced for every permit that is active July 1 of the fiscal year. Permits for which termination applications are received by June 30 of the current fiscal year will not be invoiced for the new fiscal year.

### **CERTIFICATION RECORDS INFORMATION:**

The following information is what the Division records show for this certification.

For any changes to Contacts - Owner, Operator, Facility, or Billing - a "Notice of Change of Contacts form" must be managed through the Division's new platform called the Colorado Environmental Online Services (CEOS). The Notice of Change of Contacts form must be electronically signed by both the owner and the operator.

**Facility:** Bent Grass Residential Filing No. 2

EL PASO County

**Construction Activities** Residential Development

**Owner** (receives all legal documentation pertaining to the permit certification):

James Byers, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

Phone number: (719) 598-5192  
Email: Jim@ChallengerHomes.com

**Operator** (receives all legal documentation pertaining to the permit certification):

James Byers, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

Phone number: (719) 598-5192  
Email: Jim@ChallengerHomes.com

**Facility Contact** (contacted for general inquiries regarding the facility):

Karl Jones, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

Phone number: (719) 598-5192  
Email: Karl@ChallengerHomes.com



**Billing Contact** *(receives the invoice pertaining to the permit certification):*

James Byers, VP of Community Development  
Challenger Homes  
8605 Explorer Drive, Suite 250  
Colorado Springs, CO 80920

Phone number: (719) 598-5192  
Email: [Jim@ChallengerHomes.com](mailto:Jim@ChallengerHomes.com)



# COLORADO

Department of Public  
Health & Environment

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health and environment of the people of Colorado

## ASSIGNED PERMIT NUMBER

Date Received 11/27/2019 13:32:20

MM DD YYYY HH:MM:SS

Revised: 3-2016

## STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

**PHOTO COPIES, FAXED COPIES, PDF COPIES OR EMAILS WILL NOT BE ACCEPTED.**

Any additional information that you would like the Division to consider in developing the permit should be provided with the application. Examples include effluent data and/or modeling and planned pollutant removal strategies.

**Beginning July 1, 2016, invoices will be based on acres disturbed.  
DO NOT PAY THE FEES NOW – Invoices will be sent after the receipt of the application.**

Disturbed Acreage for this application (see page 4)

- ☐ Less than 1 acre (\$83 initial fee, \$165 annual fee)  
☐ 1-30 acres (\$175 initial fee, \$350 annual fee)  
☐ Greater than 30 acres (\$270 initial fee, \$540 annual fee)

### A. PERMIT INFORMATION

#### Reason for Application

- ☒ NEW CERT ☐ RENEW CERT  
☐ MODIFICATION ☐ TRANSFER  
☐ CHANGE OF CONTACT ☐ TERMINATION

Existing Cert # \_\_\_\_\_

### B. PERMITTED PROJECT/FACILITY INFORMATION

Facility Name: Bent Grass Residential Filing No. 2 Original ID: \_\_\_\_\_  
Property Address 1: Bent Grass Meadows Property Address 2: \_\_\_\_\_  
Dr. & Woodmen Rd. County: EL PASO  
City: unincorporated State: CO Zip Code: 80831  
Latitude : 38.949338 Longitude : -104.619839

SIC Code	Description
1629	Heavy construction, nec

Receiving Water Name	Receiving Water Type
Unnamed Tributary	Immediate
Black Squirrel Creek	Ultimate
Chico Creek	Ultimate
Arkansas River	Ultimate

### C. CONTACT INFORMATION

**1) \*OPERATOR – RESPONSIBLE OFFICIAL - the party that has operation control over day to day activities – may be the same as the Owner**

Responsible Person (Title): VP of Community Development First Name: Jim Last Name: Byers  
Telephone No: (719) 598-5192 Email Address: Jim@ChallengerHomes.com Organization: Challenger Homes  
Mailing Address: 8605 Explorer Drive, Suite 250  
City: Colorado Springs State: CO Zip Code: 80920

**2) \*PROPERTY OWNER (CO-PERMITTEE) RESPONSIBLE OFFICIAL**

Responsible Person (Title): VP of Community Development First Name: Jim Last Name: Byers  
Telephone No: (719) 598-5192 Email Address: Jim@ChallengerHomes.com Organization: Challenger Homes  
Mailing Address: 8605 Explorer Drive, Suite 250  
City: Colorado Springs State: CO Zip Code: 80920

**3) \*SITE CONTACT (local contact for questions relating to the facility & discharge authorized by this permit)**

Responsible Person (Title): VP of Community Development First Name: Carl Last Name: Jones  
Telephone No: (719) 598-5192 Email Address: carl@ChallengerHomes.com Organization: Challenger Homes  
Mailing Address: 8605 Explorer Drive, Suite 250  
City: Colorado Springs State: CO Zip Code: 80920

**4) \*BILLING CONTACT**

Responsible Person (Title): VP of Community Development First Name: Jim Last Name: Byers  
Telephone No: (719) 598-5192 Email Address: Jim@ChallengerHomes.com Organization: Challenger Homes  
Mailing Address: 8605 Explorer Drive, Suite 250  
City: Colorado Springs State: CO Zip Code: 80920

**5) OTHER CONTACT TYPES**

Title	First Name	Last Name	Phone	Email	Address	City	State	Zip	Contact Type	Other

**6) Former Permittee (transfer)**

Responsible Person (Title): First Name: Last Name:  
Email Address: Company:

### D. LEGAL DESCRIPTION

Legal description: if subdivided, provide the legal description below, or indicate that it is not applicable. Do not supply Township/Range/Section or metes and bounds description of the site.

Subdivision(s): Filing 2 Lot(s): Lots: 1-121, 31-80 & 99-106 Block(s): Tracts A, B, C, L, M & V

OR

- ☐ Not applicable (site has not been subdivided)  
☐ Facility additional description info

### **E. AREA OF CONSTRUCTION SITE**

Total area of construction site 60.6 acres  
Total area of project disturbance 60.6 acres

### **F. NATURE OF CONSTRUCTION ACTIVITY**

Check the appropriate box(s) or provide a brief description that indicates the general nature of the construction activities. (The full description of activities must be included in the Stormwater Management Plan.)

- ☐ Commercial Development ☒ Residential Development ☐ Highway and Transportation Development  
☐ Pipeline and Utilities (including natural gas, electricity, water, and communications)  
☐ Oil and Gas Exploration and Well Pad Development  
☐ Non-structural and other development (i.e. parks, trails, stream realignment, bank stabilization, demolition, etc.)  
☐ Other \_\_\_\_\_

### **G. ANTICIPATED CONSTRUCTION SCHEDULE**

Construction Start Date: 11/27/2019 Final Stabilization Date: 11/27/2023

- Construction Start Date - This is the day you expect to begin ground disturbing activities, including grubbing, stockpiling, excavating, demolition, and grading activities.
- Final Stabilization Date - in terms of permit coverage, this is when the site is finally stabilized. This means that all ground surface disturbing activities at the site have been completed and all disturbed areas have either been built on, paved, or a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels.
- Permit coverage must be maintained until the site is finally stabilized. Even if you are only doing one part of the project, the estimated final stabilization date must be for the overall project. If permit coverage is still required once your part is completed, the permit certification may be transferred to a new responsible operator.

### **SIGNATURE REQUIREMENTS:**

#### **TERMINATION CERTIFICATION**

- ☐ By checking this box I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity by the general permit. I understand that discharging pollutants in stormwater associated with construction activities to the waters of the State of Colorado, where such discharges are not authorized by a CDPS permit, is unlawful under the Colorado Water Quality Control Act and the Clean Water Act.
- ☒ **STORMWATER MANAGEMENT PLAN CERTIFICATION (on new and renewals)**  
**By checking this box** "I certify under penalty of law that a complete Stormwater Management Plan, has been prepared for my activity. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the Stormwater Management Plan is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for falsely certifying the completion of said SWMP, including the possibility of fine and imprisonment for knowing violations."

#### **THIS PORTION OF THE SIGNATURE LANGUAGE IS REQUIRED ON ALL SUBMITTALS**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I understand that submittal of this application is for coverage under the State of Colorado General Permit for Stormwater Discharges Associated with Construction Activity for the entirety of the construction site/project described and applied for, until such time as the application is amended or the certification is transferred, inactivated, or expired."

Date Signed

Signature of Operator

Name (printed)

Title

Date Signed

Signature of Owner

Name (printed)

Title

Signature: The applicant must be either the owner and operator of the construction site. Refer to Part B of the instructions for additional information. The application must be signed by the applicant to be considered complete. In all cases, it shall be signed as follows:  
(Regulation 61.4 (1ei))

- a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

#### FORMER PERMITTEE used for transfers

Signature (Legally Responsible Party)

Date

Name (printed)

Title

# EL PASO COUNTY



COMMISSIONERS:  
MARK WALLER (CHAIR)  
LONGINOS GONZALEZ, JR. (VICE-CHAIR)

COLORADO

HOLLY WILLIAMS  
STAN VANDERWERF  
CAMI BREMER

PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT  
CRAIG DOSSEY, EXECUTIVE DIRECTOR

## Construction Permit: CON1994

Name of Development/Subdivision: Bent Grass Residential Filing No. 2  
Location of Construction: Bent Grass Meadows Drive and Meridian Road  
Description of Construction / Fee: Early Grading Permit - \$1,637  
Development/Subdivision DSD File Number: EGP 195  
Date of Plan Approval and / or Dev. Agreement: 12/17/19  
Value of Construction: Date / Type of Surety / Provider: ~~\$718,834.45~~ 1,200,434.45

Responsible Person/Company: Lee Eisenheim  
Responsible Party Street Address: 8605 Explorer Dr. Suite 250  
Responsible Party City / State / Zip: Colorado Springs, CO 80920  
Responsible Party Phone / Email: LEisenheim@Challengerhomes.com

### Land Development Code and Engineering Criteria Manual Compliance Guideline Checklist:

- ☒ Preliminary Plan Approval Early Grading or ☐ Development / Subdivision Construction Plan Approval
- ☒ Preliminary Drainage Report Approval or ☐ Final Drainage Letter / Report Approval
- ☒ All County permits obtained  
(May include but not limited to ESQCP, Grading, Access, etc.)
- ☒ Copies of Other Agency / Entity Permits  
(May include but not limited to Colorado Discharge, Construction Activity, Corp of Engineers, Floodplain, Endangered Species, US Fish and Wildlife, etc.)
- ☒ Surety Estimate and appropriate surety posted
- ☒ Pre-construction Meeting / Construction permit fee paid

This is to advise that the person or company responsible for construction of all public and common development improvements, as authorized by this Construction Permit and in accordance with the above referenced development or subdivision improvements agreement agrees to construct the required improvements in full conformance of all County rules, regulations, codes, standards, and ordinances, approved plans, applicable development or subdivision improvements agreement, and development permits or approvals. It is understood and agreed that, upon completion of construction and at the time of any request for release of surety, preliminary or final acceptance, the project's engineer shall certify that the work has been entirely completed, and that it conforms in all respects, with all County rules, regulations, codes, standards, and ordinances, approved plans, applicable development or subdivision improvements agreement, and development permits or approvals; and to all specifications required by the laws and regulations of the State of Colorado.

Applicant Signature

County Representative signature

Notice-to-Proceed will be issued once initial stormwater inspection has been completed.

- Install initial control measures and call El Paso County Stormwater (719) 520-6826 for inspection prior to any additional land disturbance.

2880 INTERNATIONAL CIRCLE, SUITE 110  
PHONE: (719) 520-6300



COLORADO SPRINGS, CO 80910-3127  
FAX: (719) 520-6695

[WWW.ELPASOCO.COM](http://WWW.ELPASOCO.COM)



# EL PASO COUNTY



## Receipt for Fees Paid

Planning and Community Development Department

2880 International Circle, Suite 110, Colorado Springs, Colorado 80910  
Office (719) 520-6300

Date 12/18/19

Customer: CHALLENGER COMMUNITIES LLC  
8605 EXPLORER DR STE 250  
COLORADO SPRINGS, CO 80920

Receipt No. 522708

Processed by PR

Check No. 1978

Payment Method

Item	Description	Prefix	Type	Rate	Qty	Amount
E15	Construction Permit - Early Grading or grading	CON	C	1,600.00	1	1,600.00
3	Surcharge - Projects			37.00	1	37.00
2	PROJECT NAME: BENTGRASS RESIDENTIAL FIL 2 EARLY					0.00
	GRADING EGP195					
1	CUSTOMER NAME: CHALLENGER COMMUNITIES					0.00

**Total \$1,637.00**

**CHALLENGER COMMUNITIES, LLC**8605 EXPLORER DRIVE, SUITE 250  
COLORADO SPRINGS, CO 80920  
719.598.5192**KIRKPATRICK BANK**  
COLORADO SPRINGS, CO 80918  
82-146/1030

1978

PAY

DATE

AMOUNT

EXACTLY \*\*\*\*\*1,637 DOLLARS AND 00 CENTS

12/17/2019

\*\*\*\*\*1,637.00

TO THE  
ORDER  
OF:

El Paso County

*Kim Shoddy*

THE BACK OF THIS DOCUMENT CONTAINS CHECK SECURITY WATERMARK AND COIN REACTIVE INK

⑈001978⑈ ⑆103001469⑆ 2015221506⑈

SUBDIVISION: EGP 195

PRE-CONSTRUCTION MEETING ATTENDANCE LIST

Name: Brad Walters	Name: Rick Spears
Company: El Paso County PCD	Company: El Paso County PCD
Address: 2880 Intl. Cir #110	Address: 2880 Intl. Cir #110
City/St/Z: Colo. Spgs., CO 80910	City/St/Z: Colo. Spgs., CO 80910
Office: 520-6819	Office: 719-520-7949
Mobile: 332-3599	Mobile: 719-238-8637
Email: bradwalters@elpasoco.com	Email: rickspears@elpasoco.com

Name: Elizabeth Nijkamp	Name: Jeff Rice
Company: El Paso County PCD	Company: El Paso County PCD
Address: 2880 Intl. Cir #110	Address: 2880 Intl. Cir #110
City/St/Z: Colo. Spgs., CO 80910	City/St/Z: Colo. Spgs., CO 80910
Office: 520-7852	Office: 520-7877
Mobile:	Mobile:
Email: ElizabethNijkamp@elpasoco.com	Email: jeffrice@elpasoco.com

Name: Kari Parsons	Name: Gabe Valdez
Company: El Paso County PCD	Company: DPW
Address: 2880 Intl. Cir #110	Address:
City/St/Z: Colo. Spgs., CO 80910	City/St/Z:
Office 520-6306	Office: 719-520-7393
Mobile:	Mobile: 719-3310-1821
Email kariparsons@elpasoco.com	Email: gabevaldez@elpasoco.com

Name: KARL JONES	Name: Austin Matheny
Company: Challenger	Company: CMS Environmental Solutions
Address:	Address: 1178 S Broadway St.
City/St/Z:	City/St/Z: Denver, CO 80210
Office:	Office:
Mobile: 719)649-1240	Mobile: 719.551.0233
Email: KARL @ Challengerhomes.	Email:

Com

Kevin Jones  
MowK

Ullmer Rd.  
Col. Spgs.  
719-499-5814

SUBDIVISION: EGP 195

PRE-CONSTRUCTION MEETING ATTENDANCE LIST

Name: CAREENA BARRY	Name:
Company: CHALLENGER HOMES	Company:
Address: 8605 EXPLORER DR #250	Address:
City/St/Z: COLORADO SPRINGS CO	City/St/Z:
Office:	Office:
Mobile: 719-332-0432	Mobile:
Email: CBARRY@CHALLENGERHOMES.COM	Email:

Name: KEVIN JONES	Name:
Company: MONKS	Company:
Address: VOLLMEYER RD.	Address:
City/St/Z: CO. SPRINGS	City/St/Z:
Office:	Office:
Mobile: 719-499-5314	Mobile:
Email: KEVIN.JONES@RE.MONKS.COM	Email:

Name: George Wehner	Name:
Company: Monks	Company:
Address: 8855 Vollmer Rd.	Address:
City/St/Z: Colorado Springs, CO	City/St/Z:
Office: 719-495-3621	Office:
Mobile: 719-491-1875	Mobile:
Email: george.wehner@re.monks.com	Email:

Name:	Name:
Company:	Company:
Address:	Address:
City/St/Z:	City/St/Z:
Office:	Office:
Mobile:	Mobile:
Email:	Email:

2019 Financial Assurance Estimate Form  
(with pre-plat construction)

12-23-19  
Sent Signed Permit  
Adj. FAE to \$1,220,434.45

Updated: 7/16/2019

PROJECT INFORMATION		
Bent Grass Residential Filing No. 2	12/9/2019	XX-XX-XXX
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>							
* Earthwork							
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	=	\$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$ -		\$ -
50,001-200,000; \$175,000 min		CY	\$ 2.50	=	\$ -		\$ -
greater than 200,000; \$500,000 min	X 207,324	CY	\$ 2.00	=	\$ 500,000.00		\$ 500,000.00
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 800.00	=	\$ -		\$ -
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket	2,800	SY	\$ 6.00	=	\$ 16,800.00		\$ 16,800.00
* Permanent Pond/BMP Construction	1	CY	\$ 20.00	=	\$ 20.00		\$ 20.00
* Permanent Pond/BMP (Spillway)	1	EA	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 55,000.00	=	\$ 55,000.00		\$ 55,000.00
Safety Fence	40	LF	\$ 3.00	=	\$ 120.00		\$ 120.00
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control	2	EA	\$ 2,370.00	=	\$ 4,740.00		\$ 4,740.00
Silt Fence	12,792	LF	\$ 2.50	=	\$ 31,980.00		\$ 31,980.00
Temporary Seeding	42	AC	\$ 628.00	=	\$ 26,376.00		\$ 26,376.00
Temporary Mulch	42	AC	\$ 750.00	=	\$ 31,500.00		\$ 31,500.00
Erosion Bales	170	EA	\$ 25.00	=	\$ 4,250.00		\$ 4,250.00
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	11	EA	\$ 167.00	=	\$ 1,837.00		\$ 1,837.00
Sediment Basin	2	EA	\$ 1,762.00	=	\$ 3,524.00		\$ 3,524.00
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>					=	\$ 36,787.45	\$ 36,787.45
<b>Section 1 Subtotal</b>					=	\$ 718,834.45	\$ 718,834.45
<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 88.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 300.00	=	\$ -		\$ -
Guide/Street Name Sign		EA		=	\$ -		\$ -
Epoxy Pavement Marking		SF	\$ 13.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,150.00	=	\$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 61.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -

PROJECT INFORMATION							
Bent Grass Residential Filing No. 2				12/9/2019		XX-XX-XXX	
Project Name				Date		PCD File No.	
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
[insert items not listed but part of construction plans]							
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size =				=	\$ -		\$ -
(unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size =				=	\$ -		\$ -
(unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 9,918.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size ( W x H )		LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap	4,300	CY	\$ 112.00	=	481,600.00		481,600.00
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]							
				=	\$ -		\$ -
<b>Section 2 Subtotal</b>				=	<b>\$ 481,600.00</b>		<b>\$ 481,600.00</b>

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

PROJECT INFORMATION		
Bent Grass Residential Filing No. 2	12/9/2019	XX-XX-XXX
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<u>ROADWAY IMPROVEMENTS</u>							
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
<u>STORM DRAIN IMPROVEMENTS</u> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
				=	\$	-	\$
<u>WATER SYSTEM IMPROVEMENTS</u>							
Water Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$	-	\$
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$	-	\$
Gate Valves, 8"		EA	\$ 1,858.00	=	\$	-	\$
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	=	\$	-	\$
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	=	\$	-	\$
Fire Cistern Installation, complete		EA		=	\$	-	\$
[insert items not listed but part of construction plans]				=	\$	-	\$
<u>SANITARY SEWER IMPROVEMENTS</u>							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$	-	\$
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	=	\$	-	\$
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	=	\$	-	\$
Sanitary Sewer Lift Station, complete		EA		=	\$	-	\$
[insert items not listed but part of construction plans]				=	\$	-	\$
<u>LANDSCAPING IMPROVEMENTS</u> (For subdivision specific condition of approval, or PUD)							
		EA		=	\$	-	\$
		EA		=	\$	-	\$
		EA		=	\$	-	\$
		EA		=	\$	-	\$
		EA		=	\$	-	\$
<b>Section 3 Subtotal</b>				=	\$	-	\$


\*\* - Section 3 is not subject to defect warranty requirements

PROJECT INFORMATION		
Bent Grass Residential Filing No. 2	12/9/2019	XX-XX-XXX
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction) % Complete	Remaining
AS-BUILT PLANS (Public Improvements Inc. Permanent WQCV BMPs)		LS	=	\$ -		\$ -
POND/BMP CERTIFICATION (Inc. elevations and volume calculations)		LS	=	\$ -		\$ -
<b>Total Construction Financial Assurance</b>						<b>\$ 1,200,434.45</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>						<b>\$ 1,200,434.45</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
<b>Total Defect Warranty Financial Assurance</b>						<b>\$ 211,684.00</b>
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

**Approvals**

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.



12/09/2019

Engineer (P.E. Seal Required)

*[Signature]*

Approved by Owner / Applicant

12/09/2019


Date

**Approved**

**By: Elizabeth Nijkamp**

**Date: 12/17/2019**

El Paso County Planning & Community Development



Approved by El Paso County Engineer / ECM Administrator



Engineering Final Submittal Checklist for Electronic Submittals	
Check Box	Item: Report/Form
<input type="checkbox"/>	Drainage Report (signed)
<input type="checkbox"/>	PBMP Applicability Form
<input type="checkbox"/>	Traffic Impact Study (signed)
<input type="checkbox"/>	Grading & Erosion Control Plan and checklist (signed)
<input type="checkbox"/>	Street Construction Plans (signed)
<input type="checkbox"/>	Deviation Request (signed)
<input type="checkbox"/>	MS4 Post Construction Form and SDI worksheet
<input type="checkbox"/>	Proof of embankment/pond submittal to State Engineer
<input checked="" type="checkbox"/>	ESQCP (signed)
<input type="checkbox"/>	* Financial Assurance Estimate, SIA (signed)
<input type="checkbox"/>	* Pond/BMP Maint. Agreement and Easement (signed)
<input type="checkbox"/>	* Operation & Maintenance Manual
<input type="checkbox"/>	AutoCAD base drawing (submitted to DPW)
<input type="checkbox"/>	Pre-Development Site Grading Acknowledgement and Right of Access Form (signed)
<input type="checkbox"/>	Other: <u>Offsite Easements, Other Permits (FEMA LOMR, USACE, Floodplain...),</u> <u>Conditions of Approval, Street light license agreement, etc.</u>
<b>Pre-Construction Checklist:</b>	
<input type="checkbox"/>	Driveway/Access Permit (Temporary access permits to be obtained from EPC DPW)
<input type="checkbox"/>	Work Within the ROW Permit (DPW or CDOT)
<input type="checkbox"/>	* Stormwater Management Plan (SWMP) and checklist Submit to PCD-Inspections 2 weeks prior to precon.
<input type="checkbox"/>	* Colorado Discharge Permit (COR: _____ )
<input type="checkbox"/>	* County Construction Activity Permit
<input type="checkbox"/>	* CDPHE APEN – (if over 25 ac. or 6 mos.)
<input type="checkbox"/>	* Financial Surety (Letter of Credit/Bond/Collateral/Check)
<input type="checkbox"/>	Construction Permit Fee: <i>Early Grading or Standalone Grading</i> <span style="float: right;"><u>\$ 1,637.00</u></span> (Verify fees with Inspections Supervisor at time of scheduling)
<input type="checkbox"/>	Other: _____

\* - required items to obtain an ESQCP

Permit Fee and Collateral must be separate checks

Post Construction Submittal Checklist: (ECM 5.10.6)	
<input type="checkbox"/>	As-Built Drawings
<input type="checkbox"/>	Pond Certification Letter
<input type="checkbox"/>	Acceptance Letter for wet utilities

- ☐ = Need final / signed version
- ☒ = complete, in file
- ☐ = PCD Staff to provide

- ☐ = Undetermined at this time
- ☐ = Need later