

# EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) EL PASO COUNTY APPLICATION AND PERMIT

## APPLICANT INFORMATION

## PERMIT NUMBER

SP-20-008

Owner Information	
Owner	SR LAND, LLC
Name (person of responsibility)	JAMES MORLEY
Company/Agency	SR LAND, LLC
Position of Applicant	MANAGER
Address (physical address, not PO Box)	20 BOULDER CRESCENT, SUITE 200
City	COLORADO SPRINGS
State	COLORADO
Zip Code	80903
Mailing address, if different from above	SAME AS ABOVE
Telephone	(719- 491-3024
FAX number	
Email Address	JMORLEY3870@AOL.COM
Cellular Phone number	
Contractor/Operator Information	
Name (person of responsibility)	ALL CONTRACTOR INFORMATION TBD.
Company	
Address (physical address, not PO Box)	
City	
State	
Zip Code	
Mailing address, if different from above	
Telephone	
FAX number	
Email Address	
Cellular Phone number	
Erosion Control Supervisor (ECS)*	
ECS Phone number*	
ECS Cellular Phone number*	

JR Response: Addressed

\*Required for all applicants. May be provided at later date pending securing a contract when applicable.

**PROJECT INFORMATION**

Project Information	
Project Name	HOMESTED NORTH AT STERLING RANCH PRELIMINARY PLAN
Legal Description	SEE EXHIBIT A
Address (or nearest major cross streets)	EAST AND NORTH OF INTERSECTION OF VOLMER ROAD AND BRIARGATE PARKWAY
Acreage (total and disturbed)	Total: 91 acres Disturbed: 35 acres
Schedule	<div>Start of Construction: TBD</div> <div>Completion of Construction: TBD</div> <div>Final Stabilization: TBD</div> <div>Estimate season and year. Example: Summer 2021</div> <div>JR Response: Addressed</div>
Project Purpose	EARLY GRADING & UTILITIES FOR CONSTRUCTION OF A 97 LOT SUBDIVISION
Description of Project	HOMESTEAD NORTH AT STERLING RANCH PRELIMINARY PLAN IS PART OF THE OVERALL STERLING RANCH MASTER PLANNED COMMUNITY
Tax Schedule Number	5228000030

**FOR OFFICE USE ONLY**

The following signature from the ECM Administrator signifies the approval of this ESQCP. All work shall be performed in accordance with the permit, the El Paso County Engineering Criteria Manual (ECM) Standards, City of Colorado Springs Drainage Criteria Manual, Volume 2 (DCM2) as adopted by El Paso County Addendum, approved plans, and any attached conditions. The approved plans are an enforceable part of the ESQCP. Construction activity, except for the installation of initial construction BMPs is not permitted until issuance of a Construction permit and Notice to Proceed.

Signature of ECM Administrator: \_\_\_\_\_

Date \_\_\_\_\_

## 1.1 REQUIRED SUBMISSIONS

In addition to this completed and signed application, the following items must be submitted to obtain an ESQCP:

- Permit fees
- Stormwater Management Plan (SWMP) meeting the requirements of DCM2 and ECM either as part of the plan set or as a separate document;
- Cost estimates of construction and maintenance of construction and permanent stormwater control measures (Cost estimates shall be provided on a unit cost basis for all stormwater BMPs);
- Financial surety in an amount agreeable to the ECM Administrator based on the cost estimates of the stormwater quality protection measures provided. The financial surety shall be provided in the form of a Letter of Credit, Surety with a Bonding Company, or other forms acceptable to El Paso County;
- Operation and Maintenance Plan for any proposed permanent stormwater control measures; and
- Signed Private Detention Basin/Stormwater Quality Best Management Practice Maintenance Agreement and Easement, if any permanent stormwater control measures are to be located on site.

## 1.2 RESPONSIBILITY FOR DAMAGE

The County and its officers and employees, including but not limited to the ECM Administrator, shall not be answerable or accountable in any manner, for injury to or death of any person, including but not limited to a permit holder, persons employed by the permit holder, persons acting in behalf of the permit holder, or for damage to property resulting from any activities undertaken by a permit holder or under the direction of a permit holder. The permit holder shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permit holder, persons employed by the permit holder, persons acting in behalf of the permit holder, or damage to property arising out of work or other activity permitted and done by the permit holder under a permit, or arising out of the failure on the permit holder's part to perform the obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity, or at any subsequent time work or other activity is being performed under the obligations provided by and contemplated by the permit.

To the extent allowed by law, the permit holder shall indemnify, save, and hold harmless the County and its officers and employees, including but not limited to the BOCC and ECM Administrator, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permit holder, persons employed by the permit holder, persons acting in behalf of the permit holder and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permit holder's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by state law. The permit holder waives any and all rights to any type of expressed or implied indemnity against the County, its officers or employees.

### 1.3 APPLICATION CERTIFICATION

We, as the Applicants or the representative of the Applicants, hereby certify that this application is correct and complete as per the requirements presented in this application and the El Paso County Engineering Criteria Manual and Drainage Criteria Manual, Volume 2 and El Paso County Addendum.

We, as the Applicants or the representatives of the Applicants, have read and will comply with all of the requirements of the specified Stormwater Management Plan and any other documents specifying stormwater best management practices to be used on the site including permit conditions that may be required by the ECM Administrator. We understand that the stormwater control measures are to be maintained on the site and revised as necessary to protect stormwater quality as the project progresses. We further understand that a Construction Permit must be obtained and all necessary stormwater quality control measures are to be installed in accordance with the SWMP, the El Paso County Engineering Criteria Manual, Drainage Criteria Manual, Volume 2 and El Paso County Addendum before land disturbance begins and that failure to comply will result in a Stop Work Order and may result in other penalties as allowed by law. We further understand and agree to indemnify, save, and hold harmless the County and its officers and employees, including but not limited to the BOCC and ECM Administrator, from all claims, suits or actions of every name, kind and description as outlined in Section 1.2 Responsibility for Damage.

\_\_\_\_\_

Date: \_\_\_\_\_

Signature of Owner or Representative

\_\_\_\_\_

Print Name of Owner or Representative

\_\_\_\_\_

Date: \_\_\_\_\_

Signature of Operator or Representative

\_\_\_\_\_

Print Name of Operator or Representative

Permit Fee \$ \_\_\_\_\_

Surcharge \$ \_\_\_\_\_

Financial Surety \$ \_\_\_\_\_

Type of Surety \_\_\_\_\_

Total \$ \_\_\_\_\_

Not checked by PCD-ENG on this review.

JR Response: Addressed

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

SP-20-008

Updated: 7/16/2019

PROJECT INFORMATION			
Homestead North	6/24/2020	XX-XX-XXX	
Project Name	Date	PCD File No.	

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)							
* 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	76,000	CY	\$ 2.50	=	\$ 190,000.00	40.00%	\$ 114,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 800.00	=	\$ -		\$ -
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction	1,769	CY	\$ 20.00	=	\$ 35,380.00		\$ 35,380.00
* Permanent Pond/BMP (Spillway)	1	EA	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00
Silt Fence	5,183	LF	\$ 2.50	=	\$ 12,957.50		\$ 12,957.50
Temporary Seeding	19	AC	\$ 628.00	=	\$ 11,743.60		\$ 11,743.60
Temporary Mulch	19	AC	\$ 750.00	=	\$ 14,025.00		\$ 14,025.00
Erosion Bales/Rock Socks		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	6	EA	\$ 167.00	=	\$ 1,002.00		\$ 1,002.00
Temp. Sediment Basin		EA	\$ 1,762.00	=	\$ -		\$ -
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				=	\$ 15,049.34		\$ 15,049.34
Section 1 Subtotal				=	\$ 308,427.44		\$ 232,427.44
SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS	\$ 25,000.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -
Aggregate Base Course 8" (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -
Asphalt Pavement (5" thick)		SY	\$ 24.00	=	\$ -		\$ -
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									
Homestead North			6/24/2020			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]					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS									
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	=	\$ -		\$ -	
84" Reinforced Concrete Pipe			LF	\$ 520.00	=	\$ -		\$ -	
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 = 42 (unit cost = 6x pipe unit cost)			EA	\$ 960.00	=	\$ -		\$ -	
Flared End Section (FES) CSP Size = 36 (unit cost = 6x pipe unit cost)			EA	\$ 720.00	=	\$ -		\$ -	
Flared End Section (FES) RCP Size = 30 (unit cost = 6x pipe unit cost)			EA	\$ 582.00	=	\$ -		\$ -	
Flared End Section (FES) RCP Size = 24 (unit cost = 6x pipe unit cost)			EA	\$ 468.00	=	\$ -		\$ -	
Flared End Section (FES) RCP Size = 18 (unit cost = 6x pipe unit cost)			EA	\$ 390.00	=	\$ -		\$ -	
Temp. (FES) RCP Size = 66 (unit cost = 6x pipe unit cost)			EA	\$ 1,992.00	=	\$ -		\$ -	
End Treatment- Headwall			EA	\$ 10,000.00	=	\$ -		\$ -	
End Treatment- Wingwall			EA	\$ 18,000.00	=	\$ -		\$ -	
End Treatment - Cutoff Wall			EA	\$ 1,000.00	=	\$ -		\$ -	
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			CY	\$ 112.00	=	\$ -		\$ -	
Drainage Channel Lining, Grass			AC	\$ 1,469.00	=	\$ -		\$ -	
Drainage Channel Lining, Other Stabilization					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
Section 2 Subtotal					=	\$ -		\$ -	

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

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

PROJECT INFORMATION							
Homestead North	6/24/2020				XX-XX-XXX		
Project Name	Date				PCD File No.		
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC) **							
ROADWAY IMPROVEMENTS							
		EA	\$ 112,500	=	\$ -		\$ -
Utility Relocates				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
		EA	\$ 65,000	=	\$ -		\$ -
Detention Pond W-4				=	\$ -		\$ -
Detention Pond W-5		EA	\$ 75,000	=	\$ -		\$ -
Mod CDOT Outlet Structure		EA	\$ 15,000	=	\$ -		\$ -
Forebay Structure		EA	\$ 15,000	=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
		LF	\$ 64.00	=	\$ -		\$ -
Water Main Pipe (PVC), Size 8"				=	\$ -		\$ -
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]				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
		LF	\$ 64.00	=	\$ -		\$ -
Sewer Main Pipe (PVC), Size 8"				=	\$ -		\$ -
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		=	\$ -		\$ -
Sewer Main Underdrains		LF	\$ 25.00	=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
LS Tracts & Buffers		SF	\$ 3.75	=	\$ -		\$ -
Trails		SF	\$ 2.50	=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal				=	\$ -		\$ -
** - Section 3 is not subject to defect warranty requirements							

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

PROJECT INFORMATION	
---------------------	--

Homestead North

6/24/2020

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)				=	\$	-	\$	-
(Includes POND/BMP CERTIFICATION, elev.s and volume calculations)			LS	\$	15,000.00	=	\$	15,000.00
Total Construction Financial Assurance							\$	323,427.44
(Sum of all section subtotals plus as-builts and pond/BMP certification)								
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)							\$	247,427.44
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)								
Total Defect Warranty Financial Assurance							\$	50,076.00
(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.

Engineer (P.E. Seal Required)

Approved by Owner / Applicant

Date \_\_\_\_\_

Approved by El Paso County Engineer / ECM Administrator

Date \_\_\_\_\_



- ✓ Satisfies criteria
- ✗ Needs to be addressed



2880 International Circle, Suite 110  
 Colorado Springs, CO 80910  
 Phone 719-520-6300  
 Fax 719-520-6695  
 www.elpasoco.com

## EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

### GRADING AND EROSION CONTROL PLAN CHECKLIST

Revised: July 2019

		Applicant	PCD
<b>1. GRADING AND EROSION CONTROL PLAN</b>			
a	Vicinity map.	Y	✓
b	Adjacent city/town/jurisdictional boundaries, subdivision names, and property parcel numbers labeled.	Y	✗
c	North arrow and acceptable scale (1"=20' to 1"=100').	Y	✓
d	Legend for all symbols used in the plan.	Y	✓
e	Existing and proposed property lines. Proposed subdivision boundary for subdivision projects.	Y	✓
f	All existing structures.	Y	✓
g	All existing utilities.	Y	✓
h	Construction site boundaries.	Y	✓
i	Existing vegetation (notes are acceptable in cases where there is no notable vegetation, only grasses/weeds, or site has already been stripped).	Y	✗
j	FEMA 100-yr floodplain.	Y	✓
k	Existing and proposed water courses including springs, streams, wetlands, detention ponds, stormwater quality structures, roadside ditches, irrigation ditches and other water surfaces. Show maintenance of pre-existing vegetation within 50 feet of a receiving water.	Y	✓
l	Existing and proposed contours 2 feet or less (except for hillside).	Y	✓
m	Limits of disturbance delineating all anticipated areas of soil disturbance.	Y	✗
n	Identify and protect areas outside of the construction site boundary with fencing or other methods as appropriate.	Y	✓
o	Offsite grading clearly shown and called out.	Y	N/A
p	Areas of cut and fill identified.	Y	✗
q	Conclusions from soils/geotechnical report and geologic hazards report incorporated in grading design (slopes, embankments, materials, mitigation, etc.)	Y	✓
r	Proposed slopes steeper than 3:1 with top and toe of slope delineated. Erosion control blanketing or other protective covering required.	Y	unknown. Show slope on steep grades
s	Stormwater flow direction arrows.	Y	✓
t	Location of any dedicated asphalt / concrete batch plants.	Y	N/A
u	Areas used for staging, storage of building materials, soils (stockpiles) or wastes. The use of construction office trailers requires PCD permitting.	Y	✓
v	All proposed temporary construction control measures, structural and non-structural. Temporary construction control measures shall be identified by phase of implementation to include "initial," "interim," and "final" or shown on separate phased maps identifying each phase.	Y	✓
w	Vehicle tracking provided at all construction entrances/exits. Construction fencing, barricades, and/or signage provided at access points not to be used for construction.	Y	✓
x	Temporary sediment ponds provided for distribution.	Y	✓
y	Dewatering operations to include locations of diversion, pump and discharge(s) as anticipated at time of design.	Y	N/A
z	All proposed temporary construction control measure details. Custom or other jurisdiction's details used must meet or exceed EPC standards.	Y	✗

JR Response: Addressed



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# EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

## GRADING AND EROSION CONTROL PLAN CHECKLIST

Revised: July 2019

JR Response: Addressed

		Applicant	PCD
aa	Any offsite stormwater control measure proposed for use by the project and not under the direct control or ownership of the Owner or Operator. confirm this is N/A and mark as N/A on this checklist for next submittal	Y	N/A
bb	Existing and proposed permanent storm water management facilities, including areas proposed for stormwater infiltration or subsurface detention.	Y	✓
cc	Existing and proposed easements (permanent and construction) including required off site easements.	Y	X
	JR Response: Addressed in County ROW unless approved via license agreement). Design by P.E. Building Department required for walls greater than or equal to 4 feet in height, series of walls, or walls supporting a surcharge. confirm this is N/A and mark as N/A on this checklist for next submittal	Y	N/A
ee	Plan certified by a Colorado Registered P.E., with EPC standard signature blocks for Engineer, Owner and EPC. JR Response: Addressed	Y	✓
ff	Engineer's Statement (for standalone GEC Plan): This Grading and 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 preparing this plan. _____ Engineer of Record Signature Date	Y	✓
gg	Engineer's Statement (for GEC Plan within Construction Drawing set): These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications. _____ Engineer of Record Signature Date		N/A
hh	Owner's Statement (for standalone GEC Plan): I, the owner/developer have read and will comply with the requirements of the Grading and Erosion Control Plan. _____ Owner Signature Date	Y	✓
ii	Owner's Statement (for GEC Plan within Construction Drawing set): I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan and all of the requirements specified in these detailed plans and specifications. _____ Owner Signature Date		N/A



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jj	<p>El Paso County (standalone GEC Plan):            County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/ or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document.            Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and Engineering Criteria Manual, as amended.</p>	Y	✓
	<p>In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.</p>		
<p>County Project Engineer Signature _____ Date _____</p>			
<b>2. ADDITIONAL REPORTS/PERMITS/DOCUMENTS</b>			
a	Soils report / geotechnical investigation as appropriate for grading/utilities/drainage/road construction.		
b	Use Agreement/easement between the Owner or Operator and other third party for use of all offsite grading or stormwater control measures, used by the owner or operator but not under their direct control or ownership.		
c	Floodplain Development Permit		
d	USACE 404/wetlands permit/mitigation plan		
e	FEMA CLOMR		
f	State Engineer's permit/Notice Of Intent to Construct		
g	Stormwater Management Plan (SWMP)	Y	
h	Financial Assurance Estimate (FAE) (signed)	Y	
i	Erosion and Stormwater Quality Control Permit (ESQCP) (signed)	Y	
j	Pre-Development Site Grading Acknowledgement and Right of Access Form (signed)		
k	Conditions of Approval met?		
<b>3. STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS</b>			
1	Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off-site waters, including wetlands.	Y	✓
2	Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing.	Y	✓



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3	A separate Stormwater Management Plan (SMWP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. Management of the SWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP shall be located on site at all times during construction and shall be kept up to date with work progress and changes in the field.	Y	✓
4	Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.	Y	✓
5	Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance.	Y	✓
6	All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures are needed to ensure the continued effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the Stormwater Management Plan.	Y	✓
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.	Y	✓
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.	Y	✓
9	All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that effect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to implementation.	Y	✓
10	Earth disturbances shall be conducted in such a manner so as to effectively minimize accelerated soil erosion and resulting sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time. Pre-existing vegetation shall be protected and maintained within 50 horizontal feet of a waters of the state unless shown to be infeasible and specifically requested and approved.	Y	✓
11	Compaction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control measures shall also be protected from sedimentation during construction until final stabilization is achieved. If compaction prevention is not feasible due to site constraints, all areas designated for infiltration and vegetation control measures must be loosened prior to installation of the control measure(s).	Y	✓
12	Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off site.	Y	✓



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		Applicant	PCD
13	Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to enter State Waters, including any surface or subsurface storm drainage system or facilities. Concrete washouts shall not be located in an area where shallow groundwater may be present, or within 50 feet of a surface water body, creek or stream.	Y	✓
14	During dewatering operations of uncontaminated ground water may be discharged on site, but shall not leave the site in the form of surface runoff unless an approved State dewatering permit is in place.	Y	✓
15	Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.	Y	✓
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.	Y	✓
17	Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.	Y	✓
18	Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.	Y	✓
19	The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of site development.	Y	✓
20	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.	Y	✓
21	No chemical(s) having the potential to be released in stormwater are to be stored or used onsite unless permission for the use of such chemical(s) is granted in writing by the ECM Administrator. In granting approval for the use of such chemical(s), special conditions and monitoring may be required.	Y	✓
22	Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment protection to contain all spills onsite and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system or other facilities.	Y	✓
23	No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.	Y	✓
24	Owner/developer and their agents 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 of the Land Development Code, DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and other laws, rules, or regulations of other Federal, State, local, or County agencies, the most restrictive laws, rules, or regulations shall apply.	Y	✓
25	All construction traffic must enter/exit the site only at approved construction access points.	Y	✓
26	Prior to construction the permittee shall verify the location of existing utilities.	Y	✓
27	A water source shall be available on site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.	Y	✓





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**GRADING AND EROSION CONTROL PLAN CHECKLIST**

Revised: July 2019

		Applicant	PCD
28	The soils report for this site has been prepared by _____ and shall be considered a part of these plans.	Y	✓
29	At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more, the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this Grading and Erosion Control Plan may be a part. For information or application materials contact:  Colorado Department of Public Health and Environment Water Quality Control Division WQCD – Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit	Y	✓
<b>4. Applicant Comments:</b>			
a			
b			
c			
<b>5. Checklist Review Certifications:</b>			
a	Engineer of Record: The Grading and Erosion Control Plan was prepared under my direction and supervision and is complete and 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.  _____ Engineer of Record Signature                      Date		

Please stamp and  
sign for next  
submittal.

JR Response: Addressed



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**GRADING AND EROSION CONTROL PLAN CHECKLIST**

Revised: July 2019

	Applicant	PCD
b	<p>Review Engineer: The Grading and Erosion Control Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request.</p>	
	<p>Review Engineer _____ Date _____</p>	



## El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form

This document **must be completed and submitted** with required attachments to the County for projects requiring a detention and/or a water quality facility. A separate completed form must be submitted for each facility.

Project name: HOMESTEAD NORTH AT STERLING RANCH (POND C)

Owner name: SR LAND, LLC

Location Address: APPROX. 500 FT NORTHEAST OF INT. OF BRIARGATE PARKWAY AND WHEATLAND DR

Latitude and Longitude:

38deg58min06sec N, 104deg40min00sec W

Assessor's Parcel #: 5228000030

Section: 27 & 33

Township: 12S Range: 65W

Expected Completion date: 8/2021

21.33 contributing Ac.

JR Response: Addressed

Project acreage: 75

Design Ponding Acres: 24.08

Design Storm: 100 YEAR

Design Engineer Email Address: MBRAMLETT@JRENGINEERING.COM

0.844?

To ensure compliance with C.R.S. 37-92-602(8), the completed Stormwater Detention and Infiltration Design Data Sheet **must be attached**. The form can be found here: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif#> (click on Download SDI Design Data Sheet)

List all permanent water quality control measure(s) (EDBs, rain gardens, etc):

EXTENDED DETENTION BASIN

For all projects for which the constrained redevelopment sites standard is applied, provide an explanation of why it is not practicable to meet the full design standards.

**Attach Operations and Maintenance (O&M) Plan** describing the operation and maintenance procedures that ensure the long-term observation, maintenance, and operation of control measure(s), including routine inspection frequencies and maintenance activities. If multiple, different water quality control measures are used at the same location, a separate O & M Plan must be provided for each facility.

**Attach Private Detention Basin / Stormwater Quality Best Management Practice Maintenance Agreement and Easement** addressing maintenance of BMPs that shall be binding on all subsequent owners of the permanent BMPs.

### Attachments:

Stormwater Detention and Infiltration Design Data Sheet

O & M Plan

Maintenance and Access Agreement

Review Engineer

EPC Project File No.





## El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form

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### Attachments:

Stormwater Detention and Infiltration Design Data Sheet

O & M Plan

Maintenance and Access Agreement

Review Engineer

EPC Project File No.

upload to EDARP with next submittal round.

JR Response: Addressed

- ✓ Satisfies criteria
- ✗ Needs to be addressed



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# **EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT**

## **STORMWATER MANAGEMENT PLAN CHECKLIST**

Revised: July 2019

		Applicant	PCD
<b>1. STORMWATER MANAGEMENT PLAN (SWMP)</b>			
1	Applicant (owner/designated operator), SWMP Preparer, Qualified Stormwater Manager, and Contractor Information. (On cover/title sheet)	Y	✓
2	Table of Contents	Y	✓
3	Site description and location to include: vicinity map with nearest street/crossroads description.	Y	✓
4	Narrative description of construction activities proposed (e.g., may include clearing and grubbing, temporary stabilization, road grading, utility / storm installation, final grading, final stabilization, and removal of temporary control measures)	Y	✓
5	Phasing plan – may require separate drawings indicating initial, interim, and final site phases for larger projects. Provide “living maps” that can be revised in the field as conditions dictate.	Y	✓
6	Proposed sequence for major activities: Provide a construction schedule of anticipated starting and completion dates for each stage of land-disturbing activity depicting conservation measures anticipated, including the expected date on which the final stabilization will be completed.	Y	✓
7	Estimates of the total site area and area to undergo disturbance; current area of disturbance must be updated on the SWMP as changes occur.	Y	✓
8	Soil erosion potential and impacts on discharge that includes a summary of the data used to determine soil erosion potential	Y	✗
9	A description of existing vegetation at the project site and the method used to determine ground cover	Y	✓
10	Location and description of all potential pollution sources including but not limited to: disturbed and stored soils; vehicle tracking; management of contaminated soils; loading and unloading operations; outdoor storage of materials; vehicle and equipment maintenance and fueling; significant dust generating process; routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc.; on-site waste management; concrete truck/equipment washing; dedicated asphalt, concrete batch plants and masonry mixing stations; non-industrial waste such as trash and portable toilets	Y	✓
11	Material handling to include spill prevention and response plan and procedures.	Y	✓
12	Spill prevention and pollution controls for dedicated batch plants	Y	✓
13	Other SW pollutant control measures to include waste disposal and off site soil tracking	Y	✓
14	Location and description of any anticipated alluvial fans, floodplains, wetlands, surface water, springs, irrigation, discharge covered by CDPHE Low Risk	Y	✓
15	Name(s) of ultimate receiving waters; size, type and location of stormwater outfall or storm sewer system discharge	Y	✗
16	Description of all stream crossings located within the project area or statement that no streams cross the project area	Y	✗

JR Response: Addressed



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## **STORMWATER MANAGEMENT PLAN CHECKLIST**

Revised: July 2019		Applicant	PCD
17	SWMP Map to include:		
17a	construction site boundaries	Y	✓
17b	flow arrows to depict stormwater flow directions	Y	✓
17c	all areas of disturbance <b>JR Response: Addressed</b>	Y	X
17d	areas of cut and fill <b>JR Response: Addressed</b>	Y	X
17e	areas used for storage of building materials, soils (stockpiles) or wastes <b>JR Response: Addressed</b>	Y	X
17f	location of any dedicated asphalt / concrete batch plants	Y	✓
17g	location of all structural control measures	Y	✓
17h	location of all non-structural control measures	Y	✓
17i	springs, streams, wetlands and other surface waters, including areas that require maintenance of pre-existing vegetation within 50 feet of a receiving water	Y	✓
18	Narrative description of all structural control measures to be used. Modifications to EPC standard control measures must meet or exceed County-approved details.	Y	✓
19	Description of all non-structural control measures to be used including seeding, mulching, protection of existing vegetation, site watering, sod placement, etc.	Y	✓
20	Technical drawing details for all control measure installation and maintenance: custom or other jurisdiction's details used must meet or exceed EPC standards <b>JR Response: Addressed</b>	Y	X
21	Procedure describing how the SWMP is to be revised <b>JR Response: Addressed</b>	Y	X
22	Description of Final Stabilization and Long-term Stormwater Quality (describe nonstructural and structural measures to control SW pollutants after construction operations have been completed, including detention, water quality control measure etc.)	Y	✓
23	Specification that final vegetative cover density is to be 70% of pre-disturbed levels	Y	✓
24	Outline of permit holder inspection procedures to install, maintain, and effectively operate control measures to manage erosion and sediment	Y	✓
25	Record keeping procedures identified to include signature on inspection logs and location of SWMP records on-site	Y	✓
26	If this project relies on control measures owned or operated by another entity, a documented agreement must be included in the SWMP that identifies location, installation and design specifications, and maintenance requirements and responsibility of the control measure(s). <b>JR Response: Addressed</b>	Y	X
	<b>Please note: all items above must be addressed. If not applicable, "not applicable" will not satisfy CDPHE requirement of explanation.</b>	Y	
<b>2. ADDITIONAL REPORTS/PERMITS/DOCUMENTS</b>			
a	Grading and Erosion Control Plan (signed)	Y	
b	Erosion and Stormwater Quality Control Permit (ESQCP) (signed)	Y	
<b>3. Applicant Comments:</b>			
a	Phasing Plan is not applicable because construction progress will dictate required phasing and is further explained in the sequence of construction activities as well as in notes and details provided in the SWMP text and GESC plans. There is no concrete batch plant. The permit operator will be the owner and his contractor, therefore no agreement per item 26 is required.		



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**STORMWATER MANAGEMENT PLAN CHECKLIST**

Revised: July 2019

		Applicant	PCD
b	Please note, the contractor has not been selected yet, but will take on the responsibilities of the ESQCP and such responsibilities have been detailed in the SWMP narrative.		
c			
<b>4. Checklist Review Certifications:</b>			
a	<p>Engineer of Record: The Stormwater Management 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 and State for Stormwater Management Plans.</p> <p>_____ Engineer of Record Signature                      Date</p>		
		<p>please sign and stamp once all revisions are complete per comments</p> <p>JR Response: Addressed</p>	
b	<p>Review Engineer: The Stormwater Management Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request.</p> <p>_____ Review Engineer                      Date</p>		