# LOT B OF TRACT E-3R OF McMAHON SUBDIVISION

## EROSION AND SEDIMENT CONTROL PLANS

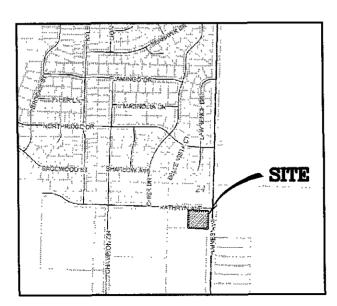
City of Rapid City Pennington County, South Dakota

## SITE PLAN

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## **INDEX OF SHEETS**

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SHEET 2 GRADING PLAN
SHEET 3 GENERAL NOTES
SHEET 4 STANDARD DETAILS



VICINITY MAP

## ENGINEER'S CERTIFICATION

I hereby certify that these plans were prepared under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.

LOCATE UTILITIES: SOUTH DANOTA ONE CALL

115 Evergreen Heights Drive
Pitaburgh PA 15229
(800) 781-7474

THE LOCATIONS OF DISTRING UNDERGROUND UTILITIES ARE SHOWN
IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN ROPPENDENT
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Kale R. McNaboe, PE Reg. No. 7198

CONSULTING, INC.

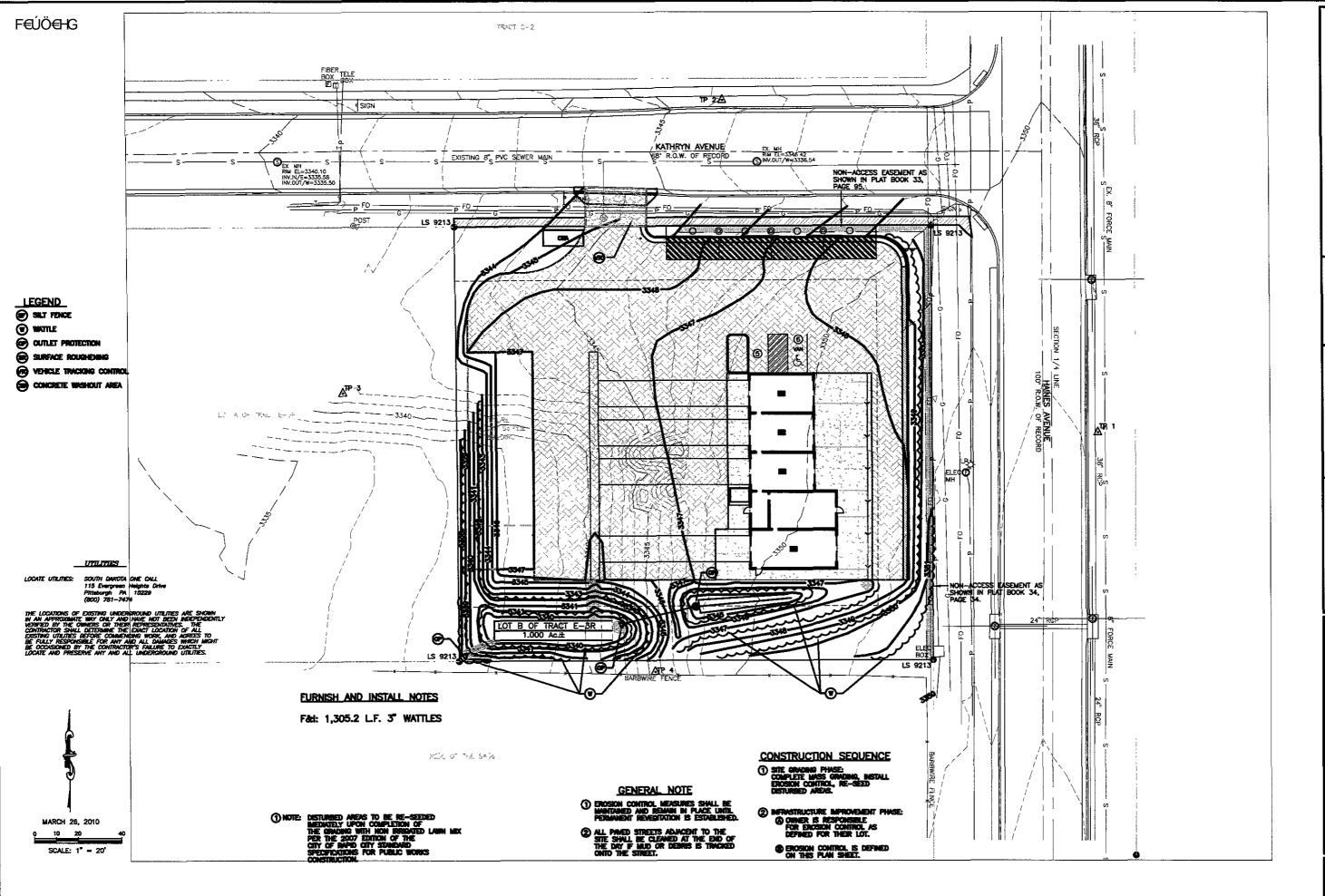




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EROSION AND SEDIMENT CONTROL PLAN LOT B OF TRACT E-SR OF MCMAHON SUBDIVISION

PROJECT 3194



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EROSION AND SEDIMENT
CONTROL PLAN
LOT B OF TRACT E-SR
OF MCMAHON SUBDIVISION
GRADING PLAN

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This project consists: A) A Commercial Development/Parking Lot. The project site is located at 1565 Haines Ave., Rapid City, South Dakota.

2) EXISTING SITE CONDITION A) The is currently vacant

3) WETLANDS: - Are wetlands an issue? No

4) ADJACENT AREAS North is Kathryn Avenue (Paved) West is Vacant lot South is Commercial. East is Haines Ave. (Paved)

Predominant soils are: Clay

6) AREA AND VOLUME A)Building #1-Area is 3,058 s.f. B)Future Building #2-Area is 3,000 s.f. C)Parking Lot-Area is 21,931 s.f.

7) EROSION AND SEDIMENT CONTROL MEASURES The Erosion Control Plan shows the type and location of the erosion and sediment control measures for the grading of this site.

8) AREA FOR STOCKPILES AND STORAGE On-site stockpiles shall not be allowed.

9) CONSTRUCTION SCHEDULE Grading: Spring 2010 Temporary Cover Seeding: Spring 2010 Sanitary Sewer: Spring 2010 Water Main: Spring 2010 Building #1 Construction: Summer 2010

10) SOIL SURFACE STABILIZATION PRACTICES

After construction begins, soil surface stabilization shall be applied within 14 days to all disturbed areas that may not be at final grade but will remain dormant (undisturbed) for periods longer than an additional 21 calendar days. Within 14 days after final grade is reached on any portion of the site, permanent or temporary soil surface stabilization shall be applied to disturbed areas and soil

11) PERMANENT STABILIZATION PRACTICES

The graded lots will be maintained during the development process. Erosion control shall be maintained until final stabilization is achieved.

12) STORM WATER MANAGEMENT CONSIDERATIONS

1)Storm water from the Building Addition will enter existing Storm Sewer on Haines Ave. Stormwater will ultimately flow to the same downstream location after construction as it did before construction.

13) MAINTENANCE

Inspection of erosion and sediment control measures should be scheduled weekly and following any storm event of 1/2 inch or greater. All measures shall be maintained in good working order. Inspection and maintenance procedures shall continue until the disturbed areas achive final stabilization.

14) SPILL CONTROL PRACTICES

Chemical and Petroleum Product spills of toxic or hazardous material shall be reported to the appropriate state or local government agency. All spills shall be cleaned up immediately after discovery.

15) SPILL PREVENTION

Petroleum Products: Onsite construction equipment shall be monitored for leaks & receive regular preventive maintenance. Asphalt substances used onsite shall be applied according to City of Rapid City Specifications. 2007 Edition Fertilizers: Fertilizers shall be used in conjunction with seeding at graded areas. Fertilizers shall not be stock piled on site. Concrete Trucks: Concrete trucks shall not be allowed to wash out or discharge surplus concrete on the site. Washout shall be allowed only at the designated

a) Regularly pickup and dispose of garbage and waste material.

b) Make sure all equipment and related processes are working properly and preventative maintenance is kept up with on both.

c) Routinely inspect equipment and processes for leaks or conditions that could lead to discharges of chemicals or contact of storm water with raw materials, intermediate materials, waste materials, or products used on site.

d) Assure all spill clean up procedures are understood by employees. Training of employees on proper clean up procedures shall be implemented

e) Designate separate areas of the site for auto parking, vehicle refueling, and routine maintenance.

f) Clean up leaks, drips, and other spills immediately.

a) Cover and maintain dumpsters and waste receptacles.

h) Store containers, drums, and bags away from direct traffic routes to prevent

i) Stack containers according to manufacturer's instructions to avoid damaging the containers from improper weight distribution.

i) Store containers on pallets or similar devices to prevent corrosion of containers that results from containers coming in contact with moisture on the ground.

k) Store toxic or hazardous liquids within curbed areas or secondary containers. 1) Assign responsibility of hazardous material inventory to a limited number of people who are trained to handle such materials, in the event of spills of any

dangerous or hazardous material, notify City of Rapid City and Department of Environment and Natural Resource.

The following preventative strategies are recommended where fluids are commonly

a) Identify all equipment that may be exposed to storm water, pollutants that may be generated and possible sources of leaks or discharges.

b) Perform regular maintenance of each piece of equipment to check for: proper operation, leaks, malfunctions, and evidence of leaks or discharge (stains). Develop a procedure for spill reporting, clean up, and repair.

c) Drain or replace motor oil or other automotive fluids in an area away from streams or storm or sanitary sewer inlets. Collect spent fluids and recycle or

d) In fueling greas, clean up spills with dry clean up methods (absorbents). e) Make sure employees are trained in spill prevention practices and adhere to

The Erosion Control Plan shows the erosion control devices to be installed. These items shall be installed as per City of Rapid City Standard Details and Specifications. 2007 Edition

17) NOTICE OF INTENT

A Notice of Intent (NOI) has NOT been filed with the Surface Water Discharge Program of the South Dakota Department of Environment and Natural Resources (DENR). The Primary Responsible Party is required to notify the EC Inspector when the site has reached final stabilization, and to file a Notice of Termination

18) DEWATERING

If water from temporary dewatering shall be discharged to water of the state during construction, Contractor must first get coverage under DENR's General Permit for Temporary Dewatering. For more information, contact Al Spangler at (605) 773-3351. In addition, City of Rapid City may require a temporary BMP. Prior approval of which is required by City Engineering (394-4154)

19) SITE INSPECTION

Contact Development Service Center at 394-4157 after intial erosion control is installed prior to any grading work. The devices to be installed shall be outlined in the construction sequence. Disturb only as necessary to install these devices. This shall include all perimeter erosion control and other items specified in this narrative or shown directly on the plan.

20) PROJECT INSPECTION PRIORITY: High

21) COMPLETION OF WORK Upon completion of work contact Development Service Center for Inspection 394-4157

Table 12.1 Maximum Time Limits of Land Exposures for Selection of Erosion Controls					
Erosion Control Method	Exposure <sup>(1)</sup>				
Surface Roughening	1 mo.				
Mulching	12 mo.				
Temporary Revegetation	12-24 mo.				
Permanent Revegetation	24 mo. or more				
Soil Stockpile Revegetation	2 mo.				
Farty Application of Road Base	1 ma.				

(1) Exposure is the Maximum Allowable Period of Exposure in Months

Owner: Bill Brown 21749 Coyote Lane Piedmont, SD 57769 (605)-391-6941

Contract

Primary Responsible Party: Bill Brown 21749 Coyote Lane Piedmont, SD 57769 (605)-391-6941

SPERLICH CONSULTING, INC. 821 Columbus St., Suite 1 Rapid City, SD 57701 (605) 721-4040

Engineer:

Contractors: Project Not Currently Under email: dougsperlich@rushmore.com

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The Erosion Control Plan appears to fulfill the technical criteria for erosion and sediment control requirements of the City of Rapid City. We understand that additional erosion control measures may be needed if unforeseen erosion problems occur or if the submitted plan does not function as intended. The requirements of this plan shall run with the land and be the obligation of Bill Brown until such time as the plan is properly completed, modified or voided.

	Signed	Printed:	
Date		Bill Brown	

### ENGINEER'S CERTIFICATION

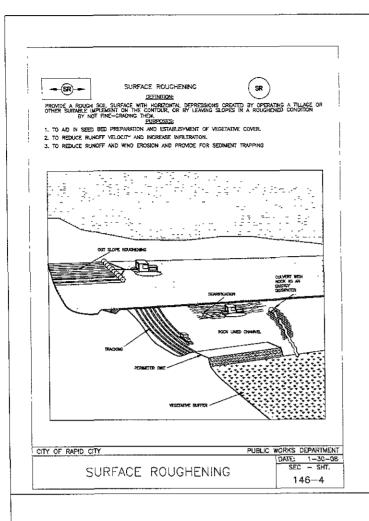
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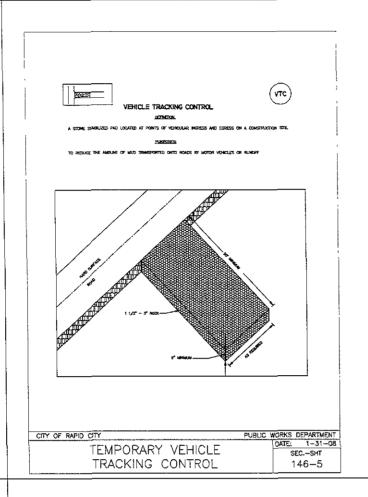
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Date		Kale	R.	McNaboe,	PE	Reg.	No.	7198

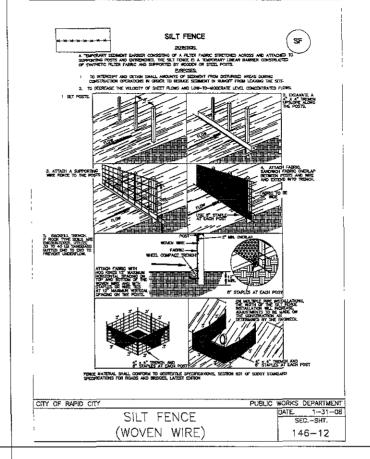
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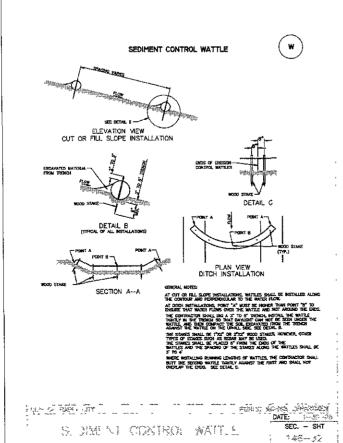
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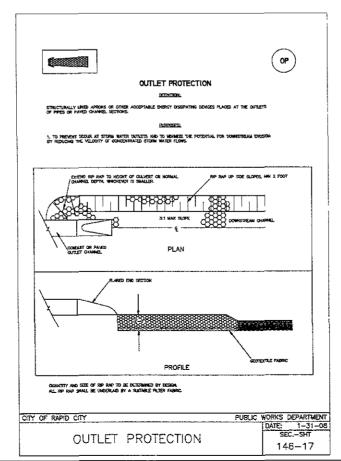
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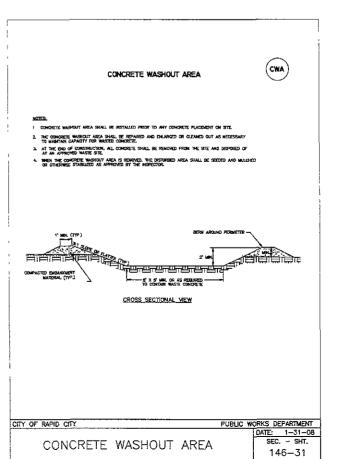












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Consulting, Inc.



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CONTROL PLAN
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