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 Rapid City Growth  
 Management Department

CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**CENTERLINE**  
 520 Kansas City Street Suite 307  
 Rapid City, South Dakota 57701  
 Phone: (605) 341-3193 Fax: (605) 341-3358  
 centerline@aol.com

**Kyle St. Lot 7- Champion Dr. Lot 1  
 Drainage Channel Revision**

**PLAN and PROFILE**


PROJECT NO.: 10\_001  
 FILE NO.: 10\_001-ALL  
 DESIGN BY: LMK  
 DRAWN BY: LMK  
 CHECKED BY: LMK  
 DATE: 4/15/11

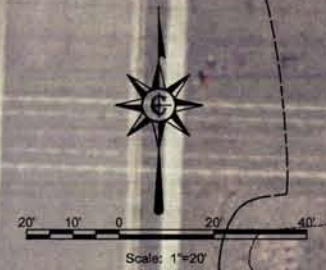
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**LEGEND:**  
 Sediment Barrier (Silt fence or socks) ————  
 Runoff Path —————>  
 Vehicle Tracking Pad: Detail 148-5  
 Detail 12-8   
**POST CONSTRUCTION BMP**  
 USE EXISTING DETENTION POND



**SPECIFICATIONS TO BE USED:**  
 USE 2007 RAPID CITY STORM WATER QUALITY MANUAL AND DETAILS. PREVENT MIGRATION OF SEDIMENT FROM PROJECT. CONTRACTOR SHALL OBTAIN COPIES AND FOLLOW REQUIREMENTS OF CITY OF RAPID CITY STORMWATER QUALITY MANUAL AND DETAILS.

**PROJECT DESCRIPTION:**  
 THE CHANNEL ON THE LOTS SHOWN COVER ~ 0.1 ACRES KYLE AND CHAMPION, EAST OF HAINES AVE NORTH OF KATHRYN AVE. SW ¼ Sec 24 T1N R7E BHM RAPID CITY, PENNINGTON COUNTY, SD.

**EXISTING SITE PROFILE:**  
 THE PROPERTY IS CURRENTLY A GRASSED AREA THAT DRAINS PREDOMINATELY EAST TO AN EXISTING DRAINAGE CHANNEL CROSSING THROUGH RESIDENTIAL LOTS

NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT FOOTPRINT.

NO DEWATERING IS ANTICIPATED. APPLY FOR DENR PERMIT IF DEWATERING REQUIRED.

**ADJACENT AREAS:**  
 VEGETATED DRAINAGE CHANNEL EAST AND WEST, ADJACENT TO RESIDENTIAL HOMES.

**SOIL PROFILE:**  
 THE MATERIAL IS A MIX OF ROCKY, SANDY, SILTY SOIL.

**SCOPE OF PROJECT:**  
 RESHAPE EXISTING CHANEL.

**RUNOFF PROFILE:**  
 THE MAJORITY OF OVERLAND FLOW IS NORTH TO SOUTH IN EXISTING ROADWAYS, WITH REAR-YARD CHANNELS WEST TO EAST. NO CHANGE IN DRAINAGE PATTERNS WILL OCCUR WITH THE PROJECT.

**SCOPE OF CONTROL MEASURES:**  
 SILT FENCE, SILT SOCKS, VEHICLE TRACKING PADS, PIPE INLET PROTECTION, DISTURBED SURFACE PROTECTION AND DESIGNATED WORK AND MATERIALS AREAS. CONTINUOUSLY MONITOR AND MAINTAIN ALL SEDIMENT CONTROL DEVICES AND MEASURES. USE CITY STANDARD DETAILS. LIMIT ACCESS TO EXISTING OR PROPOSED ENTRY POINTS. USE ROCK TRACKING PADS AS NECESSARY.

**SEQUENCE OF CONTROL:**  
 PRE-CONSTRUCTION MEETING TO IDENTIFY INSPECTION AND MAINTENANCE SCHEDULE, INITIAL MEASURES. IMPLEMENT SEDIMENT BARRIERS, VEHICLE TRACKING PADS.

CONTRACTOR SHALL ERECT AND PLACE SIGN WITH INFORMATION AS REQUIRED IN SECTION 1.8.5.3 OF THE RAPID CITY STORM WATER QUALITY MANUAL.

ADDITIONAL CONTROL AS WORK PROGRESSES:  
 DAILY REMOVAL OF ANY SEDIMENT FROM EXISTING PUBLIC ROADWAYS.  
 INLET AND CULVERT ENTRANCE PROTECTION.  
 FINAL SURFACE STABILIZATION, SEDIMENT AND DEBRIS REMOVAL FROM ALL CONTAINMENT FACILITIES, TRANSPORT TO CITY LANDFILL.

**CHEMICAL MATERIALS AND EQUIPMENT FLUIDS- CONTAINMENT, SPILLS:**  
 WASTE CONCRETE, ASPHALT, CURING MATERIALS, VEHICLE FLUIDS AND SIMILAR SHALL BE KEPT IN THE SECURE AREAS. PREVENT ANY MIGRATION OF THESE MATERIALS FROM CONTAINMENT AREA. STAGING AND SERVICING OF EQUIPMENT AND VEHICLES SHALL OCCUR WITHIN, OR UP-GRADE OF, THE CONTAINMENT AREA BARRIERS.

REMOVE ALL CONTAMINATED SOIL AND MATERIALS FROM OR ADJACENT TO CONTAINMENT AREA EVERY 3 MONTHS AND AT PROJECT COMPLETION, TRANSPORT TO CITY LANDFILL.

SPILLS OF TOXIC OR HAZARDOUS CHEMICAL MATERIALS OR PETROLEUM PRODUCTS SHALL BE REPORTED TO THE APPROPRIATE STATE OR FEDERAL AGENCY WITHIN 24 BUSINESS DAY HOURS. SPILLED MATERIAL AND CONTAMINATED SOIL SHALL BE REMOVED IMMEDIATELY AND TRANSPORTED TO THE CITY LANDFILL.

**IMPLEMENTATION SCHEDULE: MARCH 2011 THROUGH JUNE 2011**

- INITIAL SEDIMENT BARRIERS, TEMPORARY CONTAINMENT: PRIOR TO CONSTRUCTION START.
- TOPSOIL STRIP AND STOCKPILE AT DESIGNATED CONTROL AREAS.
- SURFACE STABILIZATION - MULCH, COMPOST OR SEEDING.
- SEDIMENT BARRIERS TO PROTECT EXISTING ROADWAYS.
- SEDIMENT BARRIERS TO PROTECT EXISTING DETENTION POND OUTLET.
- CONTINUOUSLY MAINTAIN ALL SEDIMENT CONTROL DEVICES.
- FINAL TOPSOIL PLACEMENT, PERMANENT SEEDING, REMOVAL AND DISPOSAL OF SEDIMENT AND OTHER MATERIAL. DISPOSE AT CITY LANDFILL.
- MONITOR SEDIMENT BARRIERS AND CONTAINMENT AREAS UNTIL SURFACE VEGETATION ESTABLISHED.
- REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES.

**CERTIFICATION:**  
 THE EROSION AND SEDIMENT CONTROL DESCRIBED IN THESE PLANS APPEARS TO FULFILL THE REQUIREMENTS OF THE CITY OF RAPID CITY. ADDITIONAL MEASURES MAY BE NEEDED IF UNANTICIPATED PROBLEMS OCCUR OR IF THIS PLAN DOES NOT CONTROL SEDIMENT AND EROSION. THE PLAN REQUIREMENTS ARE ATTACHED TO THE PROJECT. THE RESPONSIBLE PARTY IS OBLIGATED FOR THIS WORK UNTIL THE PLAN IS COMPLETED.

OWNER / DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_  
 Owner:  
 DTH LLC  
 Doyle Estes, Member  
 PO Box 330  
 Rapid City, SD 57709  
 605-209-2535

CONTRACTOR \_\_\_\_\_ DATE \_\_\_\_\_

CENTERLINE \_\_\_\_\_ DATE \_\_\_\_\_

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