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JAN 25 2013

RAPID CITY COMMUNITY PLANNING & DEVELOPMENT SERVICES

SILT COLLECTION FACILITY:
HE STORMWATER TREATMENT POND SHALL ACT AS A SILT COLLECTION FACILITY DURING CONSTRUCTION. CONSTRUCT THIS POND AT BEGINNING OF CONSTRUCTION. CONTRACTOR SHALL REMOVE SILT AS NEEDED DURING CONSTRUCTION TO PREVENT OUTLET RISER FROM PLUGGING. DELIBERATE BMPS WILL BE REQUIRED TO PREVENT THE RISER FROM FREQUENT PLUGGING.

3:1 SLOPES:
SLOPES CONSISTS OF 3:1 CUTS AND 3:1 FILLS. CONTRACTOR ACKNOWLEDGES THAT SIGNIFICANT EFFORT WILL BE NEEDED TO KEEP EROSION IN CHECK.

WATTLES SHOWN ON THE PLAN ARE FOR INTERIM EROSION CONTROL AND MAY BE OMITTED IF TOPSOIL, SEED, FERTILIZER, AND EROSION BLANKET ARE INSTALLED ON THE SLOPES IMMEDIATELY AFTER SLOPES ARE CONSTRUCTED. IT IS EXPECTED, HOWEVER, THAT TEMPORARY EROSION CONTROL METHODS WILL BE NECESSARY DURING SLOPE CONSTRUCTION.

INSTALL CATEGORY 2 EROSION CONTROL BLANKET ON ALL 3:1 SLOPES IMMEDIATELY AFTER INSTALLING 6" OF TOPSOIL, SEEDING, AND FERTILIZING. CATEGORY 2 EROSION CONTROL BLANKET PER SECTION 146 OF THE SPECIFICATIONS.

ALL OTHER DISTURBED AREAS:
ALL DISTURBED AREAS NOT HARD-SURFACED TO RECEIVE 6" OF TOPSOIL AND FERTILIZED, SEEDED, AND HYDRO-MULCHED.
HYDRO-MULCH: BONDED FIBER MATRIX (CONWEB FIBERS 2500 BFM BY PROFILE PRODUCTS, LLC. REMOVE WATTLES AFTER VEGETATION IS ESTABLISHED.

ESCP (EROSION AND SEDIMENT CONTROL PLAN):
EROSION CONTROL MEASURES SHOWN ON THIS SHEET SHALL BE TAKEN AS THE MINIMUM REQUIRED. IT IS THE CONTRACTORS RESPONSIBILITY TO AUGMENT THESE MINIMUM REQUIREMENTS AS NEEDED TO PREVENT SEDIMENT/CONTAMINENTS FROM LEAVING THE BOUNDS OF THE PROJECT. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO PREVENT SEDIMENT FROM LEAVING THE SITE, AND TO PRESERVE THE CONSTRUCTED CUTS AND FILLS.

IN-PROCESS EROSION CONTROL:
DURING THE COURSE OF CONSTRUCTION, RUNOFF DIVERSIONS, TEMPORARY SILT DAMS, SILT FENCE, ETC. MAY BE NEEDED TO CONTROL SILT MIGRATION DURING THE WORK. CONTRACTOR SHALL APPLY BMPS AS NEEDED.

WATTLE INSTALLATION TIMING:
TEMPORARY WATTLES MAY NEED TO BE USED AS AN INTERIM EROSION CONTROL BMP DURING THE COURSE OF THE MASS GRADING OPERATION. SOME LOCATIONS MAY NEED A SECOND INSTALLATION TO KEEP EROSION FROM STARTING, DEPENDING ON WEATHER CONDITIONS AND CONTRACTORS PHASING OF THE WORK.

MAINTENANCE OF SLOPES:
CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR MAINTAINING THE SLOPES TO INSURE THAT THE SEEDED SLOPES ARE FREE FROM WASHES AND RILLS. TOPSOIL WASHED DOWNSLOPE OR LOST TO EROSION SHALL BE REPLACED. ALL AREAS DISTURBED BY MAINTENANCE SHALL BE RE-SEEDED AND THE APPROPRIATE EROSION BMP RE-INSTALLED.

- (OP) OUTLET PROTECTION
- (IP) INLET PROTECTION
- (VTC) VEHICLE TRAFFIC CONTROL (MAY BE RELOCATED)
- {W} SEDIMENT CONTROL WATTLE 8" DIA. COMPOST SOCK (MAY BE RELOCATED)
- (CWA) CONCRETE WASHOUT AREAS (MAY BE RELOCATED)
- DRAINAGE DIRECTION
- (TSD) TEMPORARY SILT DAM

EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

THIS EROSION AND SEDIMENT CONTROL NARRATIVE AND ATTACHED EROSION AND SEDIMENT PLAN, APPEARS TO FULFILL THE TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND THE REQUIREMENTS OF THE CITY OF RAPID CITY. I UNDERSTAND THAT ADDITIONAL EROSION AND SEDIMENT 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 THE RESPONSIBLE PARTY UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

RW Akers — OWNER/DEVELOPER — 1/14/13 DATE

GENERAL CONTRACTOR (OPTIONAL) — DATE

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.

M R Kenzman — ENGINEER — 1-10-2013 DATE

LEGEND

- BOREHOLE
- MANHOLE
- CLEAN OUT
- FIRE HYDRANT
- WATER VALVE
- POWER POLE
- LIGHT POLE
- CONIFEROUS BUSH
- DECIDUOUS TREE
- CONIFEROUS TREE
- SIGN
- TELEPHONE BOX
- IRRIGATION VALVE
- PROPERTY LINE
- BARBWIRE FENCE
- SILT FENCE
- CURB & GUTTER
- WATER LINE
- POWER LINE
- OHP — OVER HEAD POWER
- TELEPHONE LINE
- FIBER LINE
- 3280 MINOR CONTOUR (1')
- 3270 MAJOR CONTOUR (5')
- CONCRETE SURFACE
- ASPHALT SURFACE
- GRAVEL SURFACE
- LANDSCAPE SURFACE
- DENOTES FOUND SURVEY MONUMENT
- (M) MEASURED THIS SURVEY
- (R) RECORDED IN A PREVIOUS PLAT OR DESCRIPTION

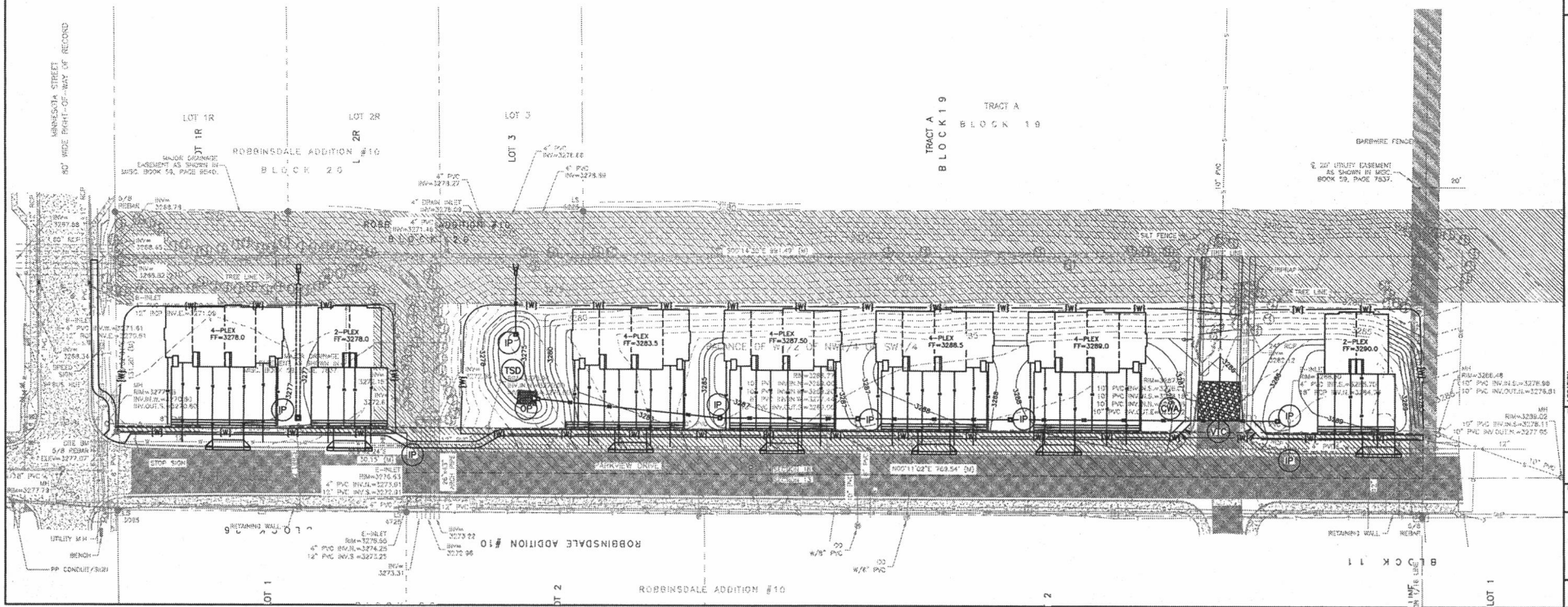
VALID FOR CONSTRUCTION OF GRADING AND PRIVATE UTILITIES ONLY: FINAL SURFACING DESIGN DETAILS (LAYOUT & SURFACING) ARE NOT YET INCLUDED.

UTILITIES

SOUTH DAKOTA ONE CALL NOTIFICATION CENTER
11880 GREENVILLE AVENUE
DALLAS, TX 75243
1-800-781-7474

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owners or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

0 20' 40' 80'
SCALE: 1" = 40'
CONTOUR INTERVAL=1'
JANUARY 10, 2013



Prepared By: RENNER & ASSOCIATES, LLC. 616 SIXTH ST. · RAPID CITY, SD 57701 PHONE: 605/721-7310 FAX: 605/721-7313 E-MAIL: OFFICE@RENNERLLC.COM CITY HALL, 1923

PROFESSIONAL ENGINEER — MITCHELL B. KENZMAN — SOUTH DAKOTA — 1/10/13

Scale:	1" = 40'
Designed By: JRO	Drawn By: JRO
Design Date: 1/2013	Print Date: 1/10/13
Surveyed By: RL, NR	Survey Date: 10/14/2011
Revisions: 1/10/13 – REVISION #1	

LOCATION: BALANCE OF THE W1/2 OF THE NW1/4 OF THE SW1/4 OF SECTION 18 T1N, R8E, BHM RAPID CITY, PENNINGTON COUNTY, SOUTH DAKOTA

Prepared For: BOB AKERS P.O. BOX 8066 RAPID CITY, SD 57709

Internal Job No: #2105.11

Sheet Title: EROSION CONTROL MINIMUM REQUIREMENTS

Sheet: 2 of 7

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