

EAST MALL DRIVE CONNECTION

NORTH LACROSSE STREET TO EAST NORTH STREET

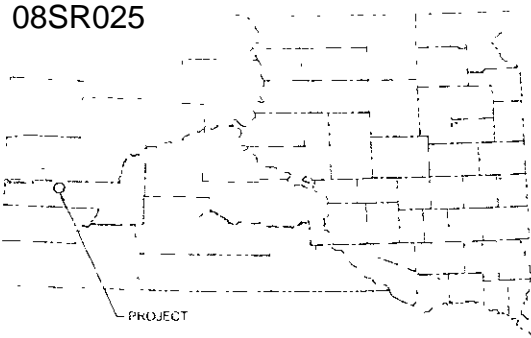
CITY OF RAPID CITY PROJECT NO. ST06-1334b - CIP #50521

SDDOT PROJECT NO. EM1608(3) - PCN 012F

GRADING, PCC PAVEMENT, CURB & GUTTER, STORM SEWER
PAVEMENT MARKINGS, LIGHTING, SIGNALS, PERMANENT SIGNING
WATER & SANITARY SEWER

INDEX OF SHEETS

(SEE SHEET 2 FOR COMPLETE INDEX OF SHEETS)



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Rapid City Growth
Management Department



CIVIL PLANS PREPARED BY



Ferber Engineering Company, Inc.

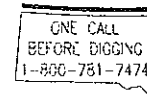
Civil Engineering • Water Resources • Transportation • Land Surveying
729 East Watertown St, Rapid City, SD 57701 • Phone (605) 343-3311

www.FerberEngineering.com

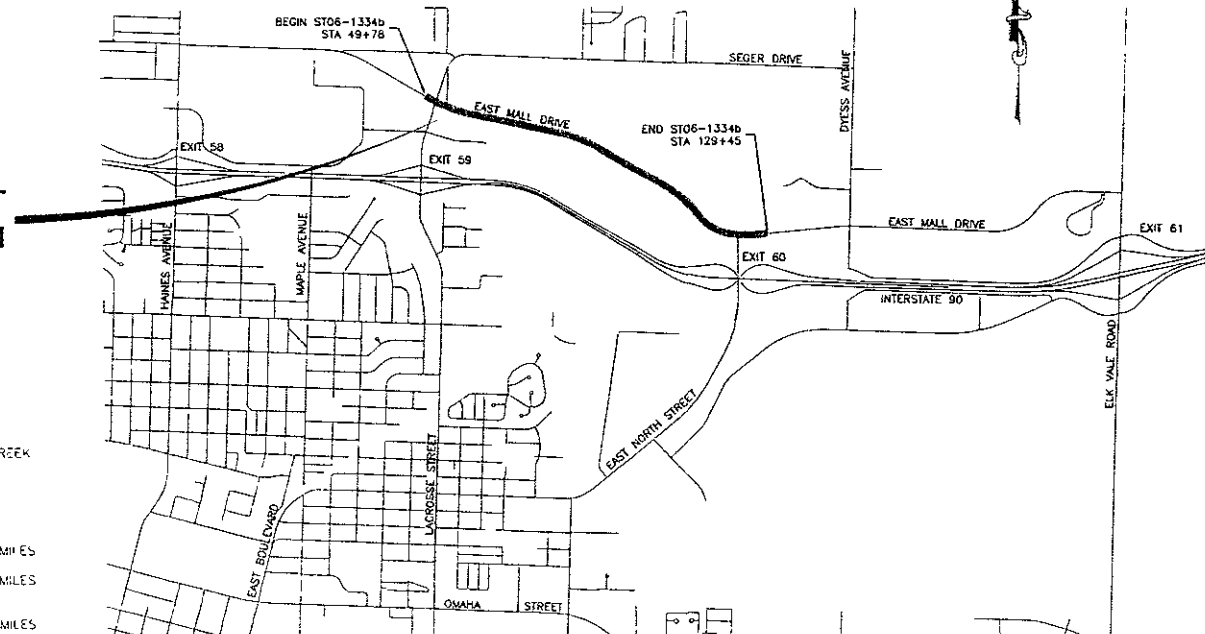
ELECTRICAL PLANS PREPARED BY



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PROJECT LOCATION

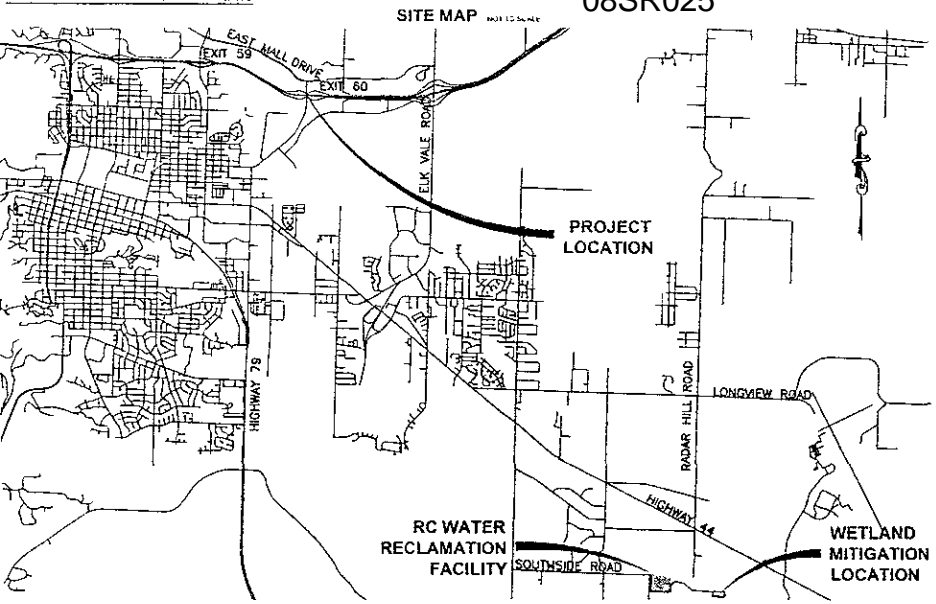


SIORV WATER PERMIT
MAJOR STREAM BOX ELDER CREEK
AREA DISTURBED 66 ACRES

EAST MALL DRIVE CONNECTION
GROSS LENGTH 1.509 MILES
LENGTH OF EXCEPTIONS 0.000 MILES
NET LENGTH 1.509 MILES

SITE MAP NOT TO SCALE

PLOTTING DATE: 01/31/08



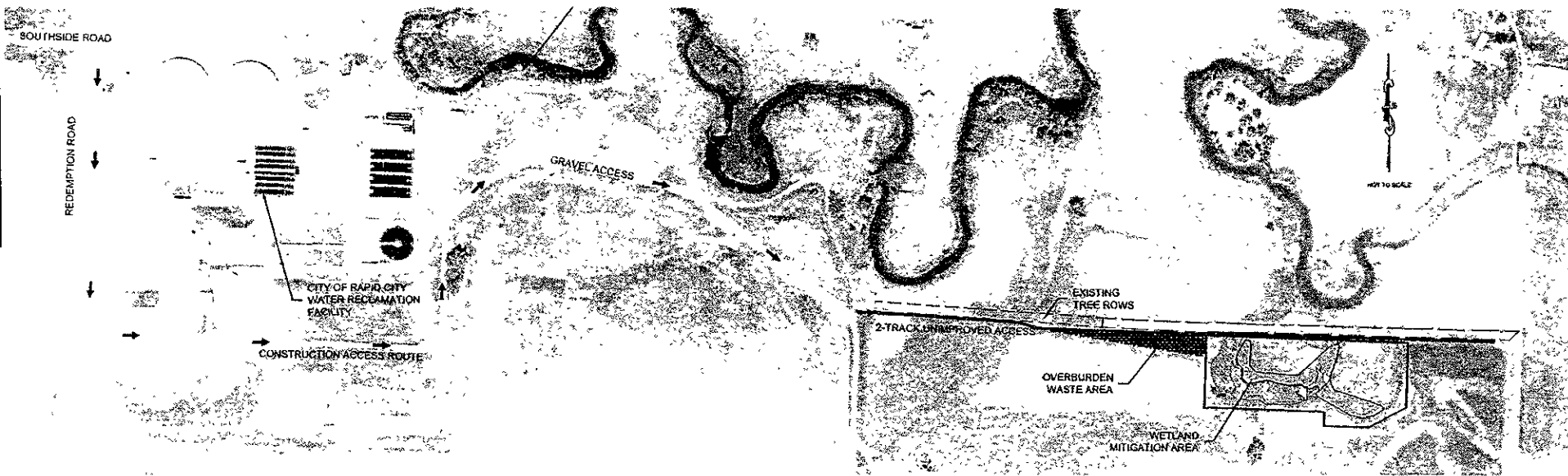
SITE ACCESS NOTES

1. ACCESS TO THE MITIGATION SITE WILL BE THROUGH THE WATER RECLAMATION FACILITY (WRF) DURING NORMAL BUSINESS HOURS (7:00 AM - 3:30 PM).
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACCESS TO THE SITE WITH WRF SUPERINTENDENT. WRF TELEPHONE NUMBER IS (605) 394-4174.
3. DAMAGE TO WRF ROADS RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY OF RAPID CITY.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING GRAVEL ACCESS ROAD DURING CONSTRUCTION ACTIVITIES.
5. THE WRF ON SITE SPEED LIMIT IS 10 MPH.
6. CARE MUST BE TAKEN WHEN ACTIVITIES TAKE PLACE AROUND THE TREE ROWS AT THE WETLAND MITIGATION SITE. ANY DAMAGE TO THE TREES CAUSED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR'S ACTIVITIES MUST ALLOW FOR THE PASSAGE OF A WRF WATER TRUCK ALONG THE TWO TRACK ACCESS.

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WETLAND MITIGATION NOTES

- THIS PORTION OF THE EAST WALL DRIVE CONNECTION PROJECT WILL HAVE A START DATE OF MAY 15, 2008 AND A COMPLETION DATE OF JUNE 15, 2008
- CONTRACTOR SHALL SPRAY ALL AREAS WITHIN THE WETLAND, EXCLUDING THOSE AREAS OF REED CANARYGRASS, WITH A NON-SELECTIVE HERBICIDE SUCH AS ROUNDUP QUINPRO" OR APPROVED EQUAL. HERBICIDE MIX SHALL CONTAIN 2 QUARTS PER ACRE OF ACTIVE CHEMICAL (INCIDENTAL)
- TOTAL ESTIMATED WETLAND DISTURBANCE AREA TO BE SPRAYED IS 1.24 ACRES
- SPRAYING ACTIVITIES SHALL BE COMPLETED AT TIMES TO LIMIT WIND DRIFT KILL. DRIFT RETARDANT SHALL BE USED IN THE SPRAY MIX
- EFFECTUALITY OF KILL SHALL BE EVALUATED 3 DAYS FOLLOWING HERBICIDE APPLICATION. IF COMPLETE KILL IS NOT ATTAINED, REAPPLICATION OF HERBICIDE WILL BE REQUIRED AT THE EXPENSE OF THE CONTRACTOR
- TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES. (INCIDENTAL)
- ONCE FINAL SUBGRADE IS REACHED IN THE WETLAND CREATION AREA, TOPSOIL SHALL BE PLACED TO A DEPTH OF 6 INCHES (INCIDENTAL)
- WETLAND DRAINAGE SEED MIX.

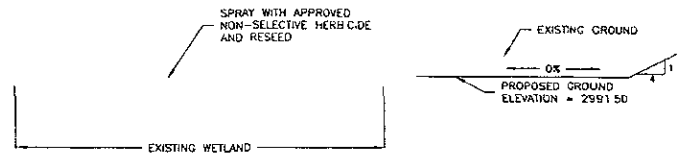
AMERICAN SLOUGHRASS	0.4 LBS/AC
HEBBERIA SEDGE	0.4 LBS/AC
INLAND SALTIWASS	0.4 LBS/AC
CANADA WILD RYE	3.8 LBS/AC
STRIPED BARN WHEATGRASS	2.8 LBS/AC
PINK BANANAGRASS	2.4 LBS/AC
BALTIC RUSH	0.1 LBS/AC
SOLITGRASS	1.1 LBS/AC
HESTERIA WHEATGRASS	3.9 LBS/AC
PINK BELLEGRASS	0.2 LBS/AC
MUTTALL ALKALIGRASS	0.1 LBS/AC
THREE SQUARE BULBRUSH	1.2 LBS/AC
TOTAL	16.8 LBS/AC
- ALL DRILL SEEDING SHALL BE COMPLETED TO A MAXIMUM SEED DEPTH OF 0.5 INCH
- A COMMERCIAL FERTILIZER WITH A MINIMUM GUARANTEED ANALYSIS OF 18-46-0, 11-52-0, OR AN APPROVED ALTERNATE FERTILIZER SHALL BE APPLIED TO ALL SEEDING AREAS IN ACCORDANCE WITH THE CITY OF RAPID CITY STANDARD SPECIFICATIONS. THE RATE OF APPLICATION SHALL BE 200 POUNDS PER ACRE
- PAYMENT FOR SEEDING, FERTILIZING AND MULCHING FOR THE WETLAND ENHANCEMENT AND WETLAND CREATION AREAS WILL BE BASED ON PLANS QUANTITIES AND MADE AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SEEDING, FERTILIZING, MULCHING (WETLAND MITIGATION)"
- THE WETLAND AREAS SHALL BE IRRIGATED BY PUMP IRRIGATION FROM RAPID CREEK AT THE RATE OF 1 INCH PER DAY OR 40,000 GAL/DAY FOR 20 WORKING DAYS OVER THE 1.24 ACRES OF DISTURBANCE (INCIDENTAL) CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TEMPORARY WATER USE PERMIT FROM SDDENH. AN ONLINE APPLICATION CAN BE FOUND AT [HTTP://WWW.STATE.SD.US/DENA/DES/WATER/RIGHTS/TEMP_FORM.HTM](http://www.state.sd.us/dena/des/water/rights/TEMP_FORM.htm)
- CONTRACTOR IS RESPONSIBLE FOR WEED CONTROL WITHIN THE DISTURBANCE AREA DURING THE WARRANTY PERIOD OF THE EAST WALL DRIVE CONNECTION PROJECT (INCIDENTAL)
- TOTAL ESTIMATED WETLAND DISTURBANCE AREA TO BE SEEDED WITH WETLAND SEED MIX IS 1.24 ACRES
- INSTALLATION OF 12" MULCH FILTER SOCK ALONG WITH ANY OTHER TEMPORARY EROSION CONTROL DEVICES NECESSARY FOR THE PROTECTION OF THE SITE WILL BE CONSIDERED INCIDENTAL TO THE WETLAND MITIGATION PORTION OF THIS PROJECT

EXISTING VEGETATION

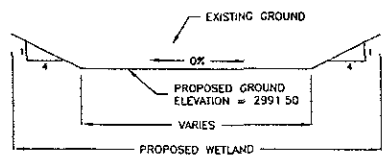
- THE FOLLOWING PLANT SPECIES ARE FOUND WITHIN THE PROPOSED PROJECT SITE
 - REED CANARYGRASS
 - CANADA THISTLE
 - SMOOTH BROME
 - POISON HEMLOCK
 - RAGWEED
 - KOCHIA

OVERBURDEN WASTE AREA

- APPROXIMATELY 900 CUBIC YARDS OF WASTE MATERIAL WILL BE GENERATED DURING WETLAND CONSTRUCTION. WASTE MATERIAL WILL BE FIELD MEASURED BY THE ENGINEER AND PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "UNCLASSIFIED EXCAVATION (WETLAND MITIGATION)"
- OVERBURDEN WASTE AREA SHALL BE STRIPPED OF 6 INCHES OF TOPSOIL PRIOR TO PLACEMENT OF WASTE AND REPOSOILED PRIOR EXCAVATION ACTIVITIES ARE COMPLETE (INCIDENTAL)
- OVERBURDEN WASTE AREA SHALL BE SEEDED WITH A NON-IRRIGATED SEED MIX AND HYDROMULCHED ACCORDING TO CITY OF RAPID CITY STANDARD SPECIFICATIONS (INCIDENTAL)



SECTION A - A
TYPICAL EXCAVATION SECTION



SECTION B - B
TYPICAL EXCAVATION SECTION

