

OMAHA STREET STORM WATER QUALITY PROJECT

Rapid City, South Dakota

Final CD Review Submittal

IDENTIFICATION NO: PW042809 -11
DW PROJECT NO. R09-336
DATE: FEBRUARY 26, 2010

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OWNER:

City of Rapid City
300 8th Street
Rapid City, South Dakota
Phone: (605) 394-4145
Fax: (605) 394-6636

Contact Rod Johnson
Public Works Dept.

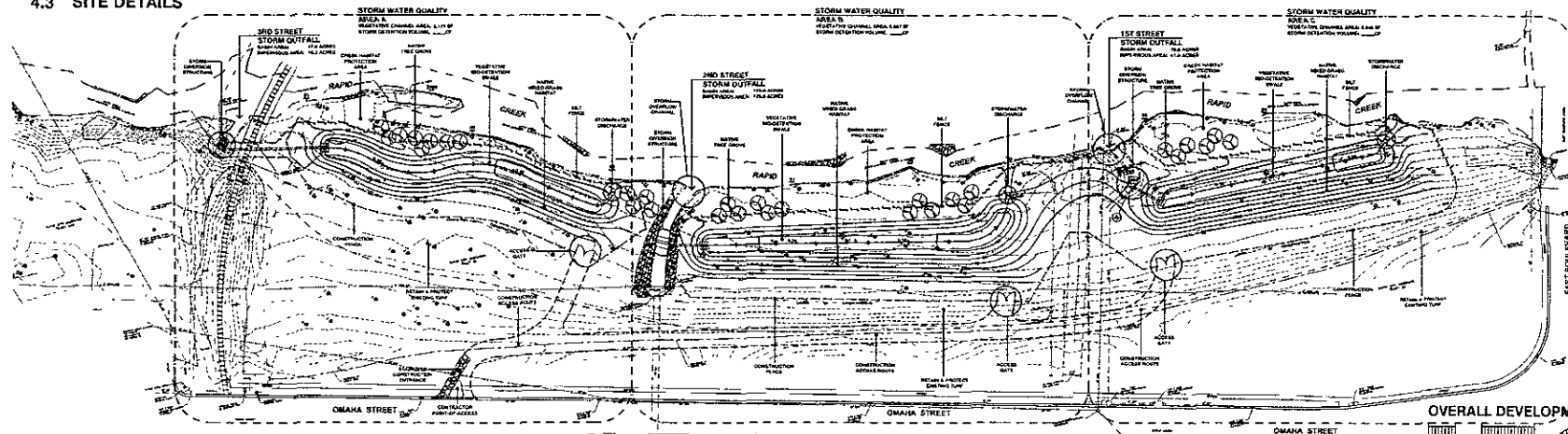
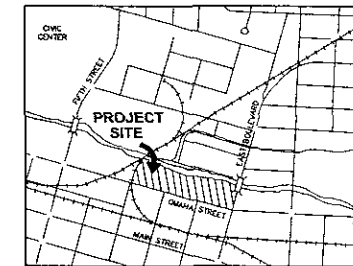
CONSULTANTS:

LANDSCAPE ARCHITECTURE:

Designworks, Inc.
526 St. Joseph Street
Rapid City, SD 57701
Tel (605) 394-0394
Fax. (605) 394-9588

Contact: Randy Fisher, ASLA

VICINITY MAP



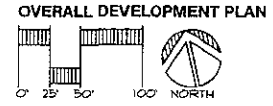
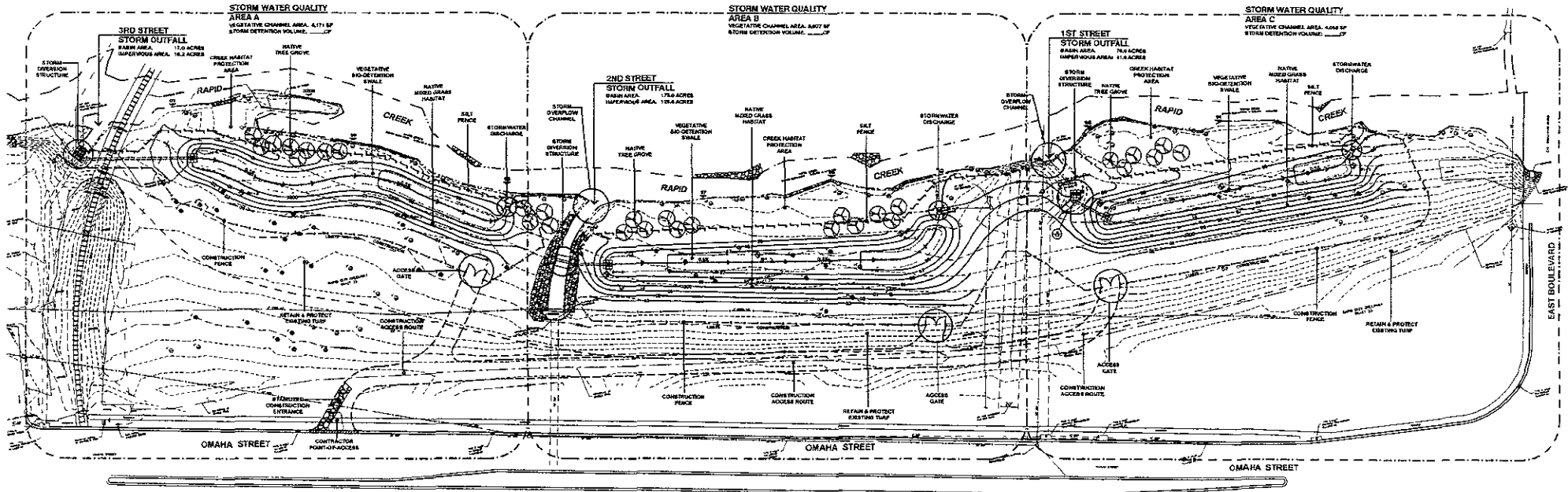
OVERALL DEVELOPMENT PLAN



OMAHA STREET STORM WATER QUALITY PROJECT

Rapid City, South Dakota

IDENTIFICATION NO: PW042809 -11
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Rapid City Growth Management Department



526 South Joseph St.
Rapid City, SD 57701
Tel: 605/994-0394
Fax: 605/954-9568

PROJECT INFORMATION

Project Name: _____
 Client: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Date: _____
 Project Manager: _____
 Designer: _____

DESIGNER INFORMATION

Project No.: _____
 Drawing No.: _____
 Scale: _____
 Date: _____
 Project Manager: _____
 Designer: _____

APPROVALS

Client: _____
 Designer: _____
 Date: _____

1. PURPOSE AND SCOPE
 The purpose of this plan is to provide a detailed description of the storm water pollution prevention measures to be installed on the site. The scope of the plan includes the design and construction of the storm water management system, including the storm water outfall, storm water detention basin, and storm water conveyance system.

2. REGULATORY REQUIREMENTS
 The design and construction of the storm water management system shall comply with the following regulatory requirements:
 - Rapid City Growth Management Department Storm Water Pollution Prevention Ordinance
 - National Pollutant Discharge Elimination Act (NPDES) Permit
 - South Dakota Storm Water Pollution Prevention Act

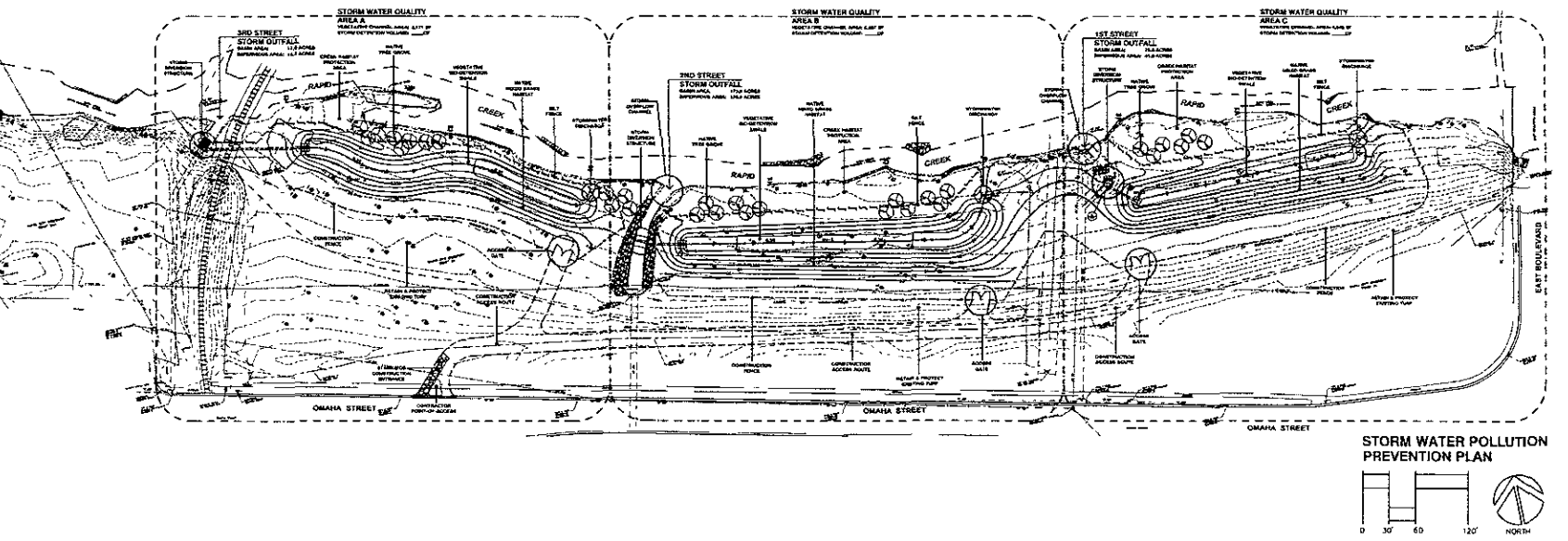
3. DESIGN CRITERIA
 The design of the storm water management system shall be based on the following design criteria:
 - Storm water runoff shall be calculated using the Rational Method with a runoff coefficient of 0.4.
 - The storm water detention basin shall be designed to store the storm water runoff for a minimum of 24 hours.
 - The storm water conveyance system shall be designed to convey the storm water runoff to the storm water outfall at a minimum velocity of 2.0 feet per second.

4. CONSTRUCTION REQUIREMENTS
 The construction of the storm water management system shall comply with the following requirements:
 - All construction shall be in accordance with the Rapid City Storm Water Pollution Prevention Ordinance.
 - The storm water detention basin shall be constructed with a minimum depth of 4 feet.
 - The storm water conveyance system shall be constructed with a minimum diameter of 18 inches.

5. MAINTENANCE REQUIREMENTS
 The storm water management system shall be maintained in accordance with the following requirements:
 - The storm water detention basin shall be inspected and cleaned at least once per year.
 - The storm water conveyance system shall be inspected and cleaned at least once per year.

6. NOTES
 - All construction shall be in accordance with the Rapid City Storm Water Pollution Prevention Ordinance.
 - The storm water management system shall be designed to meet the requirements of the NPDES Permit.
 - The storm water management system shall be designed to meet the requirements of the South Dakota Storm Water Pollution Prevention Act.

7. REFERENCES
 - Rapid City Storm Water Pollution Prevention Ordinance
 - National Pollutant Discharge Elimination Act (NPDES) Permit
 - South Dakota Storm Water Pollution Prevention Act



STORM WATER POLLUTION PLAN OMAHA STREET STORM WATER QUALITY PROJECT RAPID CITY, SOUTH DAKOTA

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 File Name: 10SR-150-01
 Drawn By: L.S.
 Checked By: L.S.
 Date: 02-26-10
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Scale: 1" = 30'
 North Arrow