


COUNCIL COMMUNICATION

	Number:	21-208	Meeting:	May 10, 2021
	Agenda Item:	7	Roll Call:	21-0672
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Approving and Adopting the Iowa Statewide Urban Design and Specifications (SUDAS) Design Manual, 2021 Edition, SUDAS Standard Specifications, 2021 Edition, and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2021 Edition, as the official design standards and standard specifications and supplemental specifications for the City of Des Moines, Iowa.

SYNOPSIS:

Recommend approval and adoption of the latest editions of the SUDAS Manuals, which are known as the SUDAS Design Manual, 2021 Edition, and SUDAS Standard Specifications, 2021 Edition and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2021 Edition, as the official design standards and standard specifications for construction of public improvements in the City. To be in effect beginning with all projects authorized by the City Council starting May 24, 2021, which shall remain in effect until such time as they are further amended by this Council.

The SUDAS Design Manual and SUDAS Standard Specifications are statewide standards for design and construction of urban public improvements in Iowa, which are the product of a joint effort by many local jurisdictions to ensure that public improvements will function adequately, reduce maintenance problems, are durable and safe, and most of all, cost effective to the public within each jurisdiction using these design standards and standard specifications. City Supplemental Specifications supersede SUDAS Standard Specifications.

FISCAL IMPACT:

Reduced design and construction costs through uniformity, understanding, and acceptance by adopting updated Statewide Standards, which includes reduction of contractor confusion and mistakes due to differing specifications and encouragement of more bidders.

ADDITIONAL INFORMATION:

- The City Engineer recommends approval and adoption of the latest editions of these SUDAS Manuals, which are now known as the SUDAS Design Manual, 2021 Edition, and SUDAS Standard Specifications, 2021 Edition, and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2021 Edition, as the official design standards and standard specifications for construction of public improvements in the City, to be

in effect beginning with all projects authorized by the City Council starting May 24, 2021, which shall remain in effect until such time as they are further amended by the Council. City Supplemental Specifications supersede SUDAS Standard Specifications.

- The non-profit corporation, SUDAS Corporation comprised of representatives of the Iowa Department of Transportation (IDOT) and Iowa cities and counties, and other stakeholders including Metropolitan Planning Organizations (MPOs), Transportation Management Areas (TMAs), and consultants, provides ownership and management of these statewide standards for urban public works improvements in Iowa. The SUDAS Corporation, working with the Institute for Transportation at Iowa State University (InTrans), has continued to update said SUDAS Design Manual and SUDAS Standard Specifications and develop them in accordance with an existing Intergovernmental 28E Agreement.
- The SUDAS Corporation has an extensive statewide district committee structure and various technical committees, all comprised of professional engineers representing Iowa stakeholders, Representatives from the Engineering and Public Works Departments participate in the various committees, and two (2) City of Des Moines representatives sit on the 37-member SUDAS Board of Directors. These committees meet to review the statewide standards for design and construction of urban public improvements and recommend changes that need to be made due to regulatory changes, changes of materials, improved construction techniques, and changing technology in the construction industry. After review and approval by the various committees and the SUDAS Board of Directors, the revisions are incorporated into the SUDAS Design Manual and SUDAS Standard Specifications annually.
- City staff recommends the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2021 Edition.
- By using standard designs and specifications, Iowa's cities have obtained the following benefits:
 - Uniformity of urban design and specifications across the state.
 - Uniform public improvements (e.g., similar sidewalk ramps) from city to city.
 - Reduction of contractor confusion and mistakes due to differing specifications; and encouragement of more bidders.
 - Mechanism to be proactive in research and studies for new and improved urban design and specifications.
 - Method for study and statewide implementation of latest techniques and material use.
 - Forum that allows state and local governments to collaborate with industry.
 - Reduced costs through uniformity, understanding, and acceptance.
 - In-Trans keeps the statewide manuals up-to-date. This relieves individual communities of that burden and expense while ensuring there are informed about new products and procedures.
- The revisions to this year's City of Des Moines General Supplemental Specifications included:
 - Allowing Polypropylene Pipe as an alternative pipe material for storm sewer installation in the right of way.
 - Adding a provision if the Contractor fails to notify the Engineer or Engineer's representative prior to performing work, the Contractor may not be compensated for the work performed without inspection.

- Allowing Polypropylene Pipe as an alternative sewer pipe material for storm sewer installation in the right of way.
- Allowing precast concrete intake structures if specified in the construction drawings.
- Requiring asphalt pavers to span 20 feet in width or using tandem pavers to eliminate construction joints in the asphalt paving, which lead to maintenance issues.
- Adding a provision to assess liquidated damages if the Contractor fails to seed or sod within seven (7) days after a written order is issued by the Engineer.

PREVIOUS COUNCIL ACTION(S):

Date: May 4, 2020

Roll Call Number: [20-0737](#)

Action: [Approving](#) and adopting the Iowa Statewide Urban Design and Specifications (SUDAS) Design Manual, 2020 Edition, SUDAS Standard Specifications, 2020 Edition, and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2020 Edition, as the official design standards and standard specifications and supplemental specifications for the City of Des Moines. ([Council Communication No. 20-195](#)) Moved by Gatto to adopt. Motion Carried 7-0..

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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