


COUNCIL COMMUNICATION

 CITY OF DES MOINES OFFICE OF THE CITY MANAGER	Number:	24-100	Meeting:	March 4, 2024
	Agenda Item:	9	Roll Call:	24-0310
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Approving and adopting the Iowa Statewide Urban Design and Specifications (SUDAS) Design Manual, 2024 Edition, SUDAS Standard Specifications, 2024 Edition, and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2024 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, 2024 Edition, and SUDAS Standard Specifications, 2024 Edition and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2024 Edition, as the official design standards and standard specifications for construction of public improvements in the City and to be in effect beginning with all projects authorized by the City Council on March 4, 2024, 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 Iowa Statewide Urban Design and Specifications Corporation has an extensive statewide district committee structure and various technical committees, all comprised of professional engineers representing Iowa stakeholders. Representatives from the City's Engineering and Public Works Departments participate in the various committees, and one (1) City of Des Moines representative sits 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 further recommends approval and adoption of the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2024 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 (Iowa State University's Institute for Transportation) keeps the statewide SUDAS manuals up to date, relieving individual communities of that responsibility and expense while ensuring they are informed about new products and procedures.
- The revisions to this year's City of Des Moines General Supplemental Specifications include:
 - Added provision to clarify requirements for contractors to provide and update construction progress schedules.
 - Added provision whereby the City may request contractors and their subcontractors to provide verifiable payroll records to the Engineer.
 - Added requirement for compaction of backfill to be by mechanical pneumatic or vibratory compaction equipment appropriate to the existing conditions that will not result in damage to adjacent ground, existing improvements, or the work being completed.
 - Added requirement for repair of damaged sewer pipes after paving shall be addressed by Cured-In-Place Pipelining at the expense of the contractor unless another repair method is required and/or approved by the Engineer.
 - Added a provision that fly ash will not be allowed between October 15 and April 1, unless authorized by the Engineer.
 - Added requirements for volumetric batching for Portland Concrete Cement.
 - Added provision whereby Portland Cement Concrete (PCC) curb and gutter sections adjacent to Hot Mix Asphalt (HMA) pavements shall be constructed and allowed to reach maturity, or a compressive strength of 3000 PSI (pounds per square inch), prior to the installation of the HMA pavement.
 - Revised provisions for HMA pavement to require contractors to provide seamless paving.

- Added provision regarding proper installation of a concrete border for detectable warning systems.
- Revised provision for curb details for Class A sidewalks.
- Added provision for process to remove pavement markings by high pressure water blasting only.
- Revised provision for temporary traffic control deficiency deduction.
- Added provisions for chain link fence installation.
- Revised provisions for installation of concrete steps and handrail.
- Added provision for concrete washout deficiency.

PREVIOUS COUNCIL ACTION(S):

Date: March 6, 2023

Roll Call Number: [23-0280](#)

Action: [Approving](#) and adopting the Iowa SUDAS Design Manual, 2023 Edition, SUDAS Standard Specifications, 2023 Edition, and the City of Des Moines General Supplemental Specifications to the SUDAS Standard Specifications, 2023 Edition, as the official design standards and standard specifications and supplemental specifications for the City of Des Moines. ([Council Communication No. 23-119](#)) Moved by Gatto to adopt. Second by Voss. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE**

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