

Councilmember Mendenhall offered the following Ordinance and moved for its adoption:

ORDINANCE NO. 232

ORDINANCE AMENDING CHAPTER 135 BY ADDING SECTION 135.09(13) ESTABLISHING SPECIFICATIONS FOR TRENCHING IN THE CITY’S RIGHT-OF-WAY AND ALSO ESTABLISHING SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN THE CITY’S RIGHT-OF-WAY

WHEREAS, the City of Okoboji, Iowa (“City”) has heretofore caused notice to be published of a public hearing on its proposal to amend the City Code of Ordinances, more specifically, amend Chapter 135 by adding Section 135.09(13) establishing specifications for trenching in the City’s Right-of-Way and also establishing specifications for public improvements in the City’s Right-of-Way, recommended by the City Engineer; and

WHEREAS, the Deputy City Clerk published notice of said hearing in a newspaper of general circulation in Dickinson County, Iowa, in accordance with applicable law;

WHEREAS, the City Council has had said public hearing and has determined it is in the best interest of the City and its citizens to enact the aforementioned proposal;

WHEREAS, a motion was made by Councilmember Robinson and seconded by Councilmember Andres to approve the first consideration/reading of this Ordinance, and upon roll call, the following vote was recorded:

	AYE	NAY
<u>Jim Delperdang</u>	<u>X</u>	<u> </u>
<u>Jim Hentges</u>	<u>X</u>	<u> </u>
<u>Julie Andres</u>	<u>X</u>	<u> </u>
<u>Jerry Robinson</u>	<u>X</u>	<u> </u>
<u>Walter Mendenhall</u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Said first consideration/reading of this Ordinance was passed by the City Council;

WHEREAS, a motion was made by Councilmember Robinson and seconded by Councilmember Hentges to waive the second and third consideration/readings of this Ordinance and upon roll call the following vote was recorded:

	AYE	NAY
Jim Delperdang	X	
Jim Hentges	X	
Julie Andres	X	
Jerry Robinson	X	
Walter Mendenhall	X	

Said motion to waive the second and third consideration/readings were approved by the City Council;

WHEREAS, a motion was made by Councilmember Robinson and seconded by Hentges to pass and adopt this Ordinance and upon roll call the following vote was recorded:

	AYE	NAY
Jim Delperdang	X	
Jim Hentges	X	
Julie Andres	X	
Jerry Robinson	X	
Walter Mendenhall	X	
Jim Delperdang	X	

Said motion to pass and adopt this Ordinance was approved by the City Council.

NOW, THEREFORE, BE IT ENACTED by the City Council of the City of Okoboji, Iowa:

Section 1. Preamble. The City recently had an incident where a trench in the City Right-of-Way settled, compromising a City street. In order to avoid similar future incidents, the City is adopting specifications for trenching in the City’s Right-of-Way and also adopting specifications for public improvements in the City’s Right-of-Way, as recommended by the City Engineer.

Section 2. Purpose. The purpose of this Ordinance is to amend Chapter 135 of the City Code of Ordinances by adding section 135.09(13) establishing the aforementioned specifications, as attached hereto.

Section 3. Applicability. The attached specifications are hereby adopted and approved, and shall be applicable to trenching work in the City’s Right-of-Way. Further,

the attached specifications are hereby adopted and approved, and shall be applicable to public improvements in the City's Right-of-Way.

Section 4. Repealer. All ordinances or parts of ordinances in conflict herewith be and the same are hereby repealed to the extent of such conflict.

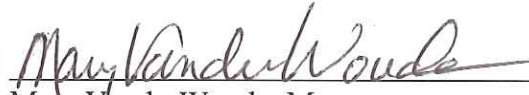
Section 5. Severability Clause. If any section, provision or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

Section 6. When Effective. This ordinance shall be in effect after its final passage, approval and publication as provided by law.


Section 7. Publication. The City Clerk/Administrator is hereby authorized and directed to publish this Ordinance in a newspaper of general circulation in Dickinson County, Iowa in conformance with the Iowa law.

Passed and approved this 13th day of December, 2016.

ATTEST:



Mary VanderWoude, Mayor



City Administrator/Clerk, Jason J. Peters

I, the undersigned, hereby certify that I am the duly appointed, qualified and acting City Administrator/Clerk for the City of Okoboji, Iowa, and the foregoing Ordinance was duly adopted by the City Council of the City of Okoboji, on the 13th day of December, 2016 and thereafter on the 28th day of December, 2016, the same was published in the Dickinson County News, a weekly newspaper published in Dickinson County, Iowa.

Dated this 28th day of December, 2016.



City Administrator/Clerk, Jason J. Peters

All work within the Public Right-of-Way and/or Easements within the City of Okoboji shall conform to the most recent edition of the Iowa Statewide Urban Design and Specifications (SUDAS) Manuals, subject to the following Supplemental Specifications:

Supplemental Specifications for Public Improvements in the Okoboji Public Right-of-Way (Effective Upon Passage by Council and Publication):

These Supplementary Specifications amend or supplement the Current Edition of the Iowa Statewide Urban Design and Specifications (SUDAS) Manuals as indicated below. All provisions that are not so amended or supplemented remain in full force and effect.

1.) Water Main and Water Services:

- a.) Water main shall be Class 52 Ductile Iron Pipe conforming with AWWA C151 or PVC Pipe conforming to AWWA C900 or C905 with gray iron pipe equivalent outside diameters. Ductile Iron Pipe shall have cement mortar lining and outside asphaltic coating meeting the requirements of AWWA C104. Class P-3 Bedding shall be required. Pipe shall be installed with a minimum of 6 feet of cover over the top of the pipe.
- b.) Fittings shall be Ductile Iron Type, Compact, conforming to the requirements of AWWA C153. Fittings shall have cement mortar lining and outside asphaltic coating meeting the requirements of AWWA C104. Joints shall be mechanical. Nuts and bolts shall be fluorocarbon coated. Install Megalug 2000PV restraining glands on all fittings.
- c.) Hydrants shall be Mueller A-423, red, dry barrel type, manufactured in accordance with AWWA C502. Hydrants shall have one 4.5 inch pump connection and two 2.5 inch hose connections; threads shall be National Standard Type. Hydrant barrel diameter and main valve opening shall be 5 inch; hub shall be 6 inch diameter mechanical joint. Hydrants shall have 18 inch, breakaway type traffic flange. Hydrant bury depth to be 6.5 feet. Provide permanent markings on hydrant indicating manufacturer's name, year of manufacture, and bury depth.
- d.) Valves shall be Mueller A-2360-20 resilient seated gate valves conforming with AWWA C509 and designed for a working pressure of 200 psi. Valve connection to be mechanical joint. The operating stem shall be non-rising with "O" ring seals; operating nut to be 2 inch square. Valve shall open in counter clockwise direction. Valves shall be marked on the bonnet or body showing manufacturer's name, pressure rating, year of manufacture, size, and open indicating arrow. Valve boxes shall be Tyler 666, cast iron three-piece screw type with 5.25 inch inside diameter on the box shaft. Box length shall be able to provide for 7 feet of cover over top of valve. Valve box shall be

adjustable to 6 inches up or down from surface grade. Valve cover shall have raised letter indicating "water" and shall be drop inserted into box.

- e.) Water service lines shall be 1 inch minimum and shall be installed with a minimum of 6 feet of cover over the top of the pipe. Pipe to be Type K soft copper meeting the requirements of ASTM B88. Corporation stops shall be Mueller B-25008NL, compression type or Ford equal Fb-1000-4-q-NL. Curb stop shall be Mueller B-25155NL Mark II Orseal or Ford equal B44-444M-q-NL type, Minneapolis pattern, with 7.5 foot length and adjustable 6 inches up or down from finished grade. Tap saddle, where required, shall be Smith-Blair 372 or Ford #FS300, CC thread. Water services 4 inches or larger shall be Class 52 Ductile Iron.

2.) Sanitary Sewer Main and Services:

- a.) Sanitary sewer main pipe shall be C900 PVC and shall conform to the requirements of ASTM D3034. Joints shall be push on gasketed type conforming with ASTM D3212. Bedding shall be Class F-2.
- b.) Sanitary Sewer Manholes shall be concrete, a minimum 48 inch diameter with eccentric cone section, conforming with the requirements of ASTM C478. Manhole steps shall be polypropylene encased steel and shall be 12 inches wide and spaced at 12 inch vertical intervals. Manhole frame and cover shall be SW-601 Type A, unless the manhole is placed in an area of high surface drainage such as a ditch. In this case, a SW-601, Type C (bolt-down cover) shall be used. Manhole lids shall not have alignment tabs. Between 6 inches and 12 inches of concrete adjusting rings shall be provided between the top of the manhole and the bottom of the manhole casting. External chimney seals shall be required. Manhole shall be backfilled with Class 'C' Gravel, backfill shall be compacted to a minimum 95% of Standard Proctor Density. Rubber o-rings or profile gaskets (precast structures) and bituminous jointing material of butyl sealant wrap shall be applied to the exterior of all sanitary sewer manhole joints. Any connections of sewer pipes to existing manholes shall be core drilled and link-sealed to make a watertight connection. All holes shall be a minimum of 1 foot away from any barrel section joint.
- c.) Sanitary sewer services shall be a minimum of 4 inch diameter and shall be Sch 40 PVC. Connections shall be made utilizing preformed PVC wye service fittings with integral bell and spigot joints with elastomeric seals for new sanitary sewer main construction. Connections shall be made utilizing preformed saddle wyes for service taps when connecting to existing sanitary sewer mains. Pipe that is bored shall be Certa-Lok Yellomine pipe with coupling or integral bell and an SDR of 21 or 17. Cleanouts for service lines shall be installed outside the building and shall extend to grade. Additional building sewer cleanouts shall be installed at intervals not to exceed 100 feet in straight runs and for each change in alignment that exceeds 135 degrees.

No building sewer shall be located in any lot other than the lot that is the site of the building or structure served by such sewer. The use of any abutting lot or any other lot to connect a building sewer shall require a legal easement that is recorded at the Dickinson County Recorder's Office. Said easement shall be binding on all heirs, successors, or assigns to such properties. All requirements of the Iowa Great Lakes Sanitary District for building sewer lines shall also apply to construction of sanitary sewer service lines in the City of Okoboji. In the case of conflicting requirements, the more stringent shall apply.

3.) Storm Sewer:

- a.) Storm Sewer shall be reinforced concrete pipe (RCP) with tongue and groove joints conforming to ASTM C76. Pipe strength shall be minimum 2000D (Class III). Pipe joints shall be gasketed "0" ring type per ASTM C443 and all joints shall be wrapped with fabric. In special circumstances, the City Engineer may require Type 2 connections per IDOT Standard Road Plan DR-121. At a minimum, the first 3 joints outside of a pipe apron shall be installed with Type 2 connections per IDOT Standard Road Plan DR-121. Bedding for Circular Pipe shall be Class R-2. Bedding for Arch Pipe shall be Class R-5.
- b.) Circular storm sewer manholes shall be concrete and shall be a minimum of 48 inch diameter with eccentric cone section at the top, conforming with ASTM C478. Manhole steps shall be polypropylene encased steel and shall be 12 inches wide and spaced at 12 inch vertical intervals. Manhole casting and cover shall be SW-602 Type E. Manhole lids shall not have alignment tabs. Manhole shall be backfilled with Class 'C' Gravel, backfill shall be compacted to a minimum 95% of Standard Proctor Density. Rectangular storm sewer manholes shall be concrete and shall be a minimum of 40 inches x 40 inches.

4.) Streets, Sidewalks, and Recreational Trails:

- a.) Concrete for streets, sidewalks, and recreational trails shall be Class IDOT C-4 Mix. Coarse Aggregate shall be Class 3 Ledge Rock (Limestone). The minimum concrete thickness for streets shall be 6 inches. The minimum concrete thickness for sidewalks and recreational trails shall be 5 inches. The pavement section shall be designed for the CBR value of the soils, the traffic count, the truck count, and other pertinent information.
- b.) Asphalt for street or recreational trails shall have a minimum of 45% crushed particles. Asphalt binder shall be PG 58-28 or PG 64-34 with a 6.00% asphalt binder content. The pavement section shall be designed for the CBR value of the soils, the traffic count, the truck count, and other pertinent information. Pavement thickness shall be structurally equivalent to 6 inches of concrete for streets and 5 inches of concrete for sidewalks and recreational trails.

- c.) Local streets shall have a minimum width of 31 feet from back of curb to back of curb. Curb shall be concrete and shall be 6" standard curbs or Driveway Drop Curbs as per SUDAS Figure PV-102.
- d.) Sidewalks shall be a minimum width of 5 feet and a minimum thickness of 5 inches. Detectable warnings shall be cast iron and shall be on the IDOT approved list of suppliers.
- e.) 12" Subgrade preparation under and 2 feet on each side of new streets and recreational trails shall be required.

Any variations from the Iowa Statewide Design and Specifications (SUDAS) Manual and/or these Supplemental Specifications will be evaluated on a case-by-case basis and will only be approved by the City Engineer in special circumstances where the standards cannot be met or do not apply.

Updated Ordinance for Trenches within the City Right-of-Way in the City of Okoboji, Iowa (Effective Upon Passage by Council and Publication):

All trenches excavated within the Public Right-of-Way within the City of Okoboji shall be excavated to meet all OSHA and other applicable safety regulations and shall meet the requirements of the current edition of the Iowa Statewide Urban Design and Specifications (SUDAS) Manuals and the current edition of the Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction. In case of conflicting requirements, the more stringent shall apply. The backfill shall be compacted in no more than 8" loose lifts, shall be compacted to a minimum of 95% of Standard Proctor Density, and the material shall be within a soil moisture range of optimum moisture to 4% above optimum moisture content. Only suitable backfill material as defined by SUDAS shall be used to backfill the trench. Unsuitable material as defined by SUDAS shall be promptly and properly removed from the site.

Trench compaction testing shall be performed by an independent testing laboratory approved by the City Engineer. For cohesive soils, moisture-density relationships shall be determined by ASTM D698 (Standard Proctor) and at least one test shall be performed for each cohesive soil type. In-place density and moisture content shall be determined by using ASTM D 1556 (sand-cone method) and ASTM D 2216 (laboratory moisture content), or ASTM D 6938 (nuclear methods for density and moisture content). For cohesionless soils, the maximum and minimum index density shall be determined and the relative density shall be calculated using ASTM D 4253 and ASTM D 4254. The testing shall begin at a depth of 2 feet over the top of the pipe/line and shall continue at a minimum for each additional 2 feet of vertical fill. The tests shall be taken at all street crossings and at a maximum spacing of 200 feet horizontally. Additional testing may be required by the City Engineer in the event of non-compliance or if conditions change. Contractor shall excavate as necessary to allow for the necessary compaction tests. For all failed compaction tests, the area that failed shall be reworked, recompacted, and retested as necessary until the specified compaction and moisture content is achieved in all areas of the trench. The areas shall be retested until passing tests are obtained. Copies of all reports and tests shall be submitted to the City Engineer for review.