RESOLUTION TO APPROVE SOUTHERN PINES SANITARY & STORM SEWERS, SECTION #2, FOR SID #297

WHEREAS, Sanitary and Improvement District No. 297, Southern Pines, of Sarpy County, Nebraska, hereinafter SID 297, has submitted plans and specifications to Sarpy County Public Works for certain public improvements, namely to approve Southern Pines Sanitary & Storm Sewer, Section #2, to SID 297;

WHEREAS, SID 297 has requested approval of said plans and specifications for public improvements pursuant to Neb. Rev. Stat. § 39-1402; and,

WHEREAS, Sarpy County Public Works, by written correspondence dated August 3, 2016, which correspondence is attached herewith and incorporated herein by reference, has evaluated the proposed plans and specifications and hereby recommends approval of said improvements;

NOW, THEREFORE, BE IT RESOLVED BY THE SARPY COUNTY BOARD OF COMMISSIONERS that the plans and specifications as submitted to Sarpy County Public Works for improvements to SID 297 are hereby approved.

The above Resolution was approved by a vote of the Sarpy County Board of Commissioners at a public meeting duly held in accordance with applicable law on the day of August, 2016.

[Signatures]

Attest

SEAL

Sarpy County Board Chairman

County Clerk
MEMORANDUM

TO: Sarpy County Board of Commissioners
FROM: Dennis L. Wilson, P.E., Sarpy County Engineer
DATE: August 5, 2016
SUBJECT: Resolution to Approve Southern Pines Sanitary & Storm Sewers, Section 2 for SID 297

The Public Works department has reviewed the plans and specifications for section 2, Sanitary & Improvement District for SID 297. In addition to the plans and specifications, the following statements are understood about the project:

a) The SID 297 Engineer of Record has produced plans and specifications for the aforementioned public improvements and is the engineer of record for the project.

b) SID 297 will pay for 100% of the construction costs.

Our review indicates that the plans, if followed, will meet the minimum standard requirements as specified in the 2003 3rd Edition of the City of Omaha Standard Specifications for Public Works Construction, which is acceptable to the Sarpy County Public Works Department. However, we identified a potential for icing on Rose Lane Road and Portal Street, where runoff in the south gutter is not collected and instead allowed to sheet flow across the street. This could be troublesome for Public Works snow removal operations and potentially slippery for motorists. We notified the Engineer of Record and recommended he add drainage inlets to collect runoff before it exits the gutter. The Engineer of Record feels that the situation is adequate as designed and he made no changes to account for the icing potential.

The Public Works department recommends that the pending resolution be approved by the County Board. If you have any questions, please contact me at 402-537-6900.
August 5, 2016

Mr. Patrick Hillyer
Lamp Rynearson & Associates
14710 West Dodge Road, Suite 100
Omaha, NE 68154

RE: SID No. 297 of Sarpy County, Nebraska
   Southern Pines Sanitary & Storm Sewers, Section #2 For SID 297

Mr. Hillyer:

Sarpy County Public Works has reviewed the plans for the above referenced project for SID No. 297 of Sarpy County. Our review indicates that the plans, if followed, will meet the minimum standard requirements as specified in the 2003 3rd Edition of the City of Omaha Standard Specifications for Public Works Construction, which is acceptable to the Sarpy County Public Works Department. Public Works will recommend approval of the project to the Sarpy County Board of Commissioners.

If you find it necessary to revise the proposed design, please submit changes for our further consideration.

Sincerely,

Dennis Wilson, P.E., PhD
Sarpy County Engineer
July 28, 2016

Mr. Michael Kosa
Public Works
15100 South 84th Street
Papillion, NE 68046

REFERENCE: S.I.D. 297 of Sarpy County
Southern Pines Sanitary & Storm Sewers, and Paving, Section 2
LRA Job No. 0105087.22-030/040/050

Dear Mr. Kosa:

The following responses are provided subsequent to the Project Comment Form dated July 15, 2016, and phone conversations.

1. Sheet 8

Portal Street and Rose Lane Road: Runoff collected (concentrated) in the gutter on the south side of the roadway is not collected at the bottom of the hill and instead is allowed to sheet flow across to the north, increasing the potential for icing to occur. Please revise grading/drainage so that concentrated runoff is not allowed to sheet flow across the roadway, especially at a location where braking is expected.

RESPONSE: The current design of Inlets captures the 10-year storm and keeps the 100-year storm within the right-of-way per regulations. It is our opinion, upon further review, the design meets the intent of design criteria and is an economical design similar to other developments.

2. Sheets 9, 10

Is 4" expansion joint typical? Is there a standard plate for this joint?

RESPONSE: A 4" expansion joint is being used to prevent street creep at the bottom of steep streets. The 4" expansion joint is covered in the specifications and was used to minimize damage to 169th Street, as well as driveways, due to expansion of the roads at the bottom of steep hills with "T" intersections into 169th Street. A 4" expansion joint detail has been added to the plans for clarification.

3. Sheets 9, 10

Roadway grade breaks are shown on Virginia, Cary, Portal, and Rose Lane at each connection to 168th Avenue. Is this acceptable? Typically, I have seen a 1% maximum change in grade without a vertical curve. If acceptable, please let us know where it's been constructed or where it is allowed in roadway design and we can take a look to see if it makes sense in this application.

RESPONSE: Sarpy County subdivision regulations state that grades up to 4% are allowed within 50 feet of the intersection (Section 10.2.16). The grade breaks occur at residential intersections where vehicles will typically be operating at lower speeds to make turning movements or to stop. We have reviewed the design further and find the grades to be acceptable and in compliance with design standards. Below we have provided locations with steeper than 2% approach to the intersection.

Settlers Creek (Design > 2.5%)
- 72nd & Settlers Creek Drive;
- 71st Ave & Settlers Creek Drive
S.l.D. 297 of Sarpy County
Southern Pines Sanitary & Storm Sewers, and Paving, Section 2
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- 69th & Harvest Drive; and
- 67th & Harvest Drive,
Meridian Park (Per GIS)
- 165th and Aurora Street, >2.5%
Palisades (Per GIS)
- 170th and Rampart Street >3%;
- 173rd and Musket Street >3%
Tiburon (Per GIS)
- 173rd Street and Oakmont Drive >3%

Enclosed are NDEQ approval letter and revised full-size sets of sanitary, storm, and paving plans.

Thank you for your attention to this matter. If you need any further information, please do not hesitate to contact me.

Sincerely,

LAMP RYNEARSON

[Signature]

Patrick C. Hillyer, P.E., LEED® AP
Project Manager

Enclosure

c: Jerry Torczon
John Allen

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