

**CITY COUNCIL  
COMMUNICATION:**

**ITEM \_\_\_\_\_**

**02-367**

**OFFICE OF THE CITY MANAGER  
CITY OF DES MOINES, IOWA**

**AGENDA:**

**JULY 8, 2002**

**SUBJECT:**

**SALE OF DES  
MOINES CAPACITY  
IN THE  
WASTEWATER  
RECLAMATION  
AUTHORITY  
SOUTHERN  
INTERCEPTOR AND  
SOUTHSIDE DES  
MOINES  
INTERCEPTOR**

**TYPE:**

**RESOLUTION  
ORDINANCE  
RECEIVE/FILE**

**SUBMITTED BY:**

**JEB E. BREWER, P.E.  
CITY ENGINEER**

**WILLIAM G. STOWE  
PUBLIC WORKS  
DIRECTOR**

**SYNOPSIS -**

The City of Des Moines would convey by sale to the City of Norwalk capacity in the Wastewater Reclamation Authority (WRA) Southern Tier Interceptor and Southside Des Moines River Interceptor. The City of Des Moines and the City of Norwalk currently share conveyance capacity in the sewer that ranges in size from 18-inch diameter to 36-inch diameter pipe.

**FISCAL IMPACT -**

The City of Des Moines will receive \$270,000. The money will be deposited in Fund EN101.

**RECOMMENDATION -**

**Approval of sale of City of Des Moines conveyance capacity in the WRA Interceptor Sewers identified as the Southern Tier Interceptor and the Southside Des Moines River Interceptor.**

**BACKGROUND -**

Des Moines shall sell conveyance capacity in the WRA Interceptor Sewers identified as the Southern Tier Interceptor and the Southside Des Moines River Interceptor.

Norwalk agrees to pay Des Moines a fee of \$270,000 for additional conveyance capacity as follows:

0.8 million gallons per day (mgd) peak flow (0.2 mgd maximum 30-day average) capacity in the Southern Tier Interceptor from the existing Norwalk connection to the Greenfield Plaza development connection. The sections of the Southern Tier Interceptor that are impacted by this transfer of capacity are Phase 10

Segments 3, 7, and 8.

0.4 mgd peak flow (0.1 mgd maximum 30-day average) capacity in the Southern Tier Interceptor from the existing Norwalk connection to and through the Southside Des Moines River Interceptor to the Wastewater Reclamation Facility (WRF). The sections of the Southern Tier Interceptor that are impacted by this transfer of capacity are Phase 10 Segments 3, 4, 5A, 6, 7, 8, 9, 10, and 11. The section of the Southside Des Moines River Interceptor that is impacted by this transfer of capacity is Phase 3 Segment 4.

The Fourth Supplement to the Integrated Community Area (ICA) Agreement establishes the ownership of each segment of WRA interceptor based on a percentage of the pipe capacity. These percentages were based on the flow rates requested from each WRA constituent at the time of the design. The amount of flow requested was used to size the pipe for each segment of interceptor sewer and to determine the construction cost-sharing amount for each segment. The Southern Tier Interceptor was proportioned to only two of the WRA members, the City of Des Moines and Warren County. Warren County was an inactive member of the ICA at the time and requested the minimum sewer capacity necessary to serve the planned communities of Greenfield Plaza and Lakewood and no additional capacity. The sewer capacity assigned to Warren County was set by the Facility Plan to eliminate the wastewater lagoons that at the time served the two planned communities. Neither community was a legal authority recognized by the State of Iowa, so Warren County provided their representation in the WRA.

As a part of the Fourth Supplement to the ICA Agreement, the City of Des Moines requested an additional 1.00 mgd of peak flow capacity for the Highland Hills Trunk Subsystem. The City of Des Moines also requested 9.5 mgd of peak flow capacity for future development of the unsewered and largely undeveloped area to the south and west of the Des Moines International Airport. A large portion of this area is now served by the Southwest Airport Trunk Sanitary Sewer which was built over five years ago and the Southeast Airport Trunk Sanitary Sewer that was completed last year. At the current rate of growth and with the current level of interest in sewer extensions, the flows from the areas to the south and west of the airport are not expected to exceed 3.0 mgd peak flow in the next ten years. The ultimate development in these areas, excluding the future airport clear zone, should not exceed 5.4 mgd. The trunk sewers from these areas have

adequate capacity for the ultimate development.

The City of Des Moines has adequate capacity in the segments of the Southern Tier Interceptor to provide for the future developments in the areas lying to the south and west of the Des Moines International Airport, to support the first ten years of expected growth in the future annexation area in Warren County, and to allow the City of Norwalk to utilize 1.2 mgd of peak flow capacity.

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