

DATA ENTERED 12.5.1

1 9-18-06

DATE RECEIVED	FACILITY NAME	COUNTY NO.	PROGRAM AREA CODE	FACILITY TYPE CODE	SUBJECT AREA CODE
3 9/29/89	4 City of Fairfield	5 51	6 CP	7 C01	8 305

RULE REFERENCE	DESIGN STANDARD REFERENCE	DECISION	APPEAL ACTION
9 64.2 (9)	10 12.5.1	11 Approved 10/10/89	12

ENGINEER	VARIANCE RULE
13 French-Reneker-Associates, Inc.	14 64.2 (9)

15. DESCRIPTION OF VARIANCE REQUESTED: The Parsons Addition  
 was annexed by the City of Fairfield on July 1, 1989.  
 This <sup>previously</sup> unincorporated area is presently served by  
 individual sewage disposal systems with discharges to  
 local road ditches. Such discharges have resulted in  
 complaints to the local health department and created  
 interest in a community sewer system. Therefore, the  
 City of Fairfield has submitted plans & specifications for  
 sanitary sewers to serve this area. The project calls  
 for 4,174 feet of 8-inch diameter pipe and 1,281 feet  
 of 6-inch diameter pipe. Since our design standards  
 require a minimum pipe diameter of 8-inches for sewerage  
 communities, a request for a variance has been submitted.

#### 6. ENGINEERS JUSTIFICATION:

1. There are existing sewers surrounding the Parson's Addition, and therefore, very little likelihood of any extension of this system.
2. Further justification for the smaller diameter sewers is provided by the extent of this project which includes installation of new service lines to each residence to be served. The old septic tanks and service lines will be bypassed, eliminating the potential of I/I from those sources.
3. The Parson's Addition until July 1st was an unincorporated part of Jefferson County even though the properties on three sides have been included within the Fairfield corporation for many years.
4. This previously unsewered community which is surrounded by an existing collection system of the City of Fairfield is an appropriate use of the 6-inch sewers allowed if variance is granted.

#### 17. DEPARTMENTS JUSTIFICATION:

We concur with the engineer's proposal to use 6" diameter sewer for portions of the sanitary sewer system to serve the Parson's Addition based upon the above justification and the following additional considerations:

1. The Parson's Addition has been developed with housing but without a sanitary sewer system, and, therefore, could be argued to be an unsewered community.
2. If a separate wastewater treatment facility was constructed to serve the Parson's Addition in lieu of connection to the City of Fairfield sewer system we would consider this to be an unsewered community and the design standards would permit the use of 6-inch sewers.
3. The portions of 6-inch sewers proposed are in accordance with the requirements of our design standards for unsewered communities as pertains to maximum length, minimum slope, and hydraulic capacity.

#### 18. PRECEDENTS USED:

City of University Park - Approved 8/24/88  
City of Pleasantville - Approved 5/26/89

19. STAFF REVIEWER:

Fred Evans 10/3/89

20. SUPERVISOR:

By [Signature] 10/4/89

21. AUTHORIZED BY:

David H. Allotter 10/10/89

STATE OF IOWA  
DEPARTMENT OF NATURAL RESOURCES  
HENRY A. WALLACE BUILDING  
DES MOINES, IOWA 50319

CONSTRUCTION PERMIT

City of Fairfield  
City Hall  
Fairfield, Iowa 52556

PERMIT NO.: 90-5-S

FILE: Fairfield - Sewage

RE: Parsons Addition

PROJECT NO: S89-285

In accordance with the provisions of Section 455B.173.9 and 455B.174.4, Code of Iowa, and Rule 567--64.2(455B) or Rule 567--65.5(455B), or Rule 567--41.12(455B) of the Iowa Administrative Code, the Director of the Department of Natural Resources does hereby issue a permit for the construction of:

4,174 feet of 8-inch and 1,281 feet of 6-inch sanitary sewer and appurtenances, Parsons Addition, city of Fairfield, Iowa.

The requested variance from our design standards to permit the use of 6-inch diameter sewer pipe has been approved by this department.

The construction of the project shall be initiated within one year of issuance of this permit or this permit is no longer valid. Within thirty days after completion of construction, the permit holder shall submit a certification by a registered professional engineer that the project was completed in accordance with the approved project documents.

Pursuant to Section 455B.174.4, Code of Iowa, you have the right to appeal any condition of this permit by filing with the Director of the Department of Natural Resources a notice of appeal and request for administrative hearing within thirty days of receipt of this permit.

Contact Fred M. Evans at 515/281-8995 with any questions or comments.

For the Department of Natural Resources

Larry J. Wilson, Director

By:   
ENVIRONMENTAL PROTECTION DIVISION

Date: October 10, 1989

cc: French-Reneker Assoc., Inc., Fairfield, IA  
Field Office 6

FME:pla/FAIR

Plan Distribution

1 Engineer; 1 DNR File

# FRENCH - RENEKER - ASSOCIATES, Inc.

Donald E. French, (1921-1982)

1501 S. MAIN STREET

PO BOX 135

FAIRFIELD, IOWA 52558

515-472-5145

CONSULTING ENGINEERS

Kenneth D. Bucklin, PE-LS

W. Daniel Reneker, PE

David H. Fredericks, PE

James I. Warner, PE

Jerry W. Long, PE

September 28, 1989

Mr. Fred Evans  
Iowa Dept. of Natural Resources  
900 East Grand  
Des Moines, IA 50319

Re: Fairfield, Iowa, Parsons Addition Sewer (89-36)  
Request for Construction Permit Including Variance  
for 6 Inch Sewer

Dear Fred:

There has apparently been quite a lot of confusion created by this project. It appears that we should not have submitted it as a joint water and wastewater project, so with this letter we are making a complete resubmittal and request for variance for the use of 6 inch sewers. In conversations both you and Wayne Farrand have indicated that no variance is needed for the extended manhole spacings since the City has provided assurance of their capability to clean these sewers. Wayne also indicated that there has been precedence for issuance of a variance for 6 inch sewers in these circumstances.

Attempting to relieve IDNR's concerns about the use of 6 inch sewers in this application, we have enclosed a map showing the extent of the Fairfield sewer system in the vicinity of this proposed project. As you can see, there are existing sewers surrounding this project area and there is very little likelihood of any extension to this system. Further justification for the smaller diameter sewers is provided by the extent of this project which includes installation of new service lines to each residence to be served. The old septic tanks and service lines will be bypassed, eliminating the potential of i/i from those sources.

The Parsons Addition until July 1st was an unincorporated part of Jefferson County even though the properties on three sides have been included within the Fairfield corporation for many years. Some of the individual residents had acquired Fairfield rural water service but private wells served most of the residents and individual sewage disposal systems discharged to the local road ditches. The deteriorating conditions and complaints to the

local health department created interest in a community sewer and water system. The Jefferson County Board of Supervisors could have developed a community sewer system for this previously unsewered community. The only logical and feasible solution for treatment was to transport the wastewater to the Fairfield system and both the Board of Supervisors and the City realized the awkwardness and shortcomings of a contractual treatment agreement. They pursued and have accomplished annexation of the majority of these properties voluntarily into the City of Fairfield.

In summary, we believe that this previously unsewered community which is surrounded by the existing collection system of the City of Fairfield is an appropriate use of the 6 inch sewers allowed if a variance is granted. We formally request that variance on the City's behalf.

If you have any questions, please contact me immediately. The Contractor anticipates starting work in approximately 10 days on this project. We have told him to proceed with materials acquisition as the project is shown in anticipation the variance will be granted.

Very truly yours,

FRENCH-RENEKER-ASSOC., INC.

  
James I. Warner, P.E.

JIW/eb  
Enclosures  
cc: John Brown



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
LARRY J. WILSON, DIRECTOR

February 7, 1991

Erdman Engineering, P.C.  
708 Commerce Drive  
P.O. Box 246  
Decorah, IA 52101

ATTENTION: Lindsay Erdman, P.E.

SUBJECT: Variance Request  
Wastewater Collection and Treatment  
Fort Atkinson, Iowa

Gentlemen:

The Iowa Department of Natural Resources, in accordance with subrule 567--64.2(9) of the Iowa Administrative Code, has denied the request for a variance from Iowa Wastewater Facilities Design Standards sections 12.3.1.1 and 14.4.5.3. These sections of the standards require that the hydraulic design of sanitary sewers and wastewater treatment facilities to serve new collection systems be based on a minimum flow value of 100 gpcd for the design average flow.

The engineering justification submitted does not substantially demonstrate that the requested variance from our minimum per capita flow allowance would provide for equivalent or improved effectiveness. Our own analysis of recently constructed municipal collection systems does not justify altering our position on requiring a minimum flow value of 100 gpcd. Flows from such systems are commonly as great as 100 gpcd and often are actually as much as two times that figure as a result of excessive infiltration/inflow gaining access into the collection sewers and service lines.

If you have any questions, please feel free to contact Fred M. Evans at 515/281-8995.

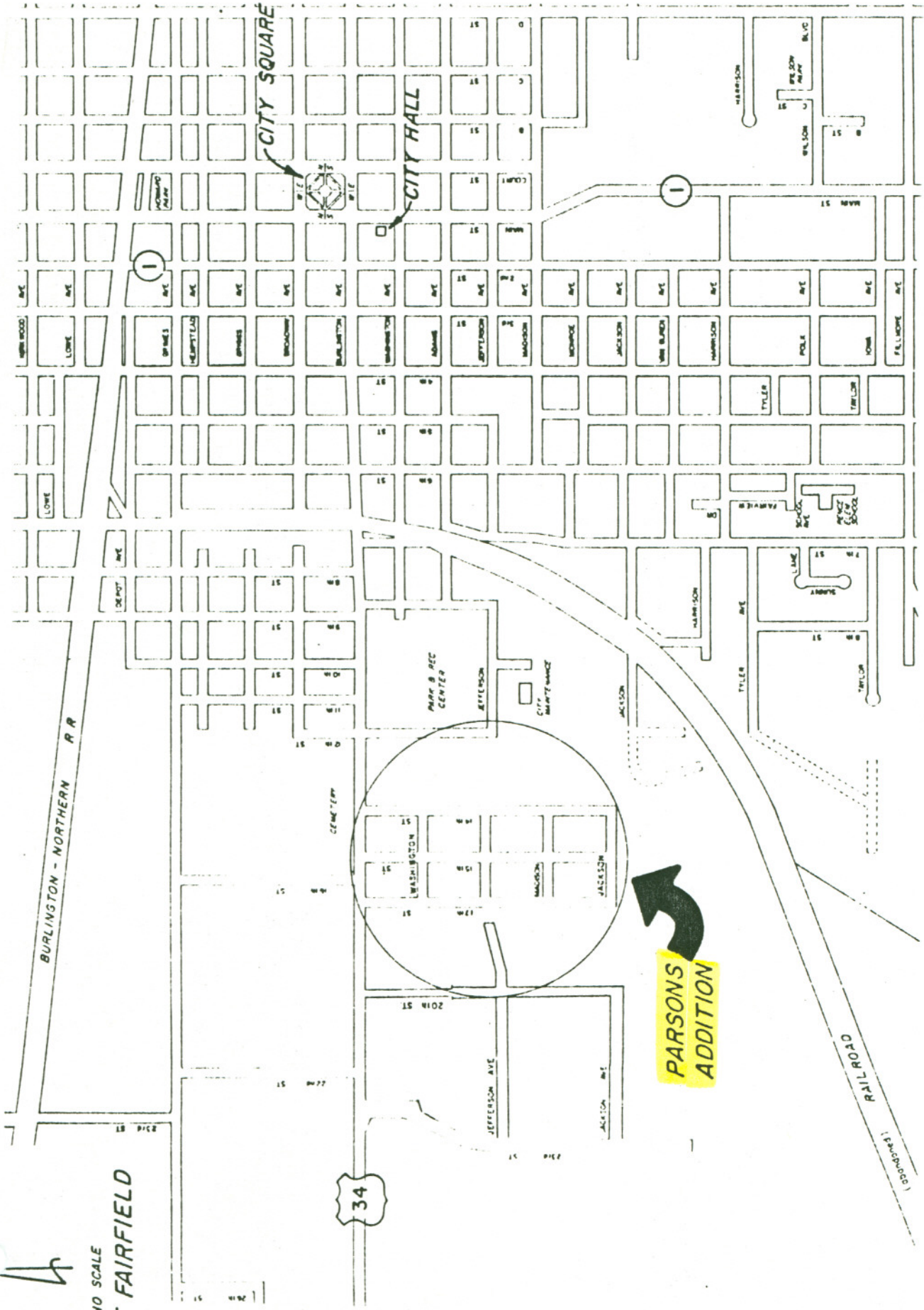
Sincerely,

DARRELL MCALLISTER  
BUREAU CHIEF  
SURFACE AND GROUNDWATER PROTECTION BUREAU

bkp/S&GWW037P01.02

cc: Field Office 1

NO SCALE  
CITY OF FAIRFIELD



LOCATION MAP

The map displays a grid of streets and a proposed project area. The project area, labeled 'PARSONS ADDITION PROJECT AREA', is a large yellow-shaded region. It is bounded by 14th St. to the north, 12th St. to the south, and 15th St. to the east. The area includes several streets and blocks, with some blocks numbered 14-1 through 14-26. The map also shows the 'Existing SEWERS SURROUNDING PARSONS ADDITION' and the 'CITY SHED'. The map is numbered 14, 12, and 15 in large black digits.

