

1930 Constant Avenue
Lawrence, KS 66047-3724
October 3, 2007

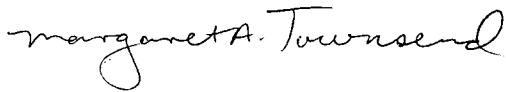
Bruce Remsberg, P. E.
Project Manager
Professional Engineering Consultants, P.A.
902 S. Broadway
Pittsburg, KS 66762

Dear Mr. Remsberg:

I was asked to comment on the sewer line rehabilitation plans for the City of Columbus. Based on the information provided to me, the scope of work sounds reasonable and needed. The soils in the area are loams and silt loams. The type of project you are proposing addresses the potential issue of leaching from leaking sewer lines. I would recommend that the project moves forward.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Margaret A. Townsend
Hydrogeologist
Geohydrology Section

City of Columbus Sanitary Sewer Improvements
Kansas Water Pollution Control Revolving Loan Fund

_____ US Department of the Interior, Fish & Wildlife Service, Kansas State Office
_____ US Army Corps of Engineers, Kansas State Regulatory Office
_____ Kansas Dept. of Wildlife and Parks, Environmental Services Section
_____ Kansas Water Office
_____ Kansas State Historical Society, State Historical Preservation Office
_____ U.S. Department of Agriculture, Natural Resources Conservation Services
_____ Kansas Department of Agriculture, Division of Water Resources
_____ State Conservation Commission
_____ Kansas Biological Survey
_____ Kansas Corporation Commission, Conservation Division
_____ Kansas Geological Survey

Agency Review Comments: (To be completed by reviewing agency and returned to applicant contact person at name and address shown below.)

Comments: _____

Recommended Action: (To be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

☒ Clearance of project should be granted
☐ Clearance of project should not be granted
☐ Clearance of project should be delayed until the issues or questions have been clarified
☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above.

Margaret Townsend KGS 10-3-07
Reviewer's Name Division/Agency/Commission Date

Applicant: The City of Columbus, Kansas

Contact Person: Bruce Remsberg, P.E.

Address: Professional Engineering Consultants, P.A., 902 S. Broadway

City, State: Pittsburg, Kansas 66762 Phone: 620-235-0195



Professional Engineering Consultants, P.A.

September 12, 2007

Dr. William Harrison, KS Geological Survey
KU – 1930 Constant Avenue
Campus West
Lawrence, KS 66047

Re: City of Columbus, Kansas; Sanitary Sewer System Improvements
Kansas Water Pollution Control Revolving Loan Fund
PEC Project No. 334-06E23-5052

Dear Dr. Harrison:

The City of Columbus, Kansas is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Water Pollution Control Revolving Loan Fund for a project to rehabilitate a portion of the sanitary sewer system of the City. The project is located East of US-69 between Maple Street and Buckeye Street, in the City of Columbus, (Section 18, T33S, R24E), Cherokee County, Kansas.

The purpose of the project is to reduce sanitary sewer overflows and backups in this portion of the City. Existing lines and manholes are in poor condition and allow excessive amounts of stormwater to enter the sanitary sewer system. The sanitary sewer system cannot convey this excessive water, and discharges of untreated sewage throughout the area result. Existing manholes will be sealed or replaced. Lines will be relined or replaced by trenchless technology. A new outfall line will be constructed. The following information is attached for your reference:

- A section of the USGS Map showing the service area.
- A map of the area showing the proposed improvements.
- A listing of proposed manhole repairs

We would appreciate your review and any comments you may have within 30 days (by October 8, 2007). A project review form is enclosed for your use. All responses may be sent to Evan Capron, City of Columbus, Post Office Box 308, 300 E. Maple, Columbus, KS 66725.

Should you have questions or if additional information is required please do not hesitate to contact me at (620) 235-0195.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.


Bruce D. Remsberg, P.E.

Project Manager

Cc: Mr. Evan Capron

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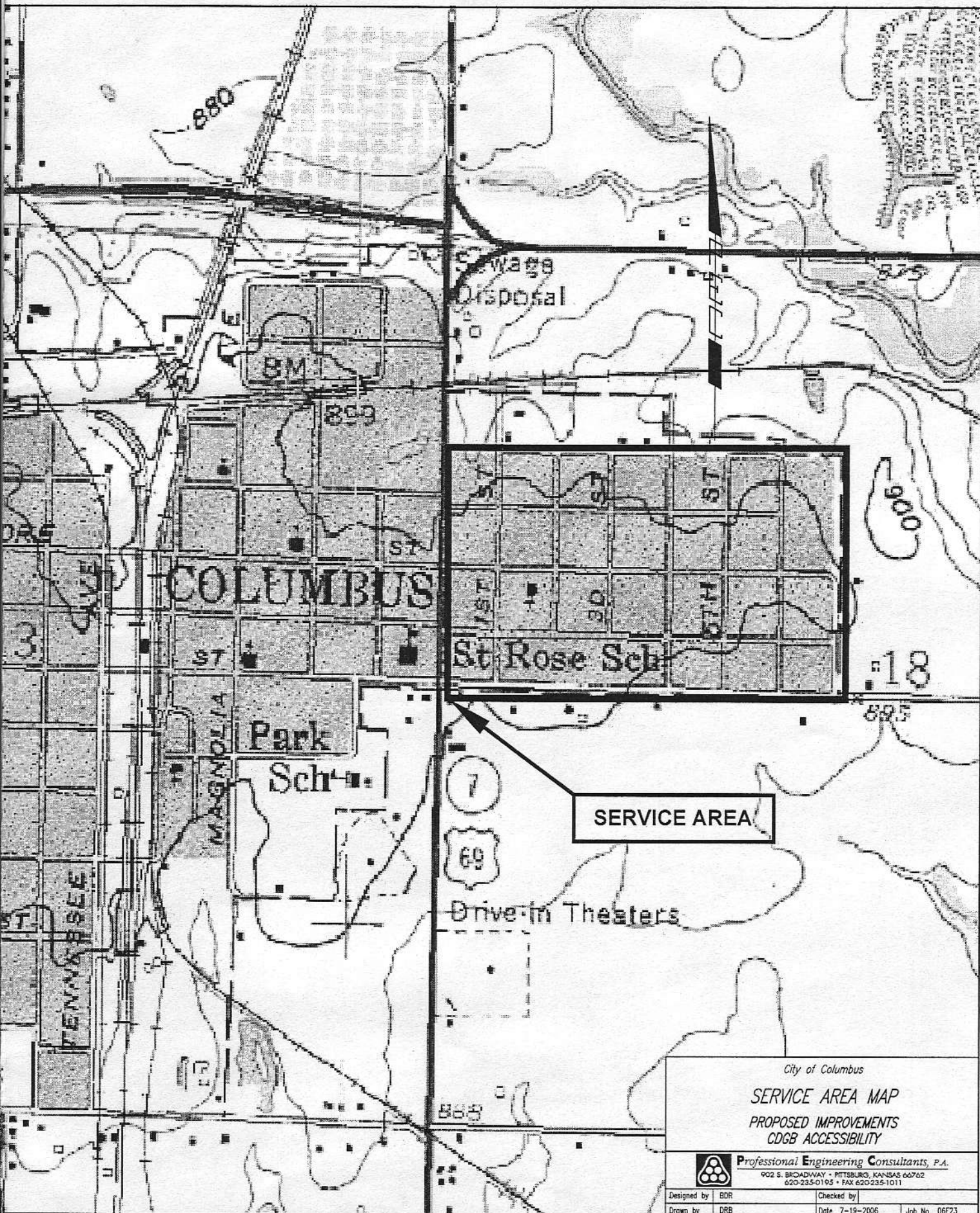
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www.pec1.com

WICHITA
TOPEKA
TULSA
LAWRENCE
PITTSBURG

Recommended Manhole/Cleanout Repair

Manhole#	Recommended Repair	Manhole Location
1	Grout Manhole, Replace Ring and Lid, Raise Ring and Lid 5"	Btwn Buckeye and Oak on 1st
2	Grout Manhole	Btwn Buckeye and Oak on 2nd
3	Replace existing cleanout with manhole	Btwn Buckeye and Oak on 3rd
4	Grout Manhole, Replace Ring and Lid	Btwn Buckeye and Oak on 4th
5	Grout Manhole, Replace Ring and Lid	Btwn Oak and Sycamore on 4th
6	Grout Manhole, Raise ring and lid, Replace Ring and Lid, Repair East Drop	Btwn Sycamore and Walnut on 4th
7	Grout Manhole, Replace Ring and Lid, Raise Ring and Lid	Btwn Walnut and Maple on 4th
8	Grout Manhole, Replace Ring and Lid, Raise Ring and Lid	Btwn Buckeye and Oak on 5th
9	Remove old manhole with flush tank and construct new manhole.	Btwn Buckeye and Oak of 6th
10	Grout Manhole, Raise 1.5", Replace Ring and Lid	Btwn Oak and Sycamore on 5th
11	Replace Cleanout with New Manhole	Btwn Oak and Sycamore on 6th
12	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Sycamore and Walnut on 5th
13	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Sycamore and Walnut on 6th
14	Remove old manhole with flush tank and construct new manhole.	In Park Btwn Sycamore and Oak west of 7th
15	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Walnut and Maple on 5th
16	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Walnut and Maple on 7th

Manhole#	Recommended Repair	Manhole Location
17	Remove old manhole with flush tank and construct new manhole.	Btwn Walnut and Maple West of 7th
18	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Oak and Sycamore on 3rd
19	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Oak and Sycamore on 2nd
20	Remove old manhole with flush tank and construct new manhole.	Btwn Oak and Sycamore, East of 1st
21	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Sycamore and Walnut on 3rd
22	Grout Mahole, Raise Ring and Lid, Replace Ring and Lid	Btwn Sycamore and Walnut on 2nd
23	Remove old manhole with flush tank and construct new manhole.	Btwn Sycamore and Walnut East of 1st
24	New Manhole	Btwn Walnut and Maple East of 3rd
24 A	Remove cleanout	Btwn Walnut and Maple West of 7th
25	Remove old manhole with flush tank and construct new manhole.	Btwn Walnut and Maple West of 3rd
26	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Walnut and Maple on 1st
27	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn Buckeye and Oak on 1st
29	Grout Manhole, Raise Ring and Lid, Replace Ring and Lid	Btwn 7 Hwy and 1st on Sycamore
30	Grout Manhole, Replace Ring and Lid, Raise Ring and Lid	Btwn 7 Hwy and 1st on Oak
31	Grout Mahole, Raise Ring and Lid, Replace Ring and Lid	Oak and 7 Hwy
32	Replace Manhole	Oak and 7 Hwy
33	Rebuild Top 2 feet of Manhole and Grout	North of Oak St on 7 Hwy



City of Columbus

SERVICE AREA MAP

PROPOSED IMPROVEMENTS
CDGB ACCESSIBILITY



Professional Engineering Consultants, P.A.

902 S. BROADWAY • PITTSBURG, KANSAS 66702
620-235-0195 • FAX 620-235-1011

Designed by BDR

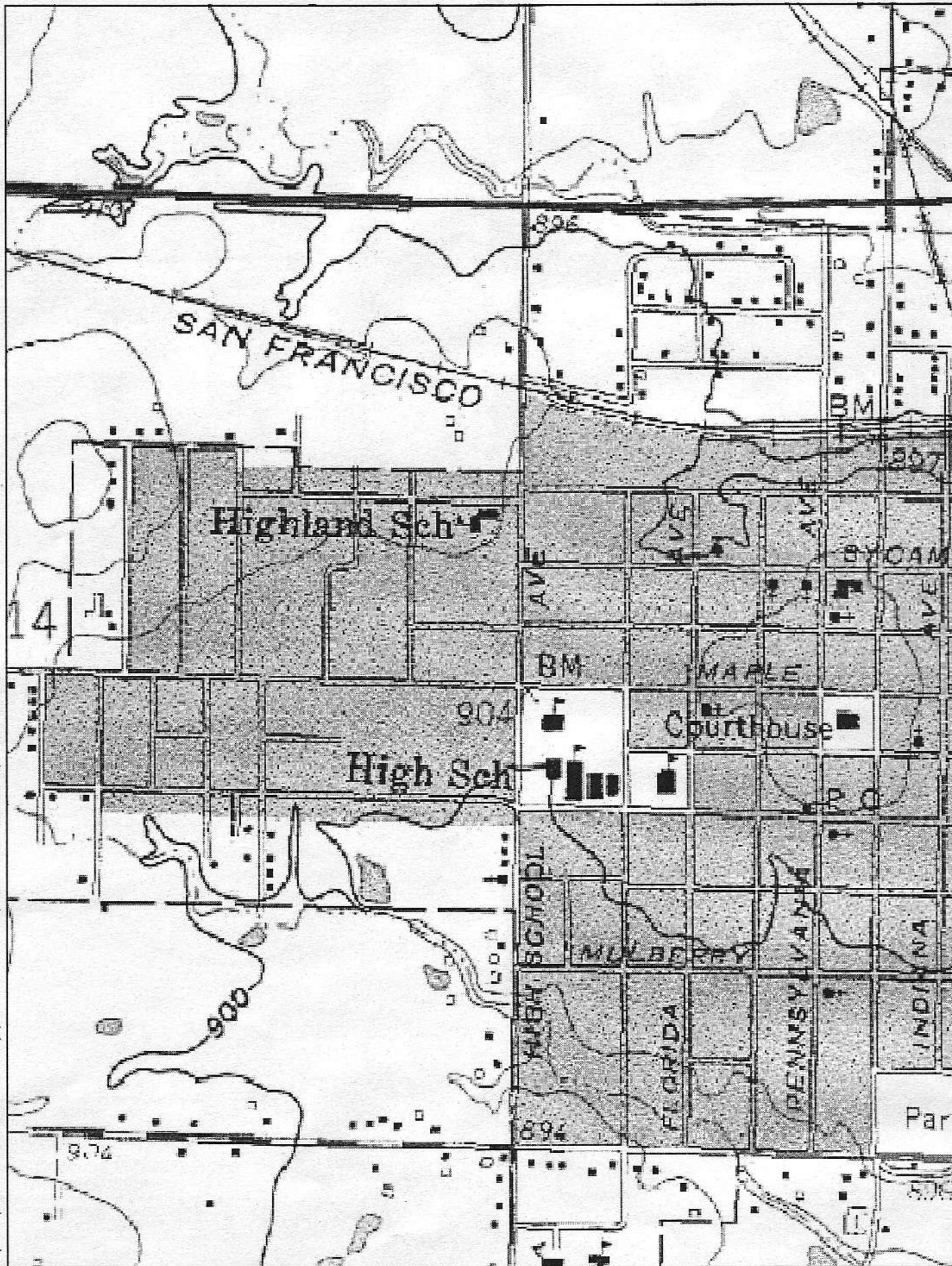
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Drawn by DRB

Date 7-19-2006

Job No. 06E23

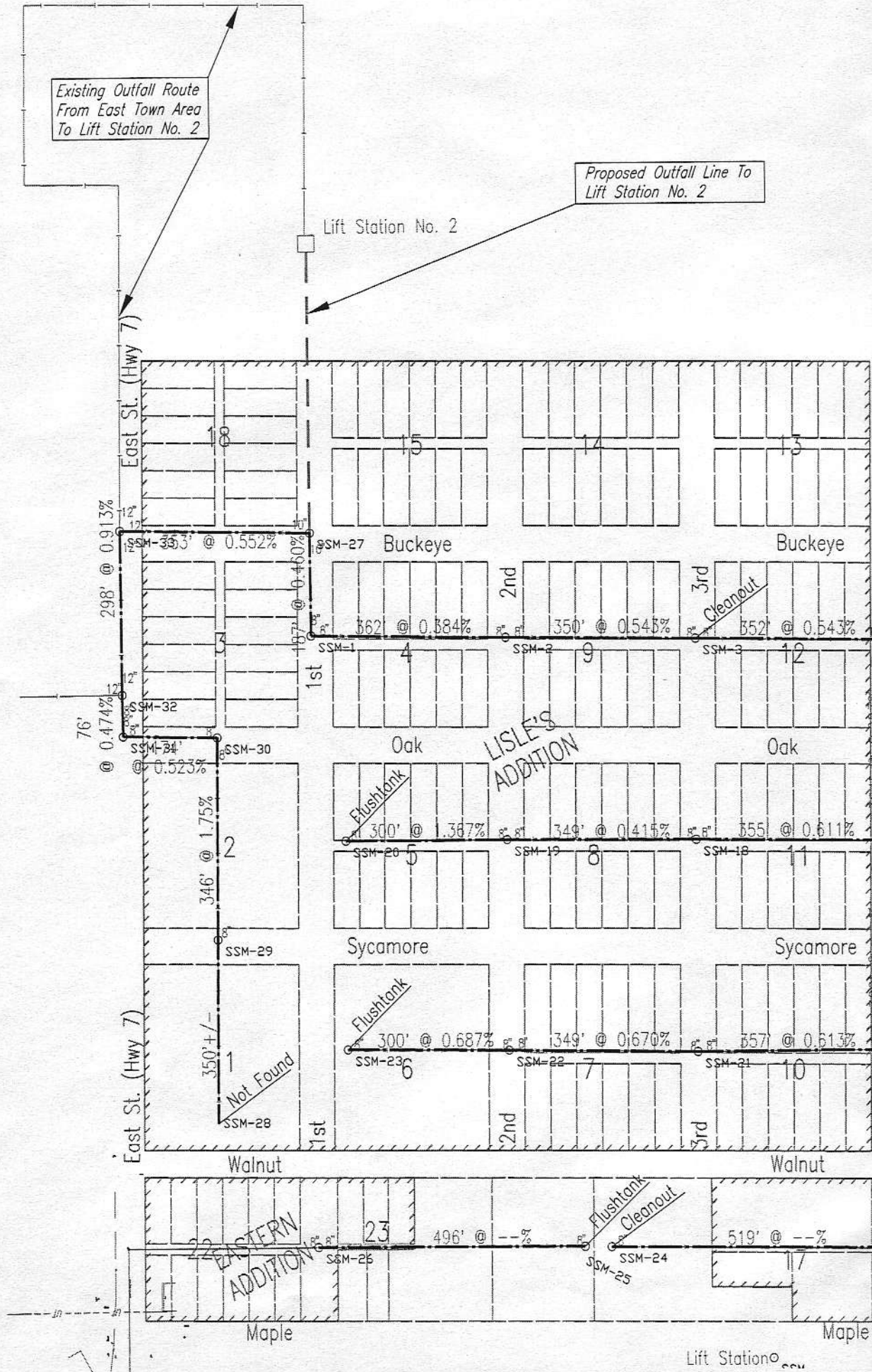
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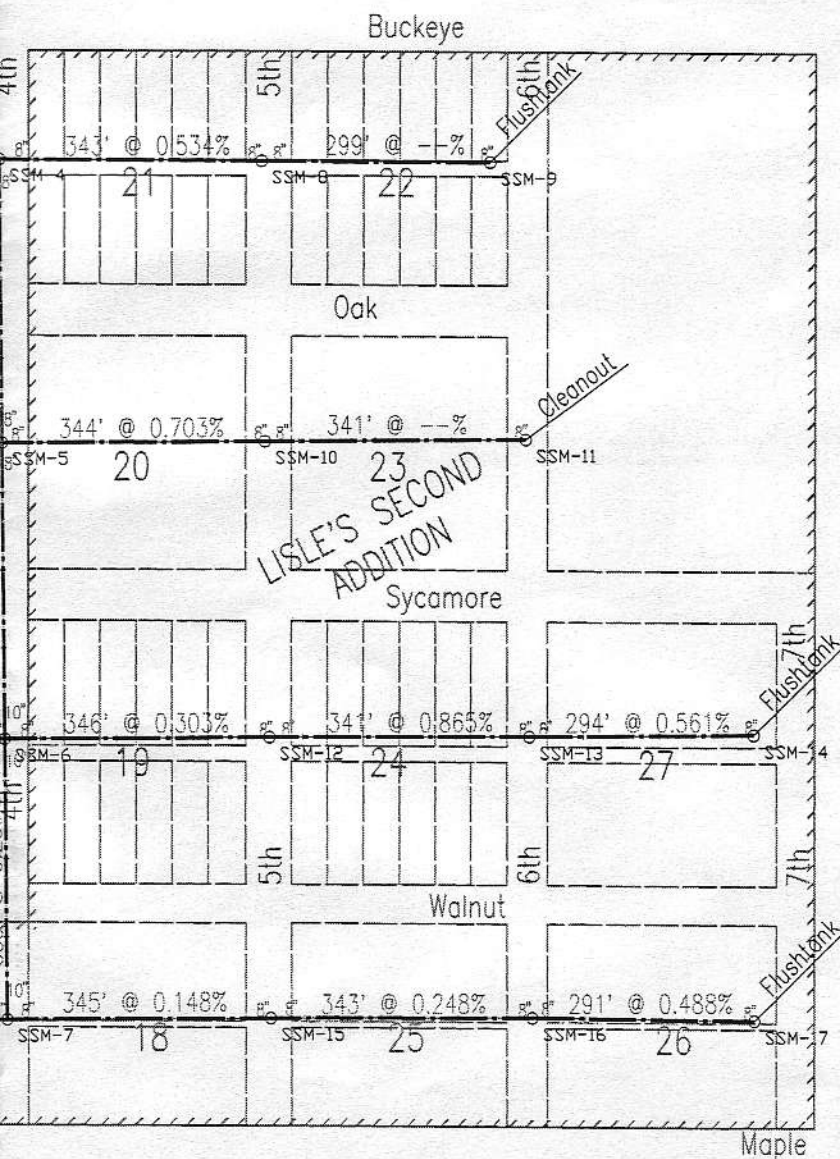


Existing Outfall Route
From East Town Area
To Lift Station No. 2

Proposed Outfall Line To
Lift Station No. 2

Lift Station No. 2





LEGEND

--- Proposed Pipe Replacement

City of Columbus

MAP NO. 2

EAST TOWN AREA
SANITARY SEWER IMPROVEMENTS



Professional Engineering Consultants, P.A.
902 S. BROADWAY • PITTSBURG, KANSAS 66762
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Designed by BDR
Drawn by DRB

Checked by
Date 8-10-2006

Job No. 06E23