

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
Phone: 785-864-3965
Fax: 785-864-5317

David Cox, Utilities Engineering Manager
City of Olathe
P. O. Box 768
Olathe, KS 66051-0768

July 28, 2005

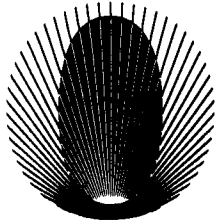
Dear Mr. Cox

I am writing to you concerning the city of Olathe sewage treatment plant upgrades. Based on the information provided to me all of the proposed work appears adequate to address the current facility problems. The site appears to be located on the flood plain. As long as potential leakage and overflow issues are addressed that are suitable to the soils and geology of the area the project should be satisfactory.

The evaluation of this project is based only on the information provided to me with the request and that available at my office.

Sincerely,

Margaret A. Townsend
Hydrogeologist



City of Olathe

July 14, 2005

**Dr. Lee Allison
Kansas Geological Survey
KU-1930 Constant Avenue-Campus West
Lawrence, KS 66047**

Re: City of Olathe, Kansas
Kansas Water Pollution Control Revolving Loan Fund
City of Olathe Project No. 12404c
Cedar Creek Wastewater Treatment Plant Effluent Pump Station

To Whom It May Concern:

The City of Olathe, 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 the above referenced project.

The project includes the following:

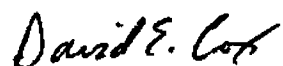
- This project will construct a new 25 million gallon per day effluent pump station. Presently the plant's effluent is discharged by gravity to Cedar Creek. However, during high stream flow conditions the plant cannot discharge by gravity. This project will allow the facility to pump the treated plant effluent along with any extraneous flow basin discharges to Cedar Creek during periods of high stream flow conditions.
- It is the City's intent to have the recommended expansion alternatives completed by spring 2006. The engineering and construction costs for the improvements are estimated to be \$2,000,000. Part of the construction project is being funded with a Grant from FEMA.
- All improvements associated with the new pump station will be located on existing City of Olathe property and within the perimeter of the earthen berm that will protect the structure from flood events. The plant and construction project is located at 36169 West 119th Street; NW ¼, Section 20, Township 13S, Range 23E, at latitude 38° 54'40" and longitude 94° 54'40", Johnson County, Kansas.

Site plans reflecting the proposed construction are attached. An environmental investigation was previously completed prior to the construction of the earthen berm, and there were no environmental issues noted at that time.

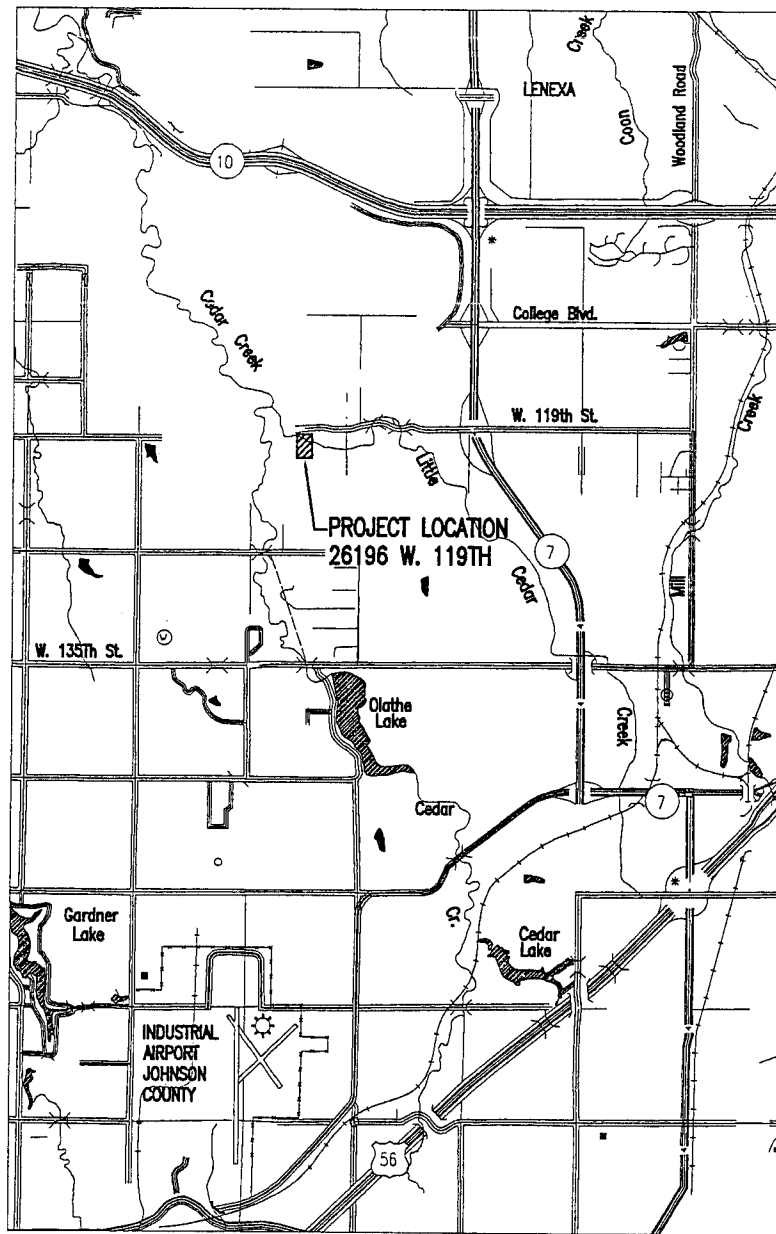
We would appreciate your review of the project description and location, and any comments you may have, within 30 days from the date of this letter.

Please contact David Cox at (913) 971-9056 or via email at dcox@olatheks.org should you have any questions.

Sincerely,

A handwritten signature in black ink that reads "David E. Cox". The signature is written in a cursive style with a large, stylized 'D' and 'C'.

David E. Cox, P.E.
Utilities Engineering Manager
City of Olathe

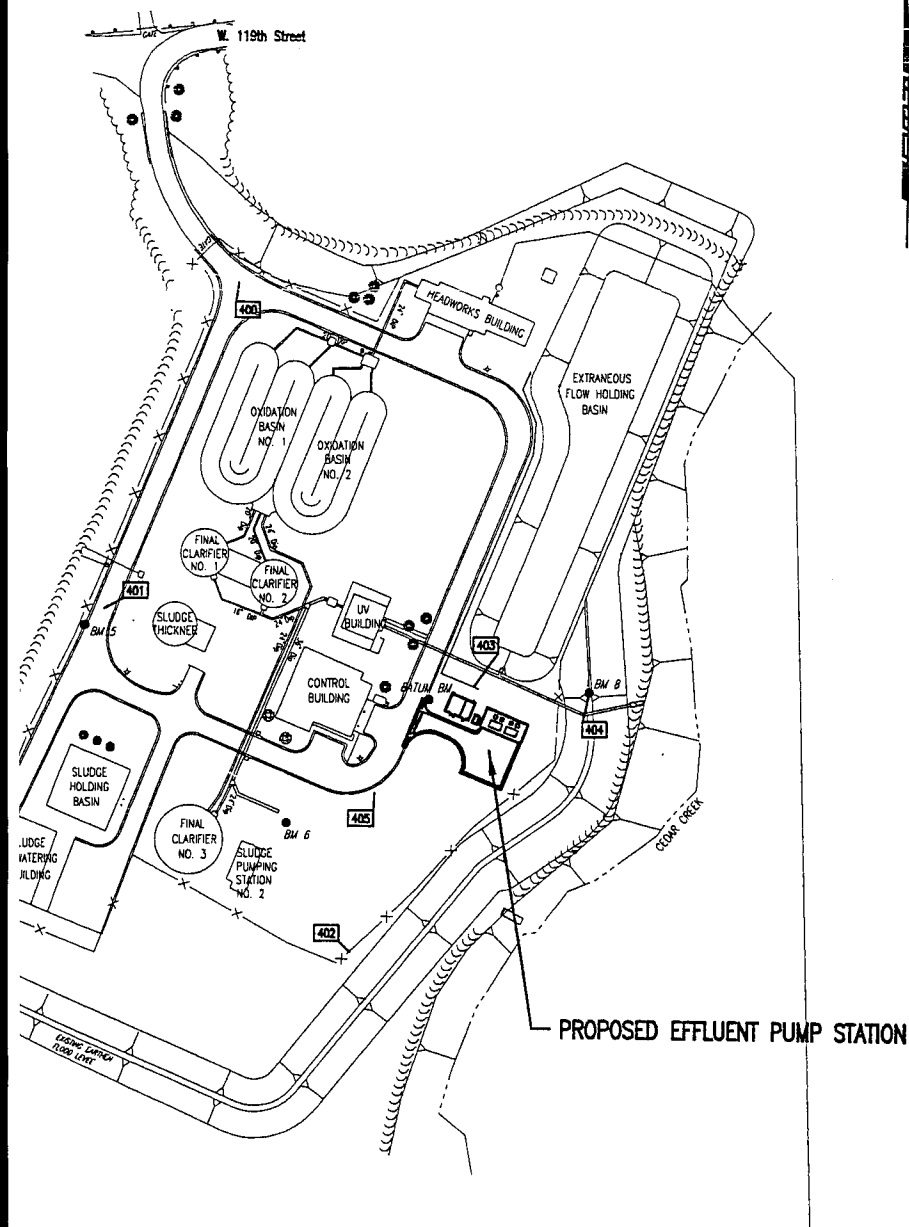


VICINITY MAP

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON OLATHE CEDAR CREEK STP PLANT DATUM.
2. UTILITY LOCATE SERVICE IS NOT AVAILABLE AT THIS SITE.
3. THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. WHERE THE IMPROVEMENTS CROSS EXISTING PUBLIC OR PRIVATE UTILITIES WHICH ARE NOT TO BE ADJUSTED BY OTHERS, THE CONTRACTOR SHALL PROVIDE THE MATERIAL AND MEANS TO PROTECT AND SUPPORT SAID UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
5. THE CONTRACTOR SHALL ALSO CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.

CITY OF OLATHE
WASTEWATER SUPERINTENDENT
1385 S. ROBINSON DRIVE
OLATHE, KS 66051-0768
(913) 971-9041
MR. JOE FOSTER
6. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
7. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TO ENSURE SAFETY AS DIRECTED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
8. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN ACCORDANCE WITH THE SPECIFICATIONS FOR SUCH WORK. ALL COSTS FOR SEEDING AND FERTILIZING SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM BID FOR PROJECT CONSTRUCTION.
9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES) ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE PLANS. THE REPLACEMENT OF ALL THE FOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM BID FOR PROJECT CONSTRUCTION.



KEY MAP

10. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
11. ALL TRENCH BACKFILL SHALL BE EITHER TYPE I OR TYPE III UNLESS NOTED OTHERWISE. ALL TRENCH BACKFILL THAT CROSSES PROPOSED PAVEMENT SHALL BE TYPE I BACKFILL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF EFFLUENT DISCHARGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING FLOW SHALL BE APPROVED BY THE ENGINEER. COST OF MAINTAINING FLOW OF EFFLUENT THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE LUMP SUM BID FOR PROJECT CONSTRUCTION.
13. MATERIAL FROM THE REMOVAL OF MISCELLANEOUS ITEMS, IF ANY, SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
14. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.
15. THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING PROCESS SYSTEM DURING CONSTRUCTION.

HORIZONTAL CONTROL POINTS

POINT NO. 400
N=4,000.0000, E=4,000.0000
SET MAG NAIL AT @ INTERSECTION OF WEST
AND NORTH PLANT PERIMETER ROADS

POINT NO. 401
N=3,635.4850, E=4,000.0000
SET MAG NAIL @ WEST ROAD,
NORTH OF @ SOUTH ROAD
13.5' SE TO EAST BACK OF CURB PC.
46.70' NE TO SW CORNER CONCRETE PAD ELECTRIC
TRANSFORMER

POINT NO. 402
N=3,408.3976, E=4,373.8933
SET #4 BAR NEAR SE CORNER FENCE STP AREA
15' NORTH SE CORNER CHAIN LINK FENCE
5' WEST SE CORNER CHAIN LINK FENCE

POINT NO. 403
N=3,709.9556, E=4,386.3156
SET #4 BAR AT EAST END OF CONCRETE RETAINING WALL
LOCATED 97' NORTH AND 97' EAST OF SE CORNER OF
CONTROL BUILDING.
1.00' W OF EAST END RETAINING WALL
33.26' NE TO SE CORNER OF BASIN OUTFALL STRUCTURE

POINT NO. 404
N=3,749.8903, E=4,500.7501
SET #4 BAR AT SOUTH END CONCRETE RETAINING WALL ON
TOP OF FLOOD PROTECTION DIKE, WEST SIDE OF CEDAR
CREEK

POINT NO. 405
N=3,569.0000, E=4,334.0000
SET #4 BAR ON @ EAST ROAD EXTENDED SOUTH
38.0' NW TO SE CORNER CONCRETE LIGHT BASE
28.3' NE TO CENTER OF STORM DRAIN MANHOLE LID
5.3' NW TO BACK OF CURB

BENCH MARKS

DATUM BM (PLANT DATUM)
FOUND ELEVATION ON TOP OF INLET EAST OF
CONTROL BUILDING ON EAST SIDE OF ROAD.
EL. 846.28

BM-5
SET CHISELED "d" ON TOP OF CURB AT NORTH END
OF WEST CURB AT SW CORNER PERIMETER ROAD.
EL. 848.48

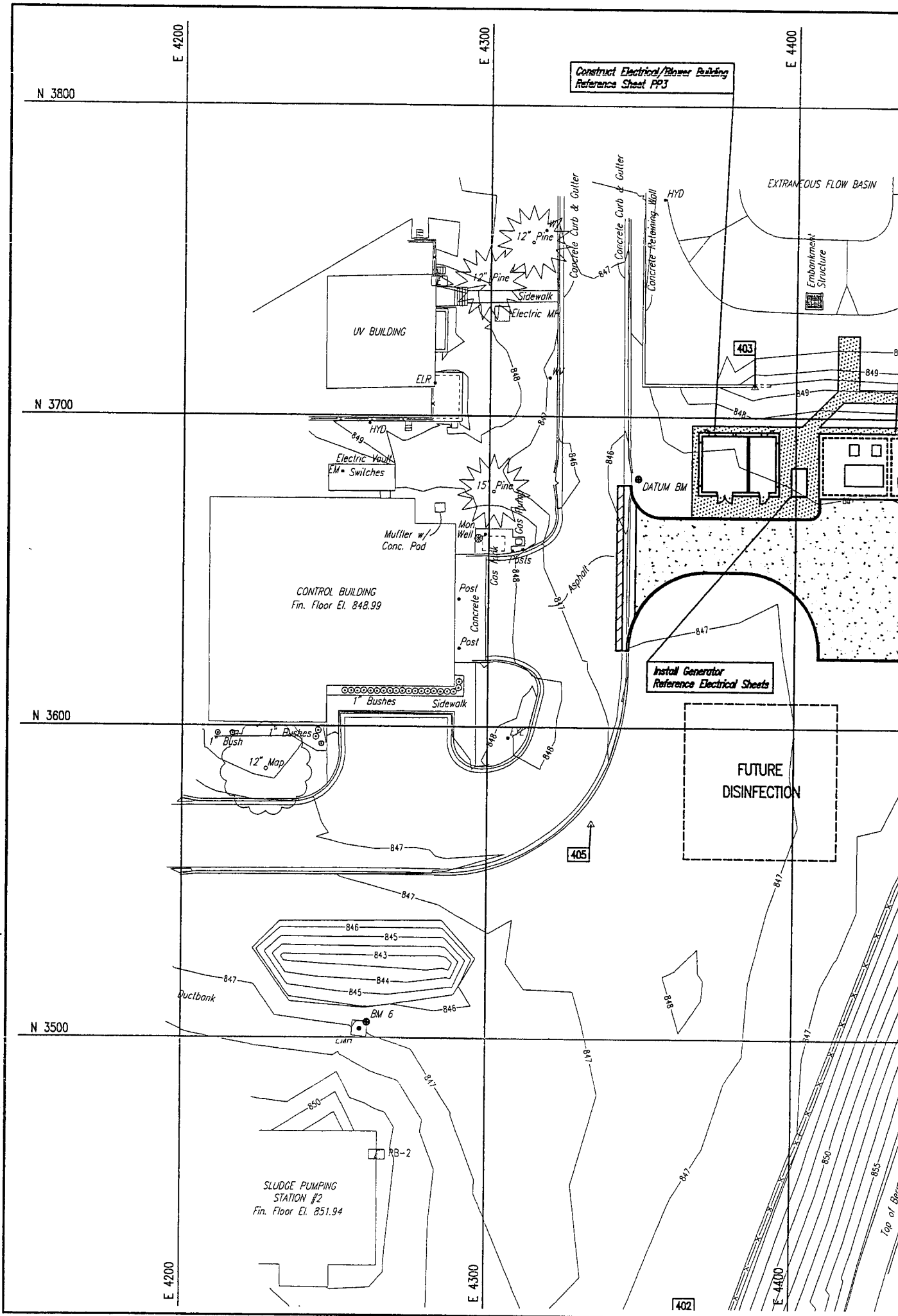
BM-6
SET CHISELED "d" ON NE CORNER OF ELECTRIC
VAULT, LOCATED 108' SOUTH AND 28' WEST OF SE
CORNER OF CONTROL BUILDING.
EL. 847.39

BM-7
SET CHISELED "d" ON TOP SOUTH END OF CONCRETE
RETAINING WALL, 137' NORTH AND 211' EAST OF SE
CORNER OF CONTROL BUILDING.
EL. 856.20



No.	Revision	By	Date
CITY OF OLATHE, KANSAS			
KEY MAP AND GENERAL NOTES			
CEDAR CREEK EFFLUENT PUMP STATION IMPROVEMENTS			
Professional Engineering Consultants, P.A.			
303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	KLR, EAJ	Job No.	34-05025-2-4053
Drawn by	WJB	Date	JULY 2005
			Std. PC1 of X

DSNR: KLR OPER: GLM SCALE: 1"=20.00
Q:\2005\05025\002\05025-2-PC2 SiteImprovement 01-29-2005 03:40:15 pm



Construct Effluent Pump Station
Reference Sheet PP1

E 4500

N 3800

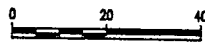
E 4600

Concrete Basin Liner

404

Outfall Structure

SCALE: 1"=20'



N 3700

N 3600

Construct Concrete Pavement
Reference Sheet PCS

Top of Berm

Outfall Structure

N 3500

E 4500

E 4600

LEGEND

-  CONCRETE PAVEMENT
-  CONCRETE SIDEWALK/MOW STRIP
-  ASPHALT PAVEMENT



No.	Revision	By	Date
CITY OF OATHE, KANSAS			
SITE IMPROVEMENT PLAN			
CEDAR CREEK EFFLUENT PUMP STATION IMPROVEMENTS			
Professional Engineering Consultants, P.A.			
303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	KLR, EJW	Job No.	34-05025-2-4053
Drawn by	GM	Date	JULY 2005
			See PC2 of X