# Lincoln-Lancaster County Health Department

ENVIRONMENTAL PUBLIC HEALTH DIVISION

3140 N STREET · LINCOLN, NE 68510-1514

008569

(402) 441-8000

Permit: SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 06380313901

Issued 01/06/06
Expires 01/06/07
Revenue Code 3157

Establishment: RON SKODA SR
T10N R8E SEC 21 QTR SW
SE1/4 OF SW 1/4 LOT 33IT
13940 E O ST

FEES: $275.00

Permittee: RON SKODA SR
4911 EAGLE RIDGE RD
LINCOLN NE 68516

TOTAL: $275.00

Bruce D. Dart

Bruce D. Dart, Health Director

EPH COPY

**Lincoln-Lancaster County Health Department**
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

RECEIVED JAN 06 2006

**A**

Permit Number: 06380313901

# Sewage Disposal System

## Request for Site Clearance and Permit

**Include Form B, Form C and Applicable Fees with this Application.**

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

**PLEASE PRINT OR TYPE**

### A. System Location (Indicate correct number and street)

Address 13940 E. Oste. (no rural route) City Lincoln NE, Zip 68520

Legal Description SE (1/4) SW (1/4) 21 (Section) 10N (Township) 8E (Range) Subdivision Addition 33 (Block) I.T. (Lot)

Geographical Location (if known): Longitude _____ Latitude _____

☐ Check if system mail address is not the same as the owner's address

### B. Owner

Name Ron Skoda Signature Ron Skoda SR.

Address 4911 Eagle Ridge Rd City/State/Zip Lincoln, Ne. 68516

☐ Check if owner designed system Home Phone 402-420-9146 Work Phone 560-0949

### C. Contractor

Name Ron Skoda Company Name Skoda Developement

Address 14030 E. O Ste. City/State/Zip Lincoln, Ne. 68520

☐ Check if contractor designed system Work Phone _____

### D. Engineer/Installer ☒ Check and complete if engineer designed system

Designer Name Jeremy Williams Firm Design Associates Work Phone 402-474-3000

### E. This System Will Serve a

☐ Residential Dwelling Number of Bedrooms _____ Is there a Whirlpool Bathtub YES (NO)

☒ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day 2,315 Type of Wastewater: ☐ Domestic ☒ Non-Domestic.

***DO NOT WRITE BELOW THIS LINE***

## Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** Date rec'd 1/6/06 Date frwd 1/6/06 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Wood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 1-9-06 Date frwd 1-9-06 ACTION ☒ Approved ☐ Disapproved Signature
3. **City or County Engineer** Date rec'd 1-9-06 Date frwd 1-9-06 ACTION ☒ Approved ☐ Disapproved Signature

1/19/06 L.E.H.

## Installation Final Written Approval

By _____

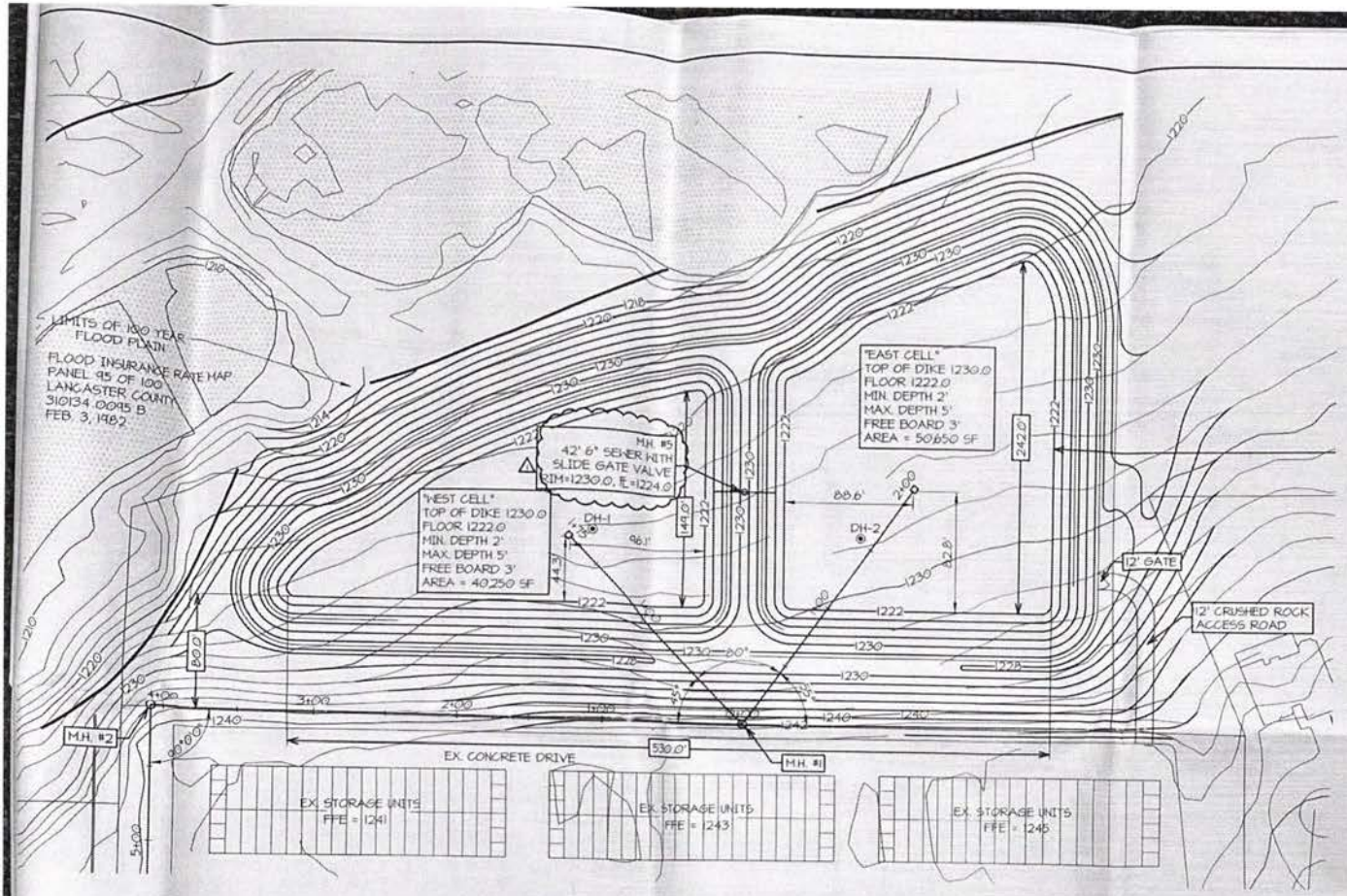
Date 3/19/2007

***Business Office Use Only***

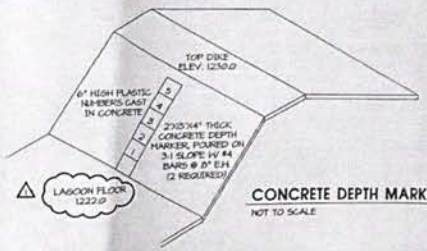
Date Rec'd 01/09/06
Amt Paid 275
Rec'd By _____ Cash/Check No. 2278

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

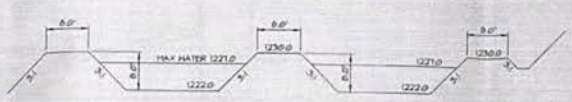
STEVENS CREEK STORAGE
WASTEWATER LAGOON
LINCOLN, NEBRASKA
SITE PLAN
DESIGN ASSOCIATES OF LINCOLN, INC.
Pollution Control Project
05-0149 RA
APPROVED
SITE PLAN
SCALE: 1" = 60'
EAST 'O' STREET
RUN 'A'
RUN 'B'
EXISTING LAGOON
FUTURE LAGOON
EXISTING POND
LOT 33
41.79 AC.
PROPOSED COMMERCIAL 24,000 S.F.
EX. STORAGE UNITS
EX. CONCRETE DRIVE
PROPOSED SETBACK
PUBLIC WATER SUPPLY WELLS
21 NOV 2005
13 DEC 05
1 OF 3



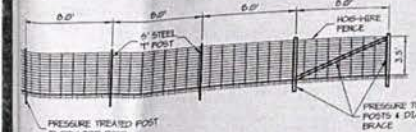

LAGOON DETAIL PLAN
SCALE 1" = 40'

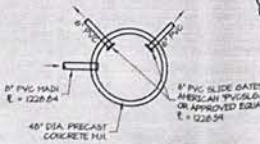



CONCRETE DEPTH MARKER
NOT TO SCALE

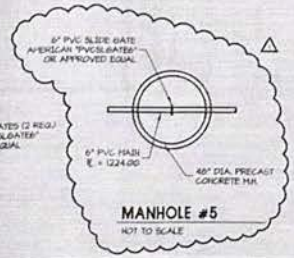



LAGOON CROSS SECTION
NOT TO SCALE

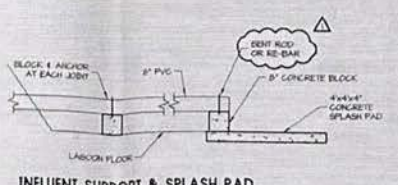



MANHOLE #1
NOT TO SCALE



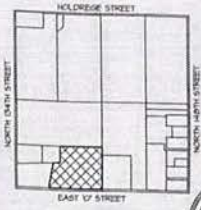

MANHOLE #5
NOT TO SCALE




INFLUENT SUPPORT & SPLASH PAD
NOT TO SCALE

## DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG. CALL 1-800-331-5666 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE TELEVISION, AND CITY UTILITIES.




VICINITY MAP
NOT TO SCALE

## GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL 4" SANITARY SEWER SERVICE STUBS SHALL EXTEND TO THE BUILDING ENVELOPE AND SHALL BE LAID OUT AT A SLOPE OF 0.020 FT/FT. THE STUB LENGTH SHALL BE A MINIMUM 3.0 FEET.

2. THE FOLLOWING STANDARD DRAWINGS APPLY TO THE CONSTRUCTION OF THIS PROJECT:

| | |
|---|---|
| LSP-105 | PIPE BEDDING DETAILS |
| LSP-162 | CAST IRON MANHOLE RING, COVER & STEPS |
| LSP-200 | STANDARD SANITARY SEWER MANHOLES, TYPE 'S' |
| LSP-210 | SANITARY SEWER SERVICE |

3. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, AND BE RESPONSIBLE FOR ANY DAMAGES INCURRED DURING CONSTRUCTION.

4. CONTRACTOR SHALL LEAVE THE SITE CLEAN AND SMOOTH GRADED.

5. ALL TRENCH BACKFILL SHALL BE PLACED PER CITY OF LINCOLN STANDARD SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION, SECTION 20.030.

6. FOR DETAILS OF SANITARY SEWER CONSTRUCTION, SEE CITY OF LINCOLN STANDARD SPECIFICATIONS, CHAPTER 22, LATEST EDITION. ALL STANDARD SPECIFICATIONS, 2004 SUPPLEMENTAL SPECIFICATIONS, AND ADDENDUMS SHALL APPLY.

7. 8" SANITARY SEWER - SDR 26 PVC.

8. 4" & 6" SANITARY SEWER - SCHEDULE 40 PVC.

9. MAIN LINE SHALL BE AIR TESTED IN ACCORDANCE WITH CITY OF LINCOLN STANDARD SPECIFICATIONS, SECTION 22.04 B.2.

10. MAINS SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE WITH CITY OF LINCOLN STANDARD SPECIFICATIONS, SECTION 22.04 B.4.

11. MANHOLES SHALL BE PERFORMANCE TESTED IN ACCORDANCE WITH CITY OF LINCOLN STANDARD SPECIFICATIONS, SECTION 22.04 C.

12. SANITARY SEWERS SHALL BE SEPERATED BY AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER SUPPLY LINES.

13. SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF ANY EXISTING OR PROPOSED WATER SUPPLY LINES.

## LAGOON NOTES

1. CONSTRUCTION OF THE LAGOON AND ITS LINER SHALL FOLLOW RECOMENDATIONS OF THE "REPORT OF GEOTECHNICAL INVESTIGATION FOR LAGOON CONSTRUCTION", PREPARED BY GEOTECHNICAL SERVICES, INC. AND DATED OCTOBER 3, 2005.

2. THE LAGOON SHALL BE ENCLOSED WITH A WOVEN WIRE FENCE (SEE DETAIL) EQUIPPED WITH A 12 FOOT ACCESS GATE. A SIGN SHALL BE POSTED ON THE GATE WITH A WARNING OF "NO TRESPASSING - WASTEWATER LAGOON". ADDITIONAL SIGNS SHALL BE LOCATED ON THE NORTH AND THE SOUTH SIDES OF THE FENCE, FOR A TOTAL OF THREE SIGNS.

3. THE LAGOON BOTTOM SHALL BE AS LEVEL AS POSSIBLE AND SHALL NOT VARY MORE THAN 3 INCHES FROM MAXIMUM TO MINIMUM. EQUIPMENT TRACKS SHALL BE SMOOTHED OFF.

4. FINAL SEEPAGE RATE IS LIMITED TO ¼ INCHES PER DAY. A SOILS LABORATORY SHALL BE RETAINED TO PERFORM TESTING OF THE LINER PERMEABILITY. AT LEAST ON CORE SAMPLE FROM THE FLOOR OF EACH CELL AND ONE FROM THE SIDESLOPE OF EACH CELL SHALL BE LAB TESTED. IN ADDITION, EITHER THE "TWO BARREL TEST" OR THE "COMPARISON TEST" SHALL BE PERFORMED ON EACH CELL. ALL TEST RESULTS SHALL BE SUBMITTED TO THE NDEQ FOR REVIEW.

5. THE INSIDE DIKE SLOPE ABOVE THE MAXIMUM 2' WATER LEVEL, TOP OF DIKE, AND OUTSIDE SLOPE OF DIKE SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH "A SEEDING HANDBOOK OF COUNTY FEDERAL AND SECONDARY ROADS" AS PUBLISHED BY THE NEBRASKA DEPARTMENT OF ROADS. THE FOLLOWING SEED MIXTURE FOR AREA 1 LISTED IN THIS HANDBOOK SHALL BE USED.

SEED MIXTURE FOR AREA 1

| SPECIES | PLS/ACRE |
|---|---|
| REED CANARYGRASS - SOREED OR MISH. ORIGIN | 2 LBS |
| SWITCHGRASS - BLACKWELL OR PATHFINDER | 2 LBS |
| INDIANGRASS - NEBR. 54 OR OTO | 2 LBS |
| LITTLE BLUESTEM - ALDOUS OR BLAZE OR CAMPER | 1 LBS |
| SIDEOATS GRAMA - BUTTE OR TRAILWAY | 2 LBS |
| INTERMEDIATE WHEATGRASS - SLATE | 3 LBS |
| RED CLOVER - 2 X INOCULATION | 2 LBS |

6. THE LAGOON SHALL BE PRE-FILLED TO THE MINIMUM OPERATING DEPTH OF 2' PRIOR TO ANY WASTEWATER DISCHARGE FROM THE FACILITY.

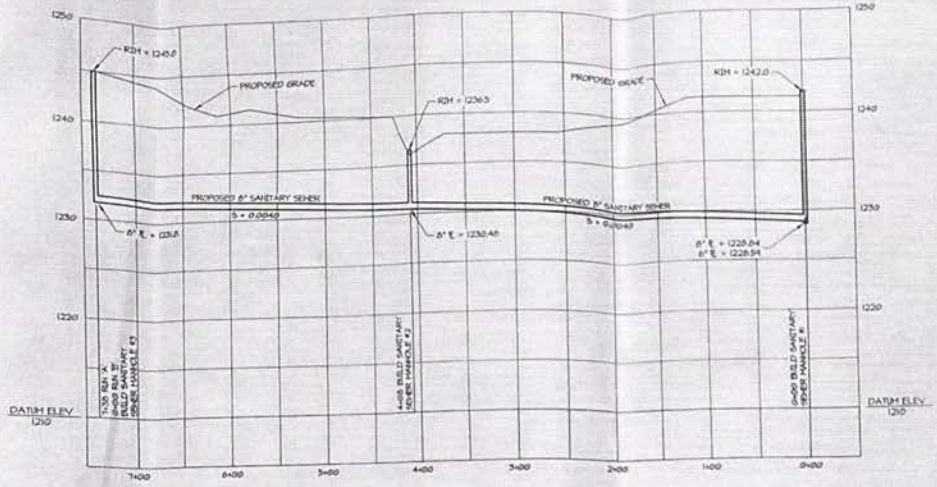
21 NOV 2005
△ 13 DEC 05

JEREMY J. WILLIAMS
E-10629
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEBRASKA
12/14/05

# STEVENS CREEK STORAGE
## WASTEWATER LAGOON
## LINCOLN, NEBRASKA

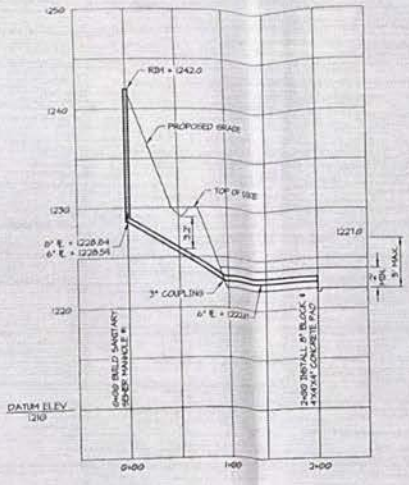
DETAILS


DESIGN ASSOCIATES OF LINCOLN, INC
PERSHING SQUARE BUILDING, SUITE 200
LINCOLN, NEBRASKA 68508
voice: 402/474-3000
fax: 402/474-5343
dassoc@dalincoln.com



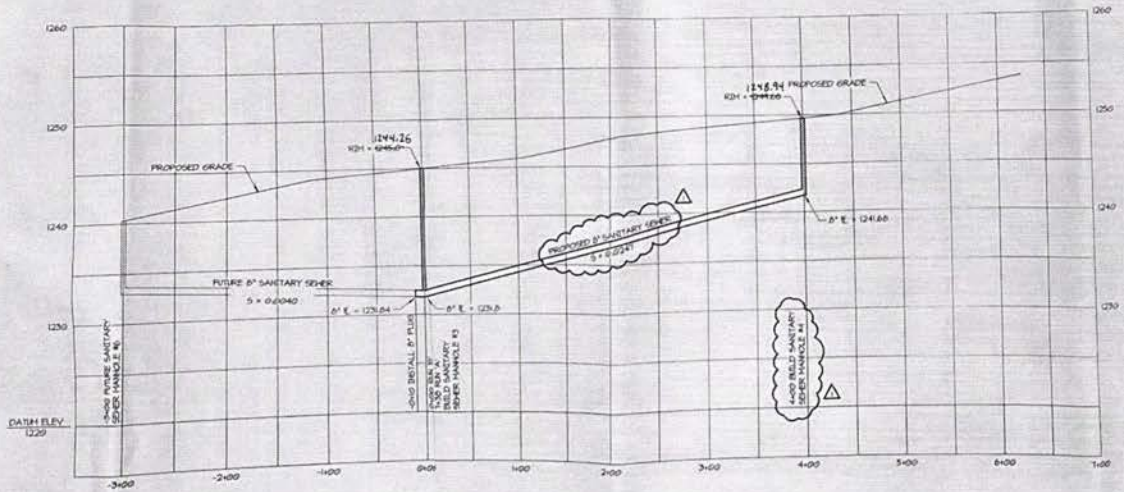

RUN 'A' PROFILE

SCALE: 1" = 60' HORIZ. 1" = 6' VERT



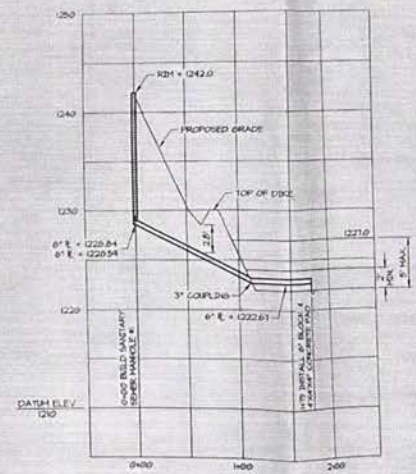

EAST CELL PROFILE

SCALE: 1" = 60' HORIZ. 1" = 6' VERT




RUN 'B' PROFILE

SCALE: 1" = 60' HORIZ. 1" = 6' VERT




WEST CELL PROFILE

SCALE: 1" = 60' HORIZ. 1" = 6' VERT

21 NOV 2005

13 DEC 05

STEVENS CREEK STORAGE

WASTEWATER LAGOON

LINCOLN, NEBRASKA

PROFILES

DESIGN ASSOCIATES OF LINCOLN, INC

3 OF 3

DEC 2 3 2005

COPY

STATE OF NEBRASKA

**Dave Heineman**
*Governor*

**DEPARTMENT OF ENVIRONMENTAL QUALITY**
**Michael J. Linder**
*Director*
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

DEC 1 9 2005

Mr. Ronald Skoda
Skoda Development Co., L.L.C.
14030 E. "O" Street
Lincoln, NE 68520

RE: Sanitary Wastewater Collection System and Treatment Lagoons
Stevens Creek Storage
14030 E. "O" Street, Lincoln, Lancaster County, Nebraska

STATE CONDITIONAL CONSTRUCTION PERMIT NO. 05-0249

Dear Mr. Skoda:

Pursuant to Neb. Rev. Stat. Sec. 81-1506 (2) (Reissue 1994), documents describing this project have been approved, **with conditions**, and stamped accordingly. One set of sanitary related documents is being retained for this Department's records. The rest are being returned to the **submitting engineer** for distribution, including a construction certification card to be returned to this Department.

Compliance with minimum sanitary engineering design criteria was the only consideration in the review of this project, as only sanitary related documents were reviewed, unless specifically noted in review comments. **This construction permit does not supersede any required local review or permit**, nor release the owner from the responsibility of providing an operable facility. If significant changes in design are made during construction, change orders must be submitted to this Department, and as-built plans may be required. Please refer to our State permit number.

**This construction permit is issued with the following conditions:**

1. **Only wastewater generated in the southeast-most building, designated "Proposed Commercial 24,000 S.F." on the approved plans, shall be allowed to be discharged into the wastewater collection and treatment system. No other building sewer shall be connected to the collection or treatment system without written approval from the Department.**

2. **The quantity of wastewater flow into the wastewater treatment system shall not exceed the design flow of an average of 2,315 gallons per day without written approval from the Department. The system owner shall measure and record total**

**water use by all occupants of the building that is connected to the wastewater system. Such records shall be made available to the Department at the Department's request.**

3. **No hazardous chemicals shall be discharged into the wastewater system.**

4. **No materials in concentrations toxic to the facultative biological treatment process shall be discharged into the wastewater treatment system.**

5. **No floor drains shall be allowed in any vehicle maintenance or wash area.**

The Undersigned issues this document on behalf of Director in accordance with Title 123 – Rules and Regulations for Design, Operation and Maintenance of Wastewater Treatment Works. **If you have questions, please contact Charles Duerschner, P.E., Supervisor, Technical Assistance Unit, at (402) 471-4206.**

Sincerely,

Patrick W. Rice

Patrick W. Rice
Assistant Director

PWR/CAD/rkh
pc: Jeremy Williams, P.E., Design Associates, Lincoln, NE
John Chess, Lincoln-Lancaster County Health Department, Lincoln, NE
Mike Dekalb, Lancaster County Planning, Lincoln, NE
Mel Goddard, Chief Inspector, Lincoln-Lancaster County, Building & Safety
Dale Stertz, Chief Plans Examiner, Lincoln-Lancaster County, Building & Safety

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STATE OF NEBRASKA

**Dave Heineman**
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**DEPARTMENT OF ENVIRONMENTAL QUALITY**
**Michael J. Linder**
*Director*
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1200 'N' Street
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Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

December 21, 2005

Mr. Ronald Skoda
Skoda Development Co., L.L.C.
14030 E. "O" Street
Lincoln, NE 68520

RE: Sanitary Wastewater Collection System and Treatment Lagoons
Stevens Creek Storage
14030 E. "O" Street, Lincoln, Lancaster County, Nebraska
State Conditional Construction Permit No. 05-0249

Dear Mr. Skoda:

Because of the uncertain nature of future development at the Steven Creek Storage site, and to help ensure that the quantity and quality of wastewater allowed to enter this wastewater treatment facility conforms with the design information submitted to the Department, the construction permit for the facility includes several conditions with which you must comply. Please read these conditions listed on the construction permit and be sure you understand them. If you have any questions about the conditions, please contact me.

Please note that an operation and maintenance manual will be required for this facility. Prior to placing the facility into operation, please have your engineer submit an operation and maintenance manual to the Department for review and approval.

Your wastewater treatment lagoon must have a designated operator. The operator must be a Certified Wastewater Treatment Facility Operator unless you apply for and receive the certification exemption that is available for non-discharging lagoon systems. Certification requirements are included in NDEQ's Title 197 - *Rules And Regulations For Certification Of Wastewater Treatment Operators In Nebraska.* For exemption requirements, see Title 197, Chapter 2, Section 002. A copy of Title 197 is enclosed for your use.

If you wish to exempt your facility from the operator certification requirement, please complete the enclosed *Application for Exempt Status* form and return the form with the application fee to the name and address listed on the form. Otherwise, you will need to retain the services of a certified wastewater operator. Please note that the exemption must be renewed every four years to maintain exempt status.



*An Equal Opportunity/Affirmative Action Employer*
Printed with soy ink on recycled paper

If you have questions, please contact me at (402) 471-2589.

Sincerely,

Rick Hoopes, P.E.
Environmental Engineer III
Technical Assistance Unit
Water Quality Division

Encl: NDEQ Form - Application for Exempt Status
NDEQ Title 197

Pc: Jeremy Williams, P.E., Design Associates, Lincoln, NE
John Chess, Lincoln-Lancaster County Health Department, Lincoln, NE

**Design Associates**
of Lincoln, Inc.
*ARCHITECTS • PLANNERS • ENGINEERS*

JAN 2 6 2006

January 25, 2006

Rick Hoopes, P.E.
Nebraska Department of Environmental Quality
Suite 400, The Atrium
1200 'N' Street
Lincoln, Nebraska

RE: Sanitary Wastewater Collection System and Treatment Lagoons
Stevens Creek Storage
14030 'O" Street, Lincoln, Lancaster County, Nebraska
State Conditional Construction Permit No. 05-0249

Dear Rick:

Construction began last week on the sanitary wastewater collection system and this week on the treatment lagoons. Our office was notified this week about a conflict with the location of the lateral field for the existing dwelling and the lagoons. The laterals extend into the footprint of the lagoons at the eastern end of the lagoons. This is a formal request to amend the conditional construction permit to include the wastewater generated by the dwelling.

The approved permit is for a 24,000 square foot commercial building with a design flow of 2,315 gallons per day. As previously submitted in design calculations, the required area for the commercial building is 76,025 square feet. Approved construction plans include two cells that provide a total of 90,900 square feet of area, or a surplus of 14,875 square feet.

The dwelling has three bedrooms and no whirlpool tubs. Per Title 124 Chapter 18.017, a design flow for this dwelling is 300 gallons per day. Given this design flow and the same design parameters used for the approved lagoons, the dwelling requires 9,852 square feet of lagoon.

We propose that the dwelling's septic tank remain in place and the line to the laterals be reconstructed to connect to manhole #1 on the approved plans.

Please advise if we can provide any additional information that will assist in amending the approved permit to aid in addressing this matter.

Thanks,

Jeremy Williams, P.E.
For the firm

Pc: Ron Skoda, Sr., Stevens Creek Storage, Lincoln, NE
John Chess, Lincoln-Lancaster County Health Department, Lincoln, NE

PERSHING SQUARE 1609 'N' STREET LINCOLN, NEBRASKA 68508
Phone: (402) 474-3000 www.DAofLincoln.com Fax: (402) 474-4045

JAN 3 1 2006

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STATE OF NEBRASKA

**Dave Heineman**
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**DEPARTMENT OF ENVIRONMENTAL QUALITY**
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January 30, 2006

Mr. Ronald Skoda
Skoda Development Co., L.L.C.
14030 E. "O" Street
Lincoln, NE 68520

RE: Sanitary Wastewater Collection System and Treatment Lagoons
Stevens Creek Storage
14030 E. "O" Street, Lincoln, Lancaster County, Nebraska
Conditional Construction Permit No. 05-0249

Dear Mr. Skoda:

The Department's Conditional Construction Permit No. 05-0249 prohibited the connection of any additional building sewers to the new lagoon without Department approval. It also restricted the average daily wastewater flow into the lagoon to a maximum of 2,315 gallons per day, which was the design engineer's estimated flow from the 20,000 square-foot (s.f.) building that the lagoon was designed to serve.

We understand that during construction of the new lagoon, it was discovered that a septic drainfield for the existing three-bedroom dwelling on the property was encountered, and this drainfield will be destroyed by the lagoon construction. Through a letter dated January 25, 2006, from your design engineer, Jeremy Williams, we have received a request to connect the septic tank effluent line from the existing dwelling the new lagoon. The engineer estimates that the average daily flow from the dwelling will be 300 gallons per day.

The Department approves the discharge of the septic tank effluent line from the existing dwelling to the new lagoon by connecting the septic tank effluent line to Manhole #1. The Department also approves changing the limit on the average daily wastewater flow into the lagoon to 2,315 gallons per day from the 20,000 s.f. commercial building plus 300 gallons per day from the dwelling.

Please note that if the dwelling property is ever separated from the wastewater lagoon property through subdivision of the existing lot on which both are currently located, the owner of the dwelling property could lose the use of the lagoon. At that time, to comply with NDEQ Title 124, Chapter 5, Section 003, the owner of the dwelling must obtain a legally binding easement that allows the use of the wastewater lagoon for treatment and disposal of wastewater from the

dwelling for the life of the dwelling. Otherwise, the dwelling owner will have to install a new onsite wastewater system on the dwelling property in compliance with all state and local rules, regulations, codes and ordinances.

In our review of the engineer's original design calculations, we questioned the estimate of 50 patrons per day for the proposed bar. We felt the estimated patronage, and thus the estimated wastewater flow from the bar, might be low. In his response, the design engineer justified the estimate as the best information available at the time. He attempted to address the Department's concern by explaining that the lagoon was slightly oversized and could handle more flow if the bar patronage was higher than estimated. Please note that connecting the dwelling to the lagoon will use up 300 gallons per day of the excess lagoon capacity which will now be unavailable for future increases in wastewater flow from the commercial space.

All conditions of Conditional Construction Permit No. 05-0249 remain unchanged and in force.

Sincerely,

Charles Duerschner

Charles Duerschner, P.E.
Supervisor, Technical Assistance Unit
Wastewater Section, WQD

CAD/rkh

pc: Jeremy Williams, P.E., Design Associates, Lincoln, NE
John Chess, Lincoln-Lancaster County Health Department, Lincoln, NE
Mike Dekalb, Lancaster County Planning, Lincoln, NE
Mel Goddard, Chief Inspector, Lincoln-Lancaster County, Building & Safety
Dale Stertz, Chief Plans Examiner, Lincoln-Lancaster County, Building & Safety