

**RICE CREEK WATERSHED DISTRICT**

**CONSENT AGENDA**

**January 28, 2004**

It was moved by \_\_\_\_\_ and seconded by \_\_\_\_\_ to approve, conditionally approve pending receipt of changes, or deny the Permit Applications noted in the following table of contents in accordance with the District Engineer's Findings and Recommendations, as contained in the Engineer's Report dated January 23, 2004.

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\* To be presented



3. The permittee shall submit a monitoring report on the replacement wetland to RCWD which includes the information specified in Minnesota Rules 8420.0620 each year for five years following completion of the replacement wetland. The report shall be submitted no later than November 15 of each year.
4. District Inspector to be contacted for pre-construction meeting prior to grading.
5. An as-built survey of wetland boundaries including quantification of wetland impact is to be submitted for verification that wetland impact does not exceed amount proposed.
6. Permanent signage of a type approved by the District is to be placed every 50 feet at the wetland-upland interface where lot "backyards" abut wetlands.

- Exhibits:
1. Permit Application dated June 5, 2001, received June 14, 2001.
  2. Wetland Delineation Report prepared by Rob Langer, dated December 2000, received June 14, 2001.
  3. Preliminary Plat prepared by R. Nelson Engineering, dated June 1, 2001, received June 14, 2001.
  4. Soil boring logs prepared by Interstate Geotechnical Engineering, Inc., last revised May 4 and May 25, 2001, received July 11, 2001.
  5. Grading, Drainage, and Erosion Control Plan prepared by R. Nelson Engineering, last revised May 21, 2002, received May 21, 2002.
  6. Private Driveway Construction Plan prepared by R. Nelson Engineering, last revised May 15, 2002, received May 15, 2002.
  7. Infiltration worksheet prepared by R. Nelson Engineering, last revised June 23, 2001, received June 25, 2001.
  8. Copy of signed MPCA NPDES permit application.
  9. Existing and proposed hydrologic calculations prepared by R. Nelson Engineering, dated June 22, 2001, received June 25, 2001.

10. Response to June 27, 2001 Engineer's Report prepared by R. Nelson Engineering, dated June 28, 2001, received June 28, 2001.
11. Wetland Sequencing prepared by R. Nelson Engineering, undated, received January 7, 2004.
12. Wetland replacement plan prepared by R. Nelson Engineering, June 1, 2001, received January 7, 2004.
13. Wetland Conservation Act Notice, dated December 17, 2003.
14. RCWD Permit File 02-024.
15. Cash surety in the amount of 5,000, received March 19, 2002.

Findings:

1. This approval is for a 60-unit condominium building, 25 townhome units, and associated parking and cul-du-sac riparian to DNR Protected Wetland 98W. This site is ultimately tributary to Bald Eagle Lake via Ramsey County Ditch 11.
2. The proposed amendment includes additional wetland impact and the required replacement. The Wetland Delineation Report identifies six onsite wetland basins (including a portion of DNR Protected Wetland 98W).

The revised plans indicate 1,200 SF of Type 2/3 wetland fill. Wetland mitigation will consist of 2,800 SF of created Type 3 wetland. This meets the required 2:1 replacement ratio. The 30-day WCA comment period has been completed.

Board Action:

Rice Creek Watershed District Permit Application Number

03-139

Applicant:	Successful Bidder (TBS) James Studenski City of Lino Lakes 600 Town Center Parkway Lino Lakes, MN 55014 Ph: 651-982-2430 Fx: 651-982-2499 jstudenski@ci.lino-lakes.mn.us	Consultant:	James E. Jacques TKDA, Inc. 1500 Piper Jaffray Plaza 444 Cedar Street St. Paul, MN 55101-2140 Ph: 651-726-7914 Fx: 651-292-0083 jacques.je@tkda.com
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Purpose: Street and Utilities Plan for reconstruction of 4,250± LF of 62<sup>nd</sup> Street.

Location: 62<sup>nd</sup> Street from Ware Road east to Red Maple Lane, Lino Lakes.

T-R-S: 31-22-32 ad, bc, and bd

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Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Stormwater Management

1. Board approval of variance request (see finding 5).

Stormwater Management

2. Revised plan set including specifications (size, type and inverts) for the proposed crossing of the private branch of Anoka County Ditch 25 (note that the existing inverts and pipe size should be maintained).

Wetlands

3. Final approval of wetland replacement via the BWSR bank.

Erosion & Sediment Control

4. Revised plan specifying silt fence down slope of all disturbed areas, erosion control measures at all stormsewer outfalls, revegetation specifications and an implementation schedule.

Administrative

5. Copy of MPCA NPDES permit application.
6. Copy of DNR protected waters permit.
7. Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to District engineer and attorney for proposed stormwater management features.
8. Copy of receipt from County Recorder and signed/notarized legal document(s). Note that legal document(s) are to be submitted by Applicant to County for recording only after approval by District.
9. Permit Application signed by Successful Bidder.
10. Cash surety in an amount to be determined.

Exhibits:

1. RCWD Permit Application dated November 6, 2003, received November 6, 2003.
2. Wetland Delineation Report prepared by Graham Environmental Services, Inc., dated June 10, 2003, received November 6, 2003.
3. Plan Set of Cross Sections (20± Sheets) prepared by TKDA, Inc., dated September 29, 2003, received November 6, 2003.
4. Geotechnical Soil Boring Analysis prepared by STS Consultants, Ltd., dated September 11, 2002, received November 6, 2003.
5. Grading and Utility Plan prepared by TKDA, Inc., dated November 6, 2003, received November 6, 2003.
6. City of Lino Lakes Permit Application, dated November 6, 2003, received November 6, 2003.
7. Subwatershed Boundary Map prepared by Mattke Engineering, dated May 17, 1997, received November 6, 2003.
8. Response Memo to the 11-14-03 Draft Engineer's Report prepared by TKDA, dated November 17, 2003, received November 17, 2003.
9. Variance Request Letter dated January 8, 2004, received January 8, 2004.
10. Plan set prepared by TKDA, Inc., undated, received January 20,

2004.

11. RCWD Permits 01-142, 00-120, and 97-75.

- Findings:
1. The project entails reconstruction of 4,250± LF of 62<sup>nd</sup> Street between Ware Road and Red Maple Lane and addition of a 8.5-foot wide bituminous bike/pedestrian trail. The existing 2-lane road is bituminous and will be resurfaced and increased in width from 23-feet to 32-feet with the addition of curb and gutter.
  2. The proposed stormwater management plan for Stations 1+00 to 15+50 includes utilization of two existing NURP ponds located to the north of 62<sup>nd</sup> Street. These ponds were created as part of a residential development known as Miller's South Glen under RCWD Permit 97-75. Hydrologic calculations indicate that these ponds were oversized for the subwatersheds they serve and there is more than enough dead pool storage available to accommodate the runoff from 62<sup>nd</sup> Street. The proposed ponds also satisfy District Rate Control Requirements.

The proposed stormwater management plan for Stations 15+50 to 41+50 is to be routed via 16 catch basins, eight of which are designed as sediment traps, through regraded roadside ditches to DNR Protected Wetlands 567W and 566W. The sediment traps in combination with the roadside ditches should provide sufficient water quality treatment and infiltration before discharge into the wetlands. The District Administrator and Engineer attended a field visit to this site and it was noted that without impacting additional wetland areas it is infeasible to incorporate traditional NURP ponds for this section of roadway. Due to the high groundwater table, below grade infiltration features are also infeasible.

The submitted information does not address stormwater management for Stations 41+50 to 43+00. The applicant has indicated that construction of this section of roadway will not be included with this project. A stormwater management plan for these stations will be required when this remaining section of roadway is reconstructed.

3. The proposed roadway will cross a private branch of Anoka County Ditch 25. The existing culvert crossing of the private branch located near station 29+00 is a 24" CMP with an invert elevation of 890.88. A plan set specifying size, invert elevation, and pipe type for the proposed culvert is required demonstrating that hydraulic capacity and outlet invert will be maintained.
4. The District permit coordinator has reviewed and accepted the

submitted wetland delineation. The total amount of proposed wetland fill is 0.55 acres. Of this, 0.534 acres of Type 3 wetland is to be impacted and 0.014 acres of Type 2 wetland is to be impacted. Currently, the bike path does not extend past the existing wetlands and will be continued along the length of 62<sup>nd</sup> Street to Red Maple Lane. The width of the boulevard between the bike path and the road will be increased from 3 feet to 6 feet except for the portion along the wetlands which will only be increased to 4 feet. The applicant has indicated that they will use credit from the BWSR bank to mitigate for the proposed impact. Final approval of this replacement plan is required.

5. 62<sup>nd</sup> Street runs through FEMA Floodplain Zone A which has no defined flood elevation. The 100-year regulatory flood elevation for DNR Protected Wetlands 567W has been identified as 891.79 by the Applicant. Based on this elevation the applicant has calculated 660 cubic yards of floodplain fill. Compensatory storage provisions are required for this fill. There appears to be some compensatory storage provided in the proposed swales along 62<sup>nd</sup> Street that may be used to offset the fill, however the applicant has indicated that this does not meet the replacement requirements.

The applicant is therefore requesting a variance for the proposed 660 cubic yards of floodplain fill (see the attached variance request letter). The applicant has submitted calculations demonstrating that the proposed fill will not adversely impact the flood elevations on the basin. The applicant has also indicated that the City does not own any upland along this corridor that could be used for compensatory storage. Being that the area surrounding the basin in question is already developed and there should not be any additional significant floodplain fill that would alter the basins flood elevation the recommendation is to approve this variance request.

6. An erosion control plan is required specifying silt fence downstream of all disturbed areas, specification of erosion control measures at all stormsewer outfalls, revegetation specifications, and an implementation schedule.

Board Action:



03-139  
VARIANCE REQUEST

1500 Piper Jeffrey Plaza  
444 Cedar Street  
Saint Paul, MN 55101-2140

(651) 292-4400  
(651) 292-0083 Fax  
www.tkda.com

**MEMORANDUM**

<b>To:</b>	<u>Greg Graske, EOR</u>	<b>Reference:</b>	<u>RCWD Permit Application 03-139</u>
<b>Copies To:</b>	<u>Jim Studenski, City of Lino Lakes</u>		<u>City of Lino Lakes, Minnesota</u>
	<u>Scott Brink, TKDA</u>		
	<u>Pat Windler, TKDA</u>	<b>Comm. No.</b>	<u>12510-02</u>
<b>From:</b>	<u>Jim Jacques, P.E.</u>	<b>Routing:</b>	<u></u>
<b>Date:</b>	<u>January 8, 2004</u>		

The purpose of this Memorandum is to address the incomplete items for the above-referenced Permit Application in accordance with our discussion today. Following are excerpts and supplementary information regarding Items 1, 3, and 4 from your Review Memorandum, dated November 21, 2003.

- Item 1 states "Revised stormwater management plan satisfying District rate control and water quality treatment requirements for Stations 1+00 to 15+ 50 and 37+00 to 41+50 (a summary table for each sub-watershed should be provided with supporting hydrologic calculations)". In our discussion today, I informed you that we have revised out the discharge plans from the water generated from Station 37+00 to 41+50 to flow south in a private ditch that will connect with a public ditch to the south of 62nd Street, as depicted in the enclosed excerpt from the 62nd Street Reconstruction Plan (Sheet No. 19). We will treat the stormwater quality utilizing a grit chamber in a similar fashion to others proposed elsewhere along the proposed project corridor. We believe we can address peak flow attention in the ditch for the small amount of water that will be conveyed to the public ditch, and we will provide computations verifying that shortly. The water being generated from Station 1+00 to 15+50 is being treated in existing stormwater ponds that we both agreed in our discussion today were sufficiently oversized to handle the proposed project's increased runoff. Again, we will provide computations verifying that shortly as well.
- Item 3 states "Revised plan and hydrologic calculations demonstrating no increase in the 100-year flood elevation for the wetland located west of West Shadow Lake Drive created as part of the West Shadow Ponds residential development (RCWD Permit 00-120)". In our discussion today, we agreed that this is no longer an issue because of our proposed change in treating the water from Station 37+00 to 41+50 as described above.

3. Item 4 states "Compensatory storage provisions for the proposed 660 cubic yards of fill". We are asking for a variance from this requirement. We believe that special conditions apply to this situation in that (1) the City of Lino Lakes does not own any land or hold any easements that would allow the compensatory excavation, and (2) Our previous submittals demonstrate that the wetland's size in relation to its drainage area will mitigate any hydraulic affects due to the proposed fill. As a result, the proposed fill will not adversely affect the public health, safety or welfare. Additionally, it will not create extraordinary expense and will not adversely affect water quality, water control, or drainage in the District. In light of all of this, we believe this request for a variance is consistent with District's rules.

I appreciate your assistance with this Permit and I look forward to a conditional approval of our Plans so that we can proceed with the detailed design process for this Project.

**Rice Creek Watershed District Permit Application Number**

**03-147**

Applicant: Successful Bidder (TBS)                      Consultant: Sean Clark  
City of Lino Lakes    SEH  
Attn: Mike Grochala    3535 Vadnais Center Dr.  
600 Town Center Parkway                                      St. Paul, MN 55110  
Lino Lakes, MN 55014    Ph: 651-490-2000  
Ph: 651-982-2427    Fx: 651-490-2150  
Fx: 651-982-2499    sclark@sehinc.com  
mgrochala@ci.lino-lakes.mn.us

Purpose: Rough Grading Plan and Stormwater Management Plan for a mixed use development to be known as Legacy at Woods Edge, 50± acres.

Location: South of I-35W and east of Lake Drive, Lino Lakes.

T-R-S: 31-22-17 a

Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Floodplain

1. Revised low floor elevations complying with District freeboard requirements (see 2<sup>nd</sup> paragraph of Finding 4 for further discussion).

Erosion & Sediment Control

2. A revised plan is required providing perimeter control (silt fence) southeast of rough grading activities for the YMCA parcel.

Administrative

3. Preliminary Plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site wetlands, ponds, and other hydrologic features.
4. Letter from the City indicating which stormwater management features will be maintained by the City and a Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to District engineer and attorney for proposed onsite stormwater management features that will not be maintained by the City.

5. Copy of receipt from County Recorder and signed/notarized legal document(s). Note that legal document(s) are to be submitted by Applicant to County for recording only after approval by District.
6. Copy of MPCA NPDES permit application.
7. Permit Application signed by Successful Bidder.
8. Finalized plan set signed by a professional engineer.
9. Cash surety in the amount of \$15,000.

Stipulation: 1. This permit is only for authorization of rough grading of the site. Detailed plans and specifications for stormwater management infrastructure will be required for further District review and permitting before construction of roadways, impervious surfaces or storm sewer infrastructure is authorized.

- Exhibits:
1. Permit Application dated November 25, 2003, received November 26, 2003.
  2. Project Narrative prepared by SEH, dated and received November 26, 2003.
  3. Response to December 5, 2003 Engineer's Report prepared by SEH, dated January 7, 2004, received January 7, 2004.
  4. Storm Sewer Routing Plan prepared by SEH, dated January 7, 2004, received January 7, 2004.
  5. Existing Drainage Plan prepared by SEH, dated November 25, 2003, received November 26, 2003.
  6. Site Grading & Erosion Control Plan prepared by SEH, dated November 25, 2003, received November 26, 2003.
  7. Preliminary Grading Plan prepared by SEH, dated February 19, 2003, received January 7, 2004.
  8. Water Quality Analysis Summary Sheet prepared by SEH, dated January 5, 2004, received January 7, 2004.

9. 1- and 100-year HWL Summary Sheet prepared by SEH, dated January 7, 2004, received January 7, 2004.
10. Existing 1- and 100-year HydroCAD hydrologic calculations prepared by SEH, dated November 26, 2003, received November 26, 2003.
11. Proposed 100-year HydroCAD hydrologic calculations prepared by SEH, dated January 7, 2004, received January 7, 2004.
12. Proposed 100-year (Freeboard Assessment) HydroCAD hydrologic calculations prepared by SEH, dated January 7, 2004, received January 7, 2004.
13. StormTech Design Manual, undated, received November 26, 2003.
14. StormTech Chamber sizing calculations, prepared by SEH, dated November 26, 2003, received November 26, 2003.
15. Infiltration Checklist prepared by SEH, undated, received November 26, 2003.
16. Skimmer Detail prepared by SEH, dated November 25, 2003, received November 26, 2003.
17. Soil Boring Logs prepared by Braun Intertec, dated March 28, 2003, received November 26, 2003.
18. Soil Boring Logs prepared by American Engineering Testing, Inc., dated February 24, 1998, received November 26, 2003.
19. RCWD Permit Files 98-53, 98-14 and 97-94.

Findings:

1. The proposed project entails development of 50± acres north of the existing Lino Lakes City Hall. This mixed use development is being developed by the City of Lino Lakes, YMCA and Hartford Group. As shown on the Preliminary Grading Plan, 26 building footprints are proposed to provide up to 348,300 SF of retail/office space, 38,000 SF for a YMCA facility and 450 multi-family residential units.

Detailed construction plans have yet to be prepared. At this time, the applicant is requesting approval for only the site's Rough Grading Plan and overall Stormwater Management Plan. Street and utility construction plans are intended to be developed later this winter/spring. These plans will provide the necessary detail for

review of the stormwater infrastructure to verify compliance with the Stormwater Management Plan and District Rules. Also, as future development of each lot takes place, further review and permitting of detailed construction plans will be required to verify compliance with the overall Stormwater Management Plan.

2. Based on the submitted soil borings, infiltration practices should be highly effective BMPs for the site. Onsite soils are generally sandy with groundwater well below the surface allowing for adequate separation between the bottom of an infiltration feature and the water table.

The proposed stormwater management plan includes 11 multi-purpose (water quality and infiltration) ponding areas and three underground infiltration chamber galleries. These features satisfy District stormwater infiltration and treatment requirements for the proposed development and future reconstruction of a 2± acre subwatershed (a section of Lake Drive tributary to the site). Rate control is addressed via live storage in the ponds as well as utilization of live storage within Wetlands 1 and 2. Utilization of these wetlands is acceptable since the negligible increase in storm bounce does not adversely affect the functions and values of the wetlands.

As proposed, the stormwater management plan satisfies District Rules. Again however, additional detail will be required before approval of roadways, stormwater infrastructure, and development of lots to verify compliance with the Stormwater Management Plan and District Rules.

3. A wetland delineation report for this site was reviewed under RCWD Permit 98-14 (Lino Lakes Village Phase II). There are three wetlands within or adjacent to the proposed development area. The proposed grading plan has been revised to avoid all wetlands and as such there is no wetland impact.
4. The regulatory flood elevation of George Watch and Marshan Lakes is 886.1. There is no proposed floodplain impact and all proposed low floors satisfy District freeboard requirements over this regulatory flood elevation.

The first floor elevation (FFE) or ground floor elevation (GFE) proposed for several of the buildings do not meet District freeboard requirements over the adjacent stormwater management pond 100-year or emergency overflow elevations. Ideally, FFEs, or GFEs (if basement or garage is proposed), should be 2-feet above the 100-

year and 1-foot above the emergency overflow elevations. Alternatively for local stormwater management ponds, District Rules allow for FFEs or GFEs to be no lower than the 100-year elevation and the low entry elevation must be 2-feet above the 100-year elevation and 1-foot above the emergency overflow elevation.

5. An erosion control plan has been submitted for the stormwater management components of the project. This plan includes silt fence, seeding, mulching, wood fiber blanket, riprap at stormsewer outfalls, and an implementation schedule. A revised plan is required providing perimeter control (silt fence) southeast of rough grading activities for the YMCA parcel.
6. RCWD Permit 98-53 was approved for city hall, a police station and an early learning center. RCWD Permit 98-14 was approved for the extension of 700± feet of Town Center Parkway. Phase I of the Lino Lakes Village was approved under RCWD Permit 97-94.

Board Action:

Applicant: Marie Bezdicek  
3324 Lake Johanna Blvd  
Arden Hills, MN 55112  
Ph: 651-636-0657  
Fx: none

Consultant: Terry Sanders  
Natural Environments Corp.  
1110 Evergreen Lane North  
Plymouth, MN 55441  
Ph: 763-544-8002  
Fx: 763-545-0204

Purpose: Final Site Drainage Plan and Shoreland Alteration Plan for a single-family residence and After-The-Fact placement of riprap along the shoreline of Lake Johanna, 0.45± acres.

Location: ¼ mile south of County Road E at 3324 Lake Johanna Boulevard, Arden Hills.

T-R-S: 30-23-33 dbb

Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Floodplain

1. Revised Plan specifying low floor elevation of the proposed house to be at least 881.6.

Administrative

2. Copy of DNR Protected Waters Permit (if necessary).
3. Cash surety in the amount of \$500.

- Exhibits:
1. Permit Application dated December 5, 2003, received December 9, 2003.
  2. Certificate of Survey (for Existing Conditions) prepared by E. G. Rud & Sons, Inc., dated November 11, 2003, received December 9, 2003.
  3. Project Narrative prepared by Natural Environments Corporation, dated December 5, 2003, received December 9, 2003.
  4. Stormwater Drainage Narrative prepared by Applicant, dated January 7, 2004, received January 8, 2004.

- Findings:
1. Project entails removal of an existing home and construction of a new single-family home riparian to Lake Johanna. In addition, the scope of this project includes after-the-fact approval for placement of riprap along the shoreline of Lake Johanna. All work on the property has ceased until a RCWD permit is received.
  2. The submitted narrative indicates that runoff from impervious surfaces will be routed across green space thereby satisfying District stormwater treatment requirements.
  3. NWI maps classify Lake Johanna as a Type 5 wetland. District staff has field verified that no fill has been brought in and only the placement of rock material has occurred. A DNR Protected Waters Permit may be required for disturbance below the OHW elevation.
  4. The OHW elevation for Lake Johanna is 878.0. The DNR General Development setback requirement for Lake Johanna is 50 feet from the OHW elevation. A plan demonstrating compliance with DNR setback requirements has been submitted
  5. The 100-year flood elevation for this site is 879.6 (1998 RCWD Calibration Study, Lake Johanna). There is no proposed floodplain fill. The submitted narrative indicates that the house foundation will be at 907.0, however the proposed narrative also indicates that the house is a walkout. Therefore the foundation elevation does not seem to correspond to what the lowest floor elevation would be at based on the submitted survey. A revised plan indicated the lowest floor elevation is required.
  6. The District Restoration Technician has inspected the site and found that temporary silt fence has been installed down slope of all steep slopes along the Lake Johanna shoreline. Temporary silt fence is to remain in place until permanent erosion control measures are in place. Permanent erosion control measures have been specified as seed blanket, seed (turf grasses) and shrubs to be installed early in the spring of 2004. The above specifications meet District erosion control requirements.

In addition, the piles of excess soil located onsite have been moved to a location away from the lake. The submitted narrative indicates that all excess soil will be permanently removed from the site by June 1, 2004.

Board Action:



verification is required by District staff to verify that the proposed project addresses an erosion problem only and that no additional fill will be brought in. Cost share dollars may be available through Rice Creek Watershed District for alternative shoreline restoration methods.

3. A DNR protected waters permit may be required since there is proposed work below the OHW. It appears that the project meets the DNR's criteria for not requiring a permit; however the applicant should contact the local DNR office to verify that the project meets all requirements (i.e. it is not a designated fish spawning area, riprap will not cover emergent vegetation, ect.).

Board Action:



- Findings:
1. The proposed project entails splitting a 3.9 acre lot from a 15 acre parcel riparian to Baldwin Lake and building a single-family home.
  2. Runoff will be routed across green space thereby satisfying District stormwater treatment requirements.
  3. A wetland delineation has been submitted and the proposed grading plan does not indicate any proposed wetland fill. Field verification of the wetland boundaries is required.
  4. The 100-year regulatory flood elevation for Baldwin Lake is 886.1 (1998 RCWD calibration study). There is no proposed floodplain fill. The lowest floor elevation of 890.0 meets District freeboard requirements.
  5. The proposed erosion control measures include silt fence, revegetation specifications and an implementation schedule. A revised plan including addition silt fence downstream of all disturbed areas is required.
  6. The proposed grading plan indicates a proposed easement over the existing wetland area, however an easement over the floodplain is also required. A Preliminary Plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site wetlands and floodplain (elevations below 886.1) is required.

Board Action:

Applicant: Clyde Rehbein  
5618 Heather Ridge Drive  
Shoreview, MN 55126  
Ph: 763-784-0657  
Fx: 763-784-6001

Consultant: William McCully  
Glenn Rehbein Companies  
8651 Naples Street, N.E.  
Ph: 763-784-0657  
Fx: 763-784-6001  
wmccully@rehbein.com

Purpose: Land Development Plan for three single-family homes riparian to Anoka County Ditch 10-22-32, 3 lots, 3.5± acres.

Location: South of Marshan Avenue and east of Lake Drive, Lino Lakes.

T-R-S: 31-22-17 bd

Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Wetlands

1. Field verification of no wetlands onsite.

Administrative

2. Copy of MPCA NPDES permit application.
3. Cash surety in the amount of \$750.

Exhibits:

1. Permit Application dated January 6, 2003, received January 7, 2004
2. Preliminary Grading, Drainage, Erosion Control Plan prepared by Glenn Rehbein Companies, dated January 6, 2004, received January 7, 2004.
3. Preliminary Plat prepared by Glenn Rehbein Companies, Inc., dated January 6, 2004, received January 7, 2004.
4. Project Narrative prepared by Glenn Rehbein Companies, Inc., dated January 19, 2004, received January 19, 2004.

Findings:

1. The proposed project entails splitting a 3.5± acre lot into 4 single-family home lots. The existing house will remain and three new single-family homes will be built. This parcel is riparian to Anoka County Ditch 10-22-32 near the inlet to Marshan Lake.

2. The proposed impervious area is less than 1 acre, therefore full rate control and water quality treatment is not required as long as infiltration BMPs are incorporated to the maximum extent possible. The proposed layout leaves the majority of the trees onsite intact and runoff is routed across 200-feet of wooded green space prior to discharging to Anoka County Ditch 10-22-32. This will provide ample infiltration of runoff and thereby satisfies District infiltration standards.
3. NWI maps do not indicate any wetlands on site. Field verification of the wetlands on site is required.
4. The 100-year regulatory flood elevation for Marshan Lake is 886.1 (1998 RCWD calibration study). There is no proposed floodplain fill. The lowest floor elevations of 892.0 meet District freeboard requirements.
5. An acceptable erosion control plan including silt fence, revegetation specifications and an implementation schedule has been submitted.
6. An acceptable preliminary plat has been submitted which includes a drainage easement covering the area 50-feet from the centerline of Anoka County Ditch 10-22-32.

Board Action:

Applicant: Anoka County HRA  
2100 3<sup>rd</sup> Avenue  
Anoka, MN 55303  
Ph: 763-323-5709  
Fx: 763-323-5682  
coadmin@co.anoka.mn.us

Consultant: Jonathan Donovan  
Loucks Associates  
7200 Hemlock Lane  
#300  
Maple Grove, MN 55369  
Ph: 763-424-5505  
Fx: 763-424-5822  
jdonovan@loucksmclagan.com

Purpose: Final Site Drainage Plan for removal of an existing house, garage, and stormsewer and construction of a 35,000± SF senior housing complex and additional parking areas to be known as Centerville Senior Housing (second phase), 4.4± acres.

Location: South of Heritage Street and east of Centerville Road, Centerville.

T-R-S: 31-22-23 bdc

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Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Stormwater Management

1. Revised hydrologic calculations for proposed conditions using parameters that accurately represent the hydrologic/hydraulic conditions of the site (specifically time-of-concentrations). Contact district engineer to discuss.
2. Revised stormwater management plan complying with District rate control requirements (if necessary per Pending Item 1).
3. Geotechnical soil borings conducted as part of this project to determine depth to water table and substrate materials.
4. Incorporation of additional infiltration practices. Effective pervious area must be capable of receiving, retaining, and infiltrating runoff from impervious areas within 72 hours.
5. Incorporation of additional Grading Plan Notes specific to the infiltration features including; no mining of sandy soils, use of topsoil/sand mix for top dressing instead of topsoil, revegetation specifications (deep rooted native vegetation), and other measures necessary to protect these features from

siltation during construction (i.e., silt fence and excavation to final grade after stabilization of upstream areas, etc.).

Floodplain

6. Clarification of building low floor elevation and revised low floor elevation (if necessary) complying with District freeboard requirements (see Finding A for discussion).

Administrative

7. Draft legal document with satisfactory form and description granting ponding and flowage easements over all onsite ponds, infiltration basins, and wetlands (if any present).
8. Letter from the City indicating which stormwater management features will be maintained by the City and a Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to District engineer and attorney for proposed onsite stormwater management features that will not be maintained by the City.
9. Copy of receipt from County Recorder and signed/notarized legal document(s). Note that legal document(s) are to be submitted by Applicant to County for recording only after approval by District.
10. Copy of MPCA NPDES permit application.
11. Cash surety in the amount of \$2,500.

- Exhibits:
1. Permit Application undated, received January 7, 2004.
  2. Project Narrative prepared by Loucks Associates, dated December 10, 2003, received January 7, 2004.
  3. Hydrologic Calculations for existing conditions prepared by Loucks Associates, dated October 22, 2003, received January 7, 2004.
  4. Hydrologic Calculations for proposed conditions prepared by Loucks Associates, dated December 10, 2003, received January 7, 2004.
  5. Walker Pond Model for proposed conditions prepared by Loucks Associates, dated December 8, 2003, received January 7, 2004.
  6. Subwatershed Boundary Map for existing conditions prepared by

- Loucks Associates, dated December 1, 1997, received January 7, 2004.
7. Subwatershed Boundary Map for proposed conditions prepared by Loucks Associates, dated November 5, 2004, received January 7, 2004.
  8. Existing Conditions Plan prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  9. Demolition Plan prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  10. Site Plan prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  11. Grading, Drainage, and Erosion Control Plan prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  12. Utility Plan prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  13. Construction Plan Sheets prepared by Loucks Associates, dated January 5, 2004, received January 7, 2004.
  14. RCWD Permit file 97-128.

Findings:

1. The proposed project entails the second phase of the Centerville Senior Housing complex on 4.4± acres. Specifically, the project proposes the removal of an existing house, garage, driveway and portions of existing stormsewer and the construction of a 35,000± SF building and additional parking. The first phase of this project was approved under RCWD Permit 97-128.
2. The existing site is comprised of four drainage areas. A small area in the northwest drains via sheet flow to the stormsewer network in Centerville Road. Runoff generated in the northeast corner of the site sheet flows east where it enters City stormsewer. Runoff from the southern half of the site sheet flows to the southwest corner of the site where it flows south along the ditch adjacent to Centerville Road. Runoff generated on impervious surfaces is collected by catch basins in the parking lots and routed to the existing stormwater pond onsite.

The proposed stormwater management plan includes new stormsewer network, expansion of the existing stormwater detention

pond along the western border of the site, a rain garden in the center of the site, and three drainage swales. The time-of-concentrations used in the proposed conditions hydrologic model appear to be too large. Revised hydrologic calculations accurately reflecting the conditions of the site are required. If the site does not meet District rate control requirements using the revised calculations, then a revised stormwater management plan complying with District rate control requirements will be required.

The proposed pond sizing provides adequate dead storage for the 2.5 inch storm event, meeting District water quality treatment requirements.

The submitted grading plan identifies a rain garden in a central portion of the development. As shown, it does not appear that this feature alone will adequately meet District infiltration requirements. However, there are two potential locations onsite where additional infiltration features could be incorporated into the site: the swale located along the southern border of the site as well as the swale located along the northern border of the site. The Applicant has not provided sufficient information demonstrating favorable infiltration conditions exist onsite. Geotechnical soil borings conducted as part of this project to determine depth to water table and substrate materials are required. Additionally, incorporation of additional grading plan notes specific to the infiltration features is required as explained in Pending Item 5.

3. NWI maps do not indicate the presence of wetlands onsite.
4. The regulatory flood elevation for Clearwater Creek at Main Street is 899.6 (Centerville Flood Reduction Study). There is no regional floodplain associated with this site and there is no proposed floodplain impact.

The 100-year flood elevation for the proposed expanded NURP pond is 908.47. The first floor elevation of the proposed building is 913.0, which meets District freeboard requirements. However, it is unclear if the proposed building will have a basement. If a basement is proposed, this low floor elevation must comply with District freeboard requirements.

5. An acceptable erosion control plan has been submitted, including silt fence down slope of disturbed areas, a rock construction entrance, riprap at stormsewer outfalls, revegetation specifications, and an implementation schedule.

Board Action:

Applicant: Norm Wells  
623 17<sup>th</sup> Avenue NW  
New Brighton, MN 55112  
Ph: 651-631-8798  
Fx: none

Consultant: Craig Schlichting  
Plowe Engineering  
9180 Lexington Avenue NE  
Circle Pines, MN 55014  
Ph: 763-785-1043  
Fx: 763-786-6007

Purpose: Final Site Drainage Plan for a hardware store to be known as Beisswengers, 38,000± SF, 4.3± acres.

Location: North of Highway 96 and east of Old Highway 8, New Brighton.

T-R-S: 30-23-16 ccc

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Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Stormwater Management

1. Revised plan including stormwater treatment for all proposed impervious areas.
2. Geotechnical soil borings conducted as part of this project to determine depth to water table and substrate materials.
3. Incorporation of additional Grading Plan Notes specific to the infiltration features including; no mining of sandy soils, use of topsoil/sand mix for top dressing instead of topsoil, revegetation specifications (deep rooted native vegetation), and other measures necessary to protect these features from siltation during construction (i.e., silt fence and use of infiltration basin as temporary sediment basin during construction and excavation to final grade after stabilization of upstream areas, etc.).
4. Pond outlet detail on Grading Plan providing skimming capability up to the 1-year event.

Wetlands

5. Field verification of no wetlands onsite.

Administrative

6. Copy of DNR protect waters permit (if necessary).
7. Copy of MNDOT drainage permit for the proposed stormsewer outlet into the MNDOT right-of-way.
8. Copy of MPCA NPDES permit application.
9. Cash surety in the amount of \$2,500.

- Exhibits:
1. Permit Application dated January 8, 2004, received January 8, 2004.
  2. Hydrologic Calculations prepared by Plowe Engineering, Inc., dated January 8, 2004, received January 8, 2004.
  3. Preliminary Grading, Drainage and Erosion Control Plan, prepared by Plowe Engineering, Inc., dated January 8, 2004, received January 8, 2004.
  4. Preliminary Utility Plan prepared by Plowe Engineering, Inc., dated January 8, 2004, received January 8, 2004.
  5. Infiltration Worksheet prepared by Plowe Engineering, Inc., undated, received January 8, 2004.

- Findings:
1. The proposed project entails construction of a <sup>41,000</sup>38,000± SF Hardware Store on 4.3± acres.
  2. The proposed stormwater management includes two infiltration basins and a NURP pond located on the southern portion of the site. These features meet District rate control and water quality treatment requirements. However, there are two small subwatershed that discharge offsite without treatment, one subwatershed to the MNDOT drainage ditch, and one subwatershed to Old Highway 8 stormsewer. All new impervious surfaces should be treated before discharging from the site. In addition, a NURP pond outlet demonstrating skimming capability for the 1-year event is required.

There are two infiltration basins proposed onsite. These features are sized to District standards, however soil borings have not been provided to demonstrate that proposed locations are suitable for infiltration. Geotechnical soil borings conducted as part of this project to determine depth to water table and substrate materials is required. Additional grading plan notes specific to the onsite infiltration features is also required.

3. NWI maps do not indicate any wetlands onsite. Field verification of no wetlands onsite is required.
4. FEMA-FIS maps do not indicate any floodplain onsite. As proposed, the 100-year elevation of the NURP pond is 911.4. The proposed basements low entry elevation 916± feet is significantly higher than this flood elevation. Therefore the proposed building is not subject to flooding from surface water. However, because the proposed basement is lower than the onsite pond normal waterline, the applicant should consider the potential ground water effects and potential water proofing needs for the proposed basement.
5. An acceptable erosion control plan has been submitted.

Board Action:



2. Infiltration Worksheet and Checklist prepared by Passe Engineering Inc., undated, received January 8, 2004.
3. Geotechnical Report prepared by Braun Intertec Corporation, dated January 5, 2004, received January 8, 2004.
4. Easement Description and Exhibit prepared by Passe Engineering Inc., dated January 8, 2004, received January 8, 2004.
5. Hydrologic Calculations prepared by Passe Engineering Inc., dated January 6, 2004, received January 8, 2004.
6. Preliminary Plat prepared by Passe Engineering Inc., dated January 8, 2003, received January 8, 2004.
7. Preliminary Utility Plan prepared by Passe Engineering Inc., dated January 8, 2003, received January 8, 2004.
8. Grading Plan prepared by Passe Engineering Inc., dated January 8, 2003, received January 8, 2004.
9. RCWD Permit files 98-27 & 98-28.

Findings:

1. The proposed project entails land development of a 20± acre parcel into 43 lots to be known as Beaver Ponds South. Beaver Ponds (RCWD Permit 98-28) is immediately north of this site.
2. Stormwater treatment onsite includes one NURP pond and an infiltration trench. The proposed NURP pond meets District water quality treatment standards. RCWD Permit 98-27 is for a CSMP utilizing existing wetlands for stormwater storage. This site is within a this CSMP which provides rate control for the area. The proposed land use is consistent with the approved CSMP. Therefore, this wetland satisfies District rate control requirements.

The proposed infiltration trench consists of a perforated pipe placed in select granular. Insufficient details have been submitted to demonstrate that this infiltration trench will provide adequate storage to provide the necessary infiltration. However, based on the submitted soil boring the infiltration potential for the site is minimal due to clay soils. Therefore, demonstration of compliance with the District standard will not be required.

2. The submitted plans indicate wetland on the eastern edge of the site. There is no proposed fill of this wetland area. A copy of the wetland

delineation report for this site is required. In addition, field verification by District staff of the wetlands delineation is also required.

3. The proposed CSMP (permit 98-27) calculates a wetland/regional pond high water level of 932.5. The existing downstream field road overflow elevation is 930.4. The minimum proposed first floor elevation is 938.0, thereby satisfying the District's 2-foot freeboard requirement over the regional pond. The proposed house pads adjacent to the NURP pond also meet District freeboard requirement over the onsite pond's 100-year elevation and emergency overflow elevation. There is no proposed floodplain fill.
4. An acceptable erosion control plan has been submitted.
5. Legal documents have been submitted granting easements over the onsite wetland. These will need to be reviewed against the yet to be submitted wetland delineation.

Board Action:

Applicant: Successful Bidder (TBS)      Consultant: Jay Pomeroy  
Nick Termali      Anderson-Johnson  
Mounds View Public Schools      Associates, Inc.  
500 10<sup>th</sup> Street NW      7575 Golden Valley Rd.  
Ph: 651-639-6008      #200  
Fx: none      Ph: 763-544-7129  
nick.termali@moundsvIEWSchools      Fx: 763-544-0531  
aja@ajainc.net

Purpose: Final Site Drainage Plan for track and field improvements at the Mounds View High School, 54± acres.

Location: South of Lake Valentine Road and east of Interstate 35-W, Arden Hills.

T-R-S: 30-23-28 ba

Recommendation: **Conditional approval pending receipt of changes** and outstanding items related to:

Stormwater Management

1. Geotechnical soil borings conducted as part of this project to determine depth to water table and substrate materials.
2. Incorporation of infiltration features in lieu of proposed filtration features (if practical based on the onsite soil types and water table).

Wetlands

3. Field verification by District staff of no wetlands onsite.

Administrative

4. Preliminary Plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site wetlands, ponds, and other hydrologic features.
5. Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to District engineer and attorney for proposed onsite stormwater management features.
6. Copy of receipt from County Recorder and signed/notarized

legal document(s). Note that legal document(s) are to be submitted by Applicant to County for recording only after approval by District.

7. Copy of MPCA NPDES permit application.
8. Cash surety in the amount of \$2,500.

- Exhibits:
1. Permit Application dated January 5, 2003, received January 7, 2004.
  2. Existing Conditions Plan prepared by Anderson-Johnson Associates, Inc., dated January 27, 2004, received January 8, 2004.
  3. Proposed Conditions Plan prepared by Anderson-Johnson Associates, Inc., dated January 27, 2004, received January 8, 2004.
  4. Erosion Control Plan prepared by Anderson-Johnson Associates, Inc., dated January 27, 2004, received January 8, 2004.
  5. Project Narrative prepared by Anderson-Johnson Associates, Inc., dated January 8, 2004, received January 8, 2004.
  6. Infiltration Worksheet prepared by Anderson-Johnson Associates, Inc., undated, received January 8, 2004.
  7. Hydrologic Calculations prepared by Anderson-Johnson Associates, Inc., undated, received January 8, 2004.

- Findings:
1. The proposed project entails reconstruction and improvements to the Mounds View High School's track and field.
  2. The proposed project will result in 1.71 acres of total impervious area. All runoff will be routed to a large stormwater treatment basin which meets District rate control and water quality treatment requirements. This basin has been designed with an under drain system to provide filtration of the stormwater. The infiltration worksheet indicates Type D soils onsite, however no soil boring have been provided. If the soils are indeed Type D soils filtration would be an acceptable substitution to infiltration. If the soils are Type A or B infiltration would be the preferred treatment method. A copy of the soil boring logs are required. Incorporation of infiltrations practices may be required depending on the site soil types.
  3. NWI maps do not indicate wetlands onsite, however USGS maps indicate that there may be wetlands near the proposed ponding area.

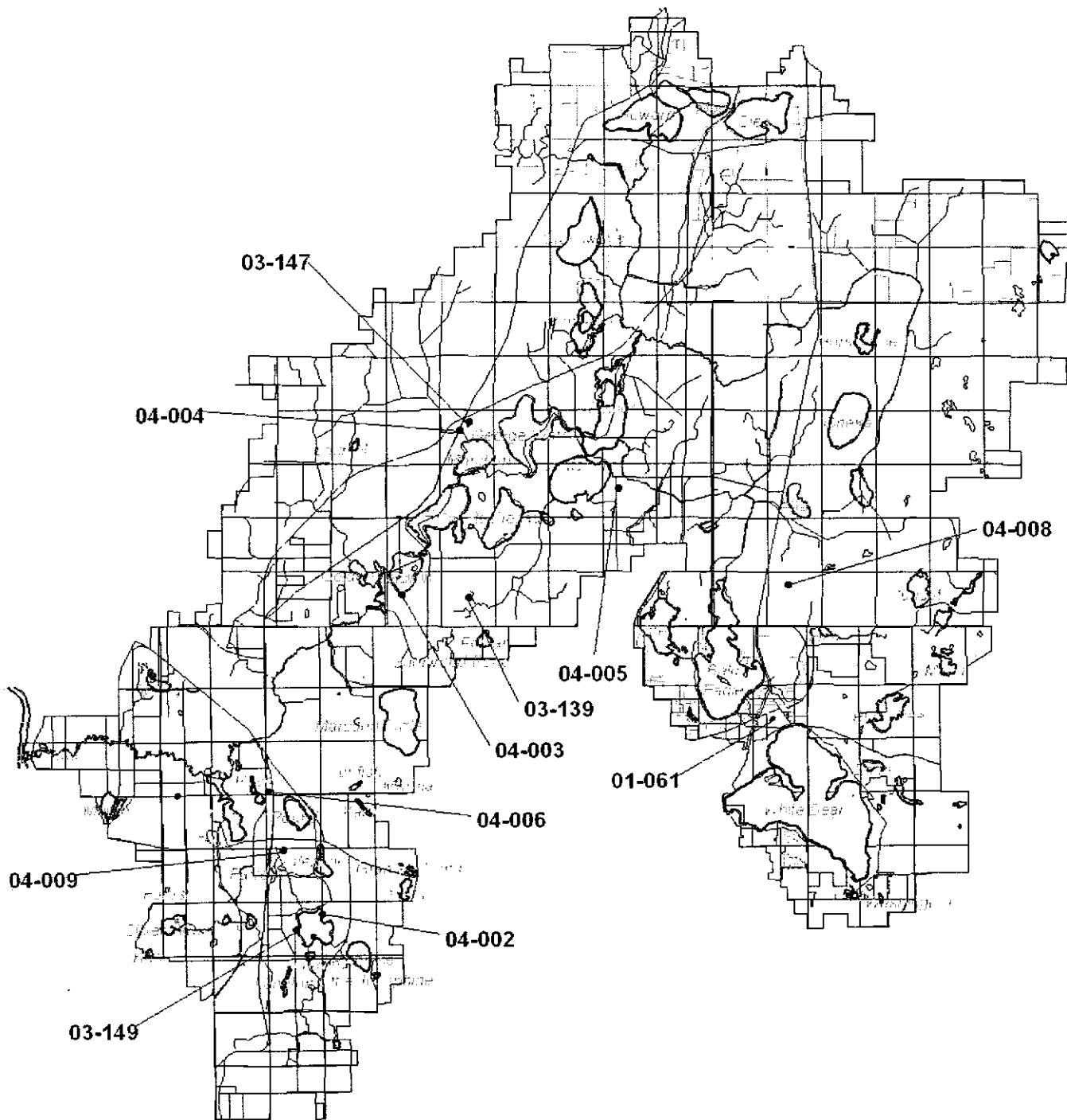
- Field verification by District staff of no wetlands in the project area is required.
4. There is no FEMA floodplain onsite.
  5. An acceptable erosion control plan has been submitted.

Board Action:

PERMIT APPLICATIONS REQUIRING BOARD  
ACTION

*Location Maps*

# Rice Creek Watershed District 2004 Permit Location Map



**EOR** EMMONS & OLIVIER  
RESOURCES

0 4 Miles

# RCWD Permit Locations

## Legend

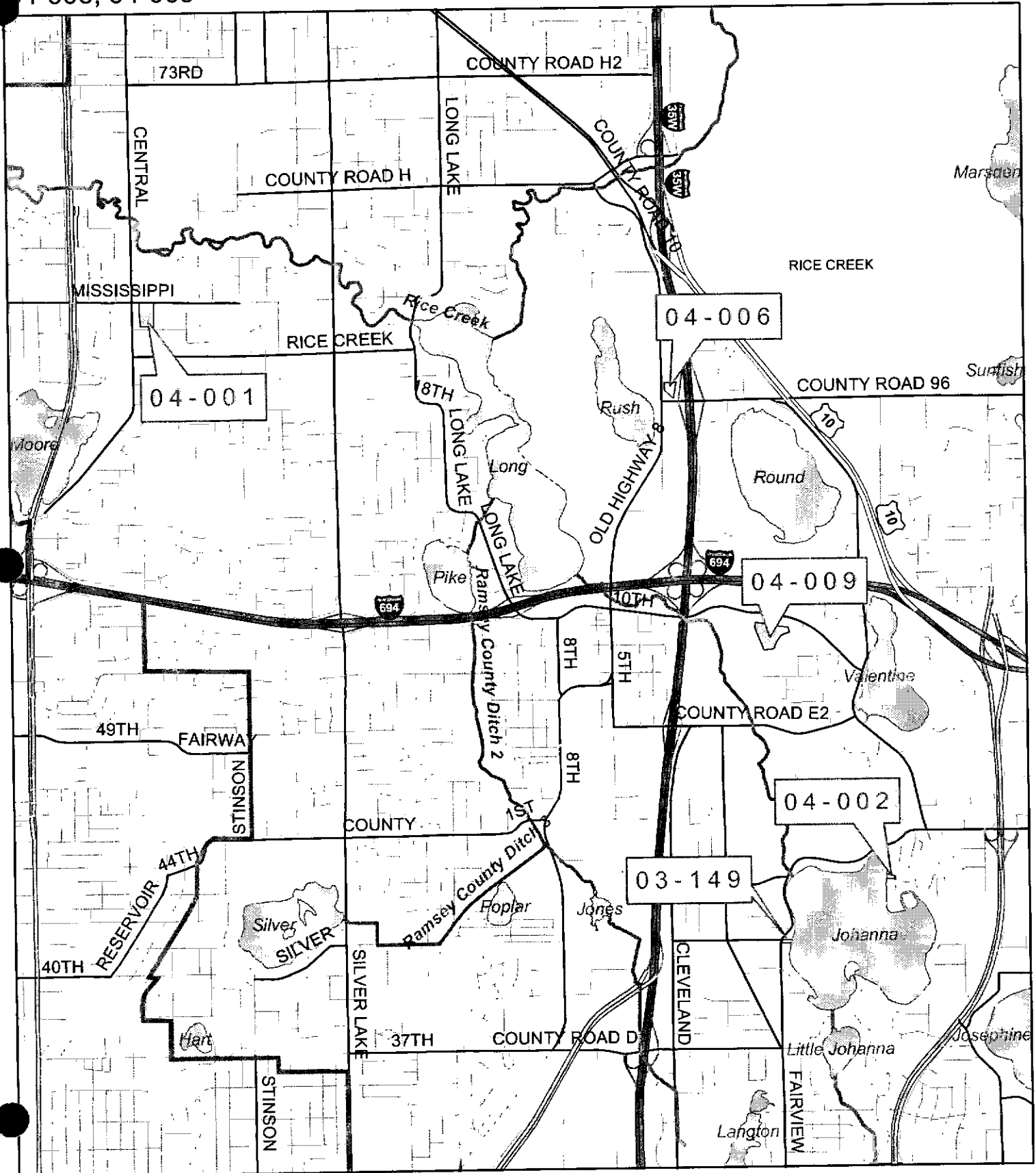
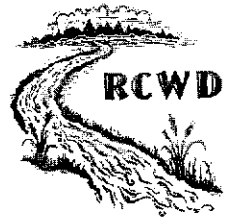
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04-006, 04-009



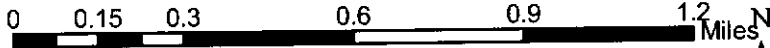
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- Ditches
- Permits
- RCWD Boundary

- Interstate Highway
- US Highway
- State Highway
- County Road
- City Streets

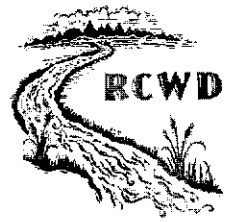


# RCWD Permit Locations

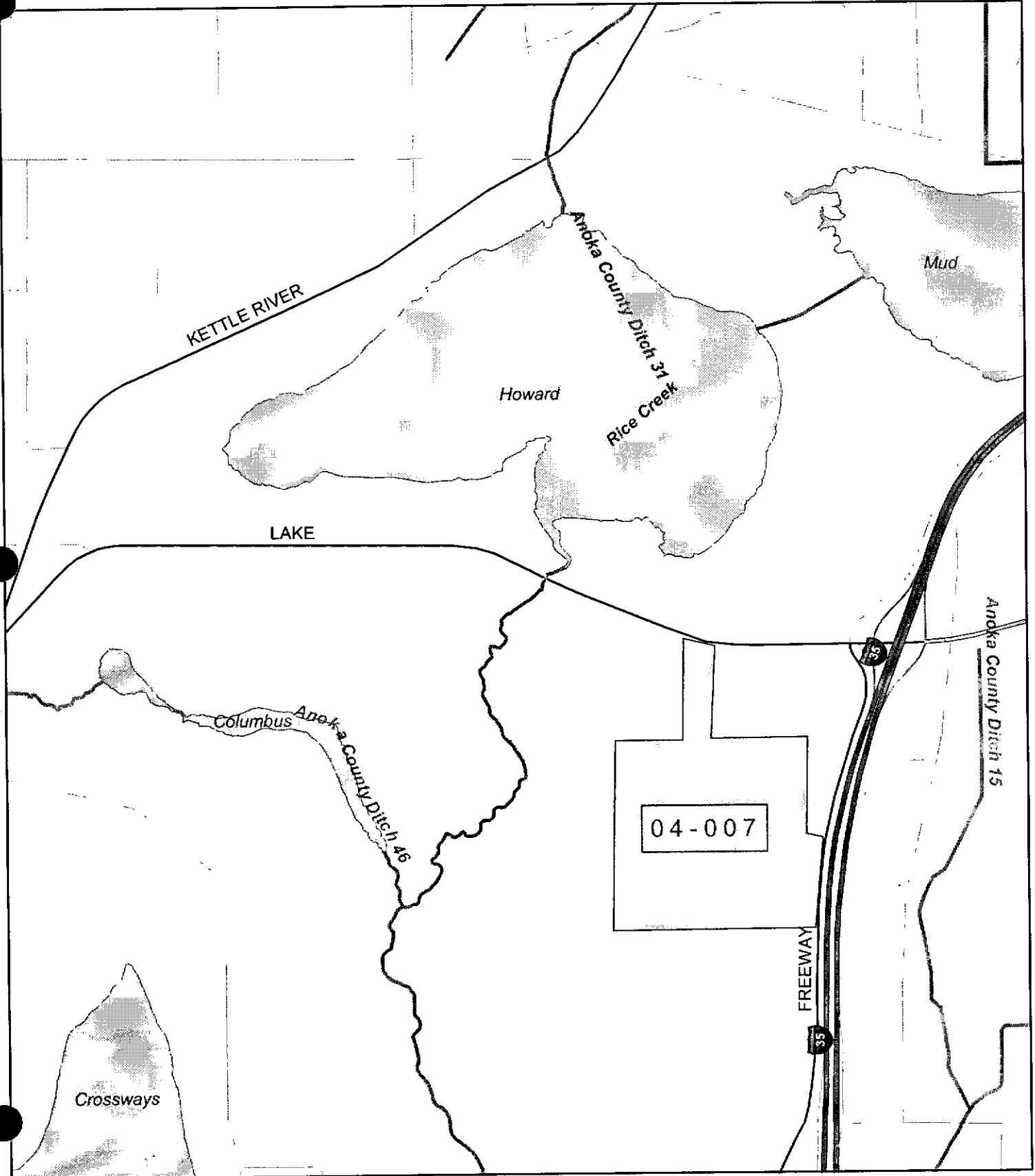
## Legend



- Lakes
- Ditches
- Permits
- RCWD Boundary
- Interstate Highway
- US Highway
- State Highway
- County Road
- City Streets



04-007





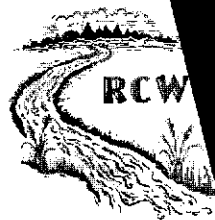
# RCWD Permit Locations

## Legend

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- Lakes
- Ditches
- Permits
- RCWD Boundary

- Interstate Highway
- US Highway
- State Highway
- County Road
- City Streets



01-061, 04-008

04-008

