DATE: May 31, 2006

TO: Plan Commission

FROM: Larry D. Nelson, P.E., City Engineer

SUBJECT: 1224 Felland Road Certified Survey Map

The City Engineering Division has reviewed the subject development and has the following comments.

MAJOR OR NON-STANDARD REVIEW COMMENTS (Comments which are special to the project and/or may require additional work beyond a standard, more routine project.)

- 1. Add City of Madison to the Owner's Certificate.
- 2. Public water main easements must be created by this proposed CSM satisfactory to the Water Utility.
- 3. Renumber the "Nelson" Lot from four (4) to one (1).
- 4. Revise the 33' Access Easement as shown to read 33' Private Access Easement Across Lot 1 (Nelson Lot) Exclusively Benefiting Lot 2 (Water Utility Lot).
- 5. Felland Road dedication as required by the City of Madison must be defined from the section line, not the centerline. Unfortunately the southern adjoining CSM 1472 dedicated from the centerline, but Bridle Downs plat and CSM 8422 dedicated from the section / ownership line, and is the required dedication method resulting in the required eighty (80) feet of right-of-way for Felland Road centered on the section line.
- 6. All required Felland Road dedication shall be specific and exclusive to the City of Madison.
- 7. Add the missing bearing and distance for Lot 1 (Nelson Lot) along Felland Road frontage.
- 8. Correct the spelling of "Diana" Nelson listed in the Survey Prepared for note on page 1.
- 9. In addition to the PLSS land ties to both the North and South ¼ corners, include PLSS land tie to Center of Section. Dimension both half mile calls.
- 10. Add the following note: "All lots created by this CSM are individually responsible for compliance with Chapter 37 of the Madison General Ordinances in regards to Stormwater Management."
- 11. Lands within this CSM may be subject to future impact fees for sanitary sewer and/or stormwater management.

12.	The applicant shall be responsible for payment of the Felland Road Neighborhood Impact fee at time of connection to the sewer system.

GENERAL OR STANDARD REVIEW COMMENTS

In addition, we offer the following General or Standard Review Comments:

Engineering Division Review of Plats (Pre-Preliminary, Preliminary, Final) and Certified Survey Maps Name: 1224 Felland Road Certified Survey Map General The Developer shall enter into a City / Developer agreement for the installation of public improvements required to 1.1 serve this plat/csm. The developer shall be required to provide deposits to cover City labor and materials and surety to cover the cost of construction. The developer shall meet with the City Engineer to schedule preparation of the plans and the agreement. The City Engineer will not sign off on this plat/csm without the agreement executed by the developer. Two weeks prior to recording the final plat, a soil boring report prepared by a Professional Engineer, shall be 1.2 submitted to the City Engineering Division indicating a ground water table and rock conditions in the area. If the report indicates a ground water table or rock condition less than 9' below proposed street grades, a restriction shall be added to the final plat, as determined necessary by the City Engineer. Right of Way / Easements \boxtimes 2.1 The Applicant shall Dedicate a 40-foot wide strip of Right of Way along Felland Road. The Applicant shall Dedicate a Permanent Limited Easement for grading and sloping 15- feet wide along Felland Road. M 2.2 It is anticipated that the improvements on [roadway name] _ 2.3 required to facilitate ingress and egress to the plat/csm will require additional right of way and/or grading easements located outside the plat/csm boundary. The developer shall acquire the right of way and/or sloping easements as required by the City at the developer's expense. In the event that the developer is unable to acquire the right of way and/or sloping easements required, the City shall assist the developer in acquiring the property and the developer shall pay the City for all costs associated with the acquisition. The Developer shall petition for the street vacation of (roadway name) ____ a a legal description and sketch of the right of way to be vacated after consultation with the City Engineer. Are the following requirements met? * Streets Intersect at right angles. * A 15 foot minimum tangent at intersections from PC of curve to property line. * Arterial intersection spacing generally greater than 1200 feet. * Jogs are avoided at intersections. Arterial streets shall be adjusted to align if spacing less than 300 feet. * Spacing of intersections on local streets shall be greater than 300 feet. * Cul-de-sacs shall be less than 1000 feet long. * 100 foot tangents between curves. 2.5 2.6 Property lines at intersections shall be rounded with a 15 foot radius on Property lines at intersections shall be rounded with a 25 foot radius on ____ 2.7 2.8 The right of way width on ___ _____ shall be _____ feet, on

shall be _____ shall be

feet.

	2.9	shall have a minimum centerline radius of feet and				
		shall have a minimum centerline radius of feet and shall have a minimum centerline radius of feet.				
	2.10	The cul-de-sac on shall have a minimum radius of feet with a minimum reverse curve radius of feet.				
	2.11	The plat/csm shall show a temporary limited easement for a temporary cul-de-sac on having a radius of feet and a reverse curve radius of feet. The easement(s) shall expire when the streets are extended.				
	2.12	The developer shall show on the plat/csm a 40 foot utility easement adjacent to [roadway name] The easement wording shall be approved by the City Engineer. The intent of the easement is to allow for the relocation of a major transmission line. The actual poles would remain on the right of way however major transmission lines require an easement beyond the space occupied by the poles for safety.				
	2.13	The City Engineer has reviewed the need for pedestrian and bicycle connections through the development and finds that no connections are required.				
	2.14	The Developer shall Dedicate a Permanent Limited Easement for a pedestrian / bicycle easement feet wide from to				
	2.15	The Developer shall provide a private easement for public pedestrian and bicycle use through the property running from to to The developer shall be responsible for				
		the ongoing construction and maintenance of a path within the easement. The maintenance responsibilities shall include, but not be limited to, paving, repairing, marking and plowing. The developer shall work with the City of Madison Real Estate Staff to administer this easement. Applicable fees shall apply.				
Streets	and Sid	ewalks				
	3.1	The Developer shall construct Madison Standard street improvements for all streets within the plat/csm.				
	3.2	The developer shall show a 30 40 (<i>Strike one, 30 collector, 40</i> adjacent to [<i>Roadway Name</i>] for all lots in the plat/csm adjacent to said roadway.				
		Note: No buffer strip shall be dedicated to the City as the City does not want the maintenance.				
	3.3	Extensive grading may be required due to steep roadway grades.				
	3.4	The developer shall note that City funds for park frontage are limited and will be determined at the sole discretion of the City.				
	3.5	The developer shall construct sidewalk and record a waiver of their right to notice and hearings for the assessments for the improvement of [roadway] in accordance with Section 66.0703(7)(b) Wisconsin Statutes and Section 4.09 of the MGO. Said sidewalk constructed in front of and waiver recorded to Lot(s)				
	3.6	The Developer shall make the following improvement to [Roadway Name] The Developer shall construct sidewalk and feet of a future foot roadway including curb and gutter on the side of the roadway.				
	3.7	The Developer shall construct sidewalk to a plan approved by the City Engineer and complete ditching as required by the City Engineer along [Roadway Name]				
	3.8	The Developer shall grade the right of way line to a grade established by the City Engineer and complete ditching along the roadway as specified by the city engineer along [Roadway Name]				
	3.9	Value of sidewalk installation over \$5000. The Applicant shall Construct Sidewalk to a plan approved by the City Engineer along (Also require the City / Developer agreement line 1.1)				
	3.10	Value of sidewalk installation under \$5000. The Applicant shall install public sidewalk along The Applicant obtain a Street Excavation Permit for the sidewalk work, which is available from the City Engineering Division. The applicant shall all fees associated with the permit including inspection fees. All work must be completed within six months or the succeeding Junewhichever is later.				
	3.11	The Applicant shall execute a waiver of their right to notice and hearings on the assessments for the installation of sidewalk along [roadway] in accordance with Section 66.0703(7)(b) Wisconsin Statutes and section 4.09 of the MGO.				
	3.12	The Applicant shall grade the property line along to a grade established by the City Engineer. The grading shall be suitable to allow the installation of sidewalk in the future without the need to grade beyond the				

		property lin	e. The Applicant shall obtain a Street Excavation permit prior to the City Engineer signing off on	this development.		
	3.13	Developer shall make improvements to [Roadway Name] considered temporary to facilitate ingress and egress to the plat/csm until such time as the ultimate improvement of the roadway is undertaken by the city.				
	3.14	The Developer shall make improvements to [Roadway Name] to facilitate ingress egress to the plat/csm.				
	[Selec	ct one of the l	below comments for either of the above or leave general] The above improvement will consist of acceleration and deceleration			
			tapers.			
			The above improvement consists of rights turn lanes. The above improvement will consist of passing lanes.			
			The above improvement will consist of median openings.			
			Caution – The improvements indicated above may require right of way outside of the plat/csm. require additional right of way for this purpose.	See comment 2.3 to		
	3.15	The developer shall note the AASHTO design standards for intersection sight distance will be applied during the design of the streets within this plat/csm.				
	3.16	The develo	per shall confirm that adequate sight distance exists on	where		
		public streets intersect. If adequate sight distance does not exist, the developer shall change the location of the street intersection or agree to make improvements to the roadways such that the sight distance is achieved or make other mitigating improvements as required by the City.				
	3.17		All proposed street names shall be approved by the City Engineer. Applicant shall contact Lori Zenchenko (608-266-5952) with street name requests.			
	3.18	Installation	of "Private" street signage in accordance with 10.34 MGO is required.			
Storm '	Water M	anagement				
	4.1	An erosion control plan and land disturbing activity permit shall be submitted to the Engineering Division for review and approval prior to grading or any other construction activities. The Preconstruction Meeting for Public Improvements shall not be scheduled prior to issuance of this permit. The applicant shall demonstrate compliance with Section 37.07 and 37.08 of the Madison General Ordinances regarding permissible soil loss rates. The erosion control plan shall include Universal Soil Loss Equation (USLE) computations for the construction period. Measures shall be implemented in order to maintain a soil loss rate below 7.5-tons per acre per year.				
\boxtimes	4.2	The following	ng notes shall be included on the final plat:			
		me: of the sha me: driv sha be p	lots within this plat are subject to public easements for drainage purposes which shall be a minima asured from the property line to the interior of each lot except that the easements shall be 12-feethe plat. For purposes of two (2) or more lots combined for a single development site, or where two driveway agreement, the public easement for drainage purposes shall be a minimum of six (6 asured only from the exterior property lines of the combined lots that create a single development veway agreement, except that the easement shall be twelve (12) feet in width along the perimeter all not be required on property lines shared with greenways or public streets. No buildings, drivew placed in any easement for drainage purposes. Fences may be placed in the easement only if the icipated flow of water.	in width on the perimeter (a) (2) or more lots have a (b) feet in width and shall be a site, or have a shared of the plat. Easements rays, or retaining walls shall		
		REI PU	TE: IN THE EVENT OF A CITY OF MADISON PLAN COMMISSION AND/OR COMMON COUNDIVISION OF A PREVIOUSLY SUBDIVIDED PROPERTY, THE UNDERLYING PUBLIC EASENT RPOSES ARE RELEASED AND REPLACED BY THOSE REQUIRED AND CREATED BY THE BDIVISION.	MENTS FOR DRAINAGE		
		acc	e intra-block drainage easements shall be graded with the construction of each principle structure cordance with the approved storm water drainage plan on file with the City Engineer and the Zoning ministrator, as amended in accordance with the Madison General Ordinances.			
	4.3	street. In a	all be added to the certified survey map indicating the direction of drainage for each property line addition, the certified survey map shall include lot corner elevations, for all lot corners, to the near otes shall be added to the certified survey map.			
		the	ows indicate the direction of surface drainage swale at individual property lines. Said drainage swale at individual property lines. Said drainage swale construction of each principal structure and maintained by the lot owner unless modified with the gineer. Elevations given are for property corners at ground level and shall be maintained by the	e approval of the City		
		wid	lots within this certified survey are subject to public easements for drainage purposes which shall th measured from the property line to the interior of each lot except that the easements shall be 1 imeter of the certified survey. For purposes of two (2) or more lots combined for a single develop	2-feet in width on the		

or more lots have a shared driveway agreement, the public easement for drainage purposes shall be a minimum of six (6) feet in width and shall be measured only from the exterior property lines of the combined lots that create a single development site, or have a shared driveway agreement, except that the easement shall be twelve (12) feet in width along the perimeter of the certified survey. Easements shall not be required on property lines shared with greenways or public streets. No buildings, driveways, or retaining walls shall be placed in any easement for drainage purposes. Fences may be placed in the easement only if they do not impede the anticipated flow of water.

	only if they do not impede the anticipated flow of water.				
4.4	Prior to the issuance of building permits, the Developer shall submit a master stormwater drainage plan to the City Engineering Division for review and approval which shows lot corner elevations to the nearest 0.25-foot. For purposes of the plan, it shall be assumed that grading shall be done on a straight line grade between points unless other information is provided. The proposed slope between points shall always be greater than or equal to .0075 ft/ft. If a break in grade is required between lot corners a shot shall be taken at that break in grade to provide the Engineer with enough information to interpret the plan. The Developer shall also show proposed drainage arrows on the plan to indicate the proposed direction of drainage.				
	The master storm water drainage plan shall be submitted to City Engineering in digital format with elevations/grades/contours shown on the recorded plat map of the development. The digital record shall be provided using the state plane coordinate system – NAD 27.				
	The following note shall accompany the master storm water drainage plan:				
	a. For purposes of this plan, it is assumed that grading shall be a straight line grade between points unless otherwise indicated. All slopes shall be 0.75% or steeper. Grade breaks between lot corners are shown by elevation or through the use of drainage arrows.				
	No building permits shall be issued prior to City Engineering's approval of this plan.				
4.5	If the lots within this certified survey map are inter-dependent upon one another for storm water runoff conveyance, and/or a prival drainage system exists for the entire site an agreement shall be provided for the rights and responsibilities of all lot owners. Said agreement shall be reviewed and placed on file by the City Engineer, referenced on the certified survey map and recorded at the Co Register of Deeds.				
4.6	The following note shall be added to the certified survey map. "All lots created by this certified survey map are individually responsible for compliance with Chapter 37 of the Madison General Ordinances in regard to storm water detention at the time they develop."				
4.7	This plat/csm could affect a flood plain, wetland or other sensitive areas. As such, it shall be reviewed by the Commission on the Environment. Contact Mike Dailey at 266-4058 for further details. The proposed plat/csm may be considered a major change to the environmental corridor and be subject to a public hearing and approval of the Dane County Regional Plan Commission.				
4.8	A portion of this plat/csm may come under the jurisdiction of the US Army Corp of Engineers and Wisconsin Department of Natural Resources for wetland or flood plain issues or navigable waterway. A permit for those matters may be required prior to construction o any of the lots currently within the plat/csm. Contact the WDNR & USACOE for a jurisdictional determination.				
4.9	Prior to recording the plat/csm, the applicant shall comply with Chapter 37 of the Madison General Ordinances regarding stormwater management. Specifically, this development is required to:				
	 □ Detain the 2 & 10-year storm events. □ Detain the 2, 10, & 100-year storm events. □ Control 40% TSS (20 micron particle). □ Control 80% TSS (5 micron particle). □ Provide infiltration in accordance with NR-151. □ Provide substantial thermal control. □ Provide oil & grease control from the first 1/2" of runoff from parking areas. Stormwater management plans shall be submitted and approved by City Engineering prior to signoff.				
4.10	This site is greater than one (1) acre and the applicant is required by State Statute to obtain a Notice of Intent Permit (NOI) from the Wisconsin Department of Natural Resources. Contact Jim Bertolacini of the WDNR at 275-3201 to discuss this requirement.				
4.11	NR-151 of the Wisconsin Administrative Code will be effective on October 1, 2004. Future phases of this project shall comply with NF 151 in effect when work commences. Specifically, any phases not covered by a Notice of Intent (NOI) received from the WDNR unde NR-216 prior to October 1, 2004 shall be responsible for compliance with all requirements of NR-151 Subchapter III. As most of the requirements of NR-151 are currently implemented in Chapter 37 of the Madison General Ordinances, the most significant additional requirement shall be that of infiltration.				

Residential developments shall infiltrate 90% of the predevelopment infiltration amount, 25% of the runoff from the 2-year post development storm or dedicated a maximum of 1% of the site area to active infiltration practices.

NR-151 requires infiltration in accord with the following criteria. For the type of development, the site shall comply with one of the three

Commercial development shall infiltrate 60% of the predevelopment infiltration amount, 10% of the runoff from the 2-year post development storm or dedicate a maximum of 2% of the site area to active infiltration practices.

(3) options provided below:

	4.12	A minimum of two (2) working days prior to requesting City Engineering signoff on the plat/csm the applicant shall contact Janet Gebert (608-261-9688) to obtain the final stormwater utility charges that are due and payable prior to sub-division of the properties. The stormwater utility charges (as all utility charges) are due for the previous months of service. All charges shall be cleared prior to the land division (and subsequent obsolesces of the existing parcel).					
Sanitary	Sewer						
\boxtimes	5.1	_	All outstanding Madison Metropolitan Sewerage District (MMSD) and City of Madison sanitary sewer connection charges are due and payable prior to connection to the public sewerage system.				
	5.2	Each unit of a duplex building shall be served by a separate and independent sanitary sewer lateral.					
	5.3	This land division contains or is adjacent to facilities of MMSD. Prior to approval, applicant shall provide evidence that MMSD has reviewed and approved the proposed land division.					
Mapping	/ Land	Records					
	6.1	Wisconsin Administrative Code A-E 7.08 identifies when Public Land System (PLS) tie sheets must be filed with the Dane County Surveyor's office. The Developer's Surveyor and/or Applicant must submit copies of required tie sheets or condition reports for all monuments, including center of sections of record, used in this survey, to Eric Pederson, City Engineering. If a new tie sheet is not required under A-E 7.08, Engineering requests a copy of the latest tie sheet on record with Dane County Surveyor's office. The Applicant shall identify monument types on all PLS corners included on the Plat or CSM. Note: Land tie to two PLS corners required.					
	6.2	In accordance with Section s. 236.18(8), Wisconsin Statutes, the Applicant shall reference City of Madison WCCS Dane Zone , 1997Coordinates on all PLS corners on the Plat or Certified Survey Map in areas where this control exists. The Surveyor shall identify any deviation from City Master Control with recorded and measured designations. City of Madison has established WCCS, Dane Zone Coordinates on all PLS corners within its corporate boundary. Visit the City of Madison Engineering Division web address http://gis.ci.madison.wi.us/Madison_PLSS/PLSS_TieSheets.html for current tie sheets and control data. If a surveyor encounters an area without a published WCCS Dane Zone 1997 value, contact Engineering Division for this information.					
	6.3.	The Applicant shall submit to Eric Pederson, prior to Engineering sign-off of the subject plat, two (2) digital and one (1) hard copy of the final plat/CSM to the Mapping/GIS Section of the Engineering Division. The digital copies shall be subreboth NAD27 & WIDOT County Coordinate System, Dane County Zone datums in either Auto CAD Version 2001 or old MicroStation Version J or older or Universal DXF Formats and contain the minimum of the following, each on a separame/level number:					
		a. b. c. d. e. f.	Right-of-Way lines (public and private) Lot lines Lot numbers Lot/Plat dimensions Street names Easement lines (i.e. street, sanitary, storm (including wetland & floodplain boundaries) water, pedestrian/bike/walkway, or any public and/or private interest easement except local service for Cable TV, gas, electric and fiber optics). NOTE: This transmittal is a separate requirement than the required submittals to Bob Arseneau for design purposes.				
			NOTE: New electronic final plat transmittals and notification of changes which occur to the final plat during the time the Engineering Division signs off and receives the digital copies of said plat and the recording thereof, are the responsibility of the Developer/Surveyor.				
		Wisconsi difference	ance with Section s.236.34(1) (c) which says a CSM shall be prepared in accordance with s.236.20(2) (c) & (f), in Statutes, the Applicant must show type, location and width of any and all easements. Clearly identify the elebetween existing easements (site Register of Deeds recording data) and easements which are being conveyed at/CSM. Identify the owner and/or benefiting interest of all easements.				