

DESIGN & CONSTRUCTION MANUAL DESIGN CRITERIA MODIFICATION REQUEST

PROJECT NAME: <u>Petsites – Lee's Summit, MO</u>					
ADDRESS: <u>250 NW McNary Court</u>					
PERMIT NUMBER: <u>PL2021039</u>					
OWNER'S NAME: TM Crowley – Owner Under Contract					
TO: Deputy Director of Public Works / City Engineer					
In accordance with the City of Lee's Summit's Design and Consmodification to one or more provisions of the code as I feel that the public health, welfare and safety are assured. The following action. (NOTE: Cite specific code sections, justification and all We are requesting this waiver for section 5601.5.A.4.a — defaution this submittal are the construction documents and storm removing the requirement for the peak runoff control for the existing trees to the west of the project. To meet the requirement remain.	at the spirit and intent of the DCM is observed and ng articulates my request for your review and appropriate supporting documents.) alt strategy: comprehensive Protection Attached water report that contains the justification for 1%, 10% and 50% to accommodate leaving the				
SUBMITTED BY: NAME: _Matt Fogarty ADDRESS: 100 Midland Park Drive	() OWNER (x) OWNER'S AGENT PHONE #: 314-925-744				
CITY, STATE, ZIP: _Wentzville, MO 63385 Email: mfogarty@premiercivil.com_	SIGNATURE:				
KENT MONTER, P.E. DEVELOPMENT ENGINEERING MANAGER SIGNATURE:	(X) APPROVAL () DENIAL DATE:				
JEFF THORN, P.E. WATER UTILITIES ASSITANT DIRECTOR OF ENGINEERING SERVI SIGNATURE:	. ,				
GEORGE M. BINGER III, P.E. DEPUTY DIRECTOR OF PUBLIC WORKS/CITY ENGINEER SIGNATURE:	(X) APPROVED () DENIAL DATE: 12 April 2021				
The Development Engr. Group supports the comments: rates for the proposed site. (The disturbed a routed through the basin, do meet the allowed)	areas of the project, that are able to be able release rates.) We are in concurrence				
that removing the existing vegetated area to worse from a water quality standpoint than t	the west of the proposed building would be				
area through the detention basin. The appli					
in runoff from existing to post development.	The state of the s				

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Summarization and Conclusions

Impacts to downstream sewers and streams have been mitigated to the maximum extent practical. This project provides filters via catch basin inserts for interim stormwater protection and a vegetated basin which meets the requirements for orifice size for water quality. Due to the existing conditions and topography of the site, we have mitigated the water quality and detention requirements set forth by the city for the area that is being disturbed. The area that is not being disturbed is the existing woodland which will remain in place. The basin location as shown on the plans is best suited based on the existing storm sewer and protecting the existing woodland to the west.

The listed waivers as shown below are being requested for the post developed condition to allow the increase from the allowable release rate due to the Bypass Areas associated with the existing vegetation to remain instead of routing those areas to the basin. This waiver would be for the 2 Year, 10 Year and 100 Year Events. The proposed project will increase the impervious surface however it will reduce the runoff for the overall disturbed area per APWA 5600. This project proposes that areas that will route through the detention will meet the allowable release rate. The bypass areas consist of existing woodlands that will remain in place therefore to meet the requirements we would have to remove the existing vegetation in place.

The water quality orifice size is 1" for this project. This will allow for the water quality orifice size to meet the City's requirements while being slightly lower for the volume due to the decreased area to the basin. We are reducing the overall runoff for this project. While we are requesting waivers, this is only due to limiting the disturbed area to keep the woodlands in place.

	<u>Column A</u>	<u>Column B</u>	<u>Column C</u>	<u>Column D</u>	<u>Column E</u>	<u>Column F</u>	<u>Column G</u>	<u>Column H</u>
	Existing Conditions (c.f.s.)	Post Developed Condition Overall Site (No. Detention) (c.f.s.)	Allowable release rate (c.f.s.)	Post Developed Basin Discharge (c.f.s.)	Undisturbed Bypass Areas (c.f.s.)	Post Developed Condition Final Routing (Column D + Column E) (c.f.s.)	Differential Runoff Post Developed to Existing (Column F - Column A) (c.f.s.)	Increase or Reduction for Runoff from Existing to Proposed Condition
2 Year	4.12	6.76	1.06	0.92	1.58	<mark>2.50</mark>	-1.62	Reduction
10 Year	8.74	12.44	4.22	3.45	3.11	<mark>6.56</mark>	-2.18	Reduction
100 Year	15.43	20.17	6.33	5.11	5.27	10.38	-5.05	Reduction



