



AGENDA ITEM: ?

MEETING DATE: 1/25/2012

SUBMITTED BY: Melissa Morin, Civil Engineer

DESCRIPTION: Changes to Municipal Code regarding water booster pumps

SUMMARY: Water & Power staff previously brought this item to the LUC on June 18, 2008. The item was discussed and the motion passed unanimously. Staff then presented this item to the Construction Advisory Board (CAB) on July 23, 2008. CAB members had several concerns regarding the ordinance being presented at that time. Most importantly CAB had requested that any modification ensure that flexibility is allowed in the design of irrigation systems for irrigators who are faced with lower than expected system water pressures. Water & Power has reviewed CAB's concerns and modified the ordinance.

The attached ordinance describes the following three (3) code amendments:

Section 1:

The change to Chapter 13.04 clarifies that all domestic water pressure booster systems (for interior domestic, commercial, and industrial plumbing and fire suppression) shall be designed to the International Plumbing Code. This clarification will convey to the public that booster pumps are allowed for interior plumbing systems and are not affected by the prohibition of irrigation booster pumps as described in Section 3

Section 2:

The first change to Chapter 19.06 revises the table within part A to remove the city's guarantee to deliverable flow through an irrigation meter. The Table was revised to omit meters greater than 1 inch in size; this is due to the development of better design in larger meters. The Table was also revised to clarify that flows listed in the table are stipulated as maximum flows, if available (*ie, if the pressures and capacity of the City's potable system will provide them*). Due to variability within the water distribution system, the City does not guarantee water flows for a specific meter size.

Section 3:

The final change to Chapter 19.06 provides an authority in the Municipal Code for the city to prohibit irrigation booster pumps connected directly (piped, with no air-gap) to the city's potable water system.

Department concerns related to irrigation pump systems include:

1. Booster pumps directly connected (piped) to the city's water distribution system present an increased cross connection risk to the public's health and safety. The Department's responsibility is to minimize these risks in providing safe, potable drinking water.
2. The Department cannot rely on an HOA's expertise, funding, and maintenance programs to properly maintain irrigation pumps and guarantee the public's health and safety.
3. The Department's water system responsibility ends at the water meter. Therefore all water system features installed downstream of the meter are considered the Owner's service line (private) and are not reviewed, monitored, or inspected by the Department.
4. The Department will continue to allow flexibility in irrigation design for those systems which provide an air-gap between the city's potable water distribution system and the proposed, private irrigation system.
5. There is adequate pressure throughout the city's water system to supply irrigation flows without the use of private booster pumps. Areas with minimum system pressure goals (25 to 40 psi) may require irrigation system designers to increase their design effort to develop an adequate irrigation distribution system. Modern irrigation systems can operate on low pressures (as low as 25 psi) with proper design efforts.
6. Installation of pumps on irrigation taps can result in flows that exceed the rated capacity of the water meters, leading to inaccurate billing and increased meter maintenance costs incurred by the City.
7. Installation of pumps on irrigation taps can result in a negative impact to adjacent tap holders (i.e., lower water pressures). In worst-case scenarios, this impact may lower system water pressures below the City's minimum pressure service goals.

These concerns were echoed by a majority of neighboring front-range cities and water districts that also prohibit irrigation pumps. Staff conducted a survey that found fifteen of the seventeen water providers contacted do not allow irrigation booster pumps for the reasons outlined above.

Except for Hydrozone plans the Department does not review irrigation design plans, thus some authority needs to be added to the Municipal Code to strengthen the Department's authority to prohibit them from being installed within the system and to remove any existing installed irrigation pumps.

Staff brought the revised item to the LUC on December 14, 2011 as part of the Staff Report (information only) and is planning on bringing it back to LUC after this meeting with CAB. Initial comments from the LUC meeting concerned "gandfathering in" existing irrigation booster pumps so additional language was added to Section 2.

RECOMMENDATION:

That CAB adopt a motion recommending that city council adopt an ordinance amending Chapter 13.04 and Chapter 19.06 of the Loveland Municipal Code concerning booster pumps.

REVIEWED BY DIRECTOR:



FIRST READING September 5,

201208

SECOND READING _____

ORDINANCE NO. _____

**AN ORDINANCE AMENDING CHAPTER 13.04 AND CHAPTER 19.06
OF THE LOVELAND MUNICIPAL CODE CONCERNING BOOSTER
PUMPS**

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE
CITY OF LOVELAND, COLORADO:**

Section 1. That Chapter 13.04 of the Loveland Municipal Code is hereby amended by addition of a new Section 13.04.207 to read as follows:

13.04.207 Domestic water pressure booster systems.

All domestic water pressure booster systems shall meet the requirements of the International Plumbing Code, as adopted by the city.

Section 2. That Section 19.06.060A & B. of the Loveland Municipal Code is hereby amended to read as follows:

19.06.060 Dedicated irrigation meter capacity.

A. Irrigation systems utilizing dedicated irrigation meters shall be designed based on the following delivery capacitiesavailable flow through the meter at the project site, but shall not exceed the flows set forth in the following table:

Meter Size	<u>Maximum</u> Continuous Design Flow <u>(If Available)</u>
¾ inch	15 gallons per minute
1 inch	25 gallons per minute
<u>1½ inch</u>	<u>50 gallons per minute</u>
<u>2 inch</u>	<u>80 gallons per minute</u>
<u>3 inch</u>	<u>175 gallons per minute</u>
<u>4 inch</u>	<u>300 gallons per minute</u>

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For meters larger than 1-inch, the irrigation system designer is responsible for verifying minimum system pressures occurring seasonally and throughout the day (especially during peak demand periods).

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~~B. An orifice plate shall be installed in every dedicated irrigation meter to prevent the meter from exceeding its continuous design flow and to protect the integrity of the meter. The cost of the orifice plate and installation shall be the responsibility of the irrigator.~~

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Section 3. That Chapter 19.06 of the Loveland Municipal Code is hereby amended by addition of a new Section 19.06.065 to read as follows:

19.06.065 Irrigation booster pumps prohibited.

The installation of an irrigation booster pump in water service lines that are directly fed by the city's water distribution system is prohibited.

Section 4. That as provided in City Charter Section 4-9(a)(7), this Ordinance shall be published by title only by the City Clerk after adoption on second reading unless the Ordinance has been amended since first reading in which case the Ordinance shall be published in full or the amendments shall be published in full. This Ordinance shall be in full force and effect ten days after its final publication, as provided in City Charter Section 4-8(b).

ADOPTED this ____ day of _____, 20~~12~~08.

Eugene N. Pielin, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

Assistant City Attorney



DEVELOPMENT SERVICES Current Planning

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December 7, 2011

Announcement: Development Review Fee Increases for 2012

Development Community Customer:

This fall, as part of the 2012 budget process, the Loveland City Council adopted an amended fee schedule for development review applications. The attached fee schedule highlights the new fees that will go into effect on January 1, 2012.

With one exception, the fee changes reflect the establishment of charges for application types that the City has not charged for in the past. For example, fees have been established for the review of Traffic Impact Studies; the fee will depend on the level of study required. As with traffic studies, the new fee schedule represents an effort to more closely align application fees with the average amount of time it takes for staff to review the respective application types. The new fees are intended to recover approximately 50% of the direct personnel costs associated with the review of these applications.

Notwithstanding the new fee increases, Loveland's development review fee schedule remains competitive when compared to comparatively-sized communities in the region.

Should you have any questions about the 2012 fee schedule, please call or email me using the contact information below.

Respectfully,

Bob Paulsen, AICP

Current Planning Manager

City of Loveland

(970) 962-2670

paulsr@ci.loveland.co.us

CITY OF LOVELAND
SCHEDULE OF RATES, CHARGES AND FEES FOR 2012

Description	2012 Fee
DEVELOPMENT SERVICES DEPARTMENT	
Planning Filing Fees:	
Traffic Impact Study (TIS) Memorandum.....	\$150.00
Intermediate/Full TIS.....	\$360.00
Site Development Plan.....	\$100.00
Environmentally Sensitive Areas Report.....	\$200.00
Administrative Variations.....	\$60.00
Zoning Verification Letter.....	\$60.00
Major Amendment to GPD/PDP.....	\$750.00
PUD Minor Amendment.....	\$300.00
Appeal to Planning Commission.....	\$300.00
Appeal to City Council.....	\$180.00
Development and Annexation Agreements.....	\$300.00
Revisions development and annexation agreements.....	\$150.00
Planned Sign Program.....	\$300.00
Civil Improvement Construction Plans, per sheet.....	\$20.00
Revisions to approved Civil Improvement Construction Plans, per sheet.....	\$20.00
Annexation & PUD Zoning.....	\$800.00
Plus, for up to 400 acres, per acre.....	\$35.00
Plus, above of 400 acres, per acre.....	\$3.00
Annexation & Zoning, other than PUD.....	\$800.00
Plus, for up to 400 acres, per acre.....	\$25.00
Plus, above 400 acres, per acre.....	\$2.00
Annexation Publication and Recording Fee.....	\$1,500.00
PUD General Development Plan.....	\$800.00
Plus, up to 1,200 acres, per acre.....	\$10.00
Plus, above 1,200 acres, per acre.....	\$3.00
PUD Preliminary Development plan.....	\$800.00
Plus, per dwelling unit or per acre.....	\$2.00
PUD Final Development Plan.....	\$800.00
Plus, per dwelling unit or per acre.....	\$2.00
Major Subdivision - Preliminary plat.....	\$600.00
Plus, per lot or per acre.....	\$5.00
Major Subdivision - Final plat.....	\$700.00
Plus, per lot or per acre.....	\$5.00
Minor Subdivision.....	\$300.00
Special Review.....	\$500.00
Special Review, minor modification.....	\$150.00
Rezoning.....	\$500.00
Vacation Request.....	\$200.00
Plus, per acre.....	\$100.00
Vested Rights Request.....	\$100.00
Plan Submittal In Excess of 3 Rounds, percentage of original fee	50%

 Fees highlighted in yellow are new fees

 Fees highlighted in blue are increased fees

CONSTRUCTION ADVISORY BOARD (CAB) WORK PROGRAM 2011					
Title	Scope	Description	CAB Member	Proposed Time for Each Item	Comments
2012 International Code Series (Group 1)	Review of 2012 ICC International Codes with State of Colorado unfunded mandates.	Study and evaluation of the ICC construction documents as it relates to the City of Loveland. Possible amendments proposed.	Est. subcommittees		Complete end of 2012
Construction Advisory Board/Contractor & Use Tax Training (Group 2)	Set up annual designated training meetings on use tax issues with Use Tax Office/Finance	Assist the local contracting community in training, understanding and better preparation to the use tax issue	Hawkinson/Finance Division		Mar. 13, June 12, Sept. 11, Dec. 11, 2011 all 10:30-12:00 IT Lab
ICC International Green construction Code (Group 3)	Incorporates green construction practices similar to LEED	Research and process to the most effective types and means of consumer information	Hawkinson/CAB		Monitor
Online Services for Applicants, Plan Reviews and Inspection (Citizen Access) (Group 4)	Bring the City of Loveland programs for plan review & inspections to current technologies available.	Using examples such as Larimer County & Ft. Collins and others as local sites, study the tools available to create a similar system for the City of Loveland.	Hawkinson/IT		Completed Feb 1, 2012
CEF review & update presentation	Evaluate Capital Expansion Fee structure	Executive Economic Advisor recommendations on CEF structure	Krcmarik		Bi annual updates

Colorado Chapter, ICC
Legislative Update
2011 Session
Tuesday, January 17, 2012

Bill Number	Sponsor	Committee	Title	Impact on Local Gov't	Schedule	History	Position
			CONCERNING A PROHIBITION ON A LOCAL GOVERNMENT REQUIRING THE INSTALLATION OF SPRINKLERS IN A SINGLE-FAMILY DWELLING.	This bill would undermine local gov'ts ability to determine what is best for its citizens. It also appears that it would require jurisdictions with residential sprinkler ordinances to repeal them.			Oppose as undermining local authority
HB 1002	House: Sonnenberg Senate: Jahn	House: Econ & Bus Dev	CONCERNING THE RULES OF STATE AGENCIES APPLICABLE TO APPLICATIONS FOR PERMITS.	This bill creates the "CLEAR Act" (Creating Level Expectations for Application Review), in other words if you have submitted for a permit and the State adopts a new code but hasn't had a rule making hearing, then you are grandfathered under the old code unless it is determined to be detrimental to the applicant. No impact on local gov't.	Not scheduled	1/11: Intro in House	Monitor
HB 1004	House: Bradford Senate: King, S	House: Econ & Bus Dev	CONCERNING REQUIRING LOCAL BUILDING CODES TO ALLOW THE USE OF LUMBER MILLED FROM CERTAIN TREES AS BUILDING FRAMING MATERIAL.	This bill is unnecessary since the IBC and the IRC do not prohibit the use of lodgepole pine or Englemann spruce regardless if it is beetle killed or not. If the lumber is graded and stamped appropriately, it is a viable product. This bill requires preference to these species. See HB 1045.	Tue, 1/24 @ 1:30p in Rm 0112	1/11: Intro in House	Oppose as unnecessary

P.I. = Postponed Indefinitely means that the bill was killed in committee

Unam'd = unamended

Am'd = amended

Am'ts = amendments

Appro = Appropriations

Colorado Chapter, ICC
Legislative Update
2011 Session
Tuesday, January 17, 2012

HB 1015	House: Holbert Senate: Neville	House: Econ & Bus Dev	CONCERNING THE PROCEDURE FOR THE REVIEW OF A PROPOSAL TO REGULATE AN UNREGULATED PROFESSION OR OCCUPATION.	This bill is the same bill that was introduced and amended in HB11-1144 to streamline the Sunrise process. HB11-1144 was PI last year and should again this year. Could circumvent local gov't input in the Sunrise process.	Thu, 1/19 @ 1:30p in Rm 0112	1/11: Intro in House	Oppose
HB 1025	House: Tyler Senate: (None)	House: State, Vets & Mil Affairs	CONCERNING THE ESTABLISHMENT OF A REGULATOR NAVIGATOR.	This bill is to create a one stop location for anyone in Colorado to go to find the person in state or local gov't that they need to contact. May have to participate in providing information to the director of research of legislative council.	Not scheduled	1/11: Intro in House	Monitor unless it becomes an unfunded mandate
HB 1036	House: Kerr, J Senate: (None)	House: Judiciary	CONCERNING CLARIFICATION OF THE EXEMPTION FROM "COLORADO OPEN RECORDS ACT" FOR INVESTIGATIVE FILES.	This would apply to those of us that are compiling investigative files for cases against contractors or citizens and for those of us that have code enforcement responsibilities and have cases for abatement.	Tue, 1/31 @ 1:30p in Rm 0107	1/11: Intro in House	Monitor
HB 1045	House: Bradford Senate: King, S	House: Finance	CONCERNING SALES AND USE TAX EXEMPTIONS FOR THE SALE AND USE OF WOOD FROM TREES HARVESTED IN COLORADO DAMAGED BY BEETLES.	This is the companion bill to HB 1004 above. This bill would extend the exemption of these materials from use tax on these building materials. Loss of revenue to local gov't.	Not scheduled	1/11: Intro in House	Oppose and let sunset in 2013 and 2014 respectively

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SB 006	Senate: Neville House: Hobert	Senate: Bus, Lbr & Tech	CONCERNING THE CREATION OF EFFICIENCIES IN THE STATE REGULATORY SYSTEM.	This bill would require the committee on legal services to appoint a task force to review the state's regulatory system to make improvements or determine if some industry regulated need to go away. Could eliminate redundant services between local and state gov't.	Not scheduled	1/11: Intro to Senate	Monitor
SB 026	Senate: Cadman House: (None)	Senate: Local Gov't	CONCERNING A STATE AGENCY RULE THAT CREATES A STATE MANDATE ON A LOCAL GOVERNMENT.	This bill would prohibit any state agency from creating any rules or regulations that creates an unfunded mandate unless it complying with federal or state law, the agency consults with local gov't prior to promulgation of the rule or if the agency finds the money for local gov't to comply.	Not scheduled	1/11: Intro to Senate	Support
SB 038	Senate: Tochtrop House: Vaad	Senate: Bus, Lbr & Tech	CONCERNING MEASURES TO PROTECT CONSUMERS WHO ENGAGE A ROOFING CONTRACTOR TO PERFORM ROOFING SERVICES ON RESIDENTIAL PROPERTY.	This bill would require certain language be included in any contract for re-roofing. This could potentially be a PITA bill even though there is no language that ties local gov't to it.	Not scheduled	1/11: Intro to Senate	Monitor and change to oppose if any amendment includes local gov't

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