Breaking Down Silos Integrating Water into Land Use Planning

Addressing Water Efficiency in Planned Unit Developments (PUDs)











Senartment of Natural Resources

SPEAKERS

- **Kevin Reidy**, State Water Conservation Technical Specialist
- Don Elliott, FAICP, Clarion Associates
- Mac Cummins, Planning Manager, City of Westminster
- Jason Cowles, P.E., Engineering Department, Eagle River Water & Sanitation District

WHY WE ARE HERE

Objectives:

- Problems with Planned Unit Developments (PUDs) and how to make them a better tool.
- How PUDs can be strengthened to include water efficiency standards.
- Case studies of PUDs in Colorado communities.

WHO'S ON THE CALL

- Local gov't admin
- Local gov't planners
- Elected officials
- Planning or zoning board member
- Water Providers
- Community members
- Others?



AGENDA

- 12:00 12:05
- 12:05 12:25
- 12:25 12:40
- 12:40 12:50 12:50 – 1:00

Welcome The Yin & Yang of PUDs Case Study - City of Westminster, Colorado PUDs and the Role of the Water Provider Question and Answers

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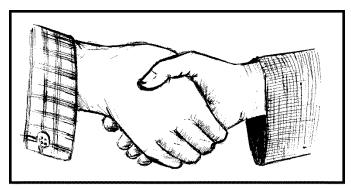
The Yin & Yang of Planned Unit Developments (PUDs)

Don Elliott, FAICP, Clarion Associates

LAND USE LAW CENTER PACE UNIVERSITY SCHOOL OF LAW WWW.LAW.PACE.EDU/LANDUSE

PUDS – What Are They?

- May be called PDs (or something else)
- Customized "one-off" zoning negotiated between the property owner and the city or county
- Yes -Legislatively authorized "spot zoning"
- Can be very detailed if the proposed development for a specific site are known
 - "Snapshot" zoning
- Can be very vague if details or end user of the property is not
 - "Bubble" zoning
 - Almost always requires another round of detailed plan approvals before development



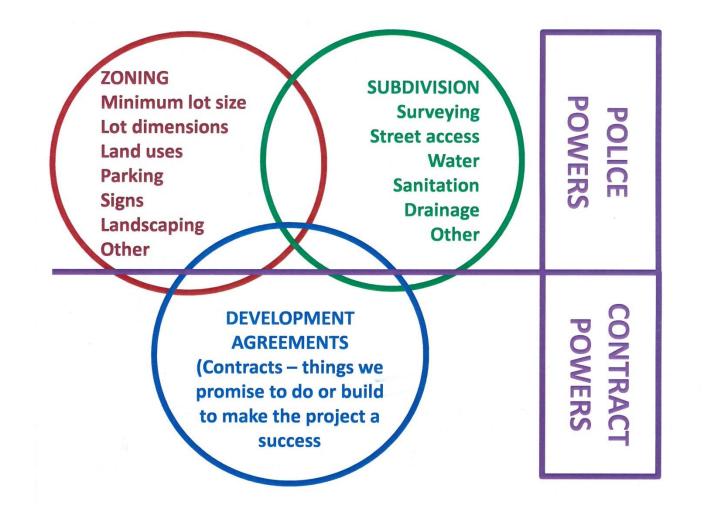
PUDS – What Are They?

- Because they are negotiated and site-specific, they are "part zoning and part contract"
- Often, PUDs include both:
 - A land use regulatory document (covering zoning and/or subdivision) – enforceable through the city or county's "police powers";

AND

 A contract document (covering all the things the local government and the property owner have promised to do or to build) – enforceable through "contract law"





The Good Part

- You can negotiate anything
- You can lock in a "snapshot" of a very desirable development
- You can require things to get built (by either the applicant or the local government) by a stated time – zoning doesn't usually do that.



 For example, the applicant might be willing to install additional trails if the City commits to building connecting trails by a certain date

The Good Part

- You can make a binding agreement to do things that would be hard to enforce through zoning alone
- For example an agreement to install water conserving technology in buildings, or to operate the sites and buildings to conserve more water than the design alone would conserve
- For example an agreement to take on the maintenance of Low Impact
 Development features



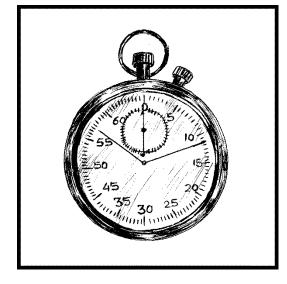
The Good Part

- You can enforce the agreement to do or build something by suing under the contract – rather than withholding land use permits and approvals
 - Withholding permits or approvals could hurt the building tenants or users, when it is the property owner that failed to perform
 - Contract enforcement may allow you to compel the property owner to take an action or pay money damages



The Bad Part

- You can negotiate anything
 - Once you start negotiating everything starts to look like something you should negotiate
 - PUDs often take a lot of time to negotiate and get approved
- Staff cannot memorize all the negotiated details, they have to look it up each time
 - PUDs often take a lot of time to administer on a day-to-day basis



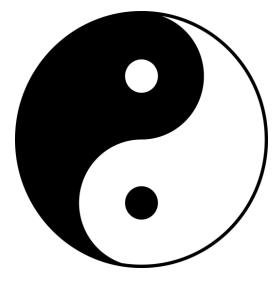
The Bad Part

- Over time, the "snapshot" is likely to prove too rigid, and to require amendments – or multiple amendments – to keep up with changing desires of the owners and the community
 - PUDs often take lots of time to amend – repeatedly
- As ownership of the land fragments (lots are sold off) it is often unclear how many of the current owners need to agree in order to file an application to amend the original deal



The Balance

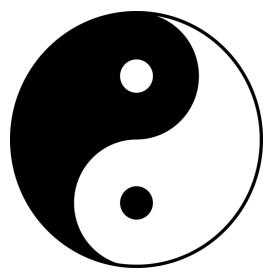
- Because of the time required to negotiate PUDs and the staff time required to amend them over time, many cities and counties are trying to limit their use of PUDs to:
 - Truly unique and complex small projects



• Very large and complex projects with significant future impacts

The Balance

- In some cases, the result that you intended to achieve with a PUD can be achieved with a combination of "standard" (i.e. non-negotiated zoning using existing zone districts) – which are easier to administer – PLUS
- a Development Agreement listing additional agreements to build or operate in certain ways



Maintenance and Operation

- Most agreements to create a "greener" development depend on BOTH:
 - The initial design and technology incorporated into the development AND
 - The maintenance and operation of those features in certain ways over time – which often exceed the up front or short term costs of a less "green" development



 Many "green" development deals fail over disagreements as to who will be responsible for these costs – discuss it early

Potential PUD Measures for Water Conservation Could Include

- Commitment to a greater percentage of small lots and low-rise multifamily than otherwise required in that location
- Commitment to limit irrigated turf on both residential and non-residential sites
- Commitment to negotiate and adopt water budgets for each of the uses and sites included in the PUD
- Commitment to use recycled water for all public area landscaping



Potential PUD Measures for Water Conservation Could Include

- Commitment not to file <u>preliminary</u> plat documents until final water adjudications/ allocations have been documented
- Commitment to prohibit connection of rainwater downspouts to the piped stormwater system
- Commitment to design and locate required open spaces to serve as stormwater detention facilities/amenities to reduce need for separate irrigation



Potential PUD Measures for Water Conservation Could Include

- Commitment to install gray water systems in major public amenities (e.g. community centers and shopping centers)
- Commitment to require lot buyers to participate in adopted xeriscape programs through purchase document clauses
- Commitment to use best available water conservation technology, as mutually agreed during 5-year updates of the PUD Plan
- Commitment to include water conservation monitoring
 responsibilities in all Homeowner Association and Property

Owner Association bylaws

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Addressing Water Efficiency in Planned Unit Developments (PUDs) Westminster Case Study

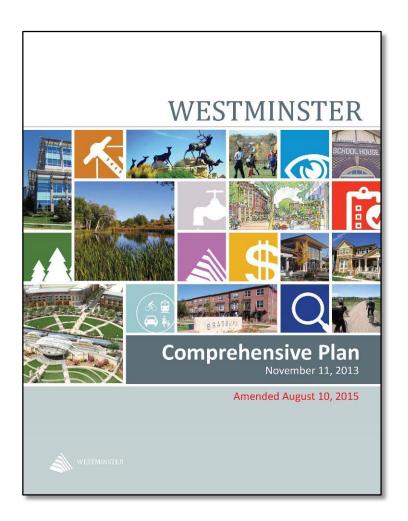
Mac Cummins, Planning Manager, City of Westminster

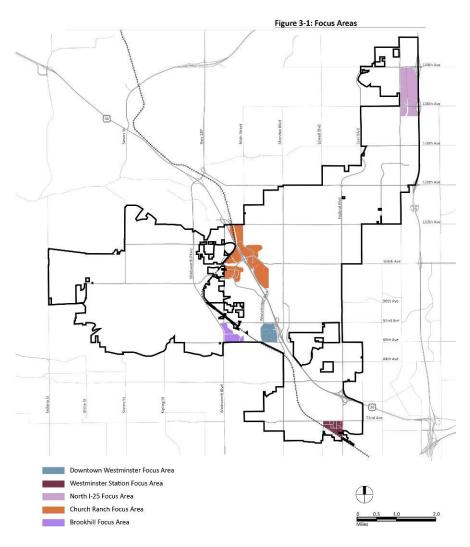
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Westminster City Council Strategic Plan Objective:

"Westminster is the next Urban Center of the Colorado Front Range"

City of Westminster 2013 Comprehensive Plan

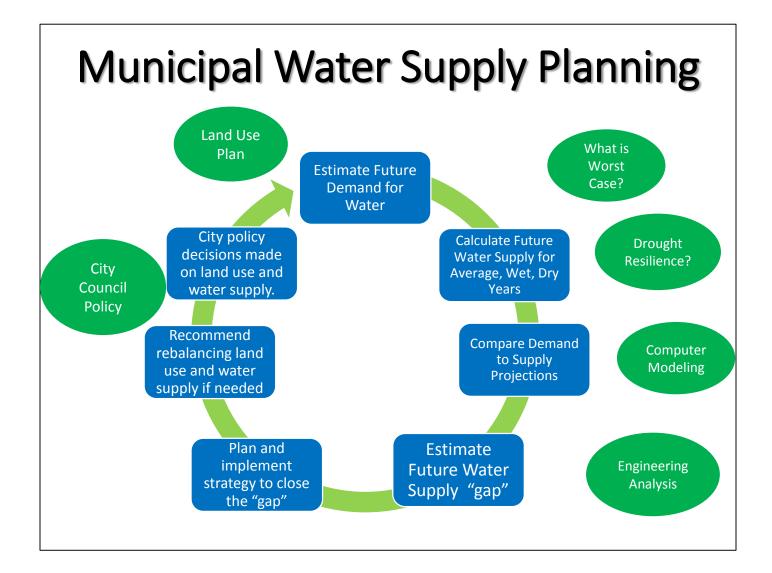




Relationship between Land Use Planning and Water Planning



- 1. Consistent Coordination & Communication
- 2. Landscape Code
- 3. Inspections Process
- 4. Post Occupancy Permit Inspections
- 5. Audits
- 6. Right Pricing of Utilities
- 7. Comprehensive Plan & Comprehensive Water Supply Plan updates



Growth Management

- Water Rights
- Relationship with the Comprehensive Plan
- Service Commitment Competition



New Residential Competition Process

- Based on Service Commitments (SCs)
- One SC is the unit of measure-equivalent for one singlefamily detached (SFD) unit
- Other unit types calculated as follows:
 - 0.7 per single-family attached (SFA) unit
 - 0.5 per multi-family (MF) unit
 - 0.35 per senior housing unit
- 600 SCs available for 2017 competition process

New Residential Competition Process

- Quality-based competitive system
 - Based on design guidelines
 - Score Sheets (n/a for TMUND)
 - Minimum requirements versus incentive items
 - Minimums must be met no points
 - Points scored by choosing incentives
- Level of Detail
 - To reduce developer's time and expense, engineering plans and studies not required
 - Preliminary site plan necessary

General Submittal Requirements

- 1. Application Form
- 2. Cover Letter
- 3. Sketch Plan & Conceptual Elevations
- 4. Location Map
- 5. Legal Description
- 6. Competition Score Sheets
- 7. Three copies of each (12 for TMUND)
- 8. $8\frac{1}{2}$ " x 11" unbound format
- 9. Electronic Submittal PDF on Disk

2017 SERVICE COMMITMENT ALLOCATIONS

CATEGORY	DESCRIPTION	PROPOSED ALLOCATIONS
Potable		
A and L	All Active Residential and Legacy Ridge	1969
B	New Residential (for competition process)	500
С	Non-Residential	500
D	Outside City Contracts	25
E	Senior Housing (for competition process)	100
F	Public and Contingency	100
F	Downtown Westminster	<u>650</u>
W	Total – Potable	3844

New Residential Competition Process

- Evaluation of Submittals
 - Focus on quality design
 - Total points scored
 - Jury for TMUND
- City Council awards (by resolution) to specific projects through build-out
 - Conditions, terms
 - Letter of Intent

TENTATIVE SCHEDULE FOR 2017 SERVICE COMMITMENT COMPETITION

DATE	DAY	ITEM
10/10/2016	Monday	City Council authorizes competition and allocates Service Commitments
10/11/2016	Tuesday	Notice to Developers
10/11/2016	Tuesday	Application packets available
10/19/2016	Wednesday	General information meeting (5:00 – 6:00pm)
11/30/2016	Wednesday	5:00 p.m. deadline for applications
12/5/2016	Monday	City staff review of applications begins
12/15/2016	Thursday	Judging for TMUND competition
1/23/2017	Monday	City Council awards service commitments to winning projects (date subject to change)

CATEGORY B-1 COMPETITION SCORE SHEET

SINGLE-FAMILY DETACHED RESIDENTIAL

	Pro	ject	Nam	e
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Project Location: Project Applicant: Instructions: Under the "Project" column below, complete the checklist by placing check marks in all of the boxes adjacent to items labeled "Minimum" to acknowledge that the proposed project would comply with the minimum standards. In addition, record the number of points applicable for each "Incentive" item that would be incorporated within the proposed project should it receive a Service Commitment Award through this Category B Competition (maximum points possible are listed under the "Max. Pts." column). Subtotal and total the points in the spaces provided under the "Project" column for each sub-category. City Staff will complete the "City" scoring column. Please note that this checklist summarizes the City's Design Standards, and the applicant is responsible for all information in the Design Guidelines. Consult that document for clarification of terms referred to in this checklist. SCORING Max. SUBDIVISION PLANNING AND SITE DESIGN Project City Pts. 1. LAND USE COMPATIBILITY Minimum: * Residences shall be setback a minimum of 50' from the common property line when adjacent to a non-residential use, and 30' from the common property line when adjacent to a residential use. 2. CONFORMANCE WITH THE WESTMINSTER COMPREHENSIVE LAND USE PLAN Minimum: * Project shall conform with the Westminster Comprehensive Land Use Plan including maximum net residential densities. 3. VIEW PRESERVATION Minimum: * View corridors as identified in the Westminster Comprehensive Land Use Plan shall be preserved. 4. DRAINAGEWAYS Minimum: Significant drainageways shall be incorporated in site development as aesthetic amenities, open space/trail corridors, and wildlife areas. (Channelization and engineered structures are discouraged in these areas, and the City requires landscaping and irrigation). 5. CIRCULATION, ACCESS, AND PARKING Minimums: * Every single-family detached residence shall contain a min. of four off-street parking spaces - two enclosed (in garage) and two in each driveway * If installed, landscaped medians in collector streets shall be a min. of 10-feet wide and shall be maintained by the developer or homeowners assoc. 100 * Landscaped street medians (other than entrance medians) will be installed in collector streets (10-foot min. width): 100 points Incentives: 75 * Landscaped islands will be installed in cul-de-sacs within the project: 75 points 6. STREET LIGHTING Minimum: * Lighting along all public streets shall be in conformance to Xeel Energy standards and installed at developer expense. 75 Incentive: * "Specialty" lighting with ornamental bases, armatures, fixtures, etc. relating to the architectural theme of the development will be installed along collector and/or local streets; 75 points 7. RIGHT-OF-WAY DEDICATION 500Incentives: * Additional arterial or collector right-of-way (beyond amount required) will be provided for berming and additional landscape area: 100 points per additional three-foot strip added to right-of-way section along the entire street frontage (500 max, points) 200 * Greater overall right-of-way area and landscaping are achieved through the use of a frontage road parallel to the major road (houses face single-loaded frontage road): 200 points 8. ENTRANCE FEATURES Minimums: * One monument sign shall be required per subdivision or one at each arterial or collector street entrance. Signs are typically located in a landscaped median or on either side of the entrance road. The size of the sign is not to exceed the Westminster Municipal Code. * The right-of-way landscaping shall extend to include the entry area. * A landscaped street median/island (10-foot min. width, 50-foot min. length) shall be required at the major entrance to the subdivision and shall be the responsibility of the developer/homeowners group. 75 Incentives: * Entry signage will be mounted on a masonry wall (4' min. height, 6' max. height, 20' min. length): 75 points 50 * Entry landscaping exceeds the minimum required (1 tree and 3 shrubs per 550 S.F.) in the right-of-way area: 50 points 75 * Evergreen trees (a min, of 3 Austrian Pine, Blue Spruce, or similar) will be planted behind the entry monument signage: 75 points 9. LOT SIZES Project City Minimums: * Lot sizes shall be consistent with the Comprehensive Land Use Plan (CLUP). Minimum lot sizes vary as illustrated in the CLUP. 10. SETBACKS Minimums: * Front setback (and side yard abutting public local street): 25' * Front setback for non-garage architecture when front-loaded garage is set back a min, of 30 feet: 20' * Front setback for side-loaded garage: 15' * Rear setback for garages: 20' * Front setback for front porches (no living space permitted above porch w/ this setback): 14'

* Side setback for one-story residence: 7.5'

	_		 Side setback for two-story residence: 10'
	_		* Rear setback: 25'
	_		 Setbacks from proposed right-of-way abutting collector street: 32'
			 Setbacks from proposed right-of-way abutting arterial street or highway (U.S. 36, I-25): 100'
	800	Incentives:	* Front setbacks greater than the 25' min. will be provided for all structures: 40 points per each 1-foot increment above the 25' front setback
	125		* 10-foot or greater side setbacks for all one-story residences will be provided: 125 points
	125		* 12-foot or greater side setbacks for all two-story residences will be provided: 125 points
	_	Minimums:	* Decks - rear: 18'
	_		 Decks - side for one-story house: 7.5'
	_		* Decks - side for two-story house: 10'
			 Accessory Buildings (when allowed) - rear: 10°
			 Accessory Buildings (when allowed) - side for one-story house: 7.5'
Project C	lity	11. PEDESTRIA	 Accessory Buildings (when allowed) - side for two-story house: 10' N/BICYCLE PATHS
nojeci e		Minimums:	 Minimum widths for off-street and local sidewalks and paths designed for pedestrian use only shall be 5 feet.
	—	series.	 Minimum widths for off-street bicycle paths shall be 8 feet.
			 Developers are required to build 8-foot wide concrete walks along both side of arterial streets and concrete walks (5-foot min. width on one side
			and 8-foot min, width on the other side) along collector streets.
			 * All sidewalks along public streets must be detached from the curb the distance specified in the Westminster standards and specifications
			for the design and construction of public improvements.
	100	Incentives:	* Off-street concrete path (where not already required) will be installed: 100 points
	25	Incentives.	* Lighting along both sides of off-street paths will be provided: 25 points
	25		* Benches will be provided along pedestrian pathways throughout the project: 25 points
		12. PUBLIC LAN	D DEDICATION
		Minimum:	* Public land dedication (PLD) and school land dedication shall be made to the City in conjunction with residential development for public
			purposes at the rate indicated in the Westminster Municipal Code. (Please see the Application Packet for details).
		Incentive:	Public land dedication will exceed the minimum reautrement for:
	500		* Non-floodplain land: 50 points per each percentage point over minimum required (500 max. points)
	100		* Floodplain land: 10 points per each percentage point over minimum required (100 max, points)
			(If this incentive is chosen, keep in mind the City has discretion whether land designated for dedication is acceptable and, during the
			development review process, may require an alternate location on the site or cash-in-lieu for the amount agreed to with this incentive).
		13. PRIVATE OI	YEN SPACE AND PRIVATE PARKS
		Minimums:	* A min. of 4% of the total acreage shall be set aside for a private park that must include an open play area for active recreation, must be
			centrally located in the subdivision to provide a focal point, and shall not include areas designated for PLD, right-of-way, setbacks, and detention.
			(The open play area shall be a min. of 1% of the 4% in size, and for projects of 50 acres or more, this area may be divided).
			 Private open space shall be landscaped and an irrigation system shall be required. Maintenance is the responsibility of the HOA.
	50	Incentives:	 Environmentally-sensitive areas (such as wetlands) will be maintained as private open space: 50 points
	500		* Private park area will be increased above the minimum 4% requirement (choose only one from below if applicable):
			* Greater than 4% to 5%: 250 points
			* Greater than 5% to 6%: 350 points
			* Greater than 6%: 500 points
Project C	City	14. RECREATIO	
		Minimums:	* Indoor clubhouse/meeting facilities and swimming pool (25' x 50' min.) with restroom facilities shall be required for developments with 200
			or more units (no incentive points received for these two items).
			 For projects with more than 300 units, two pools and restrooms or one larger (25-yard min. length) pool and restroom shall be required in addition
			to the indoor clubhouse/meeting facilities (no incentive points received for these items).
	500	Incentives:	* Project with fewer than 200 units will provide indoor clubhouse/meeting facilities: 500 points
	500		* Project with fewer than 200 units will provide a swimming pool (25'x 50' min.) and restroom facilities: 500 points
	75		* Development will share a clubhouse with a pre-existing development: 75 points
	75		* Development will share a swimming pool with a pre-existing development: 75 points
	300		* Hard-surface courts such as tennis courts (including fencing, striping, net, lighting, etc.) and/or basketball full-courts (min. 50' x 84'
			including equipment, striping, lighting, etc.) will be provided: 150 points per court (300 points maximum)
	100		* Sand volleyball courts (30' x 60' min.) will be provided: 50 points per court (100 points max.)
	300		* Play equipment area with swings, slide, climbing equip., etc. or outdoor gathering areas with seating (0.5% minimum of site area) will
			be provided. Play equipment must encompass at least 625 S.F. (25' x 25') for each of these areas: 150 points for each area (300 points max.)

SFD Competition

		15. FENCING AN	DWALLS
		Minimums:	* When used, perimeter fencing or walls are to be constructed in accordance with City standards and are to include brick or stone columns
			(2-foot min, width and depth) spaced a max, of 65 feet apart.
			* All horizontal supporting structures of all solid wood and vinyl fencing shall be constructed toward the interior of the project or lot to reduce
			visibility of the support structures from streets and other public areas.
			* Off-sets (min. 5' depth, 10' length) for landscaping (trees and shrubs req.) in perimeter fencing and/or walls shall be provided every 200' or less.
	100	Incentive:	 Masonry columns will be spaced 55 feet (or less) apart: 100 points
		16. MITIGATION	OF ENVIRONMENTAL EFFECTS
		Minimum:	* Developer/owner-installed screening and/or buffering will be required for all proposed residential developments along U.S. 36, I-25, and all
			arterial streets. Developer-installed fencing, earth berming, and landscaping will be required, and further mitigation measures may be required.
		17. NEIGHBORH	OOD NOTIFICATION
		Minimum:	* Project developers/owners are required to contact the surrounding neighborhoods regarding their proposed developments and
			are responsible for all public notifications, researching and providing property ownership information, and organizing and conducting
			neighborhood meeting(s). (See Neighborhood Contact Requirements handout for more information).
	5450	SUBTOTAL (SU	BDIVISION PLANNING AND SITE DESIGN)
SCORING	Max.	ARCHITECTU	DAL DESIGN
Project City	Pts.		TONY CRITERIA
ringed city	1 15.	Minimums:	* A minimum of four distinctly different home models shall be built within each "streetscape." (Length of a streetscape is no more than 20 homes
		Minimana.	per side of street). Changing roof or siding materials and colors, adding garages, providing "mirror images" of models, or different elevations
			of the same model do not constitute distinctly different models.
			* No single family dwelling unit of the same model shall be built on adjacent lots. (Adjacent lots are any lots that adjoin or share any side lot line
			or lots whose front elevations face each other, although separated by a street, have their property lines overlap by more than 30%).
			* No more than 30% of the same model shall be built in any streetscape.
	50	Incentive:	* Choose one from below (if applicable):
			* 25% or more ranch homes or two-story homes with a first-floor master bedroom and bath with a shower or tub will be built: 25 points
			* 50% or more ranch homes or two-story homes with a first-floor master bedroom and bath with a shower or tub will be built: 50 points
		2. EXTERIOR D	" 50% or more ranch nomes or two-story nomes with a first-floor master bedroom and bath with a shower or tub will be built: 50 points ESIGN ELEMENTS
			ESIGN ELEMENTS
		a. Recessed a	ESIGN ELEMENTS nd Projecting Elements
	50	a. Recessed a	ESIGN ELEMENTS nd Projecting Elements * All three-story planes (e.g. three-story walk-out units) shall be designed with projections and/or recesses.
	50	 Recessed a Minimums: 	ESIGN ELEMENTS nd Projecting Elements * All three-story planes (e.g. three-story walk-out units) shall be designed with projections and/or recesses. * A "horizontal offset" or "projection/recess" of 4' or greater shall be provided on a minimum of 50% of all approved models and residences built. * Offsets (4-foot min.) will be provided on all dwelling units on all front elevations: 50 points
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Project City		a. Recessed a Minimums: <i>Incentive:</i> b. Roof Breal Minimums: <i>Incentive:</i> c. Outdoor L	ESIGN ELEMENTS and Projecting Elements All three-story planes (e.g. three-story walk-out units) shall be designed with projections and/or recesses. A "horizontal offset" or "projection/recess" of 4' or greater shall be provided on a minimum of 50% of all approved models and residences built. Offsets (4-foot min.) will be provided on all dwelling units on all front elevations: 50 points Ks Roof slopes shall be at a minimum pitch of 5:12 and all roofs shall have one-foot minimum overhanging eaves. Roof breaks shall occur on a minimum of 50% of all approved models and residences built. Roof breaks will occur on all approved models: 50 points iving Areas
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	100	Incentives:	* Garage doors will be separated with masonry elements: 100 points
	75		* Garage door windows will be incorporated in the design of 50% of the models and residences built, and the window design will
			complement the style of the house windows: 75 points
	500		* Choose one from below (if applicable):
			* Side, rear, or front-loaded (setback of 30' or more) garages will occur on at least 20% of the models and residences built: 125 points
			* Side, rear, or front-loaded (setback of 30' or more) garages will occur on at least 50% of the models and residences built: 250 points
			* Side, rear, or front-loaded (setback of 30' or more) garages will occur on at least 75% of the models and residences built: 500 points
	300		* Interior garage area of each model will include a storage area of at least 50 S.F. (with a min. of 3-foot depth) that will not encroach in
			the 22-foot minimum garage depth: 300 points
		3. EXTERIOR N	IATERIALS AND COLORS
		Minimums:	* 30% or more masonry (brick or stone) shall be installed on front elevations (exclude window and door area from percentage calculation)
			abutting streets, open space, trails, or parks.
			* 30% or more masonry (brick or stone) shall be installed on side or rear elevations abutting streets, open space, trails, or parks.
			* Masonry (brick or stone) shall be installed on the entire lower level of walkout units that are visible from the street.
			* All second-story (or first-story walkout) decks shall include brick or stone wrapped columns when abutting streets, open space, trails, and parks.
	500	Incentive:	* Choose one from below (if applicable):
			* 30% or more masonry (brick or stone) will be provided on all four sides of all residences: 200 points
			* 50% or more masonry (brick or stone) will be provided on all four sides of all residences: 500 points
		Minimum:	* Accessory buildings shall be architecturally integrated with the main residence and shall consist of similar materials, form, and color. Accessory
		ELIPEOVEAL ZA	buildings shall not be located in any required front or side yard and shall follow requirements of the Westminster Municipal Code.
	1750	SUBTOTAL (A)	RCHITECTURAL DESIGN)
SCORING	Max.	LANDSCAPING	DESIGN
Project City	Pts.		AY LANDSCAPING
		Minimum:	* A minimum of one (1) shade tree and three (3) shrubs per 550 S.F. of landscaped area is required for landscaping within the right-of-way.
	100	Incentives:	* A min. of one shade tree and three shrubs per 500 S.F. of landscaped area is provided for landscaping within the right-of-way: 100 points
	350		* Street trees (deciduous, shade trees with 40-foot max. spacing) will be planted in the landscape area between the curb and sidewalk
			along a min. of 75% of the local street lengths on both sides of the streets: 350 points
		2. DETENTION	POND AREA LANDSCAPING
		Minimum:	* The developer is responsible for landscaping the detention pond and other common areas at a rate of one tree and three shrubs per 550 S.F. of
			landscaped area. The homeowners association shall be responsible for the maintenance of these areas.
	100	Incentive:	* Landscaping will be provided in the detention pond and other common areas at a rate of at least 1 tree and 3 shrubs per 500 S.F.
			of landscaped area: 100 points
		3. SIZE OF PLA	NT MATERIAL FOR RIGHTS-OF-WAY AND COMMON AREAS
		Minimums:	 Minimum sizes required in the right-of-way and common areas are: deciduous trees: 2 1/2" caliper; ornamental trees: 2 1/2" caliper;
			evergreens: 6-foot height.
			* 20% of the trees are to be 3" min, caliper for deciduous or ornamental and 8-foot min, height for evergreens.
	100	Incentive:	* Choose only one from below (if applicable):
			* 30% or more of the trees in the right-of-way and common areas are 3" min. caliper for deciduous and ornamental and 8' min. height
			for evergreens: 50 points
			* 30% or more of the trees in the right-of-way and common areas are 3 1/2" min. caliper for deciduous and ornamental and 10' min. height
			for evergreens: 100 points
			IILY HOME LANDSCAPING
		Minimums:	* For residential lots up to 10,000 S.F. in size, a min. of one shade tree shall be installed in the front yard of every residence.
			* For residential lots 10,000 S.F. or larger, a min. of 2 trees shall be installed in the front yard of every residence. (At least 1 shall be a shade tree).
	75	Incentives:	* For residential lots up to 10,000 S.F. in size, a min. of 2 trees and 5 shrubs shall be installed in the front yard of each lot: 75 points
	75 200		* For residential lots 10,000 S.F. or larger, a min. of 3 trees and 10 shrubs shall be installed in the front yard of each lot: 75 points
	200		* Developer/builder will install entire front and one-half of the side yard landscaping including sod, 3 trees, 10 shrubs, and automatic sprinkler
			system: 200 points
		 SIZE OF PLA Minimum: 	NT MATERIAL FOR SINGLE-FAMILY HOMES Minimum circle convined for front used burdenning are on following desiduous and emomental tensor: 2,112" estimate avaragements (foot height
	50	Incentive:	 Minimum sizes required for front yard landscaping are as follows: deciduous and ornamental trees: 2 1/2" caliper; evergreens: 6-foot height. Trees installed in the front yards will be 3" min. caliper for deciduous and ornamental and 8-foot min. height for evergreens; 50 points
	50 1050		Trees instance in the front yards will be 5 ⁻ min, cauper for acciduous and ornamental and 8-foot min, neight for evergreens: 50 points (NDSCAPING DESIGN)
	10.50	20010110 (m	a second as a second as y

SCORING	Max.	SUSTAINABLE DESIGN					
Project City	Pts.	1. LANDSCAPING AND WATER CONSERVATION					
		a. Tree Lawns					
		Minimums:	* Tree Lawns will be a minimum width of 6 feet.				
	300	Incentive:	* Tree lawns will be increased above the minimum6 feet: 50 points for each additional foot of tree lawn up to 300 pts.				
	b. Landscaped Islands/Medians						
		Minimums:	* In areas with parking areas for community facilities landscaped islands or medians shall be a minimum of 12 feet wide.				
		c. Water Conservation					
		Minimums:	* The maximum turf area cannot exceed 40% of the common landscaped area not in right-of-way. Highly efficient irrigation				
			systems and methods must be incorporated, including ET or soil moisture based controllers and rain sensors to reduce consumption.				
	75	Incentives:	* Turf area will be reduced to 30-35% of landscaped area: 75 points.				
	100		* Turf area will be reduced to 25-29% of landscaped area: 100 points.				
	d. Site Design/Stormwater						
	100	Incentives:	* Vegetative swale or bio-retention area of 5% of total detention square feet: 100 points.				
	200		* Vegetative swale or bio-retention area of 10% of total detention square feet: 200 points.				
Project City	e. Paving Materials						
	25	Incentives:	* 20% of non right-of-way hardscape area is permeable: 25 points.				
	50		* 30% of non right-of-way hardscape area is permeable: 50 points.				
	75		* 40% of non right-of-way hardscape area is permeable: 75 points.				
		f. Pedestrian Circulation					
		Minimums:	* Site amenities such as bus shelters, benches, trash receptacles, and pervious decorative paving shall be incorporated at all bus stops				
			adjacent to the development.				
		,	Incorporation of an internal pedestrian and bicycle corridor network including punch-throughs, minimum 12' wide with a 6' walkway.				
2. Building Construction							
	a. Pro-active Solar Construction						
	100	Incentives:	* 100% of housing units pre-wired for solar photovoltaic systems				
	600		* 60 points for each 10% of housing units with installed solar photovoltaic systems (minimum 3 kw system) Max. 600 points.				
	b. Dwelling Unit Energy Efficiency						
		Incentives:	* Choose one from below (if applicable):				
	200	1	* 10% better than the building energy code requirements, for the code adopted by City, at the time of permit issuance				
	500		* 20% better than the building energy code requirements, for the code adopted by City, at the time of permit issuance				
	000		2019 or and and on the contract of the requirements for the cont and preased of easy, in the name of pressin homenee				
		c, Water Conserv	ring Plumbing Fixtures				
		Minimum:	* All new residential units shall incorporate indoor water fixtures which meet the current plumbing code.				
	100	Incentive:	 All new residential units shall incorporate indoor water fixtures which meet the U.S. EPA WaterSense criteria. 				
	c. Community Facilities						
	300	Incentives:	* 1) Install solar photovoltaic systems (minimum 3 kw system) on the clubhouse/meeting/recreational facility buildings: 300 points				
	300		* Community buildings will be rated LEED Silver or higher: 300 points.				
	50 * Mail kiosk will be covered and incorporate solar-powered lighting, providing 100% of lighting demand required: 50 points.						
	3075 SUBTOTAL (SUSTAINABLE DESIGN)						

11325 TOTAL

Landscape Code Adopted 2004

- Westminster was the first metro-area city to require Irrigation Audits and Weather-Based Controllers (others have followed)
- Irrigation Audits assure efficiency
- Smart Controllers decrease chances of over-watering





Requirements for certain types of irrigation methods and equipment eliminate unnecessary and/or over-watering:

- rain sensors
- irrigation scheduling and water budgeting
- prohibiting watering between 10 am and 6 pm
- requiring subsurface drip irrigation in areas less than 8' wide

	High Water Zone	4,000	x 18	= 72,000	
1		SF	Gallons/SF/Season	Gallons/Season	
	Moderate Water	1,000	x 10	= 10,000	
	Zone	SF	Gallons/SF/Season	Gallons/Season	
	Low Water Zone	5,000	x 3	= 15,000	and a second second
		SF	Gallons/SF/Season	Gallons/Season	
	TOTAL Gallons Ne	eded by all Z	ones	= 97,000 Gallons/Season	
	TOTAL Square Fee	et of all Zones	(SF)	= 10,0000 SF	_
	Average Gallons pe	er SF per Seas	on for all Zones	= 9.7 Gals./SF/Season	
	*26 week season				

- 20% reduction on tap fee for sites using reclaimed water.
- System takes pressure off of the potable system by re-using wastewater.
- Providing reclaimed water reduces the demand on potable water system



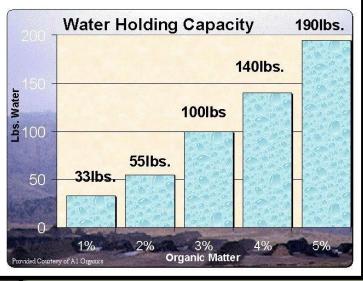




Soil Amendment Inspections

Inspections required for soil amendments (pre- and post-tilling)





Soil amendment requirement (5 yards/1,000 sf) increases plant survivability while using less water

Breaking Down Silos Integrating Water into Land Use Planning

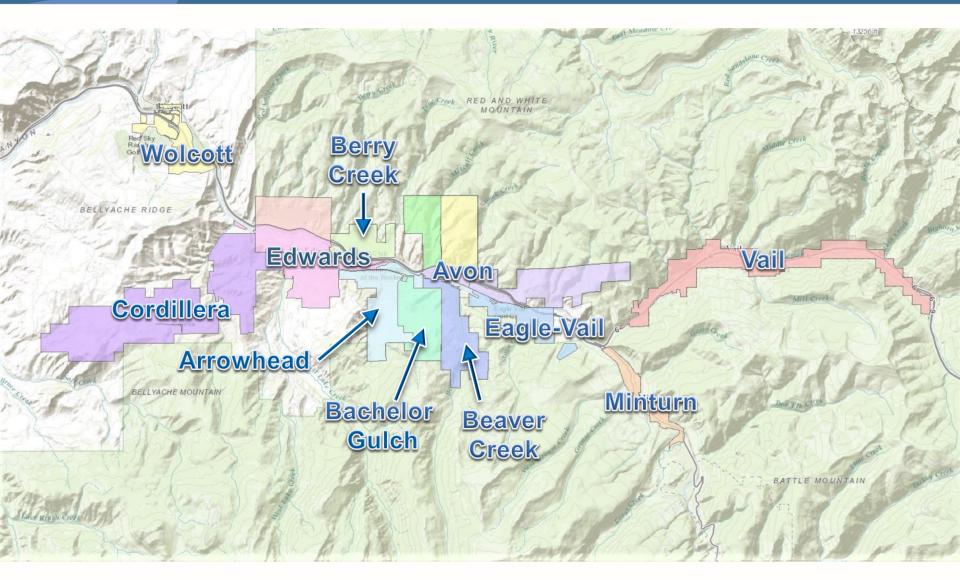
Addressing Water Efficiency in Planned Unit Developments (PUDs): The Role of the Water Authority

Jason Cowles, P.E., Engineering Department, Eagle River Water & Sanitation District

LAND USE LAW CENTER PACE UNIVERSITY SCHOOL OF LAW WWW.LAW.PACE.EDU/LANDUSE







Water Dedication Policy



- Entities pooled their water rights together and agreed to serve build out of all existing or permitted land uses.
- Projected water rights remaining at build out make up the Authority's unallocated pool of water.
- Service to any new land use or redevelopment that increases water consumption requires the dedication of water rights, or a cash payment in lieu of water rights for use of water rights from the Authority's unallocated pool.
- Dedication requirement is 120% of projected consumptive use based on Authority's water demand worksheet.



- Developers needing to pay cash in lieu of dedicating water rights weren't willing or able to do so until after their entitlements were in place.
- Water service agreement between the Authority and the Developer, which set water use limits, wasn't enforceable by the Land Use Authority.
- Rather than managing water use to a number, 120% Dedication Policy required dedication above and beyond projected use to cover overuse by the development.



- Water efficiency goals and requirements will be communicated up front to Land Use Authorities in permitting processes so that they are incorporated in the PUD guide and can be enforced by LUA at building permit and inspection.
- 120% dedication requirement may be reduced by demonstrating that development will be water efficient through use of enforceable water efficient landscaping and irrigation standards.



NEXT STEPS & UPCOMING TRAININGS

Visit

https://www.colorado.gov/pacific/cowaterplan/integrating-waterland-use-planning

Contact: <u>kevin.reidy@state.co.us</u>

Upcoming Webinars

April 18th: Integrating Outdoor Water Use and Landscape Requirements into Codes & Plans





COLORADO Department of Local Affair Division of Local Government





