Table of Contents

Fil	le	1993-0075 Name: <u>Drainage Fee Revision Proposal</u>				
P	S	A few items are denoted with an asterisk (*), which means they are to be scanned for permanent record on the ISYS				
r	c	retrieval system. In some instances, items are found on the list but are not present in the scanned electronic development				
e	a	file because they are already scanned elsewhere on the system. These scanned documents are denoted with (**) and will				
S	n	be found on the ISYS query system in their designated categories.				
e n	n e	Documents specific to certain files, not found in the standard checklist materials, are listed at the bottom of the page.				
t	d	Remaining items, (not selected for scanning), will be listed and marked present. This index can serve as a quick guide for				
		the contents of each file.				
		the contents of cach me.				
X	X	Table of Contents				
		*Review Sheet Summary				
X	X	*Application form				
X		Review Sheets				
		Receipts for fees paid for anything				
		*Submittal checklist				
		*General project report				
		Reduced copy of final plans or drawings				
		Reduction of assessor's map.				
	\dashv	Evidence of title, deeds, easements				
	\dashv	*Mailing list to adjacent property owners				
	\dashv	Public notice cards				
		Record of certified mail				
		Legal description				
		Appraisal of raw land				
		Reduction of any maps – final copy				
-	-	*Final reports for drainage and soils (geotechnical reports)				
\dashv	-	Other bound or non-bound reports				
		Traffic studies				
	\dashv	*Review Comments				
	\dashv	*Petitioner's response to comments				
X		*Staff Reports				
		*Planning Commission staff report and exhibits				
		*City Council staff report and exhibits				
_	-	*Summary sheet of final conditions				
	DOCUMENT DESCRIPTION:					
		DOCCHALLY DESCRIPTION				
X	X	Proposed Revision fee calculation sheet				
X	X	Correspondence				
X	X	Cost Comparison				
X	X	Planning Commission Minutes/Agenda - 7/6/93 - **				
+	\dashv					
-	1					
	\dashv					
$\neg \dagger$						
\dashv	\dashv					
\dashv	\dashv					
\dashv	\dashv					
\dashv	\dashv					
\dashv	\dashv					

CIAVONNE & ASSOCIATES, INC.

SITE PLANNING • LANDSCAPE ARCHITECTURE 336 MAIN ST., #206, GRAND JUNCTION, CO. 303-241-0745 81501

May 26, 1993

Mr. Mark Relph City of Grand Junction Engineering 250 N. 5th Grand Junction CO 81501-2668

Re: Proposed Drainage Fee

Dear Mark:

The concept of a drainage fee in lieu of detailed drainage design and construction of drainage facilities is progressive, innovative, and flexible. The option of such a fee is in the best interests of the City and the private clients we often represent. With your consideration to the following suggestions, we agree with the proposed ordinance:

- Where a project has direct access to a significant natural drainage, particularly projects adjacent to the Colorado River or one of the named washes, drainage facilities and fees may be an unnecessary burden. Where the cumulative impacts of projects along a natural drainage would not exceed the flood level of that drainage, the project should be eligible to directly discharge into that drainage without fees or structures (the Jarvis Property and the Colorado river for example).
- I would like to see some provision for certain projects in excess of the five acre size to be given consideration for the 'fee in lieu of facility'. I believe the five acre limit might be aimed at larger businesses (like Sam's Club) yet a drainage fee may be appropriate for projects like Phase 2 of Indian Wash Subdivision (setting aside the previous comment and that project's direct link to Indian Wash).
- I support your mathematical formula which increases the drainage fee relative to the increase in developed runoff, however, the 5000 constant in your formula (or maybe it's the .5 power) seems a little excessive. If I have a four acre parking lot with a .95 runoff factor, the fee is \$9750.00; if I have a four acre, 1/4 acre residential lot subdivision with a .425 runoff factor, the fee is \$6520.00; if I have a four acre bed and breakfast with a .25 runoff factor, the fee is \$5000.00. Based on gut feeling, the parking lot fee seems about right; the resi. sub. seems a little high; the bed and breakfast seems real high.

Thanks for the opportunity to provide feedback. Let me know if any of these suggestions make any sense!

Sincerely,

Ted Ciavonne, President

PROPOSED REVISION

TO THE

PROPOSED DRAINAGE FEE ORDINANCE

Current drainage policy pertains to prevention of an increase in runoff, which requires a comparison of surface runoff characteristics for developed and undeveloped conditions. In order to incorporate this concept, the proposed drainage fee should be revised so that paragraph (5) reads as follows:

5) The drainage fee shall be determined by application of the following formula:

Drainage Fee (\$) = 10,000 ($C_{100d} - C_{100h}$) $A^{.7}$

where C_{100} = 100 year Rational Method composite runoff coefficient per the City Stormwater Management Manual, with subscripts "d" and "h" pertaining to the proposed developed and current existing or historic conditions, respectively; and

A = Area to be developed in acres.

EXAMPLES OF DRAINAGE FEE

LAND USE	AREA (ACRES)	TYPICAL C _{100d}	THEORETICAL C _{100h} (1)	FEE COST	CURRENT COST(2)
Restaurant	0.38	0.89	0.35	\$ 2,743 0	\$ 3,060
Commercial Commercial	0.5 0.7	0.85 0.85	0.35 0.35	\$ 3,078 \$ 3,895	
Mini Storage	0.81	0.93	0.35	\$ 5,004	\$ 5,900
Commercial	1.0	0.80	0.35 0.65	\$ 4,500 \$ 1,500	
Warehouse Commercial	1.4 2.0	0.86 0.80	0.35 0.35	\$ 6,454 \$ 7,310	\$ 7,680
Commercial	5.0	0.80	0.35	\$13,883	ė10 700
Residential	5.0	0.65	0.35	\$ 9,256	\$12,720

- (1) Assumed that the undeveloped C_{100h} value was 0.35, and arbitrarily used for two examples higher values which would reflect some existing development on-site.
- (2) Current cost is the estimated cost expended on actual projects for a Drainage Report and detention/retention and outlet facilities, including raw land costs for the basin in the residential subdivision.

Cost Compuison

-	•	· · · · · · · · · · · · · · · · · · ·
	(CURRENT	IMPACT
-0 1.		PER
Example	COST	1 1272
TLBY	1 3,060	82,743
	3,000	1 - 2, 1 - 2
Candian Warehouse	9 5, 900	# 4, 195
	"	
Congret amedouse	77,680	A 5,031
	1 '	
5 AZ subshirin	12,720	7,267
	·	
IMPACT FEE =	- 5000 CA'	
	A = men	in averge
	C= 100 4	en natural nether
	7	,, , , , , , , , , , , , , , , , , , ,
	mol	I coefficient for onea welgement to be diedly
) of the light
		welghien 10 or awest.
	direct.	and I
		•
	٠	
· · · · · · · · · · · · · · · · · · ·		
• -		
	-	
	п	

		· ;		• • •
-		المنت الشا	· ·	
	EXAMPLE # 1	JCBY		
Area i	to la develupe.	1 - 63	38 Acres	
100 ne	en smoff evelfer	ient - 0.9		
	00 M			
Curc	+ addi Damin	e Coils	-	
hum	ing Report	J	9,300	
146'	LF high and e'	10/foot	*1,460	
entlet	wein		300	· · · · · · · · · · · · · · · · · · ·
:			3,060	-
		,		
<u> </u>	· · · · · · · · · · · · · · · · · · ·			
			-	
	71			
				

EXAMPLE #2	- Garadian Warehouse
100 you would coefficient	- 0.81 AZ - 0.93
General addil Diamany Costs	
Dramage Report	*150D
(2) Catch brim inlets foutlets 25 LF 12' pipe @ 20'/4	2400 7500
Consections to MH	500
Sito regrading / excuration / exten	\$ 5,900 Promise 1000
·	
·	

	· ·
EXAMPLE # 3 CARPET WAREHO	いいろを
	•
and he developed - 1	4 ~
den to be developed - 1	· 4 aus
100 year smaff coefficient - o	. 86
, Add'	
Curent Diamore Coste *	
Daninge report	3/1500
16 LF Detention Wall (cutiq gutter) c \$15/LF	# 240
Retention wall along detention bown, 70 LF e	•
30' LF 3" Piùe e 33	90
3 wins @ "zov such	900
	500
2 sidewalk dume it 250 end	
exemption L.S.	500
ham channel (extra) 15 LF @ 30/LF	<u>45</u>)
-	7,680
	<u> </u>
* Those required legand normal si	te grating and
dramage; That is, items related	The state of the s
calculations, metering, etc.	
· · · · · · · · · · · · · · · · · · ·	

Ē: .

FY AMPLE & 4 tor.	< /-/.	:
EXAMPLE & 4 5x2	sur muses	*
and to be developed	- 5 Heres	·
		•
- 100 year mall coefficient	- 0.65	
curent sold during costs		
Annage Report	31500	
, •		
2 mleta e 31200 such	2400	
12" PUC, 30 LF @ 920	600	
18" RCP, 30 LF e 40	720	
excuration uprap	1000	·
, · · · · ·		
[and [5 xcx, 03 = 0.15 xc, and		.T. 03.022 one 0
raw land in \$10,000 per auce		(wt post value is "
		- /
autlet famility (milet, metering, page)	5000	
	12,720	
-	· , /	
• • • • • • • • • • • • • • • • • • •		
_	-	

STAFF REVIEW

FILE:

#75-93

DATE:

June 21, 1993

STAFF:

Gerald Williams

REQUEST:

Drainage Fee Ordinance

APPLICANT:

City of Grand Junction

STAFF ANALYSIS:

During the development of the Submittal Standards for Improvements and Development (SSID), many individuals commented on the concept of having a drainage fee in lieu of providing a Drainage Report and constructing on-site detention or retention basins and outlet facilities. There may be projects where this may be acceptable, and funds may be obtained and used to provide more effective regional public drainage facilities. The proposed ordinance would allow the developer, when permitted by City staff, the option of either paying the fee or preparing a report and providing facilities as is currently done.

STAFF RECOMMENDATION:

Staff recommends approval.