



Murfee Engineering Company

Copey
October 28, 2002

Ms. Lorri Dissmore
City Secretary
City of Rollingwood
403 Nixon Drive
Rollingwood, TX 78746

RE: City of Rollingwood
Drainage Study
MEC Project No. 99041.10

Dear Ms. Dissmore:

As requested, I have summarized on the attached table the results of my review of the drainage problems reported by homeowners within the City of Rollingwood. I have included in the summary a general description of the problems based on my site visits during recent rainstorms, potential solutions, and my opinion of the City's responsibility and priority for these areas. Since I have not completed a detailed design for each solution, the cost estimates I have prepared should be considered preliminary at this time.

Please call me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Don Sansom', with a stylized flourish at the end.
Don Sansom, P.E.

cc: Thom Farrell
George Murfee

CITY OF ROLLINGWOOD
PRELIMINARY DRAINAGE STUDY

Prepared by Murfee Engineering Company, Inc.
 October 28, 2002

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LOCATION / OWNER	REPORTED PROBLEM	CAUSE	RECOMMENDED SOLUTION	CITY / HOMEOWNER	PRIORITY (City projects)	ESTIMATED COST
1. 2802 Rollingwood George Primeaux	Water from Rollingwood Drive overflows onto driveway and into garage.	Driveway constructed without proper crest to keep water within the street.	Reconstruct driveway	Homeowner	-	\$5000
2. 4902 Timberline Mark Blake	Garage flooded on Nov. 15, 2001.	Driveway slopes down steeply from the street to the garage. Landscaping on side of the house is higher than the driveway causing ponding and flooding of the garage.	Remove landscaping and construct drainage swale on the south side of the house.	Homeowner	-	\$1000
3. 2500 Timberline Bob Lindell	Water from Rollingwood Dr. ponds at low point on Timberline, overtops curb and passes through lot.	Timberline pavement constructed at improper elevation without provisions for drainage.	Install curb inlet on Timberline and 100 feet of storm drainage pipe.	City	Moderate	\$10,500
4. A) 4903 South Crest John Carlton	Flood damage from storm flow from back of house.	Rear yard slopes towards home. Obstructions, fencing and greenhouse, prevent runoff from passing through lot.	Remove obstructions.	Homeowner	-	\$1500
4. B) 4903 South Crest Nancy Rager	Drainage way along the west lot line has eroded creek bank and edge of driveway	Lack of drainage facilities	Install gabion and concrete slope protection 30-40'	City	Low	\$7,600

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LOCATION / OWNER	REPORTED PROBLEM	CAUSE	RECOMMENDED SOLUTION	CITY / HOMEOWNER	PRIORITY (City projects)	ESTIMATED COST
5. 305 Vale Ken Krakow	Ponding water at the intersection of Vale and Bettis. On November 15, 2001, water flowed over curb into front door.	Improper construction of intersection without provisions for drainage. Low point on Vale Street causes ponding of water. Grading of front yard directs water that overtops the curb towards the house.	Reconstruct intersection and approximately 50 feet of Vale St.	City	Low	\$9125
			Regrade lot to provide swale directing runoff away from the house.	Homeowner		\$1000
6. 3200 Park Hills Ron Wilson	Water in back door in heavy rains.	Grading of backyard directs runoff towards the house.	Regrade rear yard.	Homeowner	-	-
7. 3 Westgate Circle Joan Byrne	Runoff from circle deposits gravel in her backyard and heavy rains flood her	A short concrete flume along the side lot line conveys runoff from the street. Downstream of the	Replace and extend concrete flume/sidewalk to convey runoff around	City	Moderate	\$7100
	garage. Erosion problems created under her greenhouse in backyard.	flume, heavy storm flows have caused erosion and deposited gravel from the City's previous repaving project.	the house. Remove gravel and replace sod. Replace driveway.			
8. 303 Pleasant	Flooding of backyard and porch.	Runoff from the street and upstream areas passes through the backyard of this lot.	Regrade rear yard to provide positive drainage.	Homeowner	-	-

CITY OF ROLLINGWOOD**PRELIMINARY DRAINAGE STUDY**

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9. Randolph Place	Drainage from Jeffrey Cove causes flooding on Randolph Place.	Absence of drainage facilities to convey large flows from upstream areas. Runoff from the street passes through lot at Randolph causing flooding of the house and erosion.	Install inlets and storm drainage pipe to capture and convey runoff from Randolph though front and side yards of impacted homes.	City	High	\$47,500
10. 106 Kristy Drive / Scott Kyle	Runoff from circle discharges onto lot.	Lack of inlet or other drainage facilities	Install concrete flume.	City <i>will be solved by sewer system</i>	High	\$1500
11. Rockway @ Wallis	Drainage causes flooding in front yard.	Roadside ditches convey runoff	No action required.	Homeowner	-	-

ENGINEER'S COST ESTIMATE

Prepared By
MURFEE ENGINEERING COMPANY, INC.

10/25/02

Client: CITY OF ROLLINGWOOD		By: D Sansom				
Project: DRAINAGE STUDY						
Improvements to remedy localized drainage problems						
NO.	LOCATION	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	2802 Rollingwood Dr.	Remove ex. drive	1	LS	\$500.00	\$500.00
		Conc. driveway approach	1	LS	\$1,500.00	\$1,500.00
		Conc. driveway	500	SF	\$6.00	\$3,000.00
		Subtotal			\$5,000.00	
2	4902 Timberline Dr.	Minor regrading	1	LS	\$500.00	\$500.00
		Landscape repair	1	LS	\$500.00	\$500.00
		Subtotal			\$1,000.00	
3	2500 Timberline Dr.	10' Curb inlet	1	EA	\$3,000.00	\$3,000.00
		18" RCP	100	LF	\$60.00	\$6,000.00
		Conc. curb	100	LF	\$15.00	\$1,500.00
		Subtotal			\$10,500.00	
4a	4903 Southcrest	Minor regrading	1	LS	\$500.00	\$500.00
		Landscape repair	1	LS	\$1,000.00	\$1,000.00
		Subtotal			\$1,500.00	
4b	Southcrest	Conc. rip rap	250	SF	\$10.00	\$2,500.00
		Gabion wall	17	CY	\$300.00	\$5,100.00
		Subtotal			\$7,600.00	
5	305 Vale	Remove ex. asphalt	1	LS	\$1,500.00	\$1,500.00
		Reshape roadway	350	SY	\$7.50	\$2,625.00
		Replace asphalt	350	SY	\$10.00	\$3,500.00
		Replace curb	100	LF	\$15.00	\$1,500.00
		Subtotal			\$9,125.00	
6	3200 Park Hills	None				
7	3 Westgate Circle	Extend conc. flume	100	LF	\$20.00	\$2,000.00
		Remove ex. drive	1	LS	\$500.00	\$500.00
		Conc. driveway	600	SF	\$6.00	\$3,600.00
		Landscape repair	1	LS	\$1,000.00	\$1,000.00
		Subtotal			\$7,100.00	
8	303 Pleasant	None				
9	Randolph Place	Drainage inlets	2	EA	\$4,000.00	\$8,000.00
		24" RCP	300	LF	\$100.00	\$30,000.00
		Conc flume	50	LF	\$20.00	\$1,000.00
		Remove ex. drive	1	EA	\$500.00	\$500.00
		Conc drive	500	SF	\$6.00	\$3,000.00
		Conc headwall	1	EA	\$2,500.00	\$2,500.00
		Landscape repair	1	LS	\$2,500.00	\$2,500.00
		Subtotal			\$47,500.00	
10	106 Kristy	Conc. flume	50	LF	\$20.00	\$1,000.00
		Landscape repair	1	LS	\$500.00	\$500.00
		Subtotal			\$1,500.00	
11	Rockway at Wallis	None				
SUBTOTAL CONSTRUCTION COSTS (City items only)						\$83,325.00
25% CONTINGENCIES						\$20,831.25
TOTAL COST						\$104,156.25
= Homeowner items						