

PUBLIC WORKS DEPARTMENT

Post Office Box 144 Addison, Texas 75001

(214) 450-2871

16801 Westgrove

May 8, 1995

To: Ron Whitehead, City Manager

From: John R. Baumgartner, Public Works

JRB

Re: Bellbrook/Lake Forest Drainage

In reviewing the drainage questions regarding the boundary between the referenced developments it was difficult to separate the problems associated with the new construction (ie: mud and debris) and excess water.

It is possible to have lots that back to each other and properly manage the stormwater flow around the downstream houses. This is usually completed on a house by house basis and can work adequately unless the yards are remodeled, and the drainage way is obstructed by a wall, pool, planter, fence or other obstruction. The obstructions typically redirect and/or concentrate the flow which makes management more difficult.

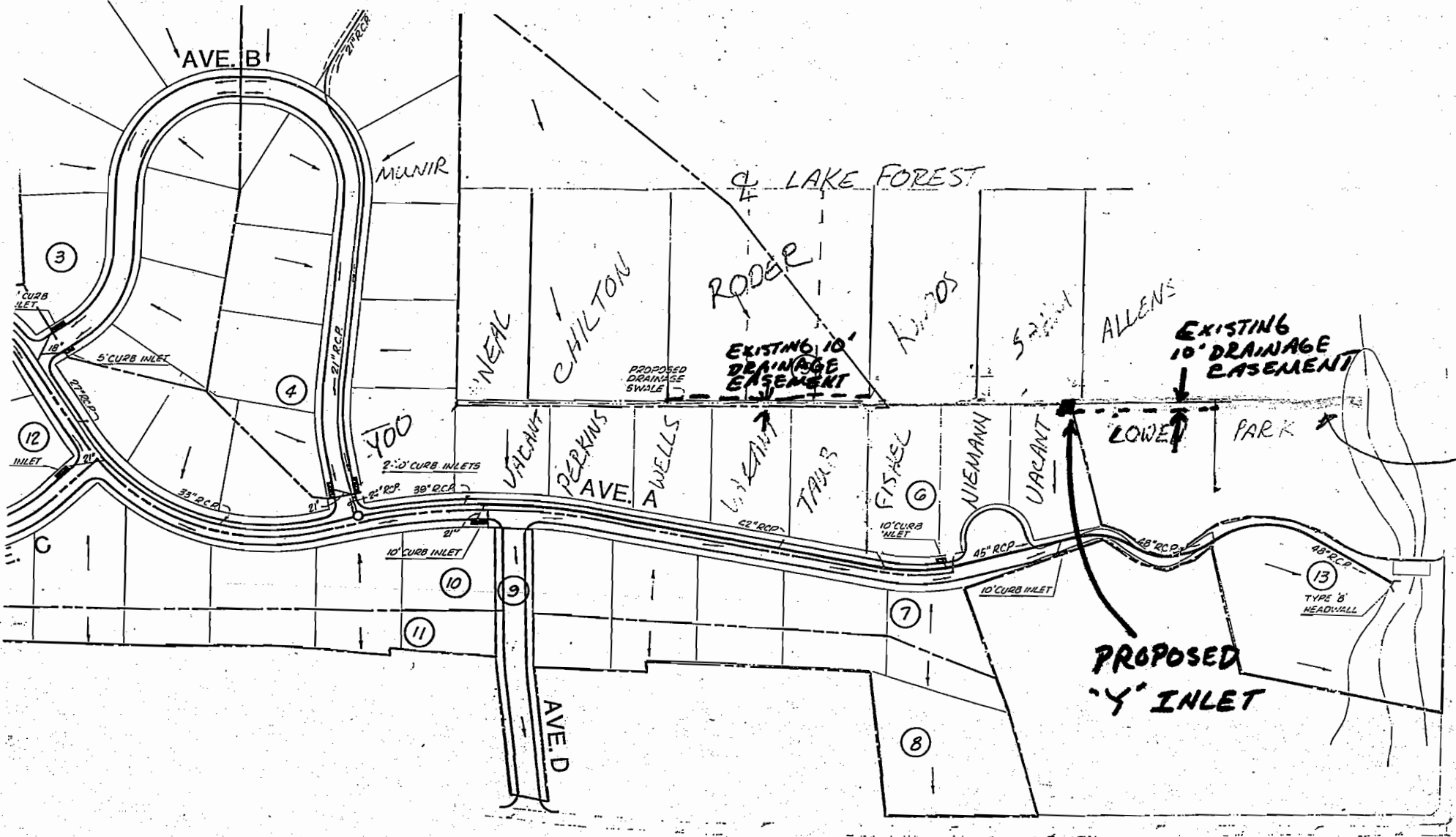
To resolve most of the stormwater problems (without relandscaping their yards) the Bellbrook residents have with the Lake Forest drainage it would be necessary to construct a swale/flume from the southeast corner of the Lake Forest development to the northeast corner of Mr. Vic Sahms lot. From there we would go underground to the creek across the Lowen's property.

The two most difficult aspects of this job are obtaining easements and funding. It is my best estimate that this work would cost between \$125,000, and \$175,000. This could be reduced if a product other than patterned concrete is used for the swale.

This will not address any issues the western property owner on Winnwood may have with the eastern lots on Bellbrook or the western Lake Forest owners have with Oaks North.

If you have any questions or need additional information please call me.

Attachment: Sketch

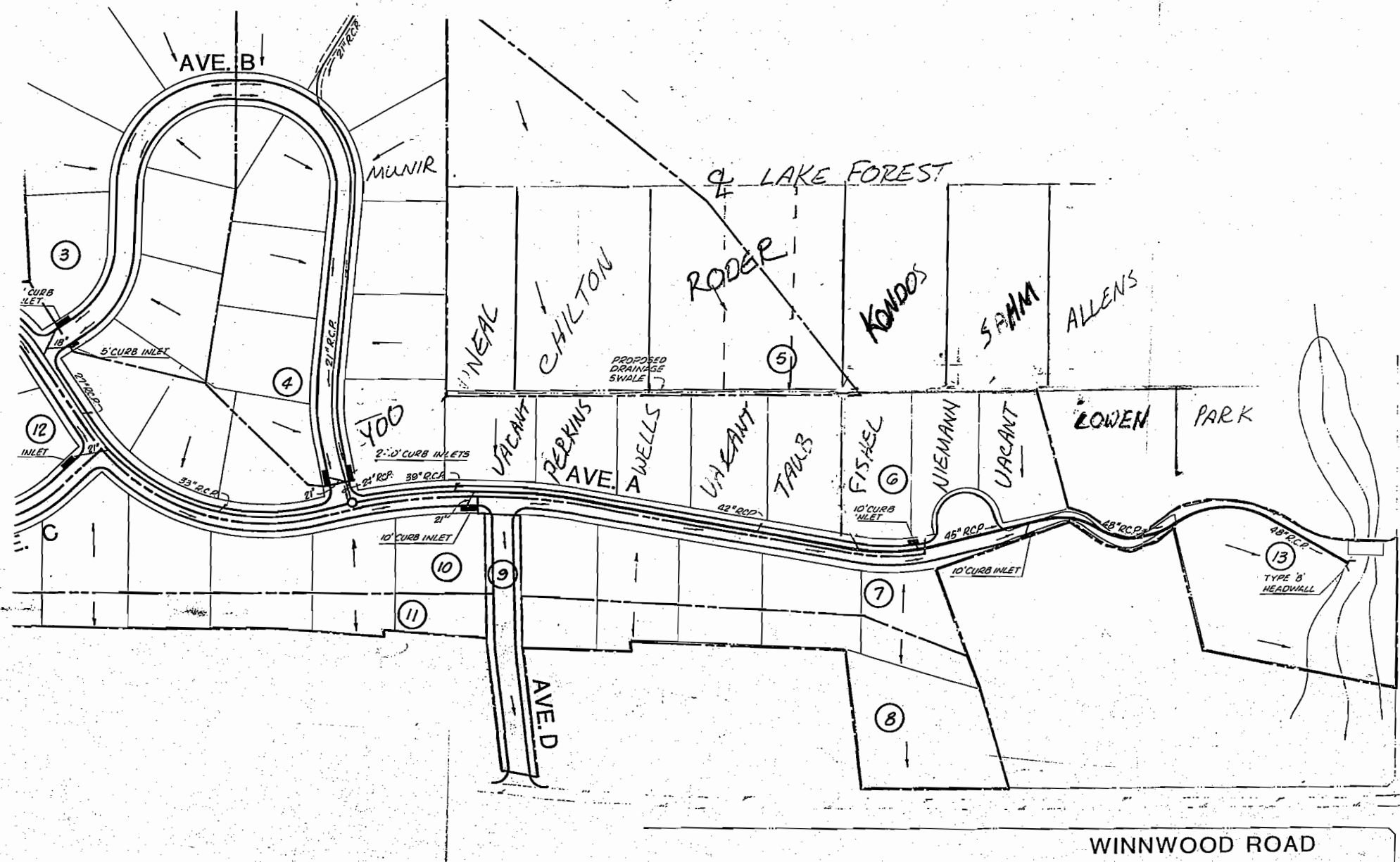


PROPOSED
STORM DRAINAGE
PIPE ±24" RCP

PROPOSED
'Y' INLET

BELTLINE ROAD

WINNWOOD ROAD



BELTLINE ROAD

WINNWOOD ROAD

AVE. B

MUNIR

LAKE FOREST

NEAL
CHILTON

RODER

KONDOS

SPAN

ALLENS

YOO

VACANT

PERKINS
AVE.

AWELLS

VACANT

TAUB

FISHEL

NIEMANN

VACANT

LOWEN

PARK

AVE. D

3

4

5

6

10

11

7

8

12

13

CURB INLET

5' CURB INLET

INLET

2'-0" CURB INLETS

10' CURB INLET

10' CURB INLET

10' CURB INLET

48" RCP

TYPE 'B' HEADWALL

PROPOSED DRAINAGE SWALE

AVE. B

MUNIR

LAKE FOREST

NEAL
CHILTON

RODER

KONDOS

SPAN

ALLENS

YOO

VACANT

PERKINS
AVE.

AWELLS

VACANT

TAUB

FISHEL

NIEMANN

VACANT

LOWEN

PARK

AVE. D

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CURB INLET

5' CURB INLET

INLET

2'-0" CURB INLETS

10' CURB INLET

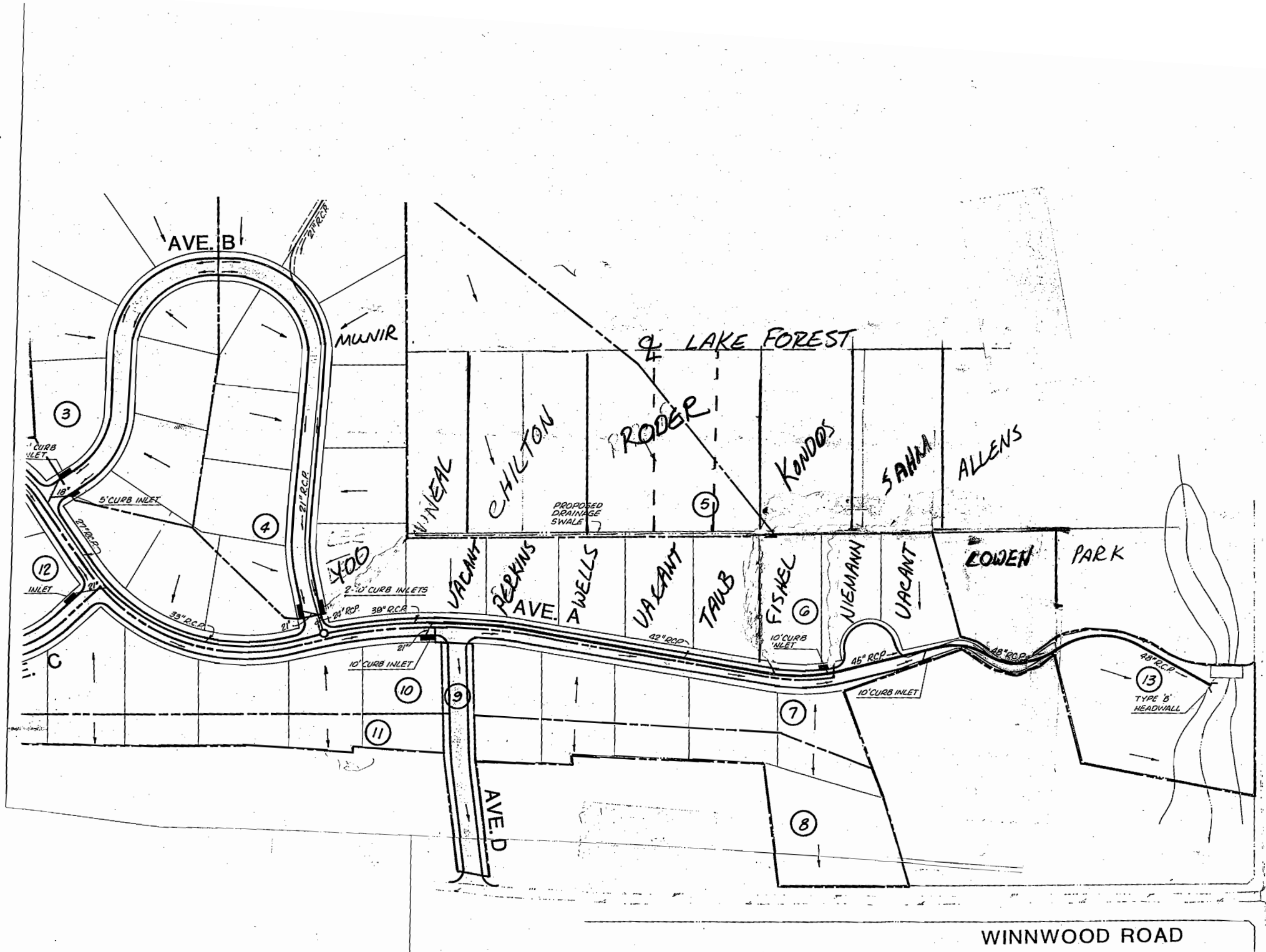
10' CURB INLET

10' CURB INLET

48" RCP

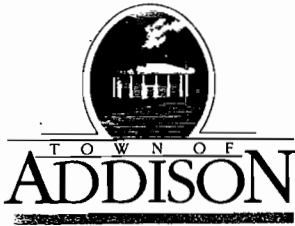
TYPE 'B' HEADWALL

PROPOSED DRAINAGE SWALE



BELTLINE ROAD

WINNWOOD ROAD



CITY ENGINEER'S OFFICE

Post Office Box 144 Addison, Texas 75001

(214) 450-2886

16801 Westgrove

M E M O R A N D U M

October 1, 1991

To: Ron Whitehead, City Manager

From: John R. Baumgartner, City Engineer

RE: Winnwood/Bellbrook Drainage Phases II and III

On September 20, 1991 a total of five bids (bid tabulation attached) were received for the referenced project. These improvements are intended to mitigate some of the drainage problems experienced in the Winnwood/Bellbrook area.

Funding for this project is provided in the 1991-92 Capital Projects Fund Budget. Our consultant Espey-Huston has reviewed (attached letter) the qualifications of the apparent low bidders and recommended award to either firm.

In an effort to maintain the Town's policy regarding street cuts, staff recommends awarding the bid for schedules B and C to Radich Construction Company, Inc. in the amount of \$116,165.52 contingent upon the contractor providing the required bonds and insurance.

If you concur with the recommendation, please have Carmen place an item on the October 8, 1991 council agenda awarding the bid to Radich Construction Company, Inc. and authorizing the City Manager to execute the contract contingent upon the contractor providing the required bonds and insurance.

JRB/rp

Attachments



ESPEY,
HUSTON &
ASSOCIATES, INC.
Engineering & Environmental Consultants

Mr. John Baumgartner, P.E.
City Engineer
16801 Westgrove Drive
P. O. Box 144
Addison, Texas 75001

EH&A Job No. 13404

Re: Winnwood/Bellbrook Estates Phase 2 and 3

Dear John:

Bids were received on the Winnwood/Bellbrook Estates Phase 2 and 3 Drainage Project on September 20, 1991. A total of five bids were received. A tabulation of the bids received is attached.

This project was bid with two alternates; one open-cutting (Schedule A) and the other boring Bellbrook Way (Schedule B). As can be seen by the attached Alternate Projects Summary, PATCO Utilities is the low bidder completing the project by open-cut and Radich Construction is the low bidder completing the project by boring.

EH&A has reviewed project references provided by both construction firms (PATCO and Radich) and both appear to be well recommended. PATCO Utilities has completed numerous projects in the area. Radich Construction is a Michigan-based firm starting a local office in this area.

Based on the above, EH&A would recommend awarding the Winnwood/Bellbrook Phase 2 and 3 construction contract to either firm, depending on whether the Town chooses to construct the Schedule A or the Schedule B project.

If you require any additional information, please do not hesitate to call.

Sincerely,

Jim Waldbauer, P.E.
Land/Transportation

JW:jkn

Attachment

**TOWN OF ADDISON
WINNWOOD/BELLBROOK ESTATES
PHASE 2 AND 3**

Bids Received: September 20, 1991

Engineers: Espey, Huston & Associates, Inc.
17811 Waterview Parkway
Suite 400
Dallas, Texas 75252
(214) 669-9600
Fax: (214) 480-8065

BID TABULATION

<u>Bidder</u>	<u>Schedule A</u>	<u>Schedule B</u>	<u>Schedule C</u>
Dowager Construction, Inc.	\$47,343.00	\$47,585.00	\$75,178.00
Jeske Construction Co.	\$54,727.20	\$61,200.80	\$88,341.30
Moss Construction Co., Inc.	\$48,992.00	\$49,047.00	\$68,701.00
PATCO Utilities, Inc.	\$41,163.30	\$52,660.50 ⁽¹⁾	\$69,745.25
Radich Construction Co., Inc.	\$49,041.39	\$53,933.07	\$62,232.45 ⁽²⁾
ENGINEER'S ESTIMATE	\$53,235.00	\$54,265.00	\$93,905.00

ALTERNATE PROJECTS SUMMARY

<u>Bidder</u>	<u>Open-Cut Bellbrook (Schedule A & C)</u>	<u>Bore Bellbrook (Schedule B & C)</u>
Dowager Construction, Inc.	\$122,521.00	\$122,763.00
Jeske Construction Co.	\$143,068.50	\$149,542.10
Moss Construction Co., Inc.	\$117,693.00	\$117,748.00
PATCO Utilities, Inc.	\$110,908.55	\$122,405.75
Radich Construction Co., Inc.	\$111,273.84	\$116,165.52
ENGINEER'S ESTIMATE	\$147,140.00	\$148,170.00

⁽¹⁾ PATCO's original bid was \$56,553.30. However, an error was found in their transfer of the Schedule A subtotal to the subtotal to be used in Schedule B.

⁽²⁾ Radich's original bid was \$62,234.97. However, two errors were found; one in the total amount for Item 200 and the other in the total amount for Item 203.



ESPEY,
HUSTON &
ASSOCIATES, INC.
Engineering & Environmental Consultants

May 20, 1991

Mr. Ron Whitehead
City Manager
Town of Addison
P. O. Box 144
Addison, Texas 75001

EH&A Proposal No. 91-0413

RE: Letter Agreement for Preparation of Construction Documents
Winnwood Road/Bellbrook Estates Drainage Project - Phase II
14784/14800 Winnwood Road Drainage Project - Phase III

Dear Mr. Whitehead:

Following a request from your staff, I am pleased to submit this letter agreement to provide engineering and surveying services for the Winnwood Road/Bellbrook Estates Drainage Project (Phase II) and the 14784/14800 Winnwood Road Drainage Project (Phase III).

The proposed improvements to be provided with The Winnwood Road/Bellbrook Estates Drainage Project (Phase II) have been outlined in our letter to you dated April 19, 1991. Please note that the Construction Cost Estimate attached to the April 19 letter did not include a french drain because no groundwater problem had been reported at No. 14805 Winnwood Road. To eliminate the possibility that groundwater is contributing in some way to this drainage problem, however, a french drain would be required under the drainage channel. Consequently, I have revised the cost estimate for this project to include a french drain (see Attachment A).

Espey, Huston & Associates, Inc. (EH&A) will provide the following scope of services for Phase II:

1. Survey verification of existing drainage improvements.
2. Prepare construction plans for the project and provide the Town of Addison with 30 copies of the final plans.
3. Prepare a Project Manual which will include the specifications and provisions necessary to bid the project and provide 30 copies.
4. Review and tabulate the project bids and make a recommendation of award to the Town of Addison.

Mr. Ron Whitehead
May 20, 1991
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The proposed fixed fees for this project are as follows:

1.	Survey Verification	\$ 500
2.	Construction Plans	4,800
3.	Project Manual	1,000
4.	Bidding Services	<u>500</u>
	Total Fixed Fee - Phase II	\$6,800

The proposed improvements to be provided with the 14784/14800 Winnwood Road Drainage Project (Phase III) will be designed to alleviate a ponding problem created by surface drainage on the south side of No. 14800. An estimated construction cost estimate for this project is included in Attachment B. It is assumed that this project will be performed in conjunction with the Phase II improvements, not as a separate project.

Espey, Huston & Associates, Inc. (EH&A) will provide the following scope of services for Phase III:

1. A topographic survey along with the alignment of the proposed improvements.
2. Prepare construction plans for the project and provide the Town of Addison with 30 copies of the final plans.
3. Prepare a Project Manual which will include the specifications and provisions necessary to bid the project and provide 30 copies.
4. Review and tabulate the project bids and made a recommendation of award to the Town of Addison.

The proposed fixed fees for this project is as follows:

1.	Survey Verification	\$ 1,500
2.	Construction Plans	<u>\$ 4,400</u>
	Total Fixed Fee - Phase III	\$ 5,900
	Total Fixed Fee - Phase II and Phase III	\$12,700

The proposed drainage improvements will include a storm sewer outfall at White Rock Creek within the corporate limits of the City of Dallas; consequently, EH&A will submit plans to the Public Works Department of the City of Dallas for their review. I had a preliminary discussion with Mr. Glenn Hughes with the City of Dallas regarding the proposed outfall during which Mr. Hughes made the following comments:

Mr. Ron Whitehead
May 20, 1991
Page Three

- He did not foresee a problem with the proposed outfall.
- The City of Dallas typically requires a storm sewer to outfall at the flow line of the creek.
- The City of Dallas would not maintain the storm sewer outfall.

In preparing this proposal, I have assumed that a maximum of two construction plan submittals will be required to the City of Dallas. In addition, I have assumed that the Town of Addison will prepare easement documents and obtain any additional easements which may be required for this project.

The estimated fee for construction observation services on Phase II and Phase III to be provided on a Time and Material basis is \$3,000 (fee based on 10 visits at \$300 per visit).

If this letter agreement is acceptable, please execute a copy and return it to our office.


Please contact me if I can provide any additional information.

Sincerely,



Bruce R. Grantham, P.E.
Assistant Division Manager

APPROVED BY:


Town of Addison

BRG:ss

Attachments

ATTACHMENT A
 CONSTRUCTION COST ESTIMATE - PHASE II
 WINNWOOD ROAD/BELLBROOK ESTATES DRAINAGE PROJECT

Item No.	Description	Unit	Quan.	Unit Price	Total Cost
101	Clearing and Grubbing	S.Y.	200	\$ 10.00	\$ 2,000.00
102	Channel Excavation	C.Y.	150	14.00	2,100.00
103	18" Reinforced Concrete Pipe	L.F.	150	65.00	9,750.00
104	18" RCP by Bore	L.F.	40	150.00	6,000.00
105	4' x 4' Y-Inlet	EA.	1	3,000.00	3,000.00
106	4' thick 3,000 psi Stone Patterned Concrete Channel Lining	S.Y.	200	70.00	14,000.00
107	Bermuda Block Sodding	S.Y.	100	10.00	1,000.00
113	Pipe-to-Pipe Connection	EA.	1	1,000.00	1,000.00
114	French Drain	L.F.	160	40.00	6,400.00
115	Excavation for French Drain	C.Y.	280	14.00	<u>3,920.00</u>
				SUBTOTAL	\$ 49,170.00
				25% Contingency	<u>12,292.50</u>
				TOTAL	\$ 61,462.50

NOTE: The cost to acquire easements (if any) has not been included in this estimate.

ATTACHMENT B

CONSTRUCTION COST ESTIMATE - PHASE III

14784/14800 WINNWOOD ROAD DRAINAGE PROJECT

Item No.	Description	Unit	Quan.	Unit Price	Total Cost
101	Clearing and Grubbing	S.Y.	1,000	\$ 10.00	\$ 10,000.00
102	Channel Excavation	C.Y.	150	14.00	2,100.00
103	24" Reinforced Concrete Pipe	L.F.	450	65.00	29,250.00
104	4' x 4' Y-Inlet	EA.	1	3,000.00	3,000.00
105	4' thick 3,000 psi Concrete Channel Lining	S.Y.	250	40.00	10,000.00
106	Bermuda Block Sodding	S.Y.	800	10.00	8,000.00
107	Reinforced Concrete Headwall	EA.	1	1,000.00	1,000.00
108	Rip-Rap	S.Y.	20	60.00	<u>1,200.00</u>
				SUBTOTAL	\$ 64,550.00
				25% Contingency	<u>16,137.50</u>
				TOTAL	\$ 80,687.50

NOTE: The cost to acquire easements (if any) has not been included in this estimate.

**BID SCHEDULE A
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 2**

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
100	170	S.Y.	Clearing and grubbing <u>Five</u> <u>NO</u>	\$ <u>5.00</u> Dollars Cents	\$ <u>850.00</u>
101	120	C.Y.	Earth and rock excavation for channel and French drain including hauling and disposal of excess material <u>Ten</u> <u>NO</u>	\$ <u>10.00</u> Dollars Cents	\$ <u>1200.00</u>
102	50	L.F.	6" perforated Schedule 80 PVC French drain system including crushed stone, concrete, sand, pea gravel and filter wrap, complete in place <u>Twenty One</u> <u>NO</u>	\$ <u>21.00</u> Dollars Cents	\$ <u>1050.00</u>
103	130	S.F.	4" thick, 3,000 psi reinforced concrete channel lining, with patterned concrete or approved equal surface treatment, complete in place <u>One Hundred + Thirty One</u> <u>NO</u>	\$ <u>131.00</u> Dollars Cents	\$ <u>17,030.00</u>
104	187	L.F.	15" Class III RCP with embedment, complete in place <u>Sixty Eight</u> <u>Sixty Four</u>	\$ <u>69.67</u> Dollars Cents	\$ <u>12,835.89</u>
105	114	L.F.	15" Class III RCP with embedment Type B, complete in place <u>Sixty Six</u> <u>Seventy Six</u>	\$ <u>66.76</u> Dollars Cents	\$ <u>7,610.64</u>

BID SCHEDULE A
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 2
(Cont'd)

Item No.	Est. Quan.	Unit	Description	Unit Price	Amount
106	38	L.F.	Open-cut Bellbrook Way and install 15" Class III RCP with embedment, complete in place <u>Sixty Eight</u> Dollars <u>Sixty Four</u> Cents	\$ <u>68.64</u>	\$ <u>2,608.32</u>
107	15	S.Y.	Remove existing concrete pavement including hauling and disposal <u>Twenty</u> Dollars <u>NO</u> Cents	\$ <u>20.00</u>	\$ <u>300.00</u>
108	15	S.Y.	6" 3,000 psi reinforced concrete pavement replacement including subgrade preparation, complete in place <u>Forty</u> Dollars <u>NO</u> Cents	\$ <u>40.00</u>	\$ <u>600.00</u>
109	60	L.F.	Sawcut existing concrete pavement, complete in place <u>Two</u> Dollars <u>FIFTY</u> Cents	\$ <u>2.50</u>	\$ <u>150.00</u>
110	1	EA.	Special 4' diameter manhole with 2-4" PVC pipes (see Detail Sheet 6), complete in place <u>One thousand Five Hundred</u> Dollars <u>NO</u> Cents	\$ <u>1,500.00</u>	\$ <u>1,500.00</u>
111	1	EA.	Standard 4' diameter manhole, complete in place <u>One Thousand Three Hundred</u> Dollars <u>NO</u> Cents	\$ <u>1,350.00</u>	\$ <u>1,350.00</u>

**BID SCHEDULE A
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 2
(Cont'd)**

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
112	1	EA.	Standard Type Y inlet, complete in place <u>Seven Hundred Fifty</u> Dollars <u>NO</u> Cents	<u>\$ 750.⁰⁰</u>	<u>\$ 750.⁰⁰</u>
113	100	S.Y.	Bermuda hydromulch including application and maintenance during construction, complete in place <u>Two</u> Dollars <u>NO</u> Cents	<u>\$ 2.⁰⁰</u>	<u>\$ 200.⁰⁰</u>
114	1	EA.	Connect 15" RCP to existing inlet <u>Four Hundred Sixteen</u> Dollars <u>Seventy Five</u> Cents	<u>\$ 416.⁷⁵</u>	<u>\$ 416.⁷⁵</u>
115	390	L.F.	Trench safety system <u>One</u> Dollars <u>NO</u> Cents	<u>\$ 1.⁰⁰</u>	<u>\$ 390.⁰⁰</u>
116	1	EA.	Cleanout for PVC French drain system, complete in place <u>Two Hundred</u> Dollars <u>NO</u> Cents	<u>\$ 200.⁰⁰</u>	<u>\$ 200.⁰⁰</u>

TOTAL PROJECT BID - SCHEDULE A

\$ 49,041.39

Forty Nine Thousand Forty one Dollars
Thirty nine Cents

The completion time for this contract is 60 calendar days.

**BID SCHEDULE B
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 2**

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
106	38	L.F.	Bore 15" Class III RCP under Bellbrook Way <u>Two Hundred Twenty Five</u> Dollars Cents	\$ <u>225.00</u> (Line 1)	\$ <u>8550.00</u>

The sum of Items 100 through 105 and 110 through 116 inclusive from Bid Schedule A

\$ 45,383.07

Forty Five Thousand Three Hundred Eighty Three Dollars
Seven Cents (Line 2)

TOTAL PROJECT BID - SCHEDULE B

The sum of Items 100 through 105 and 110 through 116 inclusive from Bid Schedule A and Item 106 from Bid Schedule B

\$ 53,933.07

Fifty three Thousand Nine Hundred Thirty Three Dollars
Seven Cents (Lines 1 & 2)

The completion time for this contract is 60 calendar days.

**BID SCHEDULE C
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 3**

Item No.	Est. Quan.	Unit	Description	Unit Price	Amount
200	550	S.Y.	Clearing and grubbing <u>Five</u> Dollars <u>Forty Five</u> Cents	\$ <u>5.45</u>	\$ <u>3,000.00</u> 2397.50
201	20	C.Y.	Earth excavation for swale including hauling and disposal of excess material <u>Twenty Five</u> Dollars <u></u> Cents	\$ <u>25.00</u>	\$ <u>500.00</u>
202	51	L.F.	18" Class III RCP with embedment, complete in place <u>Thirty Four</u> Dollars <u>Seventy Three</u> Cents	\$ <u>34.73</u>	\$ <u>1,771.23</u>
203	7	L.F.	21" Class III RCP with embedment, complete in place <u>One Hundred Seven</u> Dollars <u>Fourteen</u> Cents	\$ <u>107.14</u>	\$ <u>750.00</u> 749.98
204	700	L.F.	27" Class III RCP with embedment, complete in place <u>Forty Eight</u> Dollars <u>Fifty Four</u> Cents	\$ <u>48.51</u>	\$ <u>33,978.00</u>
205	2	EA.	Remove and replace existing 10' inlet, complete in place <u>Two Thousand Seven Hundred</u> + <u>Fifty</u> Dollars <u>NO</u> Cents	\$ <u>2,750.00</u>	\$ <u>5,500.00</u>
206	1	EA.	Special Type Y inlet (see Detail Sheet 6), complete in place <u>Seven Hundred Fifty</u> Dollars <u>NO</u> Cents	\$ <u>750.00</u>	\$ <u>750.00</u>
207	1	EA.	15" - 45° Class III RCP Bend, complete in place <u>Two Hundred</u> Dollars <u>NO</u> Cents	\$ <u>200.00</u>	\$ <u>200.00</u>

BID SCHEDULE C
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 3
(Cont'd)

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
208	4	EA.	27" - 33° Class III RCP Bend, complete in place <u>Four Hundred Forty</u> Dollars <u>NO</u> Cents	\$ <u>440.00</u>	\$ <u>1,760.00</u>
209	1	EA.	27" - 45° Class III RCP Bend, complete in place <u>Four Hundred Forty</u> Dollars <u>NO</u> Cents	\$ <u>440.00</u>	\$ <u>440.00</u>
210	1	EA.	27" RCP Type B Hdwl, complete in place <u>One Thousand</u> Dollars <u>NO</u> Cents	\$ <u>1,000.00</u>	\$ <u>1,000.00</u>
211	2	EA.	Pipe-to-Pipe Connection, complete in place <u>Two Hundred Fifty</u> Dollars <u>NO</u> Cents	\$ <u>250.00</u>	\$ <u>500.00</u>
212	1	C.Y.	6" concrete cap over sanitary sewer, complete in place <u>One Hundred</u> Dollars <u>NO</u> Cents	\$ <u>100.00</u>	\$ <u>100.00</u>
213	20	S.Y.	Sawcut and remove existing concrete pavement including hauling and disposal <u>Twenty</u> Dollars Cents	\$ <u>20.00</u>	\$ <u>400.00</u>
214	20	S.Y.	6" 3,000 psi reinforced concrete pavement replacement including subgrade preparation, complete in place <u>Forty</u> Dollars <u>NO</u> Cents	\$ <u>40.00</u>	\$ <u>800.00</u>

BID SCHEDULE C
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 3
(Cont'd)

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
215	10	S.Y.	Remove and dispose of existing concrete channel <u>Thirteen</u> Dollars <u>Fifty</u> Cents	\$ <u>13.50</u>	\$ <u>135.00</u>
216	45	S.Y.	Remove and dispose of existing rock channel <u>Thirteen</u> Dollars <u>Fifty</u> Cents	\$ <u>13.50</u>	\$ <u>607.50</u>
217	12	L.F.	Remove and dispose of existing 15" RCP <u>Four</u> Dollars <u>Seventeen</u> Cents	\$ <u>4.17</u>	\$ <u>50.04</u>
218	33	S.Y.	Remove and replace existing stone riprap including constructing 24" concrete toe, complete in place <u>One Hundred Sixty Five</u> Dollars <u>NO</u> Cents	\$ <u>165.00</u>	\$ <u>5445.00</u>
219	100	S.F.	Remove and replace existing 4" reinforced concrete walk, complete in place <u>Four</u> Dollars <u>NO</u> Cents	\$ <u>4.00</u>	\$ <u>400.00</u>
220	330	S.Y.	Bermuda sod including application and maintenance during construction, complete in place <u>Seven</u> Dollars <u>Eighty</u> Cents	\$ <u>7.80</u>	\$ <u>2574.00</u>
221	550	L.F.	Trench safety system <u>NO</u> Dollars <u>Fifty</u> Cents	\$ <u>0.50</u>	\$ <u>275.00</u>

**BID SCHEDULE C
DRAINAGE IMPROVEMENTS
WINNWOOD/BELLBROOK ESTATES PHASE 3
(Cont'd)**

<u>Item No.</u>	<u>Est. Quan.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Amount</u>
222	560	S.Y.	Bermuda hydromulch including application and maintenance during construction, complete in place <u>Two</u> Dollars <u>Thirty Two</u>	\$ <u>2.32</u>	\$ <u>1299.²⁰</u>

TOTAL PROJECT BID - SCHEDULE C

Sixty Two Thousand Two Hundred Thirty Four Dollars
Ninety Seven Cents

\$ 62,234.97
62,232.45

The completion time for this contract is 60 days.

BID SCHEDULE SUMMARY

BID SCHEDULE A

TOTAL LABOR \$ 25,000

(Line 1) \$ Twenty Five Thousand
(total price in words)

TOTAL OTHER INCIDENTALS \$ 11,541.39

(Line 2) \$ Eleven Thousand Five Hundred Forty One Dollars + Thirty nine cents
(total price in words)

TOTAL MATERIALS INCORPORATED \$ 12,500

(Line 3) \$ Twelve Thousand Five Hundred
(total price in words)

TOTAL BID SCHEDULE A \$ 49,041.39

(Lines 1, 2 & 3) \$ Forty Nine Thousand Forty One Dollars + Thirty nine cents
(total price in words)

BID SCHEDULE B

TOTAL LABOR \$ 30,000

(Line 1) \$ Thirty Thousand Dollars no cents
(total price in words)

TOTAL OTHER INCIDENTALS \$ 8,933.07

(Line 2) \$ Eight Thousand Nine Hundred Thirty three Dollars + Seven cents
(total price in words)

TOTAL MATERIALS INCORPORATED \$ 15,000

(Line 3) \$ Fifteen Thousand Dollars no cents
(total price in words)

TOTAL BID SCHEDULE B \$ 53,933.07

(Lines 1, 2 & 3) \$ Fifty Three Thousand Nine Hundred thirty three dollars + Seven cent
(total price in words)

BID SCHEDULE C

TOTAL LABOR \$ 35,000

(Line 1) \$ Thirty Five Thousand Dollars
(total price in words)

TOTAL OTHER INCIDENTALS \$ 10,234.97

(Line 2) \$ Ten Thousand Two Hundred Thirty Four Dollars + Twenty seven cent
(total price in words)

TOTAL MATERIALS INCORPORATED \$ 17,000

(Line 3) \$ Seventeen Thousand Dollars
(total price in words)

TOTAL BID SCHEDULE C \$ 62,234.97

(Lines 1, 2 & 3) \$ Sixty Two Thousand Two Hundred Thirty Four Dollars + ninety seven cents
(total price in words)

A Corporation

By RADICH CONSTRUCTION Co., Inc.
(Corporation Name)

TEXAS
(State of Incorporation)

By MILAN J. RADICH
(Name of Person Authorized to Sign)

Gil J. Radich PRESIDENT
(Title)

(Corporate Seal)

Attest Gil J. Radich
(Secretary)

Business address: P.O. Box 1355
Keller, TX 76248

Phone No. (817) 428-6116 FAX
817 929-9360

A Joint Venture

By _____
(Name)

(Address)

By _____
(Name)

(Address)

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

Contact Phil Allison