AGENDA REGULAR DRAINAGE MEETING FEBRUARY 14, 2018 AT 8:30 AM

- 1. Open Meeting
- 2. Approve Agenda
- Approve Minutes
 January 24, 2018 Regular Drainage Meeting

Documents:

1 24 2018 - DRAINAGE MINUTES.PDF

4. Approve Claims For Payment

Pay Date of Friday, February 16, 2018

Documents:

DRAINAGE CLAIM EDIT LISTING.6788001.PDF

- 5. DD 72 Discuss, With Possible Action, Contractor Updates
- 6. DD 78 Approve Claim For Damages #13 For Robert McCollom

Documents:

DD 78 CLAIM FOR DMGS 13.PDF

7. DD 22 - Discuss Current Projects And Set Landowner Meeting

Documents:

DD 22 - ALTERNATIVES FOR COMBINED MAIN AND SUPPLEMENTAL TILE PROJECT_REDUCED.PDF

- 8. DD 22 Discuss, With Possible Action, Updates Regarding Work Order #198
- 9. DD 143 Discuss, With Possible Action, Road Crossing Authority
- 10. Discuss, With Possible Action, Reclassification Commission Rates
- 11. Acknowledge Receipt Of CGA 2018 Rate Schedule

Documents:

DRAINAGE HOURLY RATES 2018 - RYKEN AND CGA COMPARISON.PDF HOURLY TITLES AND RATES.PDF

12. Other Business

13. Adjourn Meeting

REGULAR DRAINAGE MEETING

1/24/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisors Chairman, BJ Hoffman, opened the meeting. Also present were Hardin County Supervisors, Lance Granzow and Renee McClellan; Residents, Jerry Kramer and Aaron Budweg; Lee Gallentine and James Sweeney with Clapsaddle-Garber Associates (CGA); Deputy Auditor, Nancy Lauver.

2. Approve Agenda

McClellan moved, Granzow seconded to approve the agenda as presented. All ayes. Motion carried.

Approve Minutes Of January 10, 2018 Regular Drainage Meeting
 Granzow moved, McClellan seconded to approve the minutes of the January 10, 2018 regular drainage meeting.
 All ayes. Motion carried.

4. Approve Claims For Payment

Granzow moved, McClellan seconded to approve the claims for payment with pay date of Friday, January 26, 2018. All ayes. Motion carried.

DD 1 Gehrke Inc. 22386.38

DD 72 The Davis Brown Law Firm 1375.00

DD 72 M D Construction, Inc 18153.00

DD 77 Williams Excavation LLC 2012.80

DD 78 Clapsaddle-Garber Assoc 2637.50

DD 98 Clapsaddle-Garber Assoc 955.00

DD 133 Clapsaddle-Garber Assoc 654.30

5. DD 122 & DD 8 - Approve Change Order #1

McClellan moved, Granzow seconded to approve Change Order #1 with Cole Excavating increasing the contract by \$3,743.60 due to different materials and size of tile used. All ayes. Motion carried.

6. DD 78 - Approve Claim For Damages #13 For Bob McCollom

Granzow moved, McClellan seconded to table any action regarding Claim for Damages #13 for Bob McCollom in the amount of \$1,375.55. All ayes. Motion carried.

7. DD 143 - Acknowledge Receipt Of Completion Report And Set Hearing Date

Granzow moved, McClellan seconded to acknowledge receipt of the Completion Report on Repairs to Main Tile dated January 24, 2018 and to set the hearing date as Wednesday, February 14, 2018 at 11:00 a.m in the large conference room of the Hardin County Courthouse. All ayes. Motion carried.

8. DD 1 - Acknowledge Receipt Of Completion Report And Set Hearing Date

McClellan moved, Granzow seconded to acknowledge receipt of the Completion Report on Repairs to Main Tile, Outlet and Waterway Main Tile dated January 23, 2018 and to set the hearing date as Wednesday, March 7, 2018 at 11:00 a.m. in the large conference room of the Hardin County Courthouse. All ayes. Motion carried.

9. DD 1 - Approve Reclassification Report And Set Hearing Date

McClellan moved, Granzow seconded to acknowledge receipt of the Reclassification Commission Report for Main dated January 17, 2018 and to set the hearing date as Wednesday, March 7, 2018 at 11:30 a.m. in the large conference room of the Hardin County Courthouse. All ayes. Motion carried.

10. DD 72 - Approve Reclassification Report And Set Hearing Date

Granzow moved, McClellan seconded to acknowledge receipt of the Reclassification Commission Report for Main dated January 17, 2018 and to set the hearing date as March 7, 2018 at 2:00 p.m. in the large conference room of the Hardin County Courthouse. All ayes. Motion carried.

11. DD 72 - Discuss, With Possible Action, Contractor Updates

The current status of the project was discussed. No action taken.

- DD 123 Discuss, With Possible Action, Repair Summary For Work Order #188
 Granzow moved, McClellan seconded to bid project with DD 77 Work Order #193 and DD 41 Work Order #194. All ayes. Motion carried.
- 13. DD 77 Discuss, With Possible Action, Repair Summary For Work Order #193
 Granzow moved, McClellan seconded to bid project with DD 123 Work Order #188 and DD 41 Work Order #194.
 All ayes. Motion carried.
- 14. DD 41 Discuss, With Possible Action, Repair Summary For Work Order #194
 Granzow moved, McClellan seconded to bid project with DD 123 Work Order #188 and DD 77 Work Order #193
 and to meet with landowners of DD 41 when open bids. All ayes. Motion carried.
- 15. Discuss, With Possible Action, Regular Drainage Meetings Scheduled For January 31, 2018 & March 14, 2018 It was discussed that there will be no drainage meetings scheduled for Wednesday January 31, 2018 and Wednesday, March 14, 2018.
- 16. Other Business None
- 17. Adjourn Meeting McClellan moved, Granzow seconded to adjourn the meeting. All ayes. Motion carried.

Drainage Claim Edit Listing.6788001.txt Drainage Accounting Claim Edit Listing

DATE- 2/09/18 Hardin County

Claim# Vendor# Vendor Name	Description	Claim Date	Pay Date	Order Date	e Deliv Date	Sep War DNP
0003266 0062302 Clapsaddle-Garber Associ	Seq Ditch Description		Amount	Vdr Invc#	Vdr Invc Dt	N N PO#
	 001 51045 DD 22		495.00	36569	1/31/2018	0000176
0003267 0002925 Cole Excavating	DD 122 PAY EST 2 Seq Ditch Description	2/14/2018	2/16/2018 Amount	3 1/01/0001 Vdr Invc#	1/01/0001 Vdr Invc Dt	
	001 51137 DD 122					0000160
0003277 0062302 Clapsaddle-Garber Associ						N N PO#
	001 51157 DD 143					0000059
0003278 0062302 Clapsaddle-Garber Associ	Seq Ditch Description		Amount	Vdr Invc#	Vdr Invc Dt	N N PO#
	001 51114 DD 86				2/08/2018	0000172
0003279 0062302 Clapsaddle-Garber Associ	Seq Ditch Description		Amount	Vdr Invc#	Vdr Invc Dt	PO#
	001 51246 DD 55 Div 3 Lat 9C					
0003280 0062302 Clapsaddle-Garber Assoc	DD 136 REPAIR 12/21-1/31/ Seq Ditch Description	2/14/2018	2/16/2018 Amount	 B	 1/01/0001 Vdr Invc Dt	 N N PO#
	001 51150 DD 136			36628	2/08/2018	0000146
0003281 0062302 Clapsaddle-Garber Associ	DD 8 REPAIR 12/11/17-1/31 Seq Ditch Description	2/14/2018	2/16/2018 Amount	 3	 	 N N PO#

Drainage Claim Edit Listing.6788001.txt

	 001 51020 DD 8	1,072.25	36629	2/08/2018	0000132
0003282 0062302 Clapsaddle-Garber Assoc	DD 131 REPAIR 12/21-1/31/ Seq Ditch Description			 1	
	001 51146 DD 131	450.70	36630	2/08/2018	0000166
0003283 0062302 Clapsaddle-Garber Assoc	DD 1 COMPL RPT 12/16-1/31 Seq Ditch Description			 1	
	001 51001 DD 1	241.55	36633	2/08/2018	0000091
0003284 0062302 Clapsaddle-Garber Assoc	DD 1 COMP RPT 12/21/17-1/ Seq Ditch Description			1 1/01/0001 Vdr Invc Dt	
	001 51001 DD 1	2,899.85	36634	2/08/2018	0000091
0003285 0062302 Clapsaddle-Garber Assoc	DD 41 REPAIR 12/16-1/31/1 Seq Ditch Description	2/14/2018 2/16/203 Amount	 8 1/01/0003 Vdr Invc#	 1 1/01/0001 Vdr Invc Dt	 N N PO#
	001 51066 DD 41	3,976.20	36635	2/08/2018	0000194
0003286 0062302 Clapsaddle-Garber Assoc	DD 123 REPAIR SVCS TO 1/3 Seq Ditch Description	2/14/2018 2/16/203 Amount	 .8 1/01/0003 Vdr Invc#	 1	 N N PO#
	 001 51138 DD 123 Main	1,597.80	36636	2/08/2018	0000188
0003287 0062302 Clapsaddle-Garber Assoc	DD 25 LAT 3 SVCS TO 1/31/ Seq Ditch Description	2/14/2018 2/16/203 Amount	 8 1/01/0003 Vdr Invc#	 1 1/01/0001 Vdr Invc Dt	 N N PO#
	001 51048 DD 25	1,997.60	36637	2/08/2018	0000001
0003288 0062302 Clapsaddle-Garber Assoc	DD 72 IMPROVEMNT 11/25-1/ Seq Ditch Description	2/14/2018 2/16/203 Amount	 8 1/01/0003 Vdr Invc#	 1	 N N PO#
	001 51102 DD 72	4,988.00	36638	2/08/2018	0000071

0003289 0062302 Clapsaddle-Garber Assoc		2/14/2018	2/16/201	8 1/01/000	1 1/01/0001	N N
C	001 51137 DD 122		1,574.75	36639	2/08/2018	0000160
	Seq Ditch Description		Amount	Vdr Invc#	Vdr Invc Dt	PO#
(001 51106 DD 77		2,812.20	36649	2/08/2018	0000193
0003291 0062302 Clapsaddle-Garber Assoc	Seq Ditch Description		Amount	Vdr Invc#	Vdr Invc Dt	PO#
	 001 51245 DD 55 Div 3 Lat 9A		2,404.70	36650	2/08/2018	0000113
	DD 72 RECLASS SVCS 12/21- Seq Ditch Description	2/14/2018	2/16/201 Amount	8 1/01/000 Vdr Invc#	1 1/01/0001 Vdr Invc Dt	N N PO#
C	001 51102 DD 72		1,112.65	36651	2/08/2018	0000071
0003293 0062302 Clapsaddle-Garber Assoc		2/14/2018				
	001 51027 DD 14					
0003294 0062302 Clapsaddle-Garber Assoc	DD 133 INVESTIGATE 1/3-2/ Seq Ditch Description	2/14/2018	2/16/201 Amount	8 1/01/000 Vdr Invc#	 1 1/01/0001 Vdr Invc Dt	 N N PO#
-	001 51147 DD 133 (Also DD 13	2-Combi	137.00	36653	2/08/2018	0000196
0003295 0062302 Clapsaddle-Garber Assoc	Seq Ditch Description		Amount	 8 1/01/000 Vdr Invc#	1 1 1/01/0001 Vdr Invc Dt	 N N PO#
-	001 51045 DD 22		1,658.00	36654	2/08/2018	0000192



Claim #	13	District #	78		24, e		Work	Order# _7	78
Township	Jackson	Sect	ion 35	Twp	88	Rge	20	Qtr Sec	SW1/4
Parcel Tax IDs	882035300004	Makampaka sa singgan da makampaka ka sa singgan sa singgan sa singgan sa singgan sa singgan sa singgan sa sing		ber derer dat und vick ber elektricht er eine entwicklich der eine		politica in a constanti di Constanti di Sociali di Soci	2004 - J. J. Dorman Britanija () 1 1 de jaron de 200 0		
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Name	Bob McCollom	217	& Judy Mc 79 730th A	venue	#1077748	AMOUNT COMPA			
Address 2/779	24191 730th Ave	CONTRACTOR	Colo, IA 50	056 - 91	609)	*******			
	Colo, IA 50056-85 ₡ <i>©</i> 9		annamagist a seriencija e rest filozo est sast antala antala ki escel e celejano			ns Autoro November			
Phone	(515) 460-2103	A CPANNESS SILLA POPULA STREAM A STREAM A STREAM A STREAM AND A STREAM							
Email Address	mccollom@ne	tins.net		a politicina de la completa considera de constitución de la constituci	entermonation volt generalistic zu ammitte You's volt less fanzagence		and the second s	Novel New Predictions; developed execution of Except	da Narra (ilaz 1550-) está de la disconeció de la colonida de sistema de sission horosom
Landowner (if	different) Godfrey & Wo	olsey Iowa Farms	LLC			WASHI AMOSILI			
Claim Type									
	✓ Crop Damage								
	Crop Year		2017	Crop	Year		Proposition of the Astronomeres		BELEFORD AND AND AND AND AND AND AND AND AND AN
	Type of Crop	Generalise of philippinias, promess becomes a complete (prosin-brondy-sec	Corn	Туре	e of Crop		BUTTON A PARTIE AND A POST OF THE PARTIE AND A PARTIE AND	Memory on the manager on an Vanishador Manager	COSSIDERATION SPECIAL AND LEGISLATION FOR 401-12
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	Yield Per Acre	208	bushels	Yield	d Per Acre			Marine comment When speakers and the	bushels
	Unit Value	\$ 3.96	/bushel	Unit	Value		\$	A CONTROL OF THE PARTY OF THE P	/bushel
	☐ Fence Damage								
	Outlet Damage								
	Other:	at his nimes i yen siyakt oʻr cimini men munimor dugi makkimidili (A kiminin elektri sur) yokani				Varieti viine a injentisjon			na da Americana (1900) de la companio de productivo de la companio de la companio de la companio de la companio
Desired Comp	ensation								
	✓ Monetary Payment								
	☐ Repair of Damages								
	Other:				NAMES OF THE PERSON OF THE PER	of equalities and the second states of the second s			
Total Amount									
	Crop Damages (Acres X Yie	eld X Unit Value)	\$ 1,3	75,	55	\$		and the Appendix of the Control of t	
	Other Damages (Fence, Ou			www.commerce-(fac-anticerosystem)	SALT SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECT				
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Claima	ant Signature				Date				
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Approvál Sigi	nature					Date			8

OPINIONS OF PROBABLE COST DRAINAGE DISTRICT NO. 22 OPTIONS

Date: January 2017





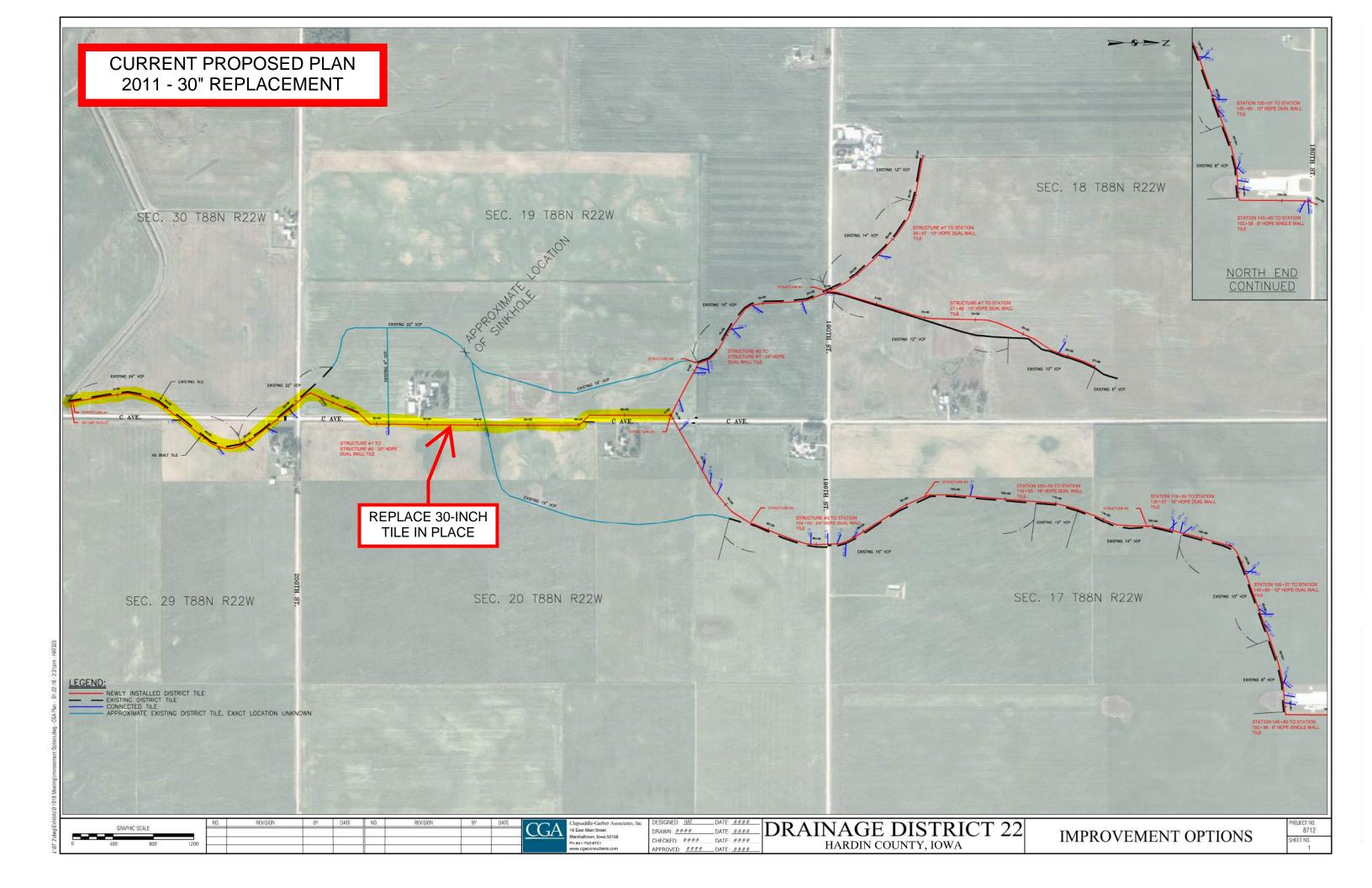
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		SE BID RUCTION	SI ES	FESSIONAL ERVICES STIMATE ASE BID)	ERNATE BID (RCP) ISTRUCTION	SERV. ESTI	FESSIONAL ICES ADDER IMATE FOR ERNATE BID	LAND / EASEMENT AGREEMENTS	cor	NTINGENCY	TOTAL		ASE BID STRUCTION	s	ERVICES MATE (RASE	RNATE BID (RCP) STRUCTION	SERVICE ESTIM	SSIONAL ES ADDER ATE FOR NATE BID	LANI EASEN AGREEN	IENT	CON	TINGENCY	TOTAL	GRA	ND TOTAL
Current 30" Replacement	\$ 3	54,689.08	\$	72,468.00	\$ 98,752.00	\$	27,649.00	\$ -	\$	45,827.92	\$ 599,38	36.00	\$ 85,810.92	\$	17,532.00	\$ 8,400.00	\$	2,351.00	\$	-	\$	9,520.08	\$ 123,614.00	\$	723,000
Modification A	\$ 7	61,900.60	\$	165,033.00	\$ 290,805.00	\$	76,440.00	\$ -	\$	95,920.40	\$ 1,390,09	99.00	\$ 69,099.40	\$	14,967.00	\$ 13,545.00	\$	3,560.00	\$	-	\$	7,529.60	\$ 108,701.00	\$	1,498,800
Modification B	\$ 5	94,384.56	\$	148,187.00	\$ 169,712.00	\$	46,331.00	\$ -	\$	76,354.44	\$ 1,034,96	9.00	\$ 131,615.44	\$	32,813.00	\$ 13,440.00	\$	3,669.00	\$	-	\$	14,493.56	\$ 196,031.00	\$	1,231,000
Modification C	\$ 4	46,821.75	\$	111,065.00	\$ 59,520.00	\$	14,981.00	\$ 120,000.00	\$	50,785.25	\$ 803,1	73.00	\$ 76,178.25	\$	18,935.00	\$ 31,860.00	\$	8,019.00	\$	-	\$	10,834.75	\$ 145,827.00	\$	949,000
Modification D	\$ 4	18,935.40	\$	102,758.00	\$ 5,200.00	\$	1,291.00	\$ 210,000.00	\$	42,435.60	\$ 780,62	20.00	\$ 111,064.60	\$	27,242.00	\$ 64,500.00	\$	16,009.00	\$	-	\$	17,564.40	\$ 236,380.00	\$	1,017,000

Modification A: Replace both supplemental 30-inch and original main tile with a single, larger tile following old route.

Modification B: Replace supplemental 30-inch in place on 2011 alignment and replace original main tile with 24-inch in original alignment.

Modification C: Open Ditch to south side of Silvest acreage. From there upstream, replace supplemental 30-inch in place on 2011 alignment and tie-into original main tile with 24-inch.

Modification D: Open Ditch to replace 2011 supplemental 30-inch, connect original main tile with 18-inch.



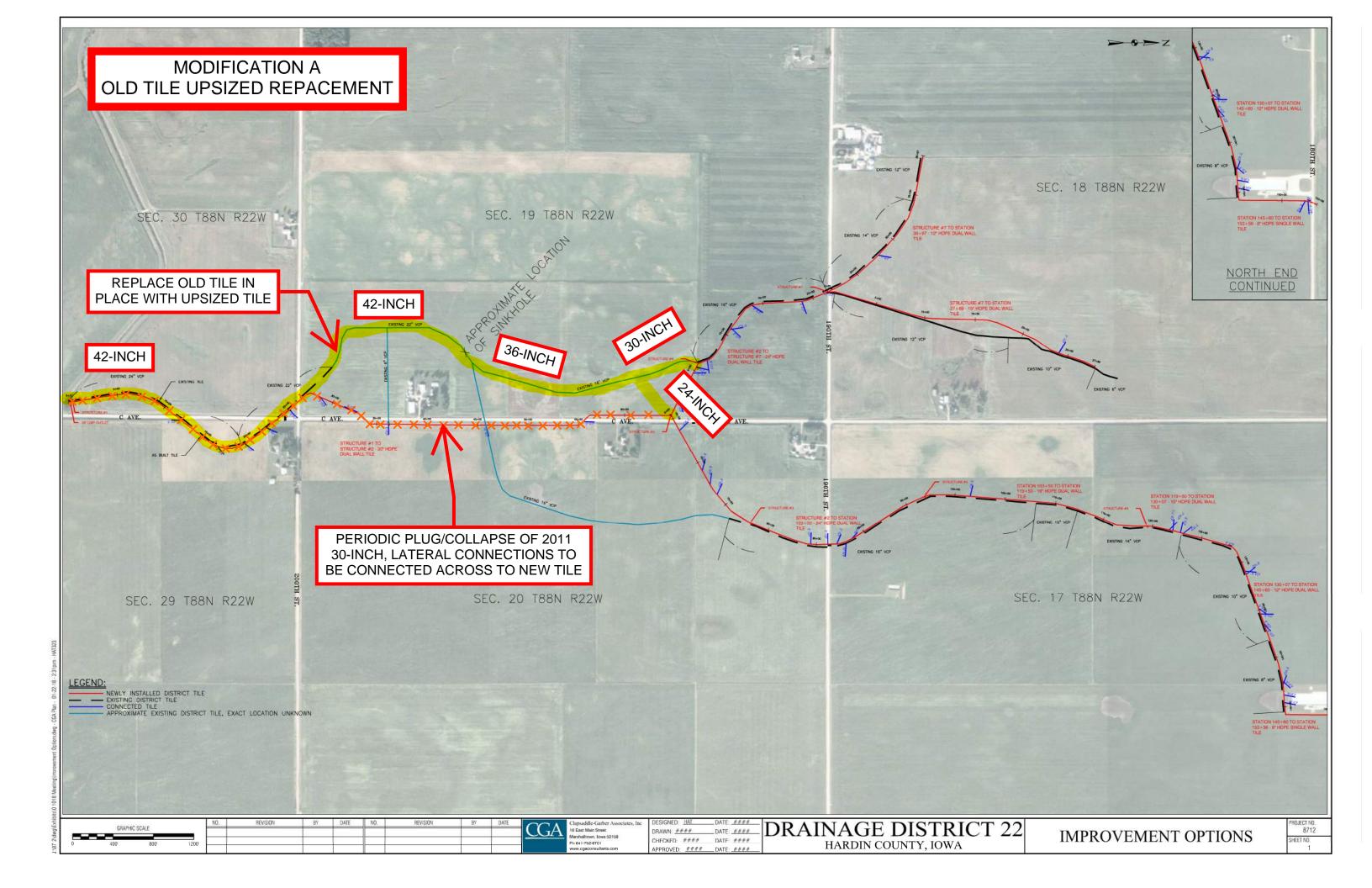
CURRENT PROPOSED PLAN - DRAINAGE DISTRICT NO. 22

Date: January 2017



BASE BID					
ITEM NO.	DESCRIPTION	QUANTITY		UNIT COST	<u>EXTENSION</u>
	2011 of DOLLYDD ODY THE THE	6.007		447.00	4222 652 22
1	30" Ø POLYPROPYLENE TILE	6,397	LF 	\$47.00	\$300,659.00
2	CCTV INSPECTION OF ROADWAY CROSSING TILE	300	LF	\$5.00	\$1,500.00
3	30" Ø POLYPROPYLENE TILE - ROAD CROSSING	300		\$100.00	\$30,000.00
4	CONNECTION TO ROAD CROSSING TILE TO REMAIN	_	EACH	\$400.00	\$3,200.00
5	CONNECTION TO EXISTING STRUCTURE		EACH	\$800.00	\$1,600.00
6	PRIVATE TILE OR INTAKE CONNECTION		EACH	\$400.00	\$4,000.00
7	INTAKE, ROAD ROW	10	EACH	\$3,500.00	\$35,000.00
8	REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE	6,697	LF	\$7.00	\$46,879.00
9	CLEANUP, SHAPING, AND SEEDING	1	LS	\$4,268.00	\$4,268.00
10	CCTV INSPECTION OF TILE - POST CONSTRUCTION	6,697	LF	\$2.00	\$13,394.00
		Total Budgeted Cor	structio	n Costs (PE PIPE):	\$440,500
ALTERNATE B	ID PROJECT QUANTITIES				
1A	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	6,397	LF	\$18.00	\$115,146
3A	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	300	LF	\$18.00	\$5,400
DEDUCT 10	CCTV INSPECTION OF TILE - POST CONSTRUCTION	6,697	LF	-\$2.00	-\$13,394
		Total Budgeted Cons	truction	Costs (RCP PIPE):	\$547,652
			1	0% +/- Contingency	\$ 55,348
		Professiona		Estimate (Base Bid)	
	Professional Services Estimate (Additional Con	struction Observation for Alterna	te Bid - SI	ower Construction)	
				TOTAL	\$723,000

	La	andowner Share	County Share
Base Bid	\$	354,689.08	\$ 85,810.92
Alternate Bid	\$	98,752.00	\$ 8,400.00
Contingency	\$	45,827.92	\$ 9,520.08
Professional Services (Base Bid)	\$	72,468.00	\$ 17,532.00
Professional Services (Alternate Bid)	\$	27,649.00	\$ 2,351.00
	\$	599,386.00	\$ 123,614.00



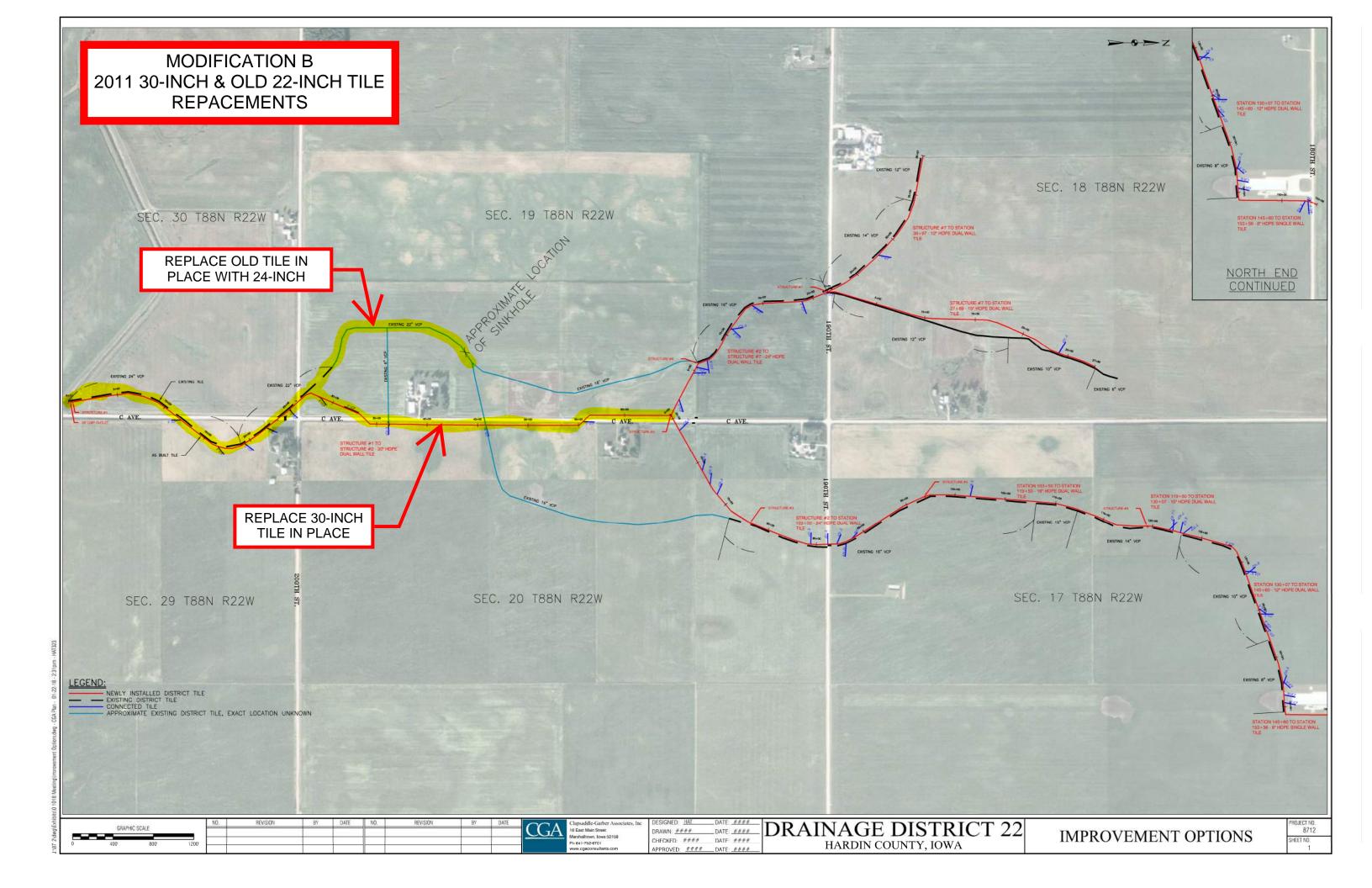
MODIFICATION A - DRAINAGE DISTRICT NO. 22

Date: January 2017



ASE BID					
ITEM NO.	DESCRIPTION	QUANTITY		UNIT COST	EXTENSION
1	42" Ø POLYPROPYLENE TILE	4,570	LF	\$80.00	\$365,600.0
2	36" Ø POLYPROPYLENE TILE	1,750	LF	\$65.00	\$113,750.0
3	30" Ø POLYPROPYLENE TILE	700	LF	\$47.00	\$32,900.0
4	24" Ø POLYPROPYLENE TILE	1,400	LF	\$43.00	\$60,200.0
5	48" Ø OUTLET	1	EACH	\$6,000.00	\$6,000.0
6	42" Ø POLYPROPYLENE TILE - ROAD CROSSING	180	LF	\$160.00	\$28,800.0
7	NEW JUNCTION STRUCTURES	5	EACH	\$5,000.00	\$25,000.0
8	PRIVATE TILE OR INTAKE CONNECTION	20	EACH	\$400.00	\$8,000.0
9	PRIVATE TILE LINE EXTENSIONS	1	LS	\$30,000.00	\$30,000.0
10	INTAKE, ROAD ROW	6	EACH	\$3,500.00	\$21,000.0
11	DISCONNECT AND CRUSH SUPPLEMENTAL TILE	6,697	LF	\$10.00	\$66,970.0
12	REMOVAL AND DISPOSAL OF MAIN TILE	7,200	LF	\$7.00	\$50,400.0
13	CLEANUP, SHAPING, AND SEEDING	1	LS	\$5,180.00	\$5,180.0
14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	8,600	LF	\$2.00	\$17,200.0
		Total Budgeted Con	structio	n Costs (PE PIPE):	\$831,00
ALTERNATE B	ID PROJECT QUANTITIES				
1A	42" 2000D RCP IN PLACE OF 42" POLYPROPYLENE	4,570	LF	\$45.00	\$205,65
2A	36" 2000D RCP IN PLACE OF 36" POLYPROPYLENE	1,750	LF	\$40.00	\$70,00
3A	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	700	LF	\$18.00	\$12,60
4A	24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE	1,400	LF	\$18.00	\$25,20
6A	42" 2000D RCP IN PLACE OF 42" POLYPROPYLENE	180	LF	\$45.00	\$8,10
DEDUCT 14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	8,600	LF	-\$2.00	-\$17,20
		Total Budgeted Cons	truction	Costs (RCP PIPE):	\$1,135,35
			1	0% +/- Contingency	\$ 103,450
				Estimate (Base Bid)	
	Professional Services Estimate (Additional Co	onstruction Observation for Alterna	te Bid - Sl	ower Construction)	\$ 80,000
				TOTAL	\$1,498,80

	L	andowner Share	County Share
Base Bid	\$	761,900.60	\$ 69,099.40
Alternate Bid	\$	290,805.00	\$ 13,545.00
Contingency	\$	95,920.40	\$ 7,529.60
Professional Services (Base Bid)	\$	165,033.00	\$ 14,967.00
Professional Services (Alternate Bid)	\$	76,440.00	\$ 3,560.00
	\$	1,390,099.00	\$ 108,701.00



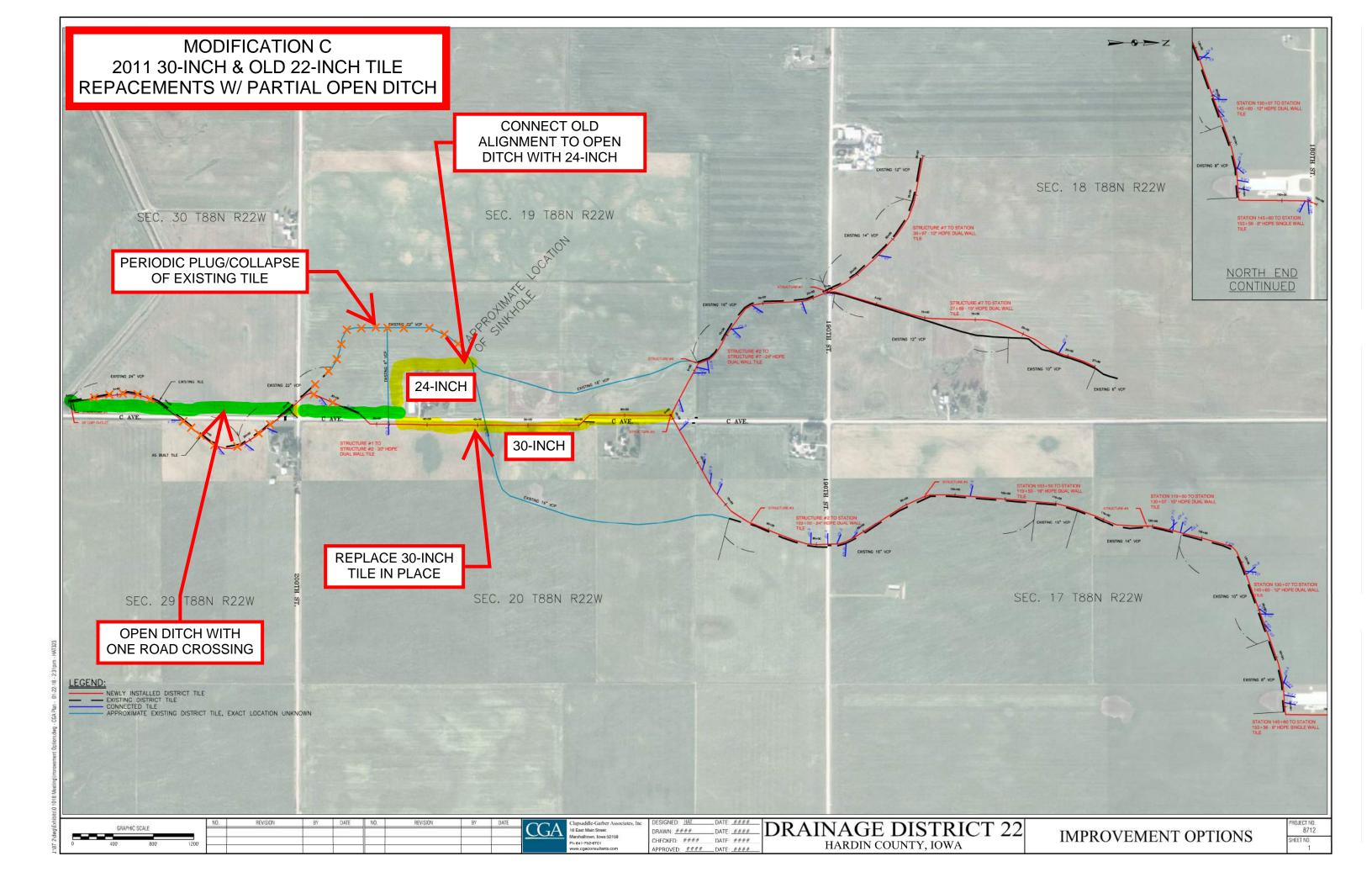
MODIFICATION B - DRAINAGE DISTRICT NO. 22

Date: January 2017



DACE DID					
BASE BID ITEM NO.	DESCRIPTION	QUANTITY		UNIT COST	EXTENSION
112111101	<u>DESCRIPTION</u>	<u>QOARTITI</u>		<u> </u>	EXTENSION
1	30" Ø POLYPROPYLENE TILE	6,397	LF	\$47.00	\$300,659.00
2	24" Ø POLYPROPYLENE TILE	4,570	LF	\$43.00	\$196,510.00
3	CCTV INSPECTION OF ROADWAY CROSSING TILE	300	LF	\$5.00	\$1,500.00
4	30" Ø POLYPROPYLENE TILE - ROAD CROSSING	300	LF	\$100.00	\$30,000.00
5	24" Ø POLYPROPYLENE TILE - ROAD CROSSING	180	LF	\$90.00	\$16,200.00
6	NEW JUNCTION STRUCTURE	1	EACH	\$5,000.00	\$5,000.00
7	CONNECTION TO ROAD CROSSING TILE TO REMAIN	8	EACH	\$400.00	\$3,200.00
8	CONNECTION TO EXISTING STRUCTURE	3	EACH	\$800.00	\$2,400.00
9	PRIVATE TILE OR INTAKE CONNECTION	18	EACH	\$400.00	\$7,200.00
10	INTAKE, ROAD ROW	16	EACH	\$3,500.00	\$56,000.00
11	REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE	6,697	LF	\$7.00	\$46,879.00
12	REMOVAL AND DISPOSAL OF MAIN TILE	4,750	LF	\$7.00	\$33,250.00
13	CLEANUP, SHAPING, AND SEEDING	1	LS	\$4,308.00	\$4,308.00
14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	11,447	LF	\$2.00	\$22,894.00
	To	otal Budgeted Con	structio	n Costs (PE PIPE):	\$726,000
ALTERNATE BI	D PROJECT QUANTITIES				
1A	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	6,397	LF	\$18.00	\$115,146
2A	24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE	4,570	LF	\$18.00	\$82,260
4A	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	300	LF	\$18.00	\$5,400
5A	24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE	180	LF	\$18.00	\$3,240
DEDUCT 14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	11,447	LF	-\$2.00	-\$22,894
	Tot	al Budgeted Cons	truction	Costs (RCP PIPF)	\$909,152
	100	ai baagetea cons	craction	costs (Net 1 ii L).	4303,132
			1	0% +/- Contingency	\$ 90,848
		Professiona	l Services	Estimate (Base Bid)	\$ 181,000
	Professional Services Estimate (Additional Construction Obs	servation for Alterna	te Bid - SI	ower Construction)	\$ 50,000
				TOTAL	\$1,231,000

	Landowner Share	County Share
Base Bid	\$ 594,384.56	\$131,615.44
Alternate Bid	\$ 169,712.00	\$ 13,440.00
Contingency	\$ 76,354.44	\$ 14,493.56
Professional Services (Base Bid)	\$ 148,187.00	\$ 32,813.00
Professional Services (Alternate Bid)	\$ 46,331.00	\$ 3,669.00
	\$ 1,034,969.00	\$ 196,031.00



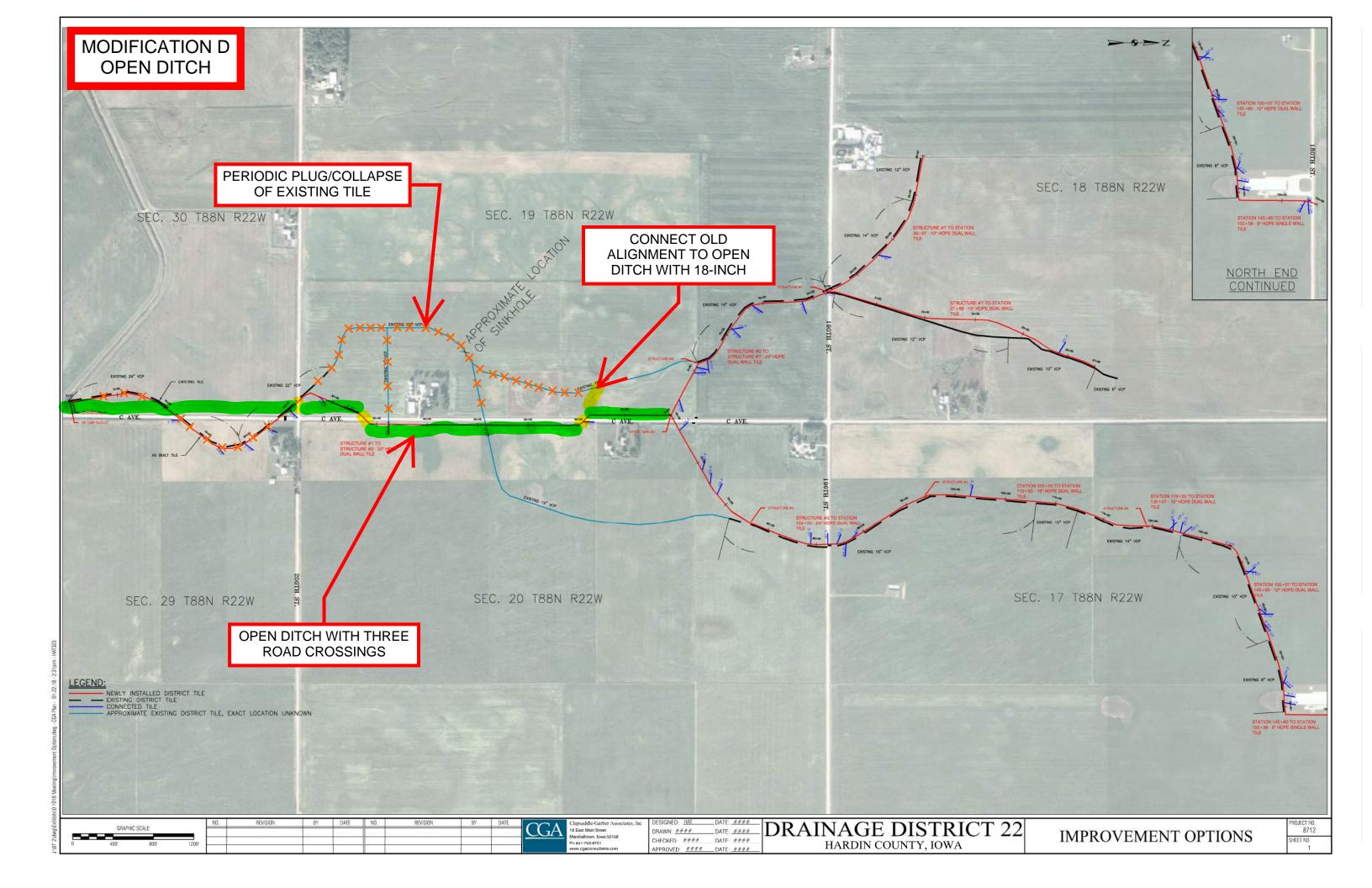
MODIFICATION C - DRAINAGE DISTRICT NO. 22

Date: January 2017



2 24" Ø POLYPROPYLENE TILE 3 OPEN DITCH CONSTRUCTION (EST AVG 10' DEEP) 3 OPEN DITCH CONSTRUCTION (EST AVG 10' DEEP) 3 OPEN DITCH CONSTRUCTION (EST AVG 10' DEEP) 4 30" Ø POLYPROPYLENE TILE - ROAD CROSSING 5 96" Ø CMP - ROAD CROSSING 6 96" Ø CMP - ROAD CROSSING 6 96" Ø CMP - ROAD CROSSING 7 36" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 EACH \$1,800.00 \$1,80 10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$4,000.00 \$22,00 11 PRIVATE TILE OR INTAKE CONNECTION 15 EACH \$4,000.00 \$22,00 12 INTAKE, ROAD ROW 14 EACH \$3,500.00 \$1,40,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,53 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$10.00 \$39,07 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$39,07 16 CLEANUP, SHAPRING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 TOtal Budgeted Construction Costs (PE PIPE): \$52.30 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 4D 4CT AND CRUSH SUPPLEMENTAL TILE 1 EACH \$0.00 8A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8D 4CT AND CRUSH SUPPLEMENTAL TILE 1 EACH \$0.00 8D 525 TOTAL BUDGETED CONSTRUCTION 3930 LF \$-\$2.00 -\$7 Land/Easement Agreements (Estimated 8 acres ® \$15K/dcres } \$100 -\$7 Land/Easement Agreements (Estimated 8 acres ® \$15K/dcres } \$100 -\$7 Professional Services SESTIMATER (Base Bid) \$100 -\$7	ITEM NO.	<u>DESCRIPTION</u>	<u>QUANTITY</u>		UNIT COST	EXTENSION
2 24" Ø POLYPROPYLENE TILE 3,140 LF \$43.00 \$49,02 3 OPEN DITCH CONSTRUCTION (EST AVG 10' DEEP) 3,425 LF \$35.00 \$119,83 4 30" Ø POLYPROPYLENE TILE - ROAD CROSSING 112.0 LF \$100.00 \$12,00 5 96" Ø CMP - ROAD CROSSING 6 0 LF \$475.00 \$22,50 6 96" Ø CMP - ROAD CROSSING 6 0 LF \$475.00 \$22,50 6 96" Ø CMP - ROAD CROSSING 7 36" Ø OUTLET 1 LEACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 LEACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 LEACH \$1,500.00 \$1,80 8 30" Ø CONNECTION TO EXISTING STRUCTURE 1 LEACH \$1,500.00 \$1,80 9 CONNECTION TO EXISTING STRUCTURE 1 LEACH \$4,000.00 \$2,00 11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$4,000.00 \$22,00 12 INTAKE, ROAD ROW 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$5,00.00 \$19,52 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 2,790 LF \$10.00 \$39,00 15 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$10.00 \$39,00 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$34,60 16 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 **TOTAL Budgeted Construction Costs (PE PIPE): \$523 **TERNATE BID PROJECT QUANTITIES** 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1A 30" 2000D RCP IN PLACE OF 50" CMP 34 BCT STRUCTURE 3523 **TOTAL BUDGETED CONSTRUCTION 3930 LF \$18.00 \$25 5A 96" RCP IN PLACE OF 30" POLYPROPYLENE 1 LEACH \$0.00 8A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF \$-52.00 570 **Land/Easement Agreements (Estimated 8 acres Ø \$15K/dare) \$ 100 **Land/Easement Agreements (Estimated 8 acres Ø \$15K/dare)						
3 OPEN DITCH CONSTRUCTION (EST AVG 10' DEEP) 3,425 LF \$35.00 \$119,87 4 30" ØPOLYPROPYLENE TILE - ROAD CROSSING 120 LF \$100.00 \$12,00 5 96" ØCMP ROAD CROSSING 60 LF \$475.00 \$28,55 6 96" ØCMP ROAD CROSSING 60 LF \$475.00 \$28,55 6 96" ØCMP APRON 2 EACH \$3,000.00 \$6,00 7 36" ØOUTLET 1 EACH \$3,800.00 \$1,80 8 30" ØOUTLET 1 EACH \$1,800.00 \$1,80 9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$4,000.00 \$32,00 10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 8 EACH \$4,000.00 \$32,00 11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$4,000.00 \$32,00 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,55 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$7.00 \$39,07 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$34,60 16 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,95 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 **TOTAL Budgeted Construction Costs (PE PIPE): \$523 **TERNATE BID PROJECT QUANTITIES** 1A 30" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 1,140 LF \$18.00 \$2.00 2A 24" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1,140 LF \$18.00 \$2.00 2A 24" 2000D RCP IN PLACE OF 96" CMP POST ON STRUCTION 2 EACH \$1,500.00 3A 96" RCP APRON IN PLACE OF 96" CMP POST ON STRUCTION 3930 LF \$2.00 \$7.86 **TOTAL BUDGET CONSTRUCTION 3930 LF \$3.00 3A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3.00 3A EXTEND 30" ØRCP AS OUTLET 1 EACH \$0.00 3B A EXTEND 30" ØRCP AS OUTLET 1 EACH \$0.00 3B A EXTEND 30" ØRCP AS OUTLET 1 EACH \$0.00 3B A EXTEND 30" ØRCP AS OUTLET 1 EACH \$0.00 3B A EXTEND 30" ØRCP AS OUTLET 1 EACH \$0.00 3CONTRACT AND EACH AS OUTLET 1 EACH \$0.		·	·		•	\$125,490
4 30" Ø POLYPROPYLENE TILE - ROAD CROSSING 5 96" Ø CMP - ROAD CROSSING 6 96" Ø CMP - ROAD CROSSING 6 96" Ø CMP APRON 2 EACH \$3,000.00 \$6,00 7 36" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 EACH \$1,500.00 \$1,80 8 30" Ø OUTLET 1 EACH \$1,500.00 \$1,50 9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$4,000.00 \$80 10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 8 EACH \$4,000.00 \$32,00 11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$4,000.00 \$32,00 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,55 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$10.00 \$39,07 15 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 4,860 LF \$10.00 \$39,07 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$39,07 15 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 **TOTAL Budgeted Construction Costs (PE PIPE): \$523 **TERNATE BID PROJECT QUANTITIES** **TOTAL Budgeted Construction Costs (PE PIPE): \$523 **TOTAL BUDGET QUANTITIES** **TOTAL BUDGET QUAN		•	·		•	\$49,020
5 96" Ø CMP - ROAD CROSSING 60 LF \$475.00 \$28,50 6 96" Ø CMP APRON 2 EACH \$3,000.00 \$6,00 7, 36" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 8 30" Ø OUTLET 1 EACH \$1,800.00 \$1,80 8 8 30" Ø OUTLET 1 EACH \$1,800.00 \$1,80 9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$1,500.00 \$3,50 19 CONNECTION TO EXISTING STRUCTURE 1 EACH \$4,000.00 \$32,00 11 PRIVATE TILE ON PEW ALIGNMENT 8 EACH \$4,000.00 \$32,00 11 PRIVATE TILE ON INTAKE CONNECTION 5 EACH \$400.00 \$2,00 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$510.00 \$39,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 3,907 LF \$10.00 \$48,60 15 DISCONNECT AND CRUSH MAIN TILE 3,907 LF \$10.00 \$48,60 16 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,955.	3		·		•	\$119,875
6 96" Ø CMP APRON 2 EACH \$3,000.00 \$6,00 7 36" Ø OUTLET 1 1 EACH \$1,800.00 \$1,80 8 30" Ø OUTLET 1 1 EACH \$1,800.00 \$1,80 9 CONNECTION TO EXISTING STRUCTURE 1 1 EACH \$4,000.00 \$1,80 10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 8 EACH \$4,000.00 \$32,00 11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$400.00 \$2,00 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,00 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,53 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$10.00 \$39,07 15 DISCONNECT AND CRUSH MAIN TILE 3,907 LF \$10.00 \$39,07 16 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,95 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 TOTAL Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2,670 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1,140 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 5A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3330 LF \$-52.00 \$-57 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimated & Baces & \$515K/acre) \$ 61 Land/Easement Agreements (Estimat		•			•	\$12,000
7 36" Ø OUTLET 1 EACH \$1,800.00 \$1,800.88 30" Ø OUTLET 1 EACH \$1,500.00 \$1,800.99 CONNECTION TO EXISTING STRUCTURE 1 EACH \$1,500.00 \$1,5		•			•	\$28,500
8 30" Ø OUTLET 1 EACH \$1,500.00 \$1,500 9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$800.00 \$88 EACH \$4,000.00 \$32,000 11 PRIVATE TILE TO NEW ALIGNMENT 8 EACH \$4,000.00 \$32,000 11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$400.00 \$2,000 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,000 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,530 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$7.00 \$19,530 15 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 4,860 LF \$10.00 \$48,600 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$48,600 16 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,950 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,860 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION TOTAL BUDGETED CONSTRUCTION COSTS (PE PIPE): \$523 **TERNATE BID PROJECT QUANTITIES** 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2,670 LF \$18.00 \$240 40 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1,140 LF \$18.00 \$240 40 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1,140 LF \$18.00 \$240 40 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 1,140 LF \$18.00 \$250 50 50 50 50 50 50 50 50 50 50 50 50 5		•				\$6,000
9 CONNECTION TO EXISTING STRUCTURE 1 EACH \$800.00 \$80 10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 11 PRIVATE TILE OR INTAKE CONNECTION 11 PRIVATE TILE OR INTAKE CONNECTION 12 INTAKE, ROAD ROW 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 15 DISCONNECT AND CRUSH MAIN TILE 16 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 18 OF TOTAL Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 96" CMP 30" 80" RCP IN PLACE OF 96" CMP 30" 80" RCP APRON IN PLACE OF 96" CMP 30" 80 SETEND 30" Ø RCP AS OUTLET 30" A EXTEND 30" Ø RCP AS OUTLET 30" CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF 300 SEACH	7	36" Ø OUTLET	1	EACH	\$1,800.00	\$1,800
10 EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT 11 PRIVATE TILE OR INTAKE CONNECTION 12 INTAKE, ROAD ROW 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 15 DISCONNECT AND CRUSH MAIN TILE 16 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 18 3,930 LF 19 STABLE BID PROJECT QUANTITIES 10 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 52" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 30" 2000D RCP IN PLACE OF 96" CMP 30" BILL SEEDING 30" 2000D RCP IN PLACE OF 96" CMP 30" CMP IN PLACE OF 96" CMP 30" RCP APRON IN PLACE OF 96" CMP 30" CMP IN PLACE OF 96" CMP APRON 30" EACH \$1,500.00 30" A EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 32 EACH \$1,500.00 33 OLF \$-\$2.00 35 A EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 32 EACH \$1,500.00 33 OLF \$-\$2.00 35 A EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 32 EACH \$1,500.00 33 OLF \$-\$2.00 34 EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 34 EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 34 EXTEND 24" Ø RCP AS OUTLET 35 A EXTEND 24" Ø RCP AS OUTLET 36 A EXTEND 24" Ø RCP AS OUTLET 37 A EXTEND 24" Ø RCP AS OUTLET 38 A EXTEND 24" Ø RCP AS OUTLET 39 A EXTEND 24" Ø RCP AS OUTLET 30 A EXTEND 24" Ø RCP AS OUTLET 31 EACH \$0.00 39 OLF \$-\$2.00 39 OLF \$-\$2.00 39 OLF \$-\$2.00 30 OLF \$	8	30" Ø OUTLET	1	EACH	\$1,500.00	\$1,500
11 PRIVATE TILE OR INTAKE CONNECTION 5 EACH \$400.00 \$2,000 12 INTAKE, ROAD ROW 4 EACH \$3,500.00 \$14,000 13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 2,790 LF \$7.00 \$19,53 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 3,907 LF \$10.00 \$39,07 L5 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$48,60 L6 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,95 L7 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,860 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$18.00 \$48 A0	9	CONNECTION TO EXISTING STRUCTURE	1	EACH	\$800.00	\$800
12	10	EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT	8	EACH	\$4,000.00	\$32,000
13 REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE 14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 15 DISCONNECT AND CRUSH MAIN TILE 16 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 18 3,930 LF 19 52.00 \$7,86 Total Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$18.00 \$25 6A 96" RCP IN PLACE OF 96" CMP APRON 7A EXTEND 30" Ø RCP AS OUTLET 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 BEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 2 EACH \$1.500.00 CF 57 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	11	PRIVATE TILE OR INTAKE CONNECTION	5	EACH	\$400.00	\$2,000
14 DISCONNECT AND CRUSH SUPPLEMENTAL TILE 1,000 \$39,07 15 DISCONNECT AND CRUSH MAIN TILE 4,860 LF \$10.00 \$48,60 16 CLEANUP, SHAPING, AND SEEDING 1 LS \$14,955.00 \$14,95 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 Total Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 BEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	12	INTAKE, ROAD ROW	4	EACH	\$3,500.00	\$14,000
15	13	REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE	2,790	LF	\$7.00	\$19,530
16 CLEANUP, SHAPING, AND SEEDING 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3,930 LF \$2.00 \$7,86 Total Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP APRON IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF - \$2.00 \$-\$7 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$61 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$120 Professional Services Estimate (Base Bid) \$130	14	DISCONNECT AND CRUSH SUPPLEMENTAL TILE	3,907	LF	\$10.00	\$39,070
Total Budgeted Construction Costs (PE PIPE): \$523	15	DISCONNECT AND CRUSH MAIN TILE	4,860	LF	\$10.00	\$48,600
Total Budgeted Construction Costs (PE PIPE): \$523 TERNATE BID PROJECT QUANTITIES	16	CLEANUP, SHAPING, AND SEEDING	1	LS	\$14,955.00	\$14,955
TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2,670 LF \$18.00 \$48 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 1,140 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 120 LF \$18.00 \$20 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	17	CCTV INSPECTION OF TILE - POST CONSTRUCTION	3,930	LF	\$2.00	\$7,860
TERNATE BID PROJECT QUANTITIES 1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2,670 LF \$18.00 \$48 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 1,140 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 120 LF \$18.00 \$20 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130			Total Budgeted Con	structio	n Costs (PE PIPE):	\$523,0
1A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 96" CMP 5A 96" RCP IN PLACE OF 96" CMP 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 7A EXTEND 30" Ø RCP AS OUTLET 7A EXTEND 30" Ø RCP AS OUTLET 7B EACH 8A EXTEND 24" Ø RCP AS OUTLET 7CTV INSPECTION OF TILE - POST CONSTRUCTION 7CTV INSPECTION OF TILE - POST CONSTRUCTION 7CTV INSPECTION Costs (RCP PIPE): **Solution** **Total Budgeted Construction Costs (RCP PIPE): \$614* **Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120* **Professional Services Estimate (Base Bid) \$ 130*						
2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 1,140 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 120 LF \$18.00 \$2 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	TERNATE B	ID PROJECT QUANTITIES				
2A 24" 2000D RCP IN PLACE OF 24" POLYPROPYLENE 1,140 LF \$18.00 \$20 4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 120 LF \$18.00 \$2 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 2 EACH \$1,500.00 \$3 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	1Δ	30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE	2 670	I F	\$18.00	\$48 (
4A 30" 2000D RCP IN PLACE OF 30" POLYPROPYLENE 5A 96" RCP IN PLACE OF 96" CMP 60 LF \$425.00 \$25 6A 96" RCP APRON IN PLACE OF 96" CMP APRON 7A EXTEND 30" Ø RCP AS OUTLET 1 EACH \$0.00 8A EXTEND 24" Ø RCP AS OUTLET 1 EACH \$0.00 DEDUCT 17 CCTV INSPECTION OF TILE - POST CONSTRUCTION 3930 LF -\$2.00 -\$7 Total Budgeted Construction Costs (RCP PIPE): \$614 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130			•			\$20,5
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Total Budgeted Construction Costs (RCP PIPE): \$614 10% +/- Contingency \$ 61 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130		•				-¢7.0
10% +/- Contingency \$ 61 Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130	DEDUCT 17	CETY INSPECTION OF THE - POST CONSTRUCTION	3530	LF	-32.00	-57,0
Land/Easement Agreements (Estimated 8 acres @ \$15K/acre) \$ 120 Professional Services Estimate (Base Bid) \$ 130			Total Budgatad Cana		C+- (DCD DIDE).	¢614
Professional Services Estimate (Base Bid) \$ 130			Total Budgeted Cons	truction	Costs (RCP PIPE):	Ş614 <i>,</i>
			Total Budgeted Cons		,	
			Land/Easement Agreements (Esti	10 mated 8 a	0% +/- Contingency acres @ \$15K/acre)	\$ 61,6 \$ 120,0
		Professional Services Estimate (Addition	Land/Easement Agreements (Esti	10 mated 8 a Services	0% +/- Contingency acres @ \$15K/acre) Estimate (Base Bid)	\$ 61,0 \$ 120,0 \$ 130,0

	Landowner Share		County Share	
Base Bid	\$	446,821.75	\$	76,178.25
Alternate Bid	\$	59,520.00	\$	31,860.00
Contingency	\$	50,785.25	\$	10,834.75
Land & Easements	\$	120,000.00	\$	-
Professional Services (Base Bid)	\$	111,065.00	\$	18,935.00
Professional Services (Alternate Bid)	\$	14,981.00	\$	8,019.00
	\$	803,173.00	\$	145,827.00



MODIFICATION D - DRAINAGE DISTRICT NO. 22

Date: January 2017



BASE BID					
ITEM NO.	DESCRIPTION	QUANTITY		UNIT COST	<u>EXTENSION</u>
1	18" Ø POLYPROPYLENE TILE	400	LF	\$35.00	\$14,000.00
2	OPEN DITCH CONSTRUCTION (EST AVG 10.5' DEEP)	5,930	LF	\$38.00	\$225,340.00
3	96" Ø CMP - ROAD CROSSING	60	LF	\$475.00	\$28,500.00
4	96" Ø CMP APRON	2	EACH	\$3,000.00	\$6,000.00
5	72" Ø CMP - ROAD CROSSING	120	LF	\$400.00	\$48,000.00
6	72" Ø CMP APRON	4	EACH	\$2,800.00	\$11,200.00
7	30" Ø OUTLET	2	EACH	\$1,500.00	\$3,000.00
8	24" Ø OUTLET	1	EACH	\$1,200.00	\$1,200.00
9	EXTENSION OF PRIVATE TILE TO NEW ALIGNMENT	10	EACH	\$4,000.00	\$40,000.00
10	REMOVAL AND DISPOSAL OF SUPPLEMENTAL TILE	2,790	LF	\$7.00	\$19,530.00
11	DISCONNECT AND CRUSH SUPPLEMENTAL TILE	3,907	LF	\$10.00	\$39,070.00
12	DISCONNECT AND CRUSH MAIN TILE	7,060	LF	\$10.00	\$70,600.00
13	CLEANUP, SHAPING, AND SEEDING	1	LS	\$22,760.00	\$22,760.00
14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	400	LF	\$2.00	\$800.00
		Total Budgeted Cor	structio	n Costs (PE PIPE):	\$530,000
ALTERNATE B	ID PROJECT QUANTITIES				
1A	18" 2000D RCP IN PLACE OF 18" POLYPROPYLENE	400	LF	\$15.00	\$6,000
3A	96" RCP IN PLACE OF 96" CMP	60	LF	\$425.00	\$25,500
4A	96" RCP APRON IN PLACE OF 96" CMP APRON	2	EACH	\$1,500.00	\$3,000
5A	72" RCP IN PLACE OF 72" CMP	120	LF	\$250.00	\$30,000
6A	72" RCP APRON IN PLACE OF 72" CMP APRON	4		\$1,500.00	\$6,000
DEDUCT 14	CCTV INSPECTION OF TILE - POST CONSTRUCTION	400	LF	-\$2.00	-\$800
		Total Budgeted Cons	truction	Costs (RCP PIPE):	\$599,700
				00/ I/ Continues	ć (0.000
	1:	and/Easement Agreements (Estir		.0% +/- Contingency	
	Lo	=		Estimate (Base Bid)	
	Professional Services Estimate (Additional Cons			• • •	
				TOTAL	\$1,017,000

	Landowner Share	County Share
Base Bid \$	418,935.40	\$ 111,064.60
Alternate Bid \$	5,200.00	\$ 64,500.00
Contingency \$	42,435.60	\$ 17,564.40
Land & Easements \$	210,000.00	\$ -
Professional Services (Base Bid) \$	102,758.00	\$ 27,242.00
Professional Services (Alternate Bid) \$	1,291.00	\$ 16,009.00
\$	780.620.00	\$ 236,380.00



2018 Rate Schedule

Ryken Title and Rate		\$ Change	CGA Title and Rate		
Senior Licensed Engineer	\$110.00	0	Project Manager	\$110.00	
Licensed Engineer	\$ 90.00	- 4	Sr Design Engineer	\$ 86.00	
Licensed Land Surveyor	\$ 85.00	+10	Professional Land Surveyor	\$ 95.00	
Survey Party Chief	\$ 65.00	0	Survey Party Chief	\$ 65.00	
Survey Crew Assistant	\$ 55.00	0	Survey Tech	\$ 55.00	
Survey-GPS-One Man	\$ 80.00	- 5	Survey Crew (One Person)	\$ 75.00	
Senior Construction Observer	\$ 65.00	0	Senior Construction Tech	\$ 65.00	
CADD	\$ 65.00	-10	CADD Tech	\$ 55.00	
Construction Observer	\$ 55.00	0	Construction Tech	\$ 55.00	
Clerical	\$ 50.00	+ 5	Administrative Assistant	\$ 55.00	
Senior Technician	\$ 65.00	0	Design Tech	\$ 65.00	
Engineer In Training	\$ 70.00	+ 6	Design Engineer	\$ 76.00	
Land Surveyor In Training	\$ 65.00	+ 5	Lead Surveyor	\$ 70.00	
Senior CADD	\$ 70.00	- 7	Sr CADD Tech	\$ 63.00	
Senior Clerical	\$ 60.00	0	Sr Administrative Assistant	\$ 60.00	

Average of Changes

REIMBURSABLE EXPENSES

0

- 1. All materials and supplies used in the performance of work on this project.
- 2. Service vehicle mileage will be reimbursed on the basis of 65 cents per mile.
- 3. Charges for outside services such as soils and materials testing, fiscal, and legal will be billed at their invoice cost plus 15%.

ADJUSTMENTS TO FEE SCHEDULE

All expert testimony work in cases of litigation or anticipated litigation will be billed based on type of work.

- For advisory work and consultation where the Engineer is not under oath, our fee shall be established by applying a multiplier of 1.25 times the standard rate schedule.
- For depositions and testimony during trial, our fees shall be established using a multiplier of 1.50 times the standard rate schedule.

Effective January 22, 2018 Subject to change without notice

From: Lee Gallentine < LGallentine@cgaconsultants.com>

Sent: Wednesday, February 07, 2018 1:37 PM

To: Tina Schlemme Subject: Hourly Titles and Rates

Attachments: Drainage Hourly Rates 2018 - Ryken and CGA Comparison.pdf

Tina,

Per our conversation earlier today. As part of the merger between CGA and Ryken, I indicated that rates would not increase which is still accurate. However, there has been some changing of titles and shifting of rates (both up and down).

To that end, attached is a new title and rate structure. On it, I have listed on a line by line basis the old Ryken title and rate, the \$ change, and the new CGA title and rate. Any position that did not monetarily change is not highlighted. Any position that had an increase monetarily is highlighted red and any position that had a decrease monetarily is highlighted green. As you can see at the bottom of these lines, the average of all the changes is \$0, so there has not been an increase per our previous conversations.

If I am correct, the existing contract allows adjustments to the rate structure on an annual basis. Please replace the rate schedule in the existing contract with the attached. Also, you may receive some invoices that use both rate schedules as we transition between them.

Please let me know if you have any questions.

Thanks,

Lee Gallentine, P. L.S. & P.E. Professional Land Surveyor and Professional Engineer

Clapsaddle-Garber Associates, Inc 739 Park Avenue, Ackley, IA 50601 P: 641.847.3273 | F: 641.847.2303 103 State Street, Suite 430, Mason City, IA 50401 P: 641.423.1451 | F: 641.423.1659 511 Bank Street, Webster City, IA 50595 P: 515.832.1876 | F: 515.832.1932