

Structure Inventory and Appraisal

Bridge ID: STOCKHOLM-130233 Official SR: 88.2 SD/FO: Not Deficient or Obsolete FHWA No.: 130233 Unofficial SR: 91.9 SD/FO: Not Deficient or Obsolete

IDENTIFICATION INSPECTION 7 Facility Carried: LOCAL 90 Inspection Date: 03/30/2016 Inspection Type: N/A 5B Rte. Signing Prefix: 4 Next Routine Insp Date: 03/30/2018 91 Frequency: 24 5C Level of Service: 1 - MAINLINE Next Insp Type: Regular 5D Inventory Route: 00000 5 - Consultant Inspection Agency: Inspection Group: Crawford County City: RURAL 93A FC Inspection Date: 3 County: 024 - Crawford 92A FC Frequency: Next FC Insp : NΑ 9 Location: 085382803 93B UW Inspection Date: 0 - NOT APPLICABLE 5E Directional Suffix: 92B UW Frequency: Next UW Insp.: NA 6 Feature Intersected: SMALL STREAM 93C SI Date: 2 District: 92C \$1 Frequency; Next Spec. Insp.: Garage: Other Non-NRI Date: 98 Border Bridge Code: Other Non-NBI Freq.: Next Other Insp.: NA % Responsibility: COMPITION 6 - Satisfactory Condition (minor deterioration)

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel

43B Main Span Design: 02 - Stringer/Multi-beam or Girder

45 No. Spans Main Unit: 1

99 Border Bridge No.:

44A Appr. Span

44B Appr. Span Design: 000 - NA

46 No. of Appr. Spans: Near

107 Deck Type: 8 - Wood or Timber

108A Wearing Surface: 7 - Wood or Timber

108B Membrane: 0 - None 108C Deck Protection: 0 - None

GEOMETRIC DATA

48 Length Max Span: 42 B

49 Structure Length: 42 ft.

Deck Area: 1008.0 sq. ft.

50B Curb/Sdwk Width R: 50A Curb/Sdwk Width L:

51 Width Curb to Curb: 24.0 ft. 52 Width Out to Out: 24.0 ft.

32 Appr. Roadway width:

(w/ Shoulders)

35 Structure Flared:

34 Skew:

33 Median: D - No median

10 Vertical Clearance: 99'99'

47 Horiz, Clearance:

24'00"

53 Min. Vert. Clearance Over: 99'99'

54B Min. Vert. Underclearance: 00'00'

55 Min. Let. Underclearance R: 00'00'

56 Min. Lat. Underclearance L: 00'00'

NAVIGATION DATA

00 - No flare

38 Navigation Control: 0 - No navigation control on waterway (bridge permit not required)

111 Pier Protection:

39 Vertical Clearance: 00'00"

40 Horiz, Clearance: 000'00'

16 Latitude: 42,150917

17 Longitude: -95,27752516

FRA No. (if RR Bridge):

Mile Post:

APPRAISAL

6 - Satisfactory Condition (minor deterioration)

6 - Satisfactory Condition (minor deterioration)

67 Str. Evaluation:

58 Deck: 59 Super:

60 Sub:

62 Culvert:

6 - Equal to present minimum criteria

68 Deck Geometry:

6 - Equal to present minimum criteria

69 Underdear Vert & Horiz: N - Not applicable

71 Waterway Adequacy: 8 - Bridge Above Approaches

61 Channel/Channel Prof.: 5 - Bank eroded.. major damage

N - Not Applicable

72 Approach Alignment:

7 - Better than present minimum criteria

36A Bridge Rail:

0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.

36B Transition:

0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

36C Approach Rail:

0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

36D Approach Rall Ends:

0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

113 Scour Critical:

8 - Stable - Excellent Condition

31 Design Load:

63 Rating Method:

5 - HS 20

2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

64 Operating Rating: 34.7 Tons

65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

66 Inventory Rating: 28.8 Tons

70 Posting:

5 - Equal to or above legal loads

41 Posting Status:

27 Year Bullt:

29 ADT

A - Open

AGE AND SERVICE Design No.:

LOAD RATING AND POSTING

2006

106 Year Reconstructed: 0

42A Type of Service on: 1 - Highway

28A Lanes on:

42B Type of Service Under: 5 - Waterway 2

15

30 Year of ADT:

2012

109 Truck ADT:

0%

Speed Limit:

28B Lages under

n

19 Detour Length:

CLASSIFICATION

112 NBIS Length: 26 Functional Class:

100 STRAHNET:

09 - Rural - Local 0 - Not a defense highway

101 Parallel Structure:

N - No parallel structure

102 Direction of Traffic: 22 Owner:

2 - 2-way traffic

02 - County Highway Agency

02 - County Highway Agency

21 Custodian:

37 Historical Significance:

3 - May be eligible for National Register

75A Type of Work Proposed:

758 Work Done by:



## Structure Inventory and Appraisal

Bridge ID: STOCKHOLM-130233 Official SR: 88.2 SD/FO: Not Deficient or Obsolete FHWA No.: 130233 Unofficial SR: 91.9 SD/FO: Not Deficient or Obsolete

IDENTIFICATION 7 Facility Carried: LOCAL 5B Rte. Signing Prefix: 4 5C Level of Service: 1 - MAINLINE 5D Inventory Route: 00000 City: RURAL 3 County: 024 - Crawford

085382803 9 Location: 0 - NOT APPLICABLE 5E Directional Suffix: 6 Feature Intersected: SMALL STREAM

2 District: Garage: 000 98 Border Bridge Code: % Responsibility: 99 Border Bridge No.:

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel

43B Main Span Design: 02 - Stringer/Multi-beam or Girder

45 No. Spans Main Unit: 1 44A Appr. Span 000 - NA 44B Appr. Span Design: 000 - NA

46 No. of Appr. Spans: Near 0 Far

107 Deck Type: 8 - Wood or Timber 108A Wearing Surface: 7 - Wood or Timber

108B Membrane: 0 - None 108C Deck Protection: 0 - None

GEOMETRIC DATA

1008.0 sq. ft.

48 Length Max Span: 42 ft 42 ft 49 Structure Length: 34 Skew:

50B Curb/Sdwk Width R: Oft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 24.0 ft. 52 Width Out to Out: 24.0 ft. 32 Appr. Roadway width: 0 ft.

(w/ Shoulders)

Deck Area:

33 Median: 0 - No median 35 Structure Flared: 00 - No flare 10 Vertical Clearance: 99'99" 47 Horiz. Clearance: 53 Min. Vert. Clearance Over: 99'99' 54B Min. Vert. Underclearance: 00'00" 55 Min. Lat. Underclearance R: 00'00" 56 Min. Lat. Underclearance L: 00'00"

NAVIGATION DATA

0 - No navigation control on waterway (bridge permit not required)

111 Pier Protection:

38 Navigation Control:

39 Vertical Clearance: 00'00" 40 Horiz. Clearance:

16 Latitude: 42.150917 17 Longitude: -95.27752516

FRA No. (if RR Bridge):

Mile Post:

INSPECTION 90 Inspection Date: 03/17/2014

Inspection Type: N/A 03/17/2016 Next Routine Insp Date: 91 Frequency:

Next Insp Type: Regular Inspection Agency: 5 - Consultant Inspection Group: Crawford County

93A FC Inspection Date:

92A FC Frequency: Next FC Insp.: NA

93B UW Inspection Date:

92B UW Frequency: Next UW Insp.: NA

93C SI Date:

0

92C SI Frequency: Next Spec. Insp.:

Other Non-NBI Date:

Other Non-NBI Freq.: Next Other Insp.: NA

CONDITION

58 Deck: 7 - Good Condition (some minor problems) 59 Super: 7 - Good Condition (some minor problems)

9 - Excellent Condition

61 Channel/Channel Prot.: 7 - Bank protection needs minor repairs

62 Culvert N - Not Applicable

APPRAISAL

67 Str. Evaluation: 6 - Equal to present minimum criteria 68 Deck Geometry: 6 - Equal to present minimum criteria

69 Underclear Vert & Horiz: N - Not applicable

71 Waterway Adequacy: 8 - Bridge Above Approaches 72 Approach Alignment: 8 - Equal to present desirable criteria

36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED. 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS. OR IS NOT THERE AND IS NEEDED 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

113 Scour Critical: 8 - Stable - Excellent Condition

LOAD RATING AND POSTING

31 Design Load: 5 - HS 20

63 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

64 Operating Rating:

65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

66 Inventory Rating:

70 Postina: 5 - Equal to or above legal loads

41 Posting Status: A - Open

AGE AND SERVICE

2006 0 27 Year Built: Design No.:

106 Year Reconstructed: 0 42A Type of Service on: 1 - Highway 42B Type of Service Under: 5 - Waterway

28A Lanes on: 2 28B Lanes under: 29 ADT: 30 Year of ADT: 2012 109 Truck ADT: 0 % Speed Limit: 55

19 Detour Length: 4 mi

CLASSIFICATION

112 NBIS Length:

26 Functional Class: 09 - Rural - Local 100 STRAHNET: 0 - Not a defense highway 101 Parallel Structure: N - No parallel structure 102 Direction of Traffic: 2 - 2-way traffic

22 Owner: 02 - County Highway Agency 21 Custodian: 02 - County Highway Agency 37 Historical Significance: 3 - May be eligible for National Register

75A Type of Work Proposed:

75B Work Done by:

Crawford Coun	ity Day Labor Bridge (	Construction
Prepared By: TERRY LALL	7 Date:	2-18-06
Township: STOCKHOLM	Section: 28	E911 Rd.:
FHWA No.: 136232	Date Reconstructed:	JONE 06
Describe Work: Replaced	old bridge wit	h a 34' x 42"
I beam bridge		
		P
Bridge Length: 42 ′	Bridge Width: スソ <sup>1</sup>	Open Depth: JO
Beam Info:	Deck info.	Diaphragm Info.
Beam Type: W S	Deck Type: Plank	# Bolts per Angle: 3
Beam Spacing: 39" C-C	Top: ヨッパシ Longitudinal	Bolt Size: フォッメ とっぱ
Beam Depth: 24"	Bottom: ゲッル Transverse	Diaphragm Length: 38성
1 Width 1 Thickness I	Spacing on Bottom: 🧿 " C-C	Diaphragm Size: 1 D "
Web Thickness:		
Deck X-secton With Beam Spacing	<u> </u>	
X-section With Diaphragm Spacing	- 42' ( - E 66' - E	Ĺz/)
Substructure Comments: 6 -	50' × 10" × 10" 1-1 per pu	but ment
Comments:		

45.5

Project Number: L858-28N																Date: July 19, 2006																		
Location: 1		***						·				-	_ <del></del>					,			Sect	ion:	28						To	wnsh	ip: S	Stockho		
Description (			Pon	lace /	old br	idae	with a	o nov	, 94 <sup>H</sup>	hea	m hri	dae v	vith v	vinas																		F	HWA No:	130232
For the r			l Lob	ace (	JIQ DI	luge	VVIIII C	a 1101	¥ 2-7	1 000	HI MIT	uge i	*1L) 1 T	vii i gio	•																- [		Bridge Ty	rpe:
	ne ne	•																													- 1		1 beam	-
30	ille I		1			-						_		Hor	rs w	nrker	Iner	day													<del></del> -†	Total	Hourly	<b>=</b> 4.1.
Employe	e	Τ'n	۱ م		T 2	6	7-	, i		10	11	12	13		15				10	20	21	22	23	24	25	26	27	28	29	30	31	Hours	Rate	Totals
F I II		2	3	4	5	6	<del>                                     </del>	8	9	-10					10	8	. 17	10	8	8	8	8	8		~~	8	8	8	8	4	╧		\$ 36.58	\$4,243.2
Terry Lally		┿	<del> </del>	<b> </b> -	—	ļ	<b>!—</b> '	<u> </u>	8		٠	8	8	8						_	8	8	8	$\vdash$		8	8	8	<del></del>	<del>-                                    </del>	$\dashv$	104	\$ 33.49	\$3,482.9
Dan Blunk		┷	_	<u> </u>	<b>↓</b> —	⊢	╨	ļ	8			8	8	8	Ш	8	$\longrightarrow$		8	8	_				<del>- i</del>	8	8	8	8	4		116	\$ 28.40	\$3,294.4
Howard Clark		<u> </u>	ļ	<u> </u>	╙	ļ	<b>↓</b>		8	$\Box$		8	8_	8	<del>                                     </del>	8			8	8	8	8	8	$\vdash$	-	•	<u>-</u> 0-	$\overline{}$			ᆉ	92	\$ 25.46	\$2,342.3
Blake Deiber		$\perp$			辶	╙	<u> </u>		<u> </u>			8	8	8	Щ	8	$\Box$		8	8	8	8	8	$\vdash \downarrow$		<del>  </del>	_	8	8	4				\$1,455.8
Joe Blum		<u> </u>			<u> </u>	<u> </u>	<u> </u>					8	8	8		8			8	8	8	8	8		_	8	8	8	8	4			\$ 13.48	
Tim Petersen							L.					8	8	8	Ш	8			8	8	8	8	8	$\sqcup$	ļ	8	8	8	88	4			\$ 10.27	\$1,109.1
														L						L				L								0	<u>\$</u> -	\$0.00
		7	Г				Γ											 													_	0	\$ -	\$0.00
		1	Т			Ī			$\Box$					Γ"																		0	\$ -	\$0.00
		1	1	Ι.	$\vdash$	1	$\vdash$																									0	\$ -	\$0.00
		$\top$	1		$\vdash$	1	$\vdash$		$\vdash$	ļ				Γ										[								0	\$ -	\$0.00
					<u> </u>	<u></u>		•						•						-											-	Labo	or Cost:	\$15,927.
· · · · · · · · · · · · · · · · · · ·				Hours worked per day										Total	Houriy	Totals																		
Equipme	nt 📙	2	3	4	5	6	T 7	8	9	10	11	12	13	14			17			20	21	22	23	24	25	26	27	28	29	30	31	Hours	Rate	Totals
#83 Cat Exca		<del>                                     </del>	۲	┼ <u>*</u>	ᡰᢅ	┸╩	┼	۲	2	10	<del></del> -	7	7	6	- <u>'`</u>	6	<del>''</del>	٠.٠	5	4	7	7	7	<del></del>		6	6	6	6	2		84	\$ 67.19	\$5,643.
		+	+	₩	┼	+	₩	┢	1 -		<del>                                     </del>	<u>'</u>	3	6	┢	6		<del>                                     </del>	4	┼	4	2	2	H		3	Ť	··•	<u>-</u> -	_		30	\$ 98.33	\$2,949.9
#73 Link Belt		_		├	₩	┿	₩	₩	<b>├</b> ~					۳	╄	۴		⊢	<del>  -</del> -	<del> </del>	1	-	<del>ا '</del>		-	<del></del>					_	0	\$ 89.06	\$0.00
#103 Tele-Cra	ane	_		—	┼—	-	₩	<u> </u>	ļ. <u> </u>	<u> </u>	1	┡		┝	<del> </del>	├		┢┈	╁	<del> </del>	├	├	├									0	\$ 42.05	\$0,00
#75 IH Dozer			_	╙	ऻ	╄	<u> </u>	ļ	▙				├	<b>├</b>	├	<b> </b>		<b>—</b>	ļ	├	-		<del></del>	┝				<del></del> i	-			6	\$ 26.81	\$160.8
#59 <b>J</b> . D, Doz			<u> </u>	<u> </u>	↓	╄	뉴		2	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	<del> </del>		ļ	<b> </b>	<del> </del>	<b>↓</b>	<del>                                     </del>	2	2	<del>╿</del>			,		4				\$ 28.29	\$424.3
#32 J.D. crav	vler		.	Ш	╙		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$		2	<u> </u>		2	ļ	<u> </u>	_	L	<u> </u>	ļ	ــــــ	┡	2	<u> </u>	⊢	<del>∐</del> i			4	4	1			15		\$50.00
#97 air comp.				L			$oldsymbol{ol}}}}}}}}}}}}}}}}}$		<u> </u>	<u> </u>	<u> </u>		L		<u> </u>		<u> </u>	<u> </u>	_	<u> </u>	1—	<u> </u>	Ľ				2.	2	1			5	\$ 10.00	
#63 Welder										<u> </u>	<u>L</u>			<u> </u>					2	6	<u> </u>	<u> </u>						<u> </u>		L		8	\$ 10.00	\$80.00
#18 Tool Truc	*	Т		П			T		2			2	2	2		2			2	2	2	2	2	<u> </u>		2	2	2	2_	2		30	\$ 6.94	\$208.2
			1		П		Т	Π	$\Box$				I							<u> </u>	<u>L</u>	<u> </u>	<u>L.</u>	oxdot		<u> </u>						0	\$ -	\$0.00
						1	T	T	T -			1			Τ						L											0	\$ -	\$0.00
•		┰	$\top$	† <del></del> -	$\top$	1 "		$\top$	1		<u> </u>		l			1					1	Π.	1					<u> </u>		<u> </u>		0	\$ -	\$0.00
						1			<u> </u>						•			•			-										Ē	ıuipm <u>e</u> ı	nt Costs:	\$9,517.
		$\top$				Mater	rials I	liet				Soc	koile	locat	ion o	N	ew/		lo.	Τ		П	Uni	t		Tota	ι"						•	
No of	Size			Do			of mat		Heer	1					from		sed		nits	۱*۱	* Units		Cos			Cost						-4-11-4	#45 007 O/	
No. ot		+		06	ourp				uaci			<del> </del>		bridg			sed	-	8	1 -	ach	\$		8.00	_			1			ſ	otal Lai	bor Costs:	\$10,927
pieces	- A.II	!					eams					┼				l u	o <del>c</del> u		2	_	ach	\$		4.00				Mate	eriais	(pag	e 1)·	\$	8,112.00	
pieces 8	24					prim	er pa	HR.				┼	Kiro	ıı ımk	и.	<del> </del>		+-	0	+ &	uuli	\$		-T, UU	\$		-			(pag			22,080.31	
pieces	24 <b>"</b> gal.											₩				╂		<b>├</b> -		+					\$			Iviati	or icus	/hañ		<u></u>		
pieces 8																			0			\$		-								Fotal Material Cost:		\$30,192.3
pieces 8		-		_								╄				+-			0			\$	•		\$ -							Mai mar	enal cost.	
pieces 8		-		_		-														ļ		<del></del>						<u> </u>				ZEUI INGL	eriai Cost.	
pieces 8		-		_															0	<u> </u>		\$		-	\$		-	-					ent Costs:	
pieces 8		-		<u> </u>															0	-		\$		<u>-</u>	\$ \$									
pieces 8																			0	-		<del></del>		-	\$		-						ent Costs:	

	Crawford	County Secondary Roads Material	List	Pi	oject No.:				279
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Un	it Cost	Total Cost
16	3"x12"	16' Plank	Denison	used	256	In.ft.	\$	3.44	\$880.64
26	3"x12"	18' Plank	Denison	used	234	In.ft.	\$	3.44	\$804.96
26	3"x12"	20' Plank	Denison	used	260	In.ft.	\$	3.44	\$894.40
17	3"x12"	22' Plank	Denison	new	187	iln.ft.	\$	3.60	\$673.20
24	3"x12"	24' plank	Denison	new	576	ln.ft.	\$	3.60	\$2,073.60
20	4"x12"	16' plank			320	In.ft.	\$	2.25	\$720.00
20	4"x12"	24' plank			480	In.Inft.	\$	3.99	\$1,915.20
	4"x16"	any length			0	In.ft	\$	2.50	\$0.00
24	3"x12"	20' plank		new	480	In. ft.	\$	3.44	\$1,651.20
	10"x10"	Wood Cap			0	In.ft.	\$	9.17	\$0.00
	12"x12"	Wood Cap			0	ln.ft.	\$	13.20	\$0.00
··					0		\$		\$0.00
	4"x6"	12' nailer			0	each	\$	26.05	\$0.00
4	4"x6"	16' nailer			4	each	\$	29.33	\$117.32
					0		\$	-	\$0.00
	2"x4"	any length			0	In.ft.	\$	0.28	\$0.00
	2"x6"	any length				In.ft.	\$	0.39	\$0.00
	1/2"	4'x8' plyweod			0	each	\$	11.05	\$0.00
	3/4"	4'x8' plywood			0	each	\$	_	\$0.00
					0		\$	-	\$0.00
8	25'	wood piling	v		8	each	\$	173.91	\$1,391.28
<del></del>	30'	wood piling			0	each	\$	200.94	\$0.00
	35'	wood piling			0	each	\$	236.25	\$0.00
	40'	wood piling			0	each	\$	296.37	\$0.00
					0		\$	-	\$0.00
	8*x8"	40'steel@36lb./ft.			0	ln, ft.	\$	10.61	\$0.00
	8"x8"	50'steel @36lb./ft			0	ln, ft.	\$	-	\$0.00
,	· · · · · · · · · · · · · · · · · · ·					Total Materia	ls (pa	ige two) :	\$11,121.80

~~ ·

<u> </u>	Crawfo	rd County Secondary Roads Material List	Pi	a				
No.	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Cost	Total Cost
Pieces						`	<b>A</b> 0.50 <b>A</b>	<b>¢</b> 0.00
· · · · · · · · · · · · · · · · · ·	10"x10"	40' Steel H@42 lb./ft.	Denison	new	0	lin. Ft	\$ 8.50	1
12	10"x10"	50' Steel H@42 lb/ft	Denison	new	600	lin. Ft	\$ 11.35	<del>                                     </del>
	10"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft	\$ 3.13	
	12"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft	\$ 4.90	<del></del>
	1/2"x14"	10' steel plates	Denison	new	0	lin. Ft	\$ 6.43	<del> </del>
2	25'	Steel Caps			2	each	\$ 565.40	
	30 1/2"	Diaphragms			. 0	each	\$ 31.04	<del></del>
42	38 1/2"	Diaphragms			42	each	\$ 37.43	\$1,572.06
16	85lb.	rail posts			16	each	\$ 8.50	\$136.00
	straight 20'	7 ga.sheet piling	Denison	new	0	each	\$ 123.22	\$0.00
	45degree	sheet piling	Denison	new	0	each	\$ 151.40	\$0.00
	90degree	sheet piling	Denison	new	0	each	\$ 139.80	\$0.00
					0			\$0.00
2	13'	, gaurdrail		used	26	lin. Ft	\$ 1.00	\$26.00
	26'	gaurdrail				lin. Ft	\$ 1.00	\$0.00
2	25'	W-beam gaurdrail		new	50	lin. Ft	\$ 4.95	\$247.50
4	2'	gaurdrail terminal ends		new	4	each	\$ 24.95	\$99.80
	1/4"	2 1/2"x2 1/2" angle 20'	Denison	new	0	lin, Ft.,	\$ 0.78	\$0.00
i	3/8"	3"x3" angle 20'	Denison	new	0	lin. Ft	\$ 1.35	\$0.00
					0			\$0.00
720'	1/2"	wire cable	Denison	new	720	lin. Ft	\$ 0.68	\$489,60
72	1/2"	cable clamps	Denison	new	72	each	\$ 1.91	\$137.52
		* *************************************			0	1		\$0.00
	1/2"	20' rebar	Denison	new	0	lin. Ft	\$ 0.16	
-	5/8*	20' rebar	Denison	new	0	lin. Ft	\$ 0.24	<del> </del>
	5/8"	20" rebar with Epoxy	Denison	new	0	each	\$ 0.27	
				<del> </del>	0			\$0.00
	<u>hh</u>	· · · · · · · · · · · · · · · · · · ·		<del></del>	·	tal Materials	(page three)	

- --- .,

····

	Crawford	d County Secondary Roads Material	List	Pr	oject No.:				
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Uni	t Cost	Total Cos
	12'	felt fabric	Denison		0	lin ft.	\$	0.72	\$0.00
	12 <sup>'</sup>	mesh fabric	Denison	, , , , , , , , , , , , , , , , , , , ,	0	lin.	\$	2.00	\$0.00
	box	1"x6"x6" fabric staples	Denison		0	each	\$	21.70	\$0.00
					0				\$0.00
	8d	nails	Denison		0	lb.	\$	0.80	\$0.00
	16d	nails	Denison		0	lb.	\$	0.69	\$0.00
	16d	double head nails	Denison		0	lb.	\$	0.69	\$0.00
30	60d	ringshank spikes	Denison	New or	30	lbs.	\$	1.35	\$40.50
					. 0				\$0.00
"	3/4"	anchor bolts	Denison		0	each	\$	2.80	\$0.00
50	1/2"	maellable washers	Denison		50	each	\$	0.94	\$47.00
	3/4"	maellable washers	Denison		0	each	\$	0.94	\$0.00
	1/2"	flat washers	Denison		0	each			\$0.00
	3/4"	flat washers	Denison		0	each			\$0.00
36	7/8"	flat washers				each	\$	0.90	\$0.00
36	3/4"	2 1/2" bolts	Denison		36_	each	\$	0.70	\$25.20
	3/4"	3" bolts	Denison		0	each	\$	0.80	\$0.00
25	1/2"	9" bolts	Denison	New or	25	each	\$	1.05	\$26.25
	1/2"	10" bolts	Denison		0	each	\$	0.98	\$0.00
	1/2"	11" bolts	Denison		0	each	\$	1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$	1.84	\$0.00
198	7/8"	2 1/2" bolts	Denison		198	each	\$	0.86	\$170.28
	3/4"	8" bolt	Denison		0	each	\$	1.10	\$0.00
	3/4"	9"bolt	Denison		0	each	\$	2.60	\$0.00
	3/4"	10" bolt	Denison		0	each	\$	1.25	\$0.00
	3/4"	11'	Denison		0	each	\$	1.45	\$0.00
	3/4"	12" bolts	Denison		0	each	\$	1.93	\$0.00
	<u> </u>					otal Material	s (pag	je four) :	\$309.23