



CHANGE ORDER NO. 1

October 29, 2018

R & R Horn, Inc.
PO Box 6697
Chico, CA 95973

Attention: Trevor Thomas, Project Manager

Subject: Willows Intermediate School Toilet Relocatable Building
Willows Unified School District
Architect's Project No.: 2017-1318

You are hereby authorized to make the following changes in the subject work.

Workmanship and materials shall be in accord with standards established by the original specifications.

ITEM NO. 1: Relocate (E) irrigation lines and sprinkler heads.

Requested by: Contractor
Reason: (E) irrigation conflicted with location of new walk and building location.

Attachments: PCO 007, RFI 001
Change in Contract Amount ADD \$ 3,082.00
No Change in Contract Performance Period

ITEM NO. 2: Upsize the sanitary sewer line from 4" to 6".

Requested by: Contractor
Reason: The invert elevation for the tie-in at the sewer connection was at a higher elevation than noted on the As-Built plans.

Attachments: COR 015, RFI 006
Change in Contract Amount ADD \$ 510.00
No Change in Contract Performance Period

ITEM NO. 3: Replace damaged (E) AC paving at (E) hardcourt area.

Requested by: Owner
 Reason: Repair damage made by crane when delivering toilet portable building.

Attachments: PCO 017C
 Change in Contract Amount ADD \$ 18,389.00
 No Change in Contract Performance Period

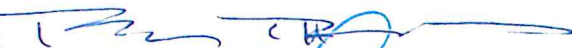
Original Contract Amount	\$	329,000.00
Amount Changed by Previous Change Order(s).....	\$.00
Contract Amount Prior to this Change Order	\$	329,000.00
Amount Changed by this Change Order	ADD \$	21,981.00
Revised Contract Amount.....	\$	350,981.00

% Change by this Change Order	%	6.68
Total % Change of Original Contract Amount	%	6.68

Original Completion Date	August 8, 2018
Revised Completion Date Revised by Previous Change Order(s)	August 8, 2018
Calendar Days added by this Change Order	0
Revised Completion Date through this Change Order	August 8, 2019

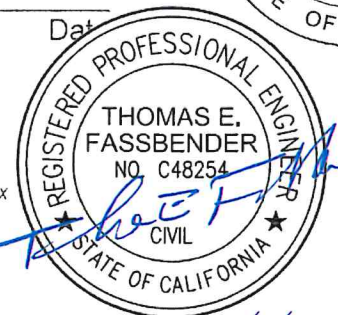
The acceptance and approval of this change order constitutes full and final settlement for all work and costs (including extended overhead, inefficiency and impact or delays) related to the items addressed herein with no exceptions.

APPROVED:  11/5/18
 Willows Unified School District Date

ACCEPTED:  11/05/2018
 R & R Horn Inc. Date

APPROVED:  10.30.18
 Rainforth Grau Architects Date

APPROVED: _____
 Warren Consulting Engineers. Date





R&R Horn, Inc.

PO Box 6697, Chico, CA 95973 PHONE: (530) 342-8655 FAX: (530) 892-1324

CHANGE ORDER REQUEST

TO: Willows Unified School District
 823 Laurel St.
 Willows, CA 95988

COR # COR #007

DATE: 08/01/18

PROJECT: Murdock Elem/WIS Sitework

JOB # 18002

ATTN: Mort Geivett

We submit for your approval the following cost estimate of changes in work as follows:
Willows Intermediate - Reroute Conflicting Irrigation line within new building location footprint.

This change was requested by: RFI #01 Response

ITEM	ENCL. #	LABOR	MTL/EQUIP	SUBS/TRUCKING	TOTAL
R&R Horn, Inc					\$ -
					\$ -
Relocate Irrigation Line around new footprint		\$ 1,889.71	\$ 790.68		\$ 2,680.39
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
		\$ 1,889.71	\$ 790.68	\$ -	\$ 2,680.39
Sub Markup	5%				\$ -
Labor and Material Markup	15%				\$ 402.06
Bonds and Insurance	0%				\$ -
				SUBTOTAL	\$ 3,082.45
					\$ -
					\$ 3,082.45
TOTAL AMOUNT FOR CHANGE PROPOSAL					\$ 3,082
TIME EXTENSION REQUIRED FOR THIS CHANGE					TBD

(WORKING DAYS)

We have proceeded with this change, and work orders have been sent to the subcontractors, in accordance with

We will not proceed with this change until receipt of a signed copy of this proposal. This proposal must be accepted by _____

APPROVED: _____

R&R Horn, Inc.

DATE: _____

BY: Trevor Thomas

Item Cost Breakdown

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Bid-Item	Description	Quantity	UM	Material Cost	Labor Cost	Equipment Cost	Subcontract Cost	Other Cost	Plug Cost	Trucking Cost	Unit Cost	Total Cost
COR 7												
01	Relocate Irrigation Line For Building Shift	1.00	LS	373.07	1,889.71	417.61	0.00	0.00	0.00	0.00	2,680.3900	2,680.39

\$373.07	\$1,889.71	\$417.61	\$2,680.39
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(Completed Item) (Zero Total Cost)



Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Group: COR 7 WIS - Irrigation Relocate

Bid-Item	Description	Quantity	UM	Unit Cost	Total Cost
01	Relocate Irrigaiton Line For Building Shift	1.00	LS	2,680.3900	2,680.39

Description	Area	Quantity/Hours	UM	Unit Cost	Total Cost
L Operator Foreman	L2/O1H18	7.00 / 1.00	HR	83.4100	583.87
L Pipe Layer Group 1	L2/O1H18	14.00 / 1.00	HR	58.4800	818.72
E 1 Ton Utility Truck	RRH17	7.00 / 1.00	HR	20.2500	141.75
L Excavator Operator Group 3	L2/O1H18	4.00 / 1.00	HR	81.7100	326.84
M Misc. Fittings	L2/O1H18	1.00	LS	206.8500	221.85
M Misc. Fittings	L2/O1H18	1.00	LS	137.1800	147.13
E Cat 305 Excavator	RRH17	2.00 / 1.00	HR	41.6300	83.26
L Loader Operator Group 4	L2/O1H18	2.00 / 1.00	HR	80.1400	160.28
E Cat 277 Track Skidsteer	RRH17	4.00 / 1.00	HR	48.1500	192.60
M Misc. Fittings	RRH17	1.00	LS	3.8200	4.10

Prod. per Hr: 1.00	Day Lgth: 1.00	Hrs Req: 1.00	Lbr Typ: Standard	Man. Hrs.: 27.00			
Work. Comp. 6220	4.28%	Days Req: 1.00	Man Hrs Per LS	27.000000			
Work Type:							
	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	373.07	1,889.71	417.61				
Total Cost:	373.07	1,889.71	417.61				

Willows Intermediate School - Toilet Relocatable

RFI NO.

1

Architect's Project #17-1318
DSA File/Apl. 11-35/02-116496

Date: 6/8/2018

1. REQUEST FOR INFORMATION

To: Rainforth Grau Architects
2407 J Street; Suite 300
Sacramento, CA 95816
Attn.: Jeff Juarez

From: Contractor: R & R Horn, Inc.
Contact: Trevor Thomas

Sub Contractor: _____

Contact: _____

Reference:
Dwg./Document No.: A1.0.2 Rev.: _____ Title: Overall Site Plan

Location: _____ Elevation: _____

2. Existing Condition:

PG&E marked their facilities at WIS - there is a gas line marked that goes through Unit P. The gas line is approximately at 20.5' off the fenced enclosure at the North end and 19.5' of the fenced enclosure at the South End (see attached photos). Please advise.

3. Recommended Action(s):

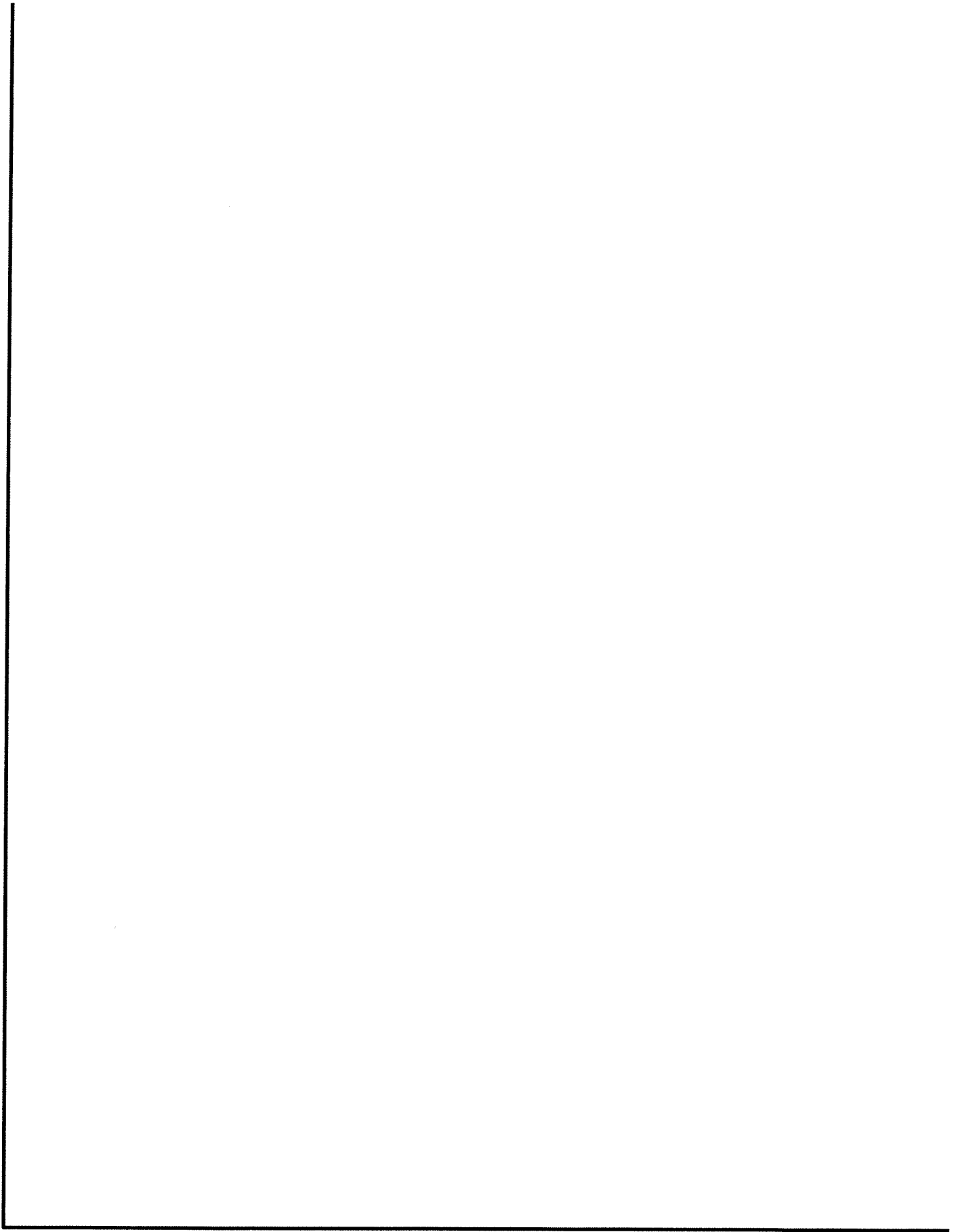
4. Project Inspector Acknowledgment: *Date Reviewed:* _____ *Comments:*

5. Owner / A/E Resolution(s):

Per the on-site discussion on 6/14/18, the Relocatable will need to be moved west of the existing PG&E line. Minimum PG&E clear distances are to be followed. Attached are revised Demo and Grading plans showing the relocation of the Building.
The adjacent soccer goal will need to be removed and saved for re-installation once the location is determined. At this stage, saving the soccer goal footings is required.
Jeff Juarez, RGA

Date of Response: _____ *By:* _____

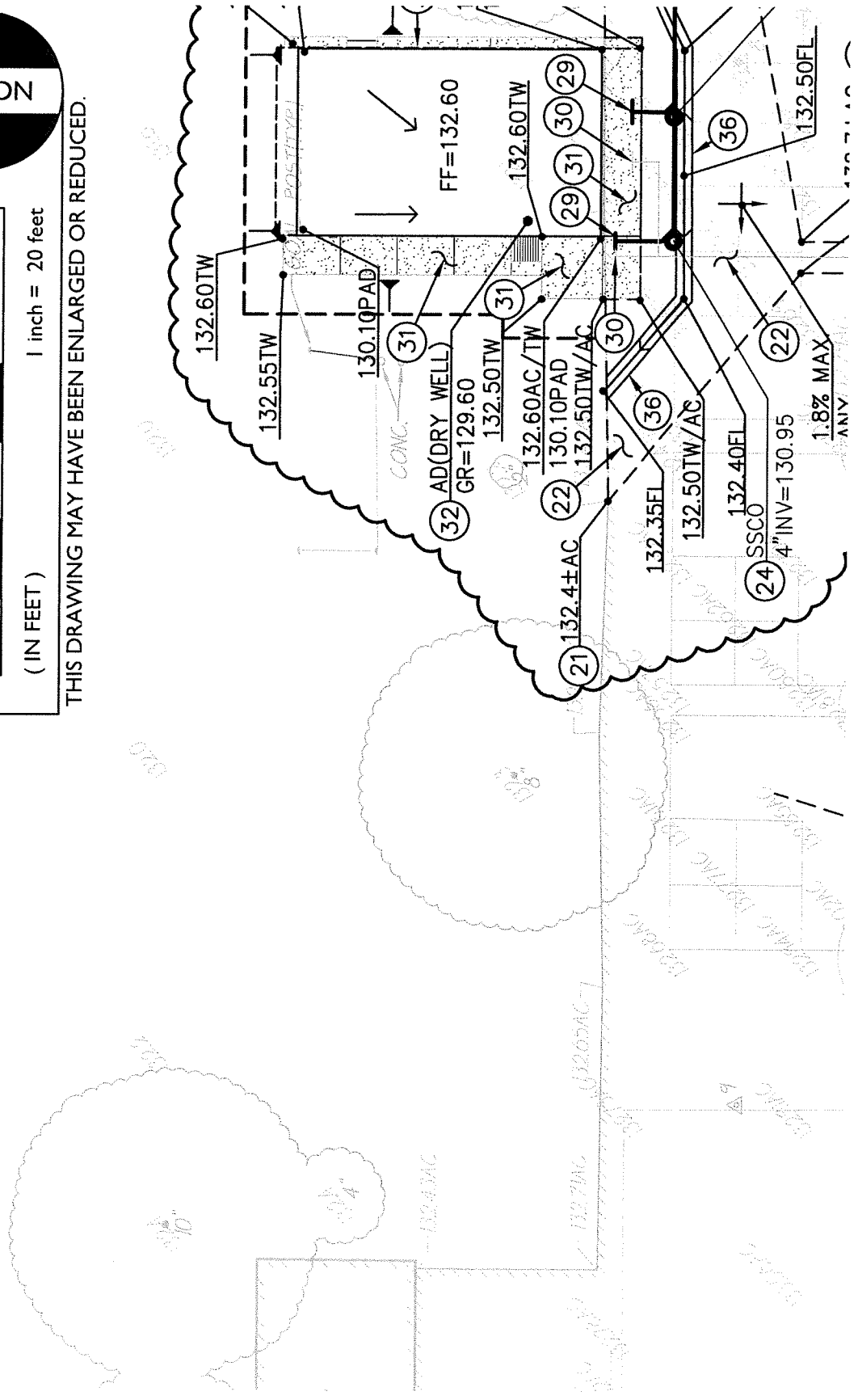
Attachments: _____
Extra Work Involved in the Above Described Change – Yes: _____ *No:* _____
Distribution: GC/CM: _____ *Consultant:* _____
District: _____ *Other:* _____
PI: _____ *File:* _____



GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.













R&R Horn, Inc.

PO Box 6697, Chico, CA 95973 PHONE: (530) 342-8655 FAX: (530) 892-1324

CHANGE ORDER REQUEST

TO: Willows Unified School District
 823 Laurel St.
 Willows, CA 95988

COR # COR #015

DATE: 08/01/18

PROJECT: Murdock Elem/WIS Sitework

JOB # 18002

ATTN: Mort Geivett

We submit for your approval the following cost estimate of changes in work as follows:
 Willows Intermediate - Upsize Sewer from 4" to 6"

This change was requested by: RFI #006

ITEM	ENCL. #	LABOR	MTL/EQUIP	SUBS/TRUCKING	TOTAL
R&R Horn, Inc					\$ -
					\$ -
Eliminate 4" SS Pipe and Fittings			\$ (331.94)		\$ (331.94)
Added 6" SS Pipe and Fittings			\$ 775.42		\$ 775.42
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
		\$ -	\$ 443.48	\$ -	\$ 443.48

Sub Markup	5%				\$ -
Labor and Material Markup	15%				\$ 66.52
				SUBTOTAL	\$ 510.00
Bonds and Insurance	0%				\$ -
					\$ 510.00
TOTAL AMOUNT FOR CHANGE PROPOSAL					\$ 510
TIME EXTENSION REQUIRED FOR THIS CHANGE					TBD

(WORKING DAYS)

We have proceeded with this change, and work orders have been sent to the subcontractors, in accordance with

We will not proceed with this change until receipt of a signed copy of this proposal. This proposal must be accepted by _____

APPROVED: _____

R&R Horn, Inc.

DATE: _____

BY: Trevor Thomas

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Bid-Item	Description	Quantity UM	Material Cost	Labor Cost	Equipment Cost	Subcontract Cost	Other Cost	Plug Cost	Trucking Cost	Unit Cost	Total Cost
COR 15											
01	4" SS Pipe And Fittings	-1.00LS	-331.94	0.00	0.00	0.00	0.00	0.00	0.00	331.9400	-331.94
02	6" SS Pipe And Fittings	1.00LS	775.42	0.00	0.00	0.00	0.00	0.00	0.00	775.4200	775.42
											\$443.48

(Completed Item) (Zero Total Cost)



Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Group: COR 15 Upsize SS Pipe To 6"

Bid-Item	Description	Quantity	UM	Unit Cost	Total Cost
01	4" SS Pipe And Fittings	-1.00	LS	0.0000	-331.94

Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
M 4" SDR-35 PVC Pipe		-140.00	LF	1.2500	-187.69
M 4" SDR-35 Wye		-4.00	EA	14.0000	-60.06
M 4" SDR-35 45 Degree Bend		-6.00	EA	7.5000	-48.26
M 4" SDR 35 Cap		-2.00	EA	4.7500	-10.19
M 4" Gripper Plug		-3.00	EA	8.0000	-25.74

Prod. per Day: Day Lgth: 8.00 Hrs Req: Lbr Typ: Standard Man. Hrs.:
 Work. Comp. 6220 4.28% Days Req: Man Hrs Per LS 0.000000
 Work Type:

	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	331.94						
Total Cost:	-331.94						

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Bid-Item	Description	Quantity	UM	Unit Cost	Total Cost
02	6" SS Pipe And Fittings	1.00	LS	775.4200	775.42

Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
M 6" SDR-35 PVC Pipe		160.00	LF	2.5000	429.00
M 6" SDR-35 Wye		4.00	EA	36.0000	154.44
M 6" SDR-35 45 Degree Bend		6.00	EA	14.0000	90.09
M 6" SDR-35 Cap		1.00	EA	9.0000	9.65
M 6" SDR-35 Cleanout Plug		2.00	EA	17.0000	36.46
M 6" SDR-35 Cleanout Adapter		2.00	EA	26.0000	55.77

Prod. per Day:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.:			
Work. Comp. 6220	4.28%	Days Req:	Man Hrs Per LS	0.000000			
Work Type:							
	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	775.42						
Total Cost:	775.42						

Willows Intermediate School - Toilet Relocatable

RFI NO.

006

Architect's Project #17-1318
DSA File/Apl. 11-35/02-116496

Date: 7/10/2018

1. REQUEST FOR INFORMATION

To: Rainforth Grau Architects 2407 J Street; Suite 300 Sacramento, CA 95816	From:	Contractor: <u>R & R Horn, Inc.</u> Contact: <u>Trevor Thomas</u>
Attn.: Jeff Juarez	Sub Contractor:	_____
	Contact:	_____

Reference:
 Dwg./Document No.: C2.1 Rev.: _____ Title: Grading and Utility Plan
 Location: Existing SSCO - POC Elevation: _____

2. Existing Condition:

The point of connection for the new SS was noted as 127.67' in the original drawing and 127.0' +/- in RFI #001. The actual elevation is 129.67' (several known elevations were checked for verification). That invert elevation does not appear to provide sufficient fall.
Please advise.

3. Recommended Action(s):

4. Project Inspector Acknowledgment: *Date Reviewed:* _____ *Comments:* _____

5. Owner / A/E Resolution(s):

Per contractor on-site discussions/suggestions and discussions with the Civil Engineer, the waste outlet at the building will be raised as high as it can go to add fall, approximately 1.5". The specified 4" SS pipe is to be up-sized to 6" SS pipe. With those changes, R&R Horn calculated they have enough fall to make the system work with the POC at the existing sewer line location. The fall will be at the minimum requirements for this type of utility. This method was confirmed with the Civil Engineer. This work has been installed and completed.

These discussions and resolutions occurred between 7/11/18 and 7/19/18.

Jeff Juarez
RGA

Date of Response: _____ *By:* _____

Attachments: _____
Extra Work Involved in the Above Described Change – Yes: _____ *No:* _____
Distribution: GC/CM: _____ *Consultant:* _____
 District: _____ *Other:* _____
 PI: _____ *File:* _____



R&R Horn, Inc.

PO Box 6697, Chico, CA 95973 PHONE: (530) 342-8655 FAX: (530) 892-1324

CHANGE ORDER REQUEST

TO: Willows Unified School District
 823 Laurel St.
 Willows, CA 95988

COR # COR #017C

DATE: 08/01/18

PROJECT: Murdock Elem/WIS Sitework

JOB # 18002

ATTN: Mort Geivett

We submit for your approval the following cost estimate of changes in work as follows:

Willows Intermediate - Remove AC, Touch up AB and Repave Area damaged by Modular Company's crane

**** BASED ON SQUARE FOOTAGE OF COMPROMISED REPAIR AREA AS PROPOSED BY RGA & DISTRICT.**

130'X22' = 2,860SF

This change was requested by: RGA and Willows Unified

ITEM	ENCL. #	LABOR	MTL/EQUIP	SUBS/TRUCKING	TOTAL
R&R Horn, Inc					\$ -
					\$ -
Remove AC, Touch up AB, Fabric and Repave		\$ 5,820.07	\$ 7,911.74	\$ 2,473.95	\$ 16,205.76
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
		\$ 5,820.07	\$ 7,911.74	\$ 2,473.95	\$ 16,205.76
Sub Markup	5%				\$ 123.70
Labor and Material Markup	15%				\$ 2,059.77
				SUBTOTAL	\$ 18,389.23
Bonds and Insurance	0%				\$ -
					\$ 18,389.23
TOTAL AMOUNT FOR CHANGE PROPOSAL					\$ 18,389
TIME EXTENSION REQUIRED FOR THIS CHANGE					TBD

(WORKING DAYS)

We have proceeded with this change, and work orders have been sent to the subcontractors, in accordance with

We will not proceed with this change until receipt of a signed copy of this proposal. This proposal must be accepted by _____

APPROVED: _____

R&R Horn, Inc.

DATE: _____

BY: Trevor Thomas

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Bid-Item	Description	Quantity UM	Material Cost	Labor Cost	Equipment Cost	Subcontract Cost	Other Cost	Plug Cost	Trucking Cost	Unit Cost	Total Cost
COR 17C											
01	Remove AC, Touch Up AB, Place Fabric And Pave Back	2,860.00SF	5,174.61	5,820.07	2,737.13	1,056.16	0.00	0.00	1,417.79	5.6663	16,205.76
			\$5,174.61	\$5,820.07	\$2,737.13	\$1,056.16			\$1,417.79		\$16,205.76

(Completed Item) (Zero Total Cost)



Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

Group: COR 17C District Compromise - 2860SF

Bid-Item	Description	Quantity	UM	Unit Cost	Total Cost
01	Remove AC, Touch Up AB, Place Fabric And Pave Back	2,860.00	SF	5.6663	16,205.76

01	Demo And Offhaul AC	2,860.00	SF	1.2573	3,596.01
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01	Sawcut	424.07	LF	2.5206	1,068.91
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
S Sawcutting By Linear Foot		424.07	LF	2.2500	954.16
L General Labor Group 3	L2/O1H18	1.00 / 0.25	DAY	465.5200	114.75

Prod. per Day: 1,720.00 Day Lgth: 8.00 Hrs Req: 1.97 Lbr Typ: Standard Man. Hrs.: 1.97
 Work. Comp. 6220 4.28% Days Req: 0.25 Prod./Man Hr: 215.263959
 Work Type:

Material	Labor	Equipment	Other	Subcontractor	Plug	Truck
Unit Cost:	0.27			2.25		
Total Cost:	114.75			954.16		

02	Demo And Remove AC	2,860.00	SF	0.8836	2,527.10
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01	Demo AC	2,860.00	SF	0.6664	1,905.81
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
L Operator Foreman	L2/O1H18	1.00 / 0.74	DAY	667.2800	493.54
E Komatsu PC228 Excavator	RRH17	1.00 / 0.74	DAY	658.2400	486.85
L General Labor Group 3	L2/O1H18	1.00 / 0.74	DAY	465.5200	344.31
E 1 Ton Utility Truck	RRH17	1.00 / 0.74	DAY	132.0000	97.63
L Excavator Operator Group 3	L2/O1H18	1.00 / 0.74	DAY	653.6800	483.48

Prod. per Day: 3,866.67 Day Lgth: 8.00 Hrs Req: 5.92 Lbr Typ: Standard Man. Hrs.: 17.75
 Work. Comp. 6220 4.28% Days Req: 0.74 Prod./Man Hr: 161.126761
 Work Type:

Material	Labor	Equipment	Other	Subcontractor	Plug	Truck
Unit Cost:	0.46	0.20				
Total Cost:	1,321.33	584.48				

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

02	Offhaul And Dispose Of AC	46.35 TON	13.4043	621.29
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
T End Dump Truck Hour	L2/O1H18	1.00 / 0.74	DAY	840.0000	621.29

Prod. per Day:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.:
Work. Comp. 6220	4.28%	Days Req:	Prod./Man Hr:	0.000000
Work Type:				

Unit Cost:	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Total Cost:							13.40 621.29

02	Demo And Remove AC	46.35 SF	0.8836	2,527.10
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Unit Cost:	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Total Cost:		0.46	0.20				0.22 621.29
		1,321.33	584.48				

01	Demo And Offhaul AC	46.35 SF	1.2573	3,596.01
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Unit Cost:	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Total Cost:		0.50	0.20		0.33		0.22 621.29
		1,436.08	584.48		954.16		

02	Touch Up Existing AB	36.98 TON	86.3442	3,193.01
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01	Buy And Haul AB (Some Will Be Lost During Demo)	36.98 TON	15.7785	583.49
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
M 3/4" Class II Aggregate Base	L2/O1H18	36.98	TN	10.0500	398.59
T Agg Base Haul Transfers	L2/O1H18	36.98	TON	5.0000	184.90

Prod. per Day:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.:
Work. Comp. 6220	4.28%	Days Req:	Prod./Man Hr:	0.000000
Work Type:				

Unit Cost:	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Total Cost:	10.78						5.00 184.90
	398.59						

03	Touch Up And Finish Grade AB For Paving Area	2,860.00 SF	0.9124	2,609.52
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
E Skip Loader / Float Tractor	RRH17	1.00 / 0.44	DAY	241.3600	106.20
E 12 Ton Vibratory Roller	RRH17	1.00 / 0.44	DAY	471.0400	207.26
E 4000 Gal Water Truck	RRH17	1.00 / 0.44	DAY	787.0400	346.30
E Vibra Plate	RRH17	1.00 / 0.44	DAY	27.2000	11.97
E 1 Ton Utility Truck	RRH17	1.00 / 0.44	DAY	132.0000	58.08
L Operator Foreman	L2/O1H18	1.00 / 0.44	DAY	667.2800	293.60
L Loader Operator Group 4	L2/O1H18	1.00 / 0.44	DAY	641.1200	282.09
L Gradesetter Operator Group 4	L2/O1H18	1.00 / 0.44	DAY	641.1200	282.09
L Water Truck Driver Group 2	L2/O1H18	1.00 / 0.44	DAY	523.0400	230.14
L General Labor Group 3	L2/O1H18	1.00 / 0.44	DAY	465.5200	204.83

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

E Cat 160H	RRH17	1.00 /	0.44 DAY	727.0400	319.90
L Roller Operator Group 7	L2/O1H18	1.00 /	0.44 DAY	606.9600	267.06

Prod. per Day: 6,500.00	Day Lgth: 8.00	Hrs Req: 3.52	Lbr Typ: Standard	Man. Hrs.: 21.12
Work. Comp. 6220	4.28%	Days Req: 0.44	Prod./Man Hr: 135.416667	
Work Type:				

	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:		0.55	0.37				
Total Cost:		1,559.81	1,049.71				

02	Touch Up Existing AB	2,860.00 TON	86.3442	3,193.01
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	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	10.78	42.18	28.39				5.00
Total Cost:	398.59	1,559.81	1,049.71				184.90

03	Paving Fabric	2,860.00 SF	0.6069	1,735.81
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01	Buy Fabric	2,860.00 SF	0.2941	841.08
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
M Geo Grid Fabric	L2/O1H18	493.10	SY	1.4900	787.99
M Fabric Pins	L2/O1H18	0.99	BOX	50.0000	53.09

Prod. per Day:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.: 0.000000
Work. Comp. 6220	4.28%	Days Req:	Prod./Man Hr: 0.000000	
Work Type:				

	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	0.29						
Total Cost:	841.08						

02	Install Fabric And Tack Before Paving	2,860.00 SF	0.3128	894.73
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
L General Labor Group 3	L2/O1H18	2.00 /	0.25 DAY	591.2000	291.46
M SS-1 Asphalt Emulsion	L2/O1H18	61.64	GAL	5.0000	330.54
E 1 Ton Utility Truck	RRH17	1.00 /	0.25 DAY	162.0000	39.93
L Operator Foreman	L2/O1H18	1.00 /	0.25 DAY	866.4000	213.57
E Boot Pot	RRH17	1.00 /	0.25 DAY	78.0000	19.23

Prod. per Day: 11,600.00	Day Lgth: 8.00	Hrs Req: 1.97	Lbr Typ: Overtime	Man. Hrs.: 5.92
Work. Comp. 6220	4.28%	Days Req: 0.25	Prod./Man Hr: 483.108108	
Work Type:				

	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	0.12	0.18	0.02				
Total Cost:	330.54	505.03	59.16				

03	Paving Fabric	2,860.00 SF	0.6069	1,735.81
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	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	0.41	0.18	0.02				
Total Cost:	1,171.62	505.03	59.16				

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

04	Pave	58.19 TON	131.9974	7,680.93
01	Buy And Haul AC	58.19 TON	71.6429	4,168.90
02	Buy And Haul AC	58.19 TON	71.6429	4,168.90

Description	Area	Quantity/Hours	UM	Unit Cost	Total Cost
M 1/2" PG 64-10 HMA	RRH17	58.19 TN		57.0000	3,557.30
T Transfers Hourly	RRH17	40.00 / 0.14 HR		110.0000	611.60

Prod. per Hr:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.:			
Work. Comp. 6220	4.28%	Days Req:	Prod./Man Hr:	0.000000			
Work Type:							
Unit Cost:	<u>Material</u> 61.13	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u> 10.51
Total Cost:	3,557.30						611.60

01	Buy And Haul AC	58.19 TON	71.6429	4,168.90
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Unit Cost:	<u>Material</u> 61.13	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u> 10.51
Total Cost:	3,557.30						611.60

02	Soil Sterilant	2,860.00 SF	0.0683	195.40
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01	Buy Sterilant	30.11 LBS	1.5643	47.10
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
M Pre-Emergent 50# Bag	RRH17	0.61 EA		72.0000	47.10

Prod. per Day:	Day Lgth: 8.00	Hrs Req:	Lbr Typ: Standard	Man. Hrs.:			
Work. Comp. 6220	4.28%	Days Req:	Prod./Man Hr:	0.000000			
Work Type:							
Unit Cost:	<u>Material</u> 1.56	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Total Cost:	47.10						

02	Apply	0.08 DAY	1,853.7500	148.30
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
L Labor Foreman Group 1	L2/O1H18	1.00 / 0.08 DAY		483.3600	36.37
E 1 Ton Utility Truck	RRH17	1.00 / 0.08 DAY		132.0000	9.93
S Hazardous Certified Handler (Hazwopper 40)	RRH17	1.20 HR		85.0000	102.00

Prod. per Day: 1.00	Day Lgth: 8.00	Hrs Req: 0.60	Lbr Typ: Standard	Man. Hrs.: 0.60			
Work. Comp. 6220	4.28%	Days Req: 0.08	Prod./Man Hr:	0.133333			
Work Type:							
Unit Cost:	<u>Material</u>	<u>Labor</u> 454.63	<u>Equipment</u> 124.13	<u>Other</u>	<u>Subcontractor</u> 1,275.00	<u>Plug</u>	<u>Truck</u>
Total Cost:		36.37	9.93		102.00		

02	Soil Sterilant	0.08 SF	0.0683	195.40
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Unit Cost:	<u>Material</u> 0.02	<u>Labor</u> 0.01	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u> 0.04	<u>Plug</u>	<u>Truck</u>
Total Cost:	47.10	36.37	9.93		102.00		

Murdock Elem And WIS Relocatables - CHANGES - COST ONLY

03	Pave		58.19 TON		56.9966	3,316.63
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Description	Area	Quantity/Days	UM	Unit Cost	Total Cost
E Ingersol-Rand DD24 Roller	RRH17	1.00 / 0.43	DAY	293.0400	126.30
E Vibra Plate	RRH17	1.00 / 0.43	DAY	27.2000	11.72
E Boot Pot	RRH17	1.00 / 0.43	DAY	78.0000	33.62
E Pick Up Truck	RRH17	1.00 / 0.43	DAY	117.2000	50.51
E Water Trailer	RRH17	1.00 / 0.43	DAY	91.0400	39.24
L AC Paver Operator Group 4	L2/O1H18	1.10 / 0.43	DAY	641.1200	303.95
L Operator Foreman	L2/O1H18	1.10 / 0.43	DAY	667.2800	316.36
L Screedman Operator Group 5	L2/O1H18	1.00 / 0.43	DAY	629.4400	271.29
L Asphalt Raker Const. Spec.	L2/O1H18	2.00 / 0.43	DAY	474.2400	408.79
L Asphalt Shoveler Group 2	L2/O1H18	2.00 / 0.43	DAY	466.4800	402.11
L AC Roller Operator Group 4	L2/O1H18	2.10 / 0.43	DAY	641.1200	580.28
E Skip Loader / Float Tractor	RRH17	1.00 / 0.43	DAY	241.3600	104.03
E Commerical Paver 8-18 Feet	RRH17	1.00 / 0.43	DAY	1,079.8400	465.41
E 12 Ton Vibratory Roller	RRH17	1.00 / 0.43	DAY	471.0400	203.02

Prod. per Day: 135.00	Day Lgth: 8.00	Hrs Req: 3.45	Lbr Typ: Standard	Man. Hrs.: 32.07			
Work. Comp. 6220	4.28%	Days Req: 0.43	Prod./Man Hr:	1.814468			
Work Type:							
	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:		39.23	17.77				
Total Cost:		2,282.78	1,033.85				

04	Pave		58.19 TON		131.9974	7,680.93
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	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	61.94	39.85	17.94		1.75		10.51
Total Cost:	3,604.40	2,319.15	1,043.78		102.00		611.60

01	Remove AC, Touch Up AB, Place Fabric And Pave Back		58.19 SF		5.6663	16,205.76
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	<u>Material</u>	<u>Labor</u>	<u>Equipment</u>	<u>Other</u>	<u>Subcontractor</u>	<u>Plug</u>	<u>Truck</u>
Unit Cost:	1.81	2.03	0.96		0.37		0.50
Total Cost:	5,174.61	5,820.07	2,737.13		1,056.16		1,417.79