



ALEDO ISD BOARD MEETING TEMPLATE

MEETING DATE: December 13, 2021

AGENDA ITEM: Consider Approval of Contingency Allowance Expenditure Authorizations for 2019 Bond Project Annetta Elementary School

PRESENTER: Earl Husfeld, Chief Financial Officer and Tyler Boswell, Director of Construction & Facilities

BACKGROUND INFORMATION:

- During the October 5, 2020 board meeting, the Board of Trustees approved the Competitive Sealed Proposal (CSP) submitted by Satterfield & Pontikes Construction, Inc. (S&P) in the amount of \$30,709,000.00 for the Annetta Elementary School (Elementary School No. 6) construction project.
- The contract amount of \$30,709,000.00 contains an Owner's Contingency amount of \$1,469,593.12.
- This Owner's Contingency amount is to be used by the District for unforeseen conditions, changes to the work, and/or for the betterment of the project. Any unused portion of Owner's Contingency must be credited to the District in calculating the final payment due.
- By contract, the Board of Trustees delegated authority to the Superintendent, or designee, to approve changes to the work, etc. where such changes are within the Owner's Contingency and do not exceed the amount of \$50,000.00.
- As we work through the process of closing out this project, there are three (3) Contingency Allowance Expenditure Authorizations (CAEA) that exceed the \$50,000.00 threshold. Following is a summary of these CAEAs:
 - CAEA #45 – Greco Extended Costs - \$196,028.16 – This CAEA is associated with concrete scope of work on the project and extension of timeline due to rain delays and box culvert delays caused by inspections and required verification, inspections, and conformance to requirements.
 - CAEA #61 – Square D to Eaton Switchgear – \$135,629.04 - This CAEA is related to the delay in delivery of the Square D switchgear and changing to expedited delivery of Eaton switchgear and related breaker study.
 - CAEA #74 – Clarification #10 Wastewater Building and Power Aeration System - \$183,527.68 – This CAEA is associated with the changes made to the wastewater treatment plant (WWTP) building which includes power to the aeration system. This CAEA is strictly the electrical scope associated with those changes.
- PBK, architecture firm for the Annetta Elementary School construction project, and district staff have reviewed the backup material provided by S&P and costs associated these CAEAs and recommend acceptance of each CAEA.



ALEDO ISD BOARD MEETING TEMPLATE

- The acceptance/approval of these CAEAs by the Board of Trustees will not cause the Owner's Contingency amount included within the construction contract to be exceeded.

FISCAL INFORMATION:

The total cost of \$515,184.88 for CAEA #45, CAEA #61, and CAEA #74 will be allocated to Owner's Contingency for this construction project.

ATTACHMENTS:

PBK Clarification/Recommendation Letter and S&P Explanation Letter and Cost Documentation for CAEA #45, CAEA #61 and CAEA #74.

ADMINISTRATIVE RECOMMENDATION:

The Administration recommends the Board of Trustees approve Contingency Allowance Expenditure Authorization #45, #61, and #74 for the Annetta Elementary School construction project as presented.



November 8, 2021

VIA: Email Delivery

Mr. Earl Husfeld
Chief Financial Officer
Aledo Independent School District
1008 Bailey Ranch Road
Aledo, TX 76008

RE: **Contingency Allowance Expenditure Authorization #45
Clarification for Greco Extended Costs**
Aledo #6 – Annetta Elementary School
PBK Project No.:2018

Dear Mr. Husfeld,

Attached please find Contingency Allowance Expenditure Authorization for #45 (CAEA). This CAEA consists of the following:

CAEA 45:	Greco Extended Costs	\$196,028.16
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The CAEA has been generated to document clarification associated with concrete scope of work on the project and extension of timeline due to box culvert delays caused by inspections and required verification, inspections, and conformance to City of Annetta requirements.

Amount Submitted:	\$196,028.16
Amount Approved:	\$196,028.16

PBK has reviewed the backup material and costs associated with the above referenced change proposals and recommend acceptance of this CAEA.

If you have any questions or need additional information, please contact our office.

Sincerely,

Lee Osborne, AIA, LEED AP
Principal

Enclosures



SATTERFIELD & PONTIKES CONSTRUCTION, INC.

GENERAL CONTRACTORS / CONSTRUCTION MANAGEMENT / DESIGN BUILD

November 4, 2021

ALEDO ISD
Attn: Tyler Boswell
1008 Bailey Ranch Road
Aledo, TX 76008

Subject: Aledo ES #6
CAEA #45 – Greco Extended Costs

Dear Mr. Boswell,

This letter is to provide the CAEA for Greco Extended Costs. Greco was the concrete subcontractor that did all of the concrete scope of work on the project. Greco was to have all of their work done by 4/20/21. Greco was the first subcontract on the project and ended up being one of the last ones on site for circumstances and conditions that were outside of their or S&P’s control. Our baseline schedule had the site finishing before the building was to be finished. In reality, the building actually finished before the site did. The two main circumstances were the duration of the installation of the box culvert and weather.

The box culvert started on 12/28/20 and had a 6-week duration. The box should have been complete by mid-February. On 1/18/21, the box installation was stopped and the town wanted the entire 900 LF removed because Halff did not do the inspections. On 3/8/21, the town wanted only 300 LF removed. S&P was released to go back to work on 3/19/21 but the town’s stance on the removal of the 300 LF was still in play. The box culvert was completed on 5/4/21. The town is not requiring removal of the box. The total duration of the box was 5 months. This impacted the entire site logistics including parking of the craft, deliveries, and storage of material. S&P actually chartered a bus and had the craft park their cars at local church for several weeks as they shuttled back and forth.

Upon completion of the box culvert, the project experienced heavy rain in the months of May and June. We had the earthwork contractor find a pit that we could dig down to dry dirt to finish the fill/grading above the box culvert so we could get Learner Lane subgrade done in preparation for paving.

This CAEA does not have craft costs in it. This CAEA is strictly Greco’s onsite management costs, extended equipment rental, and some additional costs for formwork in lieu of stripping forms for the next pour.

S&P requests a Contingency Allowance Expenditure Authorization in the amount of:

ADD.....\$196,028.16

Attached you will find the appropriate backup. Please contact me if you should have any questions regarding the above.

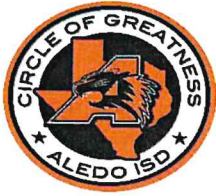
Sincerely,

Satterfield & Pontikes Construction, Inc.



Jason Haralson
Sr. Vice President

Cc: S&P File



Change Proposal Request

Contractor:	Satterfield & Pontikes Construction, Inc.	CX#
CAEA	# 45	
CAEA Date:	6/22/2021	
Project:	52720	Aledo Elementary School #6

Description
 The cost for this CAEA is associated with the cost of completion for Greco. Based on the Original Contract Schedule, Greco was to be complete with all work by April 20, 2021. However, due to circumstances and conditions outside of S&P's control, such as unprecedented adverse weather conditions, the concrete scope will not be complete until the estimated date of August 1, 2021 according to the latest schedule. At the time of this request, S&P has directed Greco to take on additional scope to accelerate work to meet the 8/1/2021 substantial completion date. The cost of this CAEA represents cost impacts for extending the schedule to 8/1/2021.

CPR	
Type	Source
<input type="checkbox"/> A/E Error <input type="checkbox"/> A/E Omission <input checked="" type="checkbox"/> Scope Change <input type="checkbox"/> Unforeseen Condition	<input type="checkbox"/> Acceleration <input type="checkbox"/> Delay <input type="checkbox"/> A/E Request <input checked="" type="checkbox"/> GC Request <input type="checkbox"/> PM Request <input type="checkbox"/> Aledo ISD Request (Please Provide Name & Title)
	<input type="checkbox"/> Local Government Directive

Justification:
 Extension to meet substantial completion.

Cost Comparison	Amount	Days
Contractor's Initial Proposal	\$ 196,028.16	0
PM Estimated Amount		0
PM Recommended Amount		0

Recommendation & Approval	
PM:	<input type="checkbox"/> Recommended <input type="checkbox"/> Not Recommended
Aledo ISD PM:	<input type="checkbox"/> Approved <input type="checkbox"/> Denied



Change Proposal - Contractor's Estimate
(for CMAR Contracts)

Dated 6/22/2021

CAEA NO.

45

PROJECT

Aledo Elementary School #6

Subcontractor Cost

Material \$ 20,661.60

Labor \$ 98,225.51

Equipment \$ 58,133.94

Subtotal \$ 177,021.05

Subcontractor's Overhead & Profit \$ 19,007.11

Total Cost for Subcontractor **\$ 196,028.16**

General Contractor Cost

Material \$ -

Labor _____

Equipment _____

Subtotal General Contractor Cost **\$ -**

Subtotal Cost for General Contractor & Subcontractor **\$ 196,028.16**

TIME EXTENSION IN DAYS (FOR THIS CHANGE) **0**

General Contractor Signature **Dated 6/22/2021**

A/E Signature **Dated**



REQUEST FOR CHANGE ORDER

Date <u>June 10, 2021</u>	RCO NO. _____	<u>29 Rev</u>
	RCO NAME _____	
	PROJECT _____	<u>Aledo ES #06</u>

Description

Based on the Original Contract Schedule, Greco was to be complete with all work by April 20, 2021. However, due to circumstances and conditions outside of Greco's control the concrete scope will not be completed until August 1, 2021 (according to S&P's latest Projection) At the time of this writing, S&P has directed Greco to take on additional scope and complete grading in order to make the 8/1/21 completion date. The cost in this RCO represents the cost impacts for extending the schedule from April, 20, 2021 to August 1, 2021 (103 Cal Days). 35 Rain days have been deducted from the 103 (Cal days) down to 68 (Cal days) as reflected in the attached GC COSTS spread sheet.

1	Labor	\$	<u>98,226</u>	
2	Material	\$	<u>20,662</u>	
3	Equipment	\$	<u>53,249</u>	
4	Sub	\$	-	
5	Subtotal (Sum Lines 1, 2, 3, 4)	\$	<u>172,136</u>	
6	Overhead & Profit (10% of Line 5)	\$	<u>17,214</u>	
7	Total Cost (Sum Lines 5 and 6)	\$		189,350

Bond & Insurance

8	Cost of Insurance (% of Line 7)	0.67%	\$	<u>1,269</u>
9	Cost of Payment & Performance Bonds (% of Line 7)	0.0%	\$	<u>-</u>
10	Total Cost for Change Proposal		\$	190,618

11 **TIME EXTENSION IN DAYS (FOR THIS CHANGE)** 68

<u>Vince Potter</u> Greco Structures	Dated	<u>6/10/2021</u>
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General Contrator	Dated	
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5700 Las Positas Road
Livermore CA 94551

MAIN OFFICE

MAY 12 2021

5711

INVOICE

ACCOUNT NO	INVOICE NO	INVOICE DATE
R1012613	300455360	01-MAY-2021
INVOICE AMT	TERMS	CONTRACT
\$134.45	NET DUE UPON RECEIPT	5028404
CUSTOMER PO		
PO # 0002		
NOTE		
Questions about this invoice? Contact Name: Peter Narayan Email: peter.narayan@mgrc.com Phone: 925-453-3335 Fax: For Returns, Service or Other Inquiries: 713-378-8555		

12861 1 AB 0.428 E0189X I0311 D7549135342 S2 P8229640 0001:0002



GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

Serial #	Item & Description	Tax	Charge
730975	Site Location: 253 W Fm 5, Annetta, TX 76008 Project Name: Job #22430 8x40 Storage-Rent 05/01/2021 to 05/30/2021	Y	\$120.00

22430-0002

Effortlessly make payments, download, access invoices and more with our new customer portal.

ACTIVATE YOUR ACCOUNT BY VISITING
mobilemodularcontainers.com/customerhub

REMIT TO Mobile Modular Portable Storage P.O. Box 45043 San Francisco CA 94145-5043	Total:	\$120.00
	Personal Property Expense:	\$4.20
	Total Tax:	\$10.25
	Remit Total:	\$134.45

Thank you for the opportunity to serve you. We appreciate your business.
This transaction is subject to the terms and conditions of McGrath RentCorp or Mobile Modular Portable Storage



4 WEEK BILLING INVOICE

190061497-005

BRANCH P09
2201 TIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

JOB SITE

ALEDO MIDDLE SCHOOL
2533 W FM 5
ANNETTA TX 76008-7813

Office: 713-375-3280 Cell: 281-932-4449

Customer # : 1361415
Invoice Date : 05/29/21
Date Out : 01/21/21 05:00 PM
Billed Through : 06/10/21 00:00
UR Job Loc : 2533 W FM 5, ANNETTA
UR Job # : 163
Customer Job ID:
P.O. # : 22430-149
Ordered By : ARMANDO GARCIA
Reserved By : STACY LLEWELLYN
Salesperson : TERENCE PECK

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

Invoice Amount: \$1,413.67

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4899
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Table with columns: Qty, Equipment, Description, Minimum, Day, Week, 4 Week, Amount. Row 1: 1, 10589445, ROLLER 1.5 TON DOUBLE DRUM SMOOTH DSL, 170.00, 170.00, 510.00, 1,278.00, 1,278.00.

Rental Subtotal: 1,278.00

SALES/MISCELLANEOUS ITEMS:

Table with columns: Qty, Item, Price, Unit of Measure, Extended Amt. Row 1: 1, TX UNIT PROPERTY TAX, [DRSURT/MCI], 2.557, EACH, 2.56. Row 2: 1, ENVIRONMENTAL SERVICE CHARGE, [ENV/MCI], 25.560, EACH, 25.56.

Sales/Misc Subtotal: 28.12

Agreement Subtotal: 1,306.12

Tax: 107.55

Total: 1,413.67

COMMENTS/NOTES:

CONTACT: FERNANDO HERNANDEZ
CELL#: 956-240-6053
FERNANDO 956-240-6053

ENTERED ELAKEY

Billing period: 28 Days From 5/13/21 05:00 PM Thru 6/10/21 05:00 PM

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #
IN ORDER TO CLOSE THIS CONTRACT

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at https://www.unitedrentals.com/legal/rental-service-terms-US and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.



BRANCH P09
2201 TIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

JOB SITE

ALEDO MIDDLE SCHOOL
2533 W FM 5
ANNETTA TX 76008-7813

Office: 713-375-3280 Cell: 281-932-4449

Customer # : 1361415
Invoice Date : 03/13/21
Date Out : 02/01/21 05:00 PM
Billed Through : 03/29/21 00:00
UR Job Loc : 2533 W FM 5, ANNETTA
UR Job # : 163
Customer Job ID:
P.O. # : 22430-164
Ordered By : FERNANDO HERNANDEZ
Reserved By : STACY LLEWELLYN
Salesperson : TERENCE PECK

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

ENTERED BY EL

Invoice Amount: \$2,105.89

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4899
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10982338	SKID STEER TRACK LOADER 2800-3399# Make: TAKEUCHI Model: TL12R2-CR Serial: 412101997 Meter out: 1525.00 Meter in: .00 Substituted for: SKID STEER TRACK LOADER 2400-2799#	326.00	326.00	987.00	1,877.00	1,877.00
1	903/5078	SKID STEER BUCKET 78" SMOOTH					N/C

Rental Subtotal: 1,877.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX UNIT PROPERTY TAX [DRSURT/MCI]	3.755	EACH	3.76
1	TEXAS DIESEL TAX [TXDSL/MCI]	29.640	EACH	29.64
1	ENVIRONMENTAL SERVICE CHARGE [ENV/MCI]	37.540	EACH	37.54
Sales/Misc Subtotal:				70.94
Agreement Subtotal:				1,947.94
Tax:				157.95
Total:				2,105.89

COMMENTS/NOTES:

CONTACT: FERNANDO HERNANDEZ
CELL#: 956-240-6053
FERNANDO 956.240.6053

Billing period: 28 Days From 3/01/21 05:00 PM Thru 3/29/21 05:00 PM

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #
IN ORDER TO CLOSE THIS CONTRACT

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

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BRANCH P09
2201 TIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

JOBS

ALEDO MIDDLE SCHOOL
2533 W FM 5
ANNETTA TX 76008-7813

Office: 713-375-3280 Cell: 281-932-4449

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

Customer # : 1361415
Invoice Date : 05/09/21
Date Out : 11/07/20 09:00 AM
Billed Through : 05/22/21 00:00
UR Job Loc : 2533 W FM 5, ANNETTA
UR Job # : 163
Customer Job ID:
P.O. # : 22430 - 33
Ordered By : ROBERT GARCIA
Reserved By : NICOLETTE ELVIR
Salesperson : TERENCE PECK

Invoice Amount: \$3,473.69

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4899
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10469932	FORKLIFT VARIABLE REACH 10000# 50' & UP Make: SKYTRAK Model: 10054 Serial: 0160072128 Meter out: 2628.10 Meter in: .00	524.00	524.00	1,457.00	3,097.00	3,097.00
1	230/5130	FORKLIFT 6' FORKS					N/C

Rental Subtotal: 3,097.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX UNIT PROPERTY TAX [DRSURT/MCI]	6.197	EACH	6.20
1	TEXAS DIESEL TAX [TXDSL/MCI]	47.940	EACH	47.94
1	ENVIRONMENTAL SERVICE CHARGE [ENV/MCI]	61.940	EACH	61.94
Sales/Misc Subtotal:				116.08
Agreement Subtotal:				3,213.08
Tax:				260.61
Total:				3,473.69

COMMENTS/NOTES:

CONTACT: ENRIQUE HERNANDEZ
CELL#: 281-932-4452

Billing period: 28 Days From 4/24/21 09:00 AM Thru 5/22/21 09:00 AM

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #
IN ORDER TO CLOSE THIS CONTRACT

EL

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

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193650278-001

BRANCH P09
2201 TIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

JOB SITE

ALEDO MIDDLE SCHOOL
2533 W FM 5
ANNETTA TX 76008-7813

Office: 713-375-3280 Cell: 281-932-4449

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

EL

Customer # : 1361415
Invoice Date : 05/12/21
Rental Out : 05/10/21 03:37 PM
Rental In : 05/12/21 10:16 AM
UR Job Loc : 2533 W FM 5, ANNETTA
UR Job # : 163
Customer Job ID:
P.O. # : 22430-258
Ordered By : AMANDO GARCIA
Reserved By : STACY LLEWELLYN
Salesperson : TERENCE PECK

Invoice Amount: \$221.23

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4899
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10838639	LIGHT TOWER, 4-7KW VERT MAST Make: MAGNUM PRO Model: MLT3060MV Serial: 3003465289 Meter out: 1950.44 Meter in: 1950.90	100.00	100.00	258.00	549.00	200.00

Rental Subtotal: 200.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX UNIT PROPERTY TAX	[DRSURT/MCI]	.400 EACH	.40
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI]	4.000 EACH	4.00

Sales/Misc Subtotal: 4.40

Agreement Subtotal: 204.40

Tax: 16.83

Total: 221.23

COMMENTS/NOTES:

CONTACT: AMANDO GARCIA
CELL#: 281-932-4973

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

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191845536-005

BRANCH P09
2201 TIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

SALES
JOB

ALEDO MIDDLE SCHOOL
2533 W FM 5
ANNETTA TX 76008-7813

Office: 713-375-3280 Cell: 281-932-4449

Customer # : 1361415
Invoice Date : 05/29/21
Date Out : 03/19/21 12:00 PM
Billed Through : 06/11/21 00:00
UR Job Loc : 2533 W FM 5, ANNETTA
UR Job # : 163
Customer Job ID:
P.O. # : 22430-214
Ordered By : FERNANDO HERNANDEZ
Reserved By : STACY LLEWELLYN
Salesperson : TERENCE PECK

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

Invoice Amount: \$4,488.34

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4899
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10735111	FORKLIFT VARIABLE REACH 12000# 53' & UP Make: GENIE Model: GTH-1256 Serial: GTH12M-413 Meter out: 2113.60 Meter in: .00	730.00	730.00	1,736.00	4,002.00	4,002.00

Rental Subtotal: 4,002.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX UNIT PROPERTY TAX [DRSURT/MCI]	8.008	EACH	8.01
1	TEXAS DIESEL TAX [TXDSL/MCI]	61.515	EACH	61.52
1	ENVIRONMENTAL SERVICE CHARGE [ENV/MCI]	80.040	EACH	80.04

Sales/Misc Subtotal: 149.57

Agreement Subtotal: 4,151.57
Tax: 336.77
Total: 4,488.34

COMMENTS/NOTES:

CONTACT: FERNANDO HERNANDEZ
CELL#: 956-240-6053

ENTERED ELAKEY

Billing period: 28 Days From 5/14/21 12:00 PM Thru 6/11/21 12:00 PM

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #
IN ORDER TO CLOSE THIS CONTRACT

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194745932

BRANCH P09
2201 FIN TOP RD
SUITE 400
WEATHERFORD TX 76087-4427
817-594-3962

Customer # : 1361415
Agreement Date : 06/10/21
Rental Out : 06/10/21 05:00 PM
Scheduled In : 07/08/21 05:00 PM
UR Job Loc : 2355 W FM 5, ALEDO
UR Job # : 177
Customer Job ID :
F.O. # : 22430-287
Ordered By : AMANDO GARCIA
Reserved By : TERENCE PECK
Salesperson : TERENCE PECK

ALEDO MIDDLE SCHOOL
2355 W FM 5
ALEDO TX 76008

Office: 713-375-3280 **Cell:** 713-375-2375

GRECO STRUCTURES LLC
8611 DERRINGTON RD
HOUSTON TX 77064-6003

**This is not an invoice
Please do not pay from this document**

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Estimated Amt.
1	10465283	SKID STEER TRACK LOADER 2800-3399# Make: TAKEUCHI Model: TL12CR Serial: 201202233 Meter out: 1972.42	351.00	351.00	1,119.00	2,291.00	2,291.00
1	903/5078	SKID STEER BUCKET 78" SMOOTH					N/C

Rental Subtotal: 2,291.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX UNIT PROPERTY TAX [DRSURT/MCI]	4.584	EACH	4.58
1	TEXAS DIESEL TAX [TXDSL/MCI]	38.202	EACH	38.20
1	ENVIRONMENTAL SERVICE CHARGE [ENV/MCI]	45.820	EACH	45.82
1	DELIVERY CHARGE	105.000	EACH	105.00
1	PICKUP CHARGE	105.000	EACH	105.00
Sales/Misc Subtotal:				298.60
Agreement Subtotal:				2,589.60
Tax:				210.11
Estimated Total:				2,799.71

COMMENTS/NOTES:

CONTACT: AMANDO GARCIA
CELL#: 713-375-2375
FERNADO- 956-240-6053

A CLEANING CHARGE WILL APPLY TO EQUIPMENT RETURNED WITH EXCESSIVE DIRT, CONCRETE, AND/OR PAINT. CUSTOMER IS RESPONSIBLE FOR ALL DAMAGE INCLUDING TIRES. THERE WILL BE AN ADDITIONAL CHARGE FOR MISSING KEYS. A REFUELING SERVICE CHARGE WILL BE APPLIED TO

ALL UNITS NOT RETURNED FULL OF FUEL

SEE BELOW FOR EXPLANATION OF REFUELING SERVICE CHARGE

ARE YOU OR YOUR EMPLOYEES IN NEED OF OPERATOR CERTIFICATION TRAINING? CONTACT UNITED ACADEMY TODAY 844-222-2345 OR WWW.UNITEDACADEMY.UR.COM TRAINING IS NOT AVAILABLE ON CERTAIN EQUIPMENT IN CANADA.

CONTINUED

OPTIONAL RENTAL PROTECTION PLAN: THE RENTAL PROTECTION PLAN IS NOT INSURANCE. The Rental Protection Plan is only available to direct commercial customers. Upon accepting the optional Rental Protection Plan, Customer agrees to pay a charge equal to 15% of the rental charges on the Equipment Customer wants covered by the Rental Protection Plan. In return, United agrees to waive certain claims for accidental damages to or theft of such covered equipment occurring during normal and careful use. Customer remains liable for all other damages as set forth in the Rental and Service Terms.
PRICE FOR RENTAL OF A MOTOR VEHICLE: THIS CONTRACT OFFERS, FOR AN ADDITIONAL CHARGE, A DAMAGE WAIVER (or "Rental Protection Plan") TO LIMIT CUSTOMER'S FINANCIAL RESPONSIBILITY FOR DAMAGE TO, OR THEFT OF, THE MOTOR VEHICLE. BEFORE DECIDING WHETHER TO PURCHASE THE DAMAGE WAIVER, CUSTOMER MAY WISH TO DETERMINE WHETHER CUSTOMER'S OWN INSURANCE GIVES CUSTOMER COVERAGE. THE PURCHASE OF THIS DAMAGE WAIVER IS NOT MANDATORY, AND MAY BE WAIVED OR DECLINED BY CUSTOMER.
CLEANING CHARGE: WILL APPLY TO EQUIPMENT RETURNED WITH EXCESSIVE DIRT, CONCRETE, AND/OR PAINT. CUSTOMER IS RESPONSIBLE FOR ALL DAMAGE. THERE WILL BE AN ADDITIONAL CHARGE FOR MISSING KEYS.
FUELING SERVICE CHARGE: Customer is required to return the Equipment with a full tank of fuel. If Customer returns the Equipment with less than a full tank of fuel, Customer agrees to pay a Refueling Service Charge at the per gallon rate applicable at the time Customer returns the Equipment. (The current rate is available from the Store Location; but, the final rate may differ based on market conditions at the time of return). For additional information, see the Rental and Service Terms.
ENVIRONMENTAL SERVICE CHARGE: Due to the hazardous nature of some waste and other products, to comply with federal and state environmental regulations, and to promote a clean environment, United charges an Environmental Service Charge for certain rentals. The Environmental Service Charge is not a government-mandated charge, is not designated for any particular use, and is used at United's discretion. The Environmental Service Charge is 2.00% of the rental charge and will not exceed \$99. Customer acknowledges the items indicated above are subject to the Environmental Service Charge and Customer agrees to pay that Charge.

LIVERY: If Customer chooses to have United deliver and pick up the Equipment, Customer agrees to pay a Delivery and Pickup Service Charge.
READ BEFORE SIGNING: By signing below, Customer: (i) agrees that Customer has received, read and agreed to the Rental and Service Terms and the optional Rental Protection Plan ("RPP") Terms (if the RPP is applicable), both of which are posted online at <https://www.unitedrentals.com/legal/rental-service-terms-US> and <https://www.unitedrentals.com/legal/rpp-4US>, respectively, and are incorporated by reference into this Agreement; (ii) authorizes United Rentals to charge the payment method provided per the above-referenced terms; and (iii) acknowledges that the Equipment is in the condition as stated on the condition reports. By agreeing to the Terms, you agree (1) to remedy United for losses relating to his transaction; (2) that United's liabilities are limited; and (3) that United makes no warranties as to the equipment's merchantability, quality or fitness for a particular purpose; as well as other terms affecting your rights.

X

CUSTOMER SIGNATURE _____ DATE _____ CUSTOMER NAME PRINTED _____ UNITED RENTALS REPRESENTATIVE/DELIVERED BY DATE _____

NOTICE: By accepting delivery of the Equipment listed above or making payment(s) to United for the Equipment listed above, Customer agrees to be bound by the Rental and Service Terms at the referenced U.S., even if the Rental and Service Agreement has not been fully executed. COPIES OF THE RENTAL AND SERVICE TERMS AND, IF APPLICABLE, THE RPP ARE AVAILABLE IN PAPER FORM UPON REQUEST.

INVPDF



BRANCH 51F
 1302 Bammel Road
 Houston TX 77073-2106
 713-802-9788
 713-802-1486 FAX

194578742

job site

VPAC
 11420 MATZKE ROAD
 CYPRESS TX 77410

Office: 713-375-3280 Cell: 832-405-1687

Customer # : 1361415
 Quote Date : 06/07/21
 Estimated Out : 06/08/21 09:00 AM
 Estimated In : 07/06/21 09:00 AM
 UR Job Loc : 11420 MATZKE ROAD, C
 UR Job # : 176
 Customer Job ID:
 P.O. # : QUOTE
 Ordered By : AMANDO GARCIA
 Written By : STACY LLEWELLYN
 Salesperson : FRED MAZE III

GRECO STRUCTURES LLC
 8611 DERRINGTON RD
 HOUSTON TX 77064-6003

**This is not an invoice
 Please do not pay from this document**

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Estimated Amt.
1	9527075	TRUCK DUMP 10-14 YARD CDL	483.00	483.00	1,513.00	3,638.00	3,638.00
1	9527050	TRUCK DUMP 5 YARD NON CDL	295.00	295.00	787.00	1,971.00	1,971.00

Rental Subtotal: 5,609.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	TX MOTOR VEHICLE TAX	[TXVEHTAX/MCI] 560.900	EACH	560.90
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI] 99.000	EACH	99.00

Sales/Misc Subtotal: 659.90

Agreement Subtotal: 6,268.90

Tax: 8.17

Estimated Total: 6,277.07

COMMENTS/NOTES:

CONTACT: JOSE
 CELL#: 832-705-0772

A MINIMUM CLEANING FEE OF \$350.00 WILL BE CHARGED ON ANY UNITS RETURNED WITH TRACKS/DRUMS PACKED FULL OF MUD, DIRT, OR DEBRIS.
 CUSTOMER INITIALS: _____

This proposal may be withdrawn if not accepted within 30 days. The above referenced Rental Protection Plan, environmental, and tax charges are estimates and are subject to change.

NOTICE: This is not a rental agreement. The rental of equipment and any items listed above is subject to availability and subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

Vince Potter

From: Vince Potter
Sent: Friday, June 11, 2021 10:44 AM
To: Vince Potter
Subject: FW: QUOTE

From: Schellenberg, David <David.Schellenberg@whitecap.com>
Sent: Thursday, June 10, 2021 12:03 PM
To: Amando Garcia <agarcia@grecostructures.com>; Schellenberg, David <David.Schellenberg@whitecap.com>
Cc: Vince Potter <vpotter@grecostructures.com>
Subject: RE: QUOTE

104 pc 2 x 12 x 16' syp \$ 84.44 ea

DAVID SCHELLENBERG
WHITE CAP – DFW ACCT. MANAGER
817-401-6506
877-421-8361 FAX

**A- 4
Scope of Work**

Project	Aledo ISD Elementary School #6		
Address	2533 W. FM 5, Annetta, TX 76008		
Scope of Work	CONCRETE FORMWORK-SUPPLY		
Contract No.	22430-004		
Company name	Aluma Systems	Base Price	\$6,704.81
Mailing Address	14942 Talcott Street, Houston, TX 77015	Scope Revision	\$0.00
		VE's	\$0.00
Contact	Timothy Marler	Alternates	\$0.00
Email	tmarler@aluma.com	Subtotal	\$6,704.81
Phone	281-860-1900	Bond	\$0.00
Fax	281-402-1853	Total	\$6,704.81

Reference	Scope Item	Included	
24	Addendums Acknowledged: Through Addendum No. 3	YES	
Unit Pricing			
	All unit pricing is based on a 28 day rental cycle. Unit pricing is based on the quantities below.	Unit Rate/Mo.	Total Cost
	Column Formwork	\$XX/EA	\$
	Wall Formwork: 5,157.54 SF	\$1.30/SF	\$ 6,704.81
	Plus all accessories included		per 28 days
	Any additional formwork material required will be charged at \$1.30/SF		
	Elevated Deck Shoring	\$XX/SF	\$
	Elevated Deck Re-Shoring	\$XX/SF	\$
	ACCESSORIES		
	Partial Loads (Cost per Load) in addition to ____ Loads		

HR Salary History

Employee #: 4 - 4

Effective Dates: 08/18/14 - 06/06/21

Hourly & Salary

Position	Active	Effective	Salary/ Hourly	Old	New	Reason	% Increase	Updated	Next Review
HR Resource: 4 - KENNETH POTTER									
<i>VP - MARKETING, BUSINESS DE</i>	Y	08/18/14	S		\$1,153.85		0.00%	Y	
<i>VP - MARKETING, BUSINESS DE</i>	Y	05/18/15	S	\$1,153.85	\$1,250.00		8.33%	Y	
<i>PROJECT MANAGER</i>	Y	02/29/16	S	\$1,250.00	\$1,337.50		7.00%	Y	
<i>PROJECT MANAGER</i>	Y	02/27/17	S	\$1,337.50	\$1,431.13		7.00%	Y	
<i>PROJECT MANAGER</i>	Y	12/31/18	S	\$1,431.13	\$1,517.00		6.00%	Y	
<i>PROJECT MANAGER</i>	Y	12/30/19	S	\$1,517.00	\$1,638.36		8.00%	Y	

HR Salary History

Employee #: 3 - 3

Effective Dates: 08/18/14 - 06/06/21

Hourly & Salary

Position	Active	Effective	Salary\ Hourly	Old	New	Reason	% Increase	Updated	Next Review
HR Resource: 3 - LEONEY BARRIOS-LEON									
*** Invalid Code ***	Y	08/18/14	S	\$1,300.00	\$1,300.00		0.00%	Y	
*** Invalid Code ***	Y	05/18/15	S	\$1,300.00	\$1,442.31		10.95%	Y	
SUPERINTENDENT	Y	02/29/16	S	\$1,442.31	\$1,543.27		7.00%	Y	
SUPERINTENDENT	Y	02/27/17	S	\$1,543.27	\$1,635.87		6.00%	Y	
SUPERINTENDENT	Y	12/30/19	S	\$1,635.87	\$1,828.08		11.75%	Y	
SUPERINTENDENT	Y	04/19/21	S	\$1,828.08	\$1,924.06		5.25%	Y	

HR Salary History

Employee #: 657 - 657

Effective Dates: 05/23/16 - 06/06/21

Hourly & Salary

Position	Active	Effective	Salary\ Hourly	Old	New	Reason	% Increase	Updated	Next Review
HR Resource: 657 - FRANCISCO J GOMEZ #657									
No Position Code	Y	05/23/16	H	\$24.00	\$30.00		25.00%	N	

HR Salary History

Employee #: 1461 - 1461

Effective Dates: 11/30/20 - 06/06/21

Hourly & Salary

Position	Active	Effective	Salary\ Hourly	Old	New	Reason	% Increase	Updated	Next Review
HR Resource: 1461 - FERNANDO VILLALOBOS									
CARPENTER	Y	11/30/20	H	\$20.00	\$22.00		10.00%	N	

WEATHER DELAYS

Date	Conditions	Impact
10/26/2020	Rain, ground too wet	no work, critical path sitework
10/27/2020	Rain, ground too wet	no work, critical path sitework
10/28/2020	Rain, ground too wet	no work, critical path sitework
10/29/2020	Ground too wet	no work, critical path sitework
10/30/2020	Rain, ground too wet	no work, critical path sitework
11/25/2020	Rain, ground too wet	concrete, steel, MEP underground
11/29/2020	Rain, ground too wet	concrete, steel, MEP underground
11/30/2020	Rain, ground too wet	concrete, steel, MEP underground
12/6/2020	Rain, ground too wet	concrete, steel, MEP underground
12/12/2020	Rain, ground too wet	concrete, steel, MEP underground
12/13/2020	Rain, ground too wet	concrete, steel, MEP underground
12/14/2020	Rain, ground too wet	concrete, steel, MEP underground
12/30/2020	Rain, ground too wet	concrete, steel, MEP underground
12/31/2020	Rain, ground too wet	concrete, steel, MEP underground
1/1/2021	rain, ground too wet	concrete, steel, MEP underground
1/11/2021	snow, preventing safe access to site	concrete, steel, MEP, utilities
1/12/2021	snow, preventing safe access to site	concrete, steel, MEP underground
1/20/2021	rain	concrete, steel, MEP underground
1/21/2021	rain	concrete, steel, MEP, utilities
1/22/2021	rain	concrete, steel, MEP underground
1/23/2021	rain	concrete, steel, MEP underground
1/24/2021	rain	concrete, steel, MEP underground
1/25/2021	rain	concrete, steel, MEP underground
1/27/2021	rain	concrete, steel, MEP underground
1/30/2021	rain	concrete, steel, MEP underground
2/11/2021	rain/freezing cold	concrete paving pour delayed, steel erection, utilities
2/12/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/13/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/15/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/16/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/17/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/18/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/19/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/20/2021	rain/freezing cold/icy road conditons	concrete paving pour delayed, steel erection, utilities
2/26/2021	rain	concrete paving pour delayed, steel erection, utilities
2/27/2021	rain	concrete paving pour delayed, steel erection, utilities
3/1/2021	rain	mason, concrete, steel, water proofing, roofing
3/14/2021	rain	mason, concrete, steel, water proofing, roofing
3/17/2021	rain	mason, concrete, steel, water proofing, roofing
3/22/2021	rain	mason, concrete, steel, water proofing, roofing
3/23/2021	rain	mason, concrete, steel, water proofing, roofing
3/24/2021	rain	mason, concrete, steel, water proofing, roofing
3/25/2021	rain	mason, concrete, steel, water proofing, roofing
4/13/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/14/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/16/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/17/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/24/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/29/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/28/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
4/30/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
5/1/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
5/2/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
5/3/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
5/4/2021	rain/mud	masonry, tx dot road work, roof, exterior framing, paving
5/11/2021	rain/mud	roof, paving, exterior framing, masonry, window install
5/12/2021	rain/mud	roof, paving, exterior framing, window install
5/16/2021	rain/mud	roof, paving, exterior framing, window install
5/17/2021	rain/mud	roof, paving, exterior framing, window install, masonry, tanks
5/18/2021	rain/mud	roof, paving, exterior framing, window install, masonry, tanks
5/24/2021	rain/mud	roof, paving, exterior framing, window install, masonry, tanks
5/25/2021	rain/mud	roof, paving, exterior framing, window install, masonry, tanks
5/31/2021	rain/mud	roof, paving, exterior masonry, tanks, windows, skylights
6/2/2021	rain/mud	roof, paving, exterior masonry, tanks, plaster, windows, skylights
6/7/2021	rain/mud	roof, paving, exterior, masonry, tanks, plaster, curtain walls



**GRECO
STRUCTURES**

REQUEST FOR CHANGE ORDER

Date June 10, 2021

RCO NO. 29.1 Rev

RCO NAME _____

PROJECT Aledo ES #06

Description

The cost to maintain the rental of a street sweeper for street cleanup through the project due to inclement weather conditions.

1	Labor	\$	-	
2	Material	\$	-	
3	Equipment	\$	4,885	
4	Sub	\$	-	
5	Subtotal (Sum Lines 1, 2, 3, 4)	\$	4,885	
6	Overhead & Profit (10% of Line 5)		\$	489
7	Total Cost (Sum Lines 5 and 6)			\$ 5,374

Bond & Insurance

8	Cost of Insurance (% of Line 7)	0.67%	\$	36	
9	Cost of Payment & Performance Bonds (% of Line 7)	0.0%	\$	-	
10	Total Cost for Change Proposal				\$ 5,410

11 **TIME EXTENSION IN DAYS (FOR THIS CHANGE)** 0

Dated

Greco Structures

Dated

General Contractor

H&E EQUIPMENT SERVICES.

280465

Branch:
 H&E EQUIPMENT SERVICES, INC. #4085
 104 BPR Lane
 Aledo, TX 76008-3154
 Phone: (817) 200-3100
 Fax: (817) 200-3101

Remit to:
 H&E EQUIPMENT SERVICES, INC.
 PO Box 849850
 Dallas, TX 75284-9850

Billed to:
 SATTERFIELD AND PONTIKES CONST
 Ste 100
 11000 Equity Dr
 Houston, TX 77041-8235

Ship to:
 Aledo ISD
 2501 Farm to Market 5
 Annetta South, TX 76008
Contact: Tony
Phone: 985-210-4022

Rental Invoice #	95877477
Amount (USD)	\$2,011.40
Customer #	1011171
Invoice Date	06/02/2021
Terms	Net due in 30 days
Contract #	310138733
Incoterm	H&E Delivery
PO #	52720 Aledo #6
Project Name	Aledo ISD
Ordered By	Tony
Billing Start Date	05/17/2021
Billing End Date	06/13/2021
Reference Inv #	

Rental Items

Qty	Item	Description	Day	Week	4 Week	Amount
1	10143068	Broom Ride-On ROPS 3-Whl LY-LAYMOR 300 SERIAL: 35030	\$271.00	\$712.00	\$1,586.00	\$1,586.00
					Rental	\$1,586.00

Miscellaneous Items

Qty	Description	Unit Price	Amount
1	Heavy Equipment Dealer Inventory Tax	\$2.87	\$2.87
1	Environmental - Rental	\$31.56	\$31.56
1	Loss Damage Waiver	\$237.90	\$237.90
	Miscellaneous		\$272.33
	Subtotal		\$1,858.33

Tax Items

Description	Amount
State Tax	\$115.96
County Tax	\$9.28
City/District Tax	\$27.83
Tax	\$153.07
INVOICE TOTAL	\$2,011.40

SCANNED
 JUN 08 2021

For questions on your account, please contact CreditDallas@he-equipment.com or 866- 322-6577.

All invoices are subject to our standard terms and conditions and may be found at he-equipment.com/resources.

THANK YOU FOR YOUR BUSINESS



November 9, 2021

VIA: Email Delivery

Mr. Earl Husfeld
Chief Financial Officer
Aledo Independent School District
1008 Bailey Ranch Road
Aledo, TX 76008

RE: **Contingency Allowance Expenditure Authorization #61
Square D to Eaton Switchgear (including coordination study-breaker
change)**
Aledo #6 – Annetta Elementary School
PBK Project No.:2018

Dear Mr. Husfeld,

Attached please find Contingency Allowance Expenditure Authorization for #61 (CAEA). This CAEA consists of the following:

CAEA 61: Square D to Eaton Switchgear **\$135,629.04**

The CAEA has been generated to document the delay in delivery for Square D and switching to the Eaton Switchgear.

Amount Submitted: \$135,629.04
Amount Approved: \$135,629.04

PBK has reviewed the backup material and costs associated with the above referenced change proposals and recommend acceptance of this CAEA.

If you have any questions or need additional information, please contact our office.

Sincerely,

Lee Osborne, AIA, LEED AP
Principal

Enclosures



SATTERFIELD & PONTIKES CONSTRUCTION, INC.

GENERAL CONTRACTORS / CONSTRUCTION MANAGEMENT / DESIGN BUILD

November 4, 2021

ALEDO ISD
Attn: Tyler Boswell
1008 Bailey Ranch Road
Aledo, TX 76008

Subject: Aledo ES #6
CAEA #61 – Square D to Eaton Switchgear (including Coordination Study- Breaker Change)

Dear Mr. Boswell,

This letter is to provide the CAEA for expediting the switchgear for the project. We had a confirmed delivery date of 6/23/21 (submittal approved in December 2020). However, Square D notified the electrician on 6/21/21 that the switchgear would be 6-10 days out because they did not have all of the components to finish putting it together. S&P and the electrician continued calling and emailing Square D to get a confirmed date. We were never provided a date. We got word that Eaton had the ability to expedite switchgear. The electrician immediately reached out and confirmed they could delivery the switchgear within a week of submittal approval. The submittal for the Eaton switchgear was submitted on 6/29/21 and we got the submittal back from the engineer on 6/30/21. Eaton was released and the switchgear was delivered on 7/7/21. **If we had not been proactive and let the global supply chain run its course, the students and staff would not have been in school.**

This work is complete and the electrician did not charge for the overtime or the additional manpower it took to complete this herculean effort. S&P requests a Contingency Allowance Expenditure Authorization in the amount of:

ADD.....\$135,629.04

Attached you will find the appropriate backup. Please contact me if you should have any questions regarding the above.

Sincerely,
Satterfield & Pontikes Construction, Inc.


Jason Haralson
Sr. Vice President

Cc: S&P File



Change Proposal Request

Contractor:	Satterfield & Pontikes Construction, Inc.	CX#
CAEA	# 61	
CAEA Date:	7/22/2021 11/4/21	
Project:	52720	Aleido Elementary School #6

Description

This CAEA is associated with the cost of changing the switchgear provided from SquareD to gear provided by Eaton and the associated coordination study.

-Tri County (power provider) and the engineers started changes about 2/1/21 until about 3/25/21. The revision #3 final coordination studies was approved about 4/13/21. On 4/15/21 received factory delivery date 6/23/21. The field team had a plan in place to ensure the main electrical would be completed in time for the school opening.

-Equipment lead times have already started to be longer durations than the usual, due to global material shortages

-SquareD notified the electrician on 6/21/21 that the delivery date was going to be pushed out due to Square D not able to procure all the required parts to assemble and ship the switch gear. Even with continuous communications with SquareD the electrician could not confirm an alternate delivery date.

-This resulted in S&P/JBI reaching out to other switch gear manufacturers for an alternate product. By 6/29/21 Eaton was able to provide a comparable switch gear system submittal for approval at a premium rate due the schedule constraints. The submittals were approved on 6/30/21. Eaton worked continually through the weekend to assemble the switch gear. The added was due to providing quick ship costs for required parts, extreme global material increase costs and extensive over time labor. The switch gear was delivered on 7/7/21.

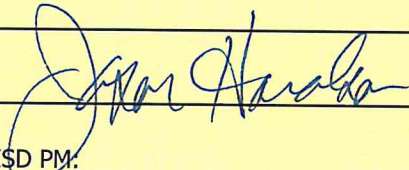
S&P was in constant communications with the ASID and the design team about these issues and the cost differences. We had only two choice at this point which was spend the added costs so we can open the school on 8/1/21 or we wait for SquareD to provide a unknown ship date and delay the opening of the school to an unknown date.

CPR			
Type		Source	
<input type="checkbox"/> A/E Error <input type="checkbox"/> A/E Omission <input type="checkbox"/> Scope Change <input type="checkbox"/> Unforeseen Condition	<input type="checkbox"/> Acceleration <input type="checkbox"/> Delay	<input type="checkbox"/> A/E Request <input type="checkbox"/> GC Request <input type="checkbox"/> PM Request <input type="checkbox"/> Aleido ISD Request (Please Provide Name & Title)	<input type="checkbox"/> Local Government Directive

Justification:

--

Cost Comparison	Amount	Days
Contractor's Initial Proposal	\$ 135,629.04	0
PM Estimated Amount		0
PM Recommended Amount		0

Recommendation & Approval	
PM: 	<input type="checkbox"/> Recommended <input type="checkbox"/> Not Recommended
Aledo ISD PM:	<input type="checkbox"/> Approved <input type="checkbox"/> Denied



Change Proposal - Contractor's Estimate
(for CMAR Contracts)

Dated 7/22/2021
11/4/21 CAEA NO. # 61
PROJECT Aledo Elementary School #6

Subcontractor Cost

Material \$ 134,018.43
Labor \$ 1,141.00
Equipment \$ -
Subtotal \$ 135,159.43
Subcontractor's Overhead & Profit \$ 469.61

Total Cost for Subcontractor \$ 135,629.04

General Contractor Cost

Material \$ -
Labor _____
Equipment _____


Subtotal General Contractor Cost \$ -

Subtotal Cost for General Contractor & Subcontractor \$ 135,629.04

TIME EXTENSION IN DAYS (FOR THIS CHANGE) 0


General Contractor Signature

Dated 11/4/21 ~~7/22/2021~~


A/E Signature

Dated 11/9/2021



5631 STRATUM DRIVE
FORT WORTH, TX 76137
Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
Satterfield & Pontikes Constru
6220 N Beltline Rd, Ste 200
Irving, TX 75063
Ph: (972) 753-0342

Number: 13
Date: 6/30/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description: Purchase of Eaton Switchboard

We are pleased to offer the following specifications and pricing to make the following changes:

Scope of Work:

- a. Provide labor, material, and equipment to provide a credit of the Square D switchboard.
- b. Provide labor, material, and equipment to provide and install Eaton Switchboard.

Qualifications:

- a. JBI reserves the right to revisit this pricing when unforeseen field conditions are identified and/or when errors and omissions occur in the defining of scope.
- b. Pricing accounts for (1) mobilization/pass of work to accomplish defined scope.
- c. Raceway for Low Voltage Systems are Stub-Ups to Accessible Ceilings.
- d. Pricing is based on means and methods in accordance with NEC and Local AHJ.

Exclusions:

- a. Any and all drywall, tape, bed, primer and paint repair / patching.
- b. Any and all forming / placement / cutting / repair / patching of concrete.
- c. Any and all exclusions previously agreed upon via the Executed Contract.
- d. Telephone, Data, AV, Security, BMS, Mechanical, Kitchen Hoods, Ansil Low Voltage Cabling (Provided by Others).
- e. Raceways for BMS or Temperature Control.
- f. Overtime, unless specifically included above.
- g. Expediting Charges, unless specifically included above.
- h. Rock excavation if encountered.

To expedite implementation of this change, please provide a change order for the amount of the change request to acknowledge acceptance.

Please issue a time extension of (0) days to our contract for this change proposal.

Regulated by the Texas Department of Licensing and Regulation, P.O. Box 127157, Austin, Texas 78771, 1-800-803-9202, 512-463-6599; website: www.license.state.tx.us/complaints.

We reserve the right to correct this quote for errors and omissions.
This quote covers direct cost only and we reserve the right to claim for impact and consequential cost.
This price is good for acceptance within 30 days from the date of receipt.



5631 STRATUM DRIVE
 FORT WORTH, TX 76137
 Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
 Satterfield & Pontikes Constru
 6220 N Beltline Rd, Ste 200
 Irving, TX 75063
 Ph: (972) 753-0342

Number: 13
Date: 6/30/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description	Quantity	Unit	Unit Price	Price
Graybar Credit	-1.00	lot	\$111,815.90	\$-111,815.90
Eaton Quote	1.00	lot	\$243,444.44	\$243,444.44
			Subtotal:	\$131,628.54
Overhead & Profit	\$131,628.54		10.00%	\$13,162.85
Bond	\$144,791.39		3.00%	\$4,343.74
Adjustment				\$0.00
			Total:	\$149,135.13

\$131,628.54

[Handwritten initials/signatures]

The schedule is not affected by this change.

If you have any questions, please contact me at .

Submitted by:

Approved by: _____
 Date: _____



Detail Bill of Material

Project Name: Aledo ISD Switchboard
General Order No:

Negotiation No: BORF0629X1K3
Alternate No: 0003

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 1, 480Y/277V 3-Phase 4-Wire, 4000 Aluminum, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 48 In

Designation MSA

Qty List of Materials

- 1 Pow-R-Line C
- 1 Service Entrance Label
- 1 4000 Amp AL Main Structure
- 1 Auxiliary Switch, 4A/4B
- 1 4000 Amp Customer Metering - PXM2250, CTs, With Display
- 1 PXM2250 METER/DISPLAY 60HZ 5A 90-265V AC/DC
- 1 Vertical Isol. Barrier (Service Entrance)
- 2 4000 Amp AL Distribution Structure
- 1 4000A 3P Magnum SB Brkr SBS-C4N [Fixed-Manual], Trip 4000 A, Digitrip 520 LSIG, (11) #4-500 kcmil, Mechanical, Bottom
- 2 90A 3P [HFD 225A Frame], Trip 90 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 60A 3P [HFD 225A Frame], Trip 60 A, Thermal Mag, (1) #14-1/0, Mechanical
- 3 100A 3P [HFD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical
- 2 200A 3P [HFD 225A Frame], Trip 200 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 150A 3P [HFD 225A Frame], Trip 150 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 225A 3P [HFD 225A Frame], Trip 225 A, Thermal Mag, (1) #4-4/0, Mechanical
- 8 400A 3P [HKD 400A Frame], Trip 400 A, 310+, (1) 250-500 kcmil, Mechanical
- 1 300A 3P [HKD 400A Frame], Trip 300 A, 310+, (1) 250-500 kcmil, Mechanical
- 4 800A 3P [HMDL 800A Frame], Trip 800 A, 310+, (3) 3/0-400 kcmil, Mechanical

1 week lead time \$238,000.00

Coordination study: \$5,444.44

7/1/2021

ELLIOTT ELECTRIC SUPPLY

13405 STEMMONS FWY

FARMERS BRANCH, TX 75234

Daniel Jock

972-206-0016

Detail Bill of Material

Project Name: Aledo ISD Switchboard
General Order No:

Negotiation No: B0RF0629X1K3
Alternate No: 0003

NOTES:

- 1.) Quote based on Elliott Electric Supply's best interpretation of submitted specifications and/or drawings. Purchaser should review quote for consistency with specifications and/or drawings.
- 2.) This quote does NOT make provisions for any potential US government imposed tariffs.
- 3.) EES shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.
- 4.) Coordination studies, start up testing, and GF Protection tests are not included in this quote unless shown on this BOM.
- 5.) Safety switches, fuses, enclosed circuit breakers, starters, meter sockets, and other miscellaneous equipment are not included unless shown on this Bill of Material.
- 6.) Dry type transformers do not include primary or secondary terminal lugs.
- 7.) Pricing is per attached Bill of Material only and is valid for 30days. This quote does NOT include tax.
- 8.) Dry type transformers do not include primary or secondary terminal lugs
- 9.) Please allow 10-12 weeks for delivery.
- 10.) ALL QUOTES ARE "SUBJECT TO CREDIT APPROVAL"

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.



4601 CAMBRIDGE RD
 FORT WORTH TX 76155-2233
 Phone: 817-213-1300
 Fax: 817-213-1373

To: JBI ELECTRICAL SYSTEMS INC.
 JBI ELECTRICAL SYSTEMS INC.
 5631 STRATUM DRIVE
 FORT WORTH TX 76137-2709
 Attn: Michael Robinson
 Phone: 682-209-2753
 Fax: 817-625-6696
 Email: chase.baker@graybar.com

Date: 07/01/2021
Proj Name: ALEDO ISD ES 6 DEDUCT
GB Quote #: 0238333819
 Release Nbr:
 Purchase Order Nbr: 200749-56525
 Additional Ref#
 Valid From: 07/01/2021
 Valid To: 07/31/2021
 Contact: CHASE BAKER
 Email: chase.baker@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Item	Item/Type	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100		1 EA	SQUARE D CO.		DEDUCT TO CANCEL SWBD & SERVICES	\$111,815.90-	1	\$111,815.90-

Total in USD (Tax not included): \$111,815.90-
(DEDUCT)

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com 24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.

To: JBI ELECTRICAL SYSTEMS INC.
JBI ELECTRICAL SYSTEMS INC.
5631 STRATUM DRIVE
FORT WORTH TX 76137-2709
Attn: Michael Robinson

Date: 07/01/2021
Proj Name: ALEDO ISD ES 6 DEDUCT
GB Quote #: 0238333819

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

GRAYBAR ELECTRIC COMPANY, INC. TERMS AND CONDITIONS OF SALE

1. **ACCEPTANCE OF ORDER; TERMINATION** - Acceptance of any order is subject to credit approval and acceptance of order by Graybar Electric Company, Inc. ("Graybar") and, when applicable, Graybar's suppliers. If credit of the buyer of the goods or services ("Buyer") becomes unsatisfactory to Graybar, Graybar reserves the right to terminate upon notice to Buyer and without liability to Graybar.
2. **PRICES AND SHIPMENTS** - Unless otherwise quoted, prices for goods shall be those in effect at time of shipment, which shall be made F.O.B. shipping point, prepaid and bill. Unless otherwise indicated in the applicable quotation or statement of work, prices for services shall be those in effect at the time of completion. The contract price for goods and or services shall be increased by the amount of any applicable tariff, excise, fee, assessment, levy, charge or duty of any kind whatsoever, imposed, assessed or collected by any governmental body, whether or not reflected in the costs charged to Graybar, and Graybar may increase its cost for goods and or services appropriately to take into account such increases in Graybar's costs.
3. **RETURN OF GOODS** - Credit may be allowed for goods returned with prior approval. A deduction may be made from credits issued to cover cost of handling. Returns will not be accepted for services or any material which has been modified at the request of or by Buyer. In addition, no custom orders may be returned.
4. **TAXES** - Prices shown do not include sales or other taxes imposed on the sale of goods or services. Taxes now or hereafter imposed upon sales, shipments or services will be added to the purchase price. Buyer agrees to reimburse Graybar for any such tax or provide Graybar with acceptable tax exemption certificate.
5. **DELAY IN DELIVERY** - Graybar is not to be accountable for delays in delivery of goods or services occasioned by acts of God, failure of its suppliers to ship or deliver on time, or other circumstances beyond Graybar's reasonable control, including, but not limited to, sourcing, shipment or delivery issues caused by, related to or resulting from COVID-19 or other similar national or global health situations. Factory shipment or delivery dates are best estimates, and in no case shall Graybar be liable for any consequential or special damages arising from any delay in provision of services, shipment or delivery.
6. **LIMITED WARRANTIES** - Graybar warrants that all goods sold are free of any security interest and will make available to Buyer all transferable warranties (including without limitation warranties with respect to intellectual property infringement) made to Graybar by the manufacturer of the goods. Buyer acknowledges that the performance of any service which alters the manufacturer provided goods as indicated in the statement of work may void the manufacturer's warranty. Graybar shall use the same care and skill a similarly situated provider of like services would exercise following commonly accepted industry practices in the performance of its duties under this agreement. **GRAYBAR MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, AND SPECIFICALLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE, UNLESS OTHERWISE AGREED IN WRITING BY AN AUTHORIZED REPRESENTATIVE OF GRAYBAR.**
7. **LIMITATION OF LIABILITY** - Buyer's remedies under this agreement are subject to any limitations contained in manufacturer's terms and conditions to Graybar, a copy of which will be furnished upon written request. Furthermore, Graybar's liability shall be limited to either repair or replacement of the goods, re-performance of the services, or refund of the purchase price, all at Graybar's option, and IN NO CASE SHALL GRAYBAR BE LIABLE FOR INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES. In addition, claims for shortages, other than loss in transit, must be made in writing not more than five (5) days after receipt of shipment. Unless otherwise agreed in the applicable statement of work, acceptance of services will occur not more than five (5) days after completion of performance.
8. **WAIVER** - The failure of Graybar to insist upon the performance of any of the terms or conditions of this agreement or to exercise any right hereunder shall not be deemed to be a waiver of such terms, conditions, or rights in the future, nor shall it be deemed to be a waiver of any other term, condition, or right under this agreement.
9. **MODIFICATION OF TERMS AND CONDITIONS** - These terms and conditions, and any associated statement of work, supersede all other communications, negotiations, and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon Graybar unless made in writing and signed on its behalf by a duly authorized representative of Graybar. No conditions, usage of trade, course of dealing or performance, understanding or agreement, purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by the party to be bound. Any proposed modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein.
10. **REELS** - When Graybar ships returnable reels, a reel deposit may be included in the invoice. The Buyer should contact the nearest Graybar service location to return reels.
11. **CERTIFICATION** - Graybar hereby certifies that these goods were produced in compliance with all applicable requirements of Sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof. This agreement is subject to Executive Order 11246, as amended, the Rehabilitation Act of 1973, as amended, the Vietnam Veterans' Readjustment Assistance Act of 1974, as amended, E.O. 13496, 29 CFR Part 471, Appendix A to Subpart A, and the corresponding regulations, to the extent required by law. 41 CFR 60-1.4, 60-741.5, and 60-250.5 are incorporated herein by reference, to the extent legally required.
12. **FOREIGN CORRUPT PRACTICES ACT** - Buyer shall comply with applicable laws and regulations relating to anti-corruption, including, without limitation, (i) the United States Foreign Corrupt Practices Act (FCPA) (15 U.S.C. §§78dd-1, et. seq.) irrespective of the place of performance, and (ii) laws and regulations implementing the Organization for Economic Cooperation and Development's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions, the U.N. Convention Against Corruption, and the Inter-American Convention Against Corruption in Buyer's country or any country where performance of this agreement or delivery of goods will occur.
13. **ASSIGNMENT** - Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Graybar, and any such assignment, without such consent, shall be void.
14. **GENERAL PROVISIONS** - All typographical or clerical errors made by Graybar in any quotation, acknowledgment or publication are subject to correction. This agreement shall be governed by the laws of the State of Missouri applicable to contracts to be formed and fully performed within the State of Missouri, without giving effect to the choice or conflicts of law provisions thereof. All suits arising from or concerning this agreement shall be filed in the Circuit Court of St. Louis County, Missouri, or the United States District Court for the Eastern District of Missouri, and no other place unless otherwise determined in Graybar's sole discretion. Buyer hereby irrevocably consents to the jurisdiction of such court or courts and agrees to appear in any such action upon written notice thereof.
15. **PAYMENT TERMS** - Payment terms shall be as stated on Graybar's invoice or as otherwise mutually agreed. As a condition of the sales agreement, a monthly service charge of the lesser of 1-1/2% or the maximum permitted by law may be added to all accounts not paid by net due date. Visa, MasterCard, American Express, and Discover credit cards are accepted at point of purchase only.
16. **EXPORTING** - Buyer acknowledges that this order and the performance thereof are subject to compliance with any and all applicable United States laws, regulations, or orders. Buyer agrees to comply with all such laws, regulations, and orders, including, if applicable, all requirements of the International Traffic in Arms Regulations and/or the Export Administration Act, as may be amended. Buyer further agrees that if the export laws are applicable, it will not disclose or re-export any technical data received under this order to any countries for which the United States government requires an export license or other supporting documentation at the time of export or transfer, unless Buyer has obtained prior written authorization from the United States Office of Export Control or other authority responsible for such matters.
17. **CANCELLATION; CHANGES FOR SERVICES** - Buyer may cancel or make changes to a statement of work up to five (5) business days prior to commencement of the work. All changes and cancellations after such date are subject to Graybar's prior written approval in Graybar's sole and absolute discretion. Buyer shall pay to Graybar amounts necessary to cover cancellation, restocking fees and other charges applicable to the cancelled goods or services including those incurred or committed to by Graybar.

Signed: _____

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.



12001 North Central Expressway
Suite 1100
Dallas, TX 75243
(972) 788-4222
www.rwb.net
TBPE Registered Firm# 2176

SUBMITTAL REVIEW COMMENTS

Project	ALEDO ELEMENTARY SCHOOL NO. 6		
RWB Project #	20007.00	To:	Satterfield & Pontikes Construction, Inc.
Client Project #	2018.00	Attention:	Hong Truong
		Address:	6220 N. Belt Line Rd. Suite 200 Irving, TX 76063
Submittal Number:	26 24 13	Date Received:	6/29/2021
Submittal Name:	Circuit Breaker Distribution Switchboard Re- Submittal	Date Sent:	6/30/2021
Type:	Electrical	Reviewed By:	Darrell G. Williams, P.E.

REMARKS

RESPONSE LEGEND

NET	No Exceptions Taken	REJ	Rejected
MCN	Make Corrections Noted	R&R	Revise & Resubmit
SSI	Submit Specified Item		

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the submittals and/or shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

No.	Description	Comments	Action
	26 24 13	Circuit Breaker Distribution Switchboard Re-Submittal	MCN
1	Meter	Verify meter can provide BACNET communications protocol per CD's and Specifications for Div. 23 EMS.	
2	Coordination Study	Re-Submit Coordination Study utilizing trip characteristics of the Eaton service entrance switchboard's overcurrent protection devices. Previous study submissions are no longer applicable to this project or acceptable by the Engineer of Record.	



12001 North Central Expressway
Suite 1100
Dallas, TX 75243
(972) 788-4222
www.rwb.net
TBPE Registered Firm# 2176

3	Switchboard Dimensions	Verify Eaton Service Entrance Switchboard will fit over the pad and respective openings that have been poured for the previously reviewed switchboard. The former Square D switchboard was larger than the re-submitted switchboard by Eaton.	
---	------------------------	---	--

Project Name: **Aledo ISD Elementary School No. 6** Project Number: **52720**

Submittal No. **18** Date: **6/29/2021**

Product Submitted **Switchboard**

Manufacturer **Eaton Alternate Switchboard**

Spec Section **26 24 13** Spec Title **Circuit Breaker Distribution Switchboards**

Architect

Name **PBK Architects**

Address **100 Throckmorton Street, Suite 1550**

City, State Zip **Fort Worth, TX 76102**

Engineer

Name **RWB Consulting Engineers**

Address **12001 N. Central Expressway CBS Tower, Ste 1100**

City, State Zip **Dallas, TX 75243**

General Contractor

Name **Satterfield & Pontikes Construction, Inc.**

Address **6220 N. Beltline Road, Ste 200**

City, State Zip **Irving, TX 75063**

Subcontractor

Name **JBI Electrical Systems, Inc.**

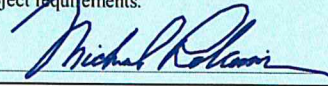
Address **5631 Stratum Drive**

City, State Zip **Fort Worth, TX 76137**

Proj. No. **20-749** Phone: **817.589.1545** Fax:

Submittal Checked By: **Michael Robinson**

Subcontractor Certification of Compliance:
I hereby certify that the product data contained in this submittal package has been reviewed for compliance with the intent of the Contract Documents and coordinated with the project requirements.

By:  Date: **06/29/2021**

General Contractor Review Stamp


Architect/Engineer Review Stamp

RECEIVED

6/29/2021

RWB

20007.00



12001 North Central Expressway
Suite 1100
Dallas, TX 75243
TBPE Registered Firm# 2176

Consulting Engineers

NO EXCEPTIONS TAKEN REJECTED

MAKE CORRECTIONS NOTED REVISE & RESUBMIT

SUBMIT SPECIFIED ITEM

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the submittals and/or shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

DATE 06/30/2021 BY dwilliams

REFER TO TRANSMITTAL
FOR COMMENTS

Notes/Comments/Exceptions:

Detail Bill of Material

Project Name: Aledo ISD Switchboard
General Order No:

Negotiation No: B0RF0629X1K3
Alternate No: 0000

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 1, 480Y/277V 3-Phase 4-Wire, 4000 Aluminum, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 36 In

Designation MSA

Qty	List of Materials
1	Pow-R-Line C
1	Service Entrance Label
1	4000 Amp AL Main Structure
1	Auxiliary Switch, 4A/4B
1	4000 Amp Customer Metering - PXM2250, CTs, With Display
1	PXM2250 METER/DISPLAY 60HZ 5A 90-265V AC/DC
1	Vertical Isol. Barrier (Service Entrance)
2	4000 Amp AL Distribution Structure
1	4000A 3P Magnum SB Brkr SBS-C4N [Fixed-Manual], Trip 4000 A, Digitrip 520 LSIG, (11) #4-500 kcmil, Mechanical, Bottom
8	400A 3P [HKD 400A Frame], Trip 400 A, Thermal Mag, (1) 250-500 kcmil, Mechanical
1	225A 3P [HFD 225A Frame], Trip 225 A, Thermal Mag, (1) #4-4/0, Mechanical
2	200A 3P [HFD 225A Frame], Trip 200 A, Thermal Mag, (1) #4-4/0, Mechanical
1	150A 3P [HFD 225A Frame], Trip 150 A, Thermal Mag, (1) #4-4/0, Mechanical
3	100A 3P [HFD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical
2	90A 3P [HFD 225A Frame], Trip 90 A, Thermal Mag, (1) #14-1/0, Mechanical
1	60A 3P [HFD 225A Frame], Trip 60 A, Thermal Mag, (1) #14-1/0, Mechanical
4	800A 3P [HMDL 800A Frame], Trip 800 A, 310+, (3) 3/0-400 kcmil, Mechanical
1	300A 3P [HKD 400A Frame], Trip 300 A, Thermal Mag, (1) 250-500 kcmil, Mechanical

BACNET COMPATIBLE?

RE-SUBMIT COORDINATION STUDY UTILIZING THE TRIP CHARACTERISTICS OF THIS MANUFACTURER'S OVERCURRENT PROTECTION DEVICES. PREVIOUS SUBMISSIONS ARE NO LONGER APPLICABLE TO THIS PROJECT, OR ACCEPTABLE TO THE EOR.

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

Switchboard General Information

Pow-R-Line C - Specifications

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire

Minimum Interrupt Rating: 65 kA

Bus Specifications

Bus Amps: 4000

Bus Bracing Rating: 65kA

Neutral Amps: 4000

Bus Material: Aluminum

Heat Test

Ground Bus Material: Aluminum Ground Bus Bolted To Frame, (1)
#6-350 kcmil Ground Lug

Incoming Information

Incoming Entry: Bottom

Incoming Location: Left

Incoming Qty & Size: Terminals, Mechanical, (11) #4-500 kcmil,
Bottom

Structure Specifications

Service Entrance

Enclosure Type: Type 1

Special Notes

Qty Description

Catalog Number

Enclosure properties

Struct #

Description/Modifications

1

Bottom incoming main device (Incoming Main Device/MLO Section)

Vertical isolating barrier

2

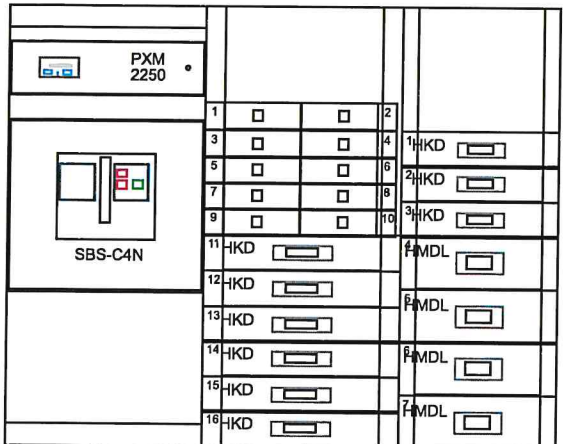
50x chassis mounted feeders (Feeder Structure)

3

50x chassis mounted feeders (Feeder Structure)

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.

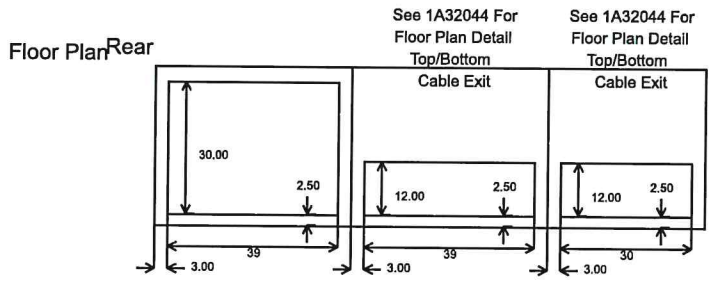
PREPARED BY	DATE	Eaton		SumterSC	
MICHAEL VANBRUNT	6/29/2021	JOB NAME	Aledo ISD Switchboard		
APPROVED BY	DATE	DESIGNATION	MSA		
VERSION	TYPE	DRAWING TYPE			
9.0.29.1	Switchboards	CustAppr			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
B0RF0629X1K3-0000	0	DwgA			1 of 4



Struct	1	*	2	*	3	*
Depth	36		36		36	
Width	45		45		36	



VERIFY THE DIMENSIONS OF THIS SWITCHBOARD ARE COMPATIBLE WITH THE PAD AND PAD OPENINGS PREPARED FOR THE PREVIOUSLY SUBMITTED SQUARE D SWITCHBOARD.



Total of 3 Structures, Total Weight of 3522 Weight-Lbs.
Total of 3 Structures, Total Width of 126 Inches

Structure	1	2	3		
Ship-Inches	45.00	45.00	36.00		
Ship-MM	1143	1143	914		
Wdth-Inches	45.00	45.00	36.00		
Wdth-MM	1143	1143	914		
Depth(Inner)-In.	36.00	36.00	36.00		
Depth(Inner)-MM	914	914	914		
Depth(Outer)-In.	36.00	36.00	36.00		
Depth(Outer)-MM	914	914	914		
Height-Inches	90.00	90.00	90.00		
Height-MM	2286	2286	2286		
Weight-Lbs.(Est.)	1284	1372	866		
Weight-Kg.(Est.)	582	622	392		

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY	DATE	Eaton SumterSC		
	MICHAEL VANBRUNT	6/29/2021			
	APPROVED BY	DATE	JOB NAME	Aledo ISD Switchboard	
			DESIGNATION	MSA	
	VERSION	TYPE	DRAWING TYPE		
	9.0.29.1	Switchboards	CustAppr		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
B0RF0629X1K3-0000	0	DwgA			2 of 4

Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1		Main Breaker - Ind Mtd-4000A 3P Magnum SB Brkr SBS-C4N [Fixed-Manual], Trip 4000A., Digitrip 520 LSIG, 100 % rated Terminals, Mechanical, (11) #4-500 kcmil, Bottom Auxilliary Switch: 4A/4B 4000 Amp Customer Metering - PXM2250, CTs, With Display With Display	
2			
	1	Feeder Breaker - Chassis Mtd-90A 3P [HFD 225A Frame], Trip 90A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	2	Feeder Breaker - Chassis Mtd-60A 3P [HFD 225A Frame], Trip 60A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	3	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	4	Feeder Breaker - Chassis Mtd-90A 3P [HFD 225A Frame], Trip 90A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	5	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	6	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	7	Feeder Breaker - Chassis Mtd-200A 3P [HFD 225A Frame], Trip 200A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	8	Feeder Breaker - Chassis Mtd-150A 3P [HFD 225A Frame], Trip 150A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	9	Feeder Breaker - Chassis Mtd-225A 3P [HFD 225A Frame], Trip 225A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	10	Feeder Breaker - Chassis Mtd-200A 3P [HFD 225A Frame], Trip 200A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	11	Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag Terminals, Mechanical, (1) 250-500 kcmil Neutral Terminal, (1) #4-500 kcmil	
	12	Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag	

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY MICHAEL VANBRUNT	DATE 6/29/2021	Eaton			SumterSC
	APPROVED BY	DATE	JOB NAME Aledo ISD Switchboard			
	VERSION 9.0.29.1	TYPE Switchboards	DESIGNATION MSA	DRAWING TYPE CustAppr		
NEG-ALT Number B0RF0629X1K3-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 3 of 4	

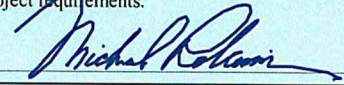
- Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 13 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 14 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 15 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 16 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil

3

- 1 Feeder Breaker - Chassis Mtd-300A 3P [HKD 400A Frame], Trip 300A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 2 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 3 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 4 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 5 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 6 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 7 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY MICHAEL VANBRUNT	DATE 6/29/2021	Eaton			SumterSC		
	APPROVED BY	DATE	JOB NAME Aledo ISD Switchboard	DESIGNATION MSA				
	VERSION 9.0.29.1	TYPE Switchboards	DRAWING TYPE CustAppr					
NEG-ALT Number B0RF0629X1K3-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 4 of 4			

Submittal Stamp Page

Project Name: Aledo ISD Elementary School No. 6		Project Number: 52720	
Submittal No. 18	Date: 6/29/2021		General Contractor Review Stamp
Product Submitted Switchboard			
Manufacturer Eaton Alternate Switchboard			
Spec Section 26 24 13	Spec Title Circuit Breaker Distribution Switchboards		
Architect			
Name PBK Architects			
Address 100 Throckmorton Street, Suite 1550			
City, State Zip Fort Worth, TX 76102			
Engineer			
Name RWB Consulting Engineers			
Address 12001 N. Central Expressway CBS Tower, Ste 1100			
City, State Zip Dallas, TX 75243			
General Contractor			Architect/Engineer Review Stamp
Name Satterfield & Pontikes Construction, Inc.			
Address 6220 N. Beltline Road, Ste 200			
City, State Zip Irving, TX 75063			
Subcontractor			
Name JBI Electrical Systems, Inc.			
Address 5631 Stratum Drive			
City, State Zip Fort Worth, TX 76137			
Proj. No. 20-749	Phone: 817.589.1545	Fax:	
Submittal Checked By: Michael Robinson			
Subcontractor Certification of Compliance: I hereby certify that the product data contained in this submittal package has been reviewed for compliance with the intent of the Contract Documents and coordinated with the project requirements. By:  Date: 06/29/2021			

Notes/Comments/Exceptions:

Detail Bill of Material

Project Name: Aledo ISD Switchboard
General Order No:

Negotiation No: B0RF0629X1K3
Alternate No: 0000

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 1, 480Y/277V 3-Phase 4-Wire, 4000 Aluminum, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 36 In
		Designation	MSA
	Qty	List of Materials	
	1	Pow-R-Line C	
	1	Service Entrance Label	
	1	4000 Amp AL Main Structure	
	1	Auxiliary Switch, 4A/4B	
	1	4000 Amp Customer Metering - PXM2250, CTs, With Display	
	1	PXM2250 METER/DISPLAY 60HZ 5A 90-265V AC/DC	
	1	Vertical Isol. Barrier (Service Entrance)	
	2	4000 Amp AL Distribution Structure	
	1	4000A 3P Magnum SB Brkr SBS-C4N [Fixed-Manual], Trip 4000 A, Digitrip	
		520 L SIG, (11) #4-500 kcmil, Mechanical, Bottom	
	8	400A 3P [HKD 400A Frame], Trip 400 A, Thermal Mag, (1) 250-500 kcmil, Mechanical	
	1	225A 3P [HFD 225A Frame], Trip 225 A, Thermal Mag, (1) #4-4/0, Mechanical	
	2	200A 3P [HFD 225A Frame], Trip 200 A, Thermal Mag, (1) #4-4/0, Mechanical	
	1	150A 3P [HFD 225A Frame], Trip 150 A, Thermal Mag, (1) #4-4/0, Mechanical	
	3	100A 3P [HFD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical	
	2	90A 3P [HFD 225A Frame], Trip 90 A, Thermal Mag, (1) #14-1/0, Mechanical	
	1	60A 3P [HFD 225A Frame], Trip 60 A, Thermal Mag, (1) #14-1/0, Mechanical	
	4	800A 3P [HMDL 800A Frame], Trip 800 A, 310+, (3) 3/0-400 kcmil, Mechanical	
	1	300A 3P [HKD 400A Frame], Trip 300 A, Thermal Mag, (1) 250-500 kcmil, Mechanical	

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

Switchboard General Information

Pow-R-Line C - Specifications

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire

Minimum Interrupt Rating: 65 kA

Bus Specifications

Bus Amps: 4000

Bus Bracing Rating: 65kA

Neutral Amps: 4000

Bus Material: Aluminum

Heat Test

Ground Bus Material: Aluminum Ground Bus Bolted To Frame, (1)

#6-350 kcmil Ground Lug

Incoming Information

Incoming Entry: Bottom

Incoming Location: Left

Incoming Qty & Size: Terminals, Mechanical, (11) #4-500 kcmil, Bottom

Structure Specifications

Service Entrance

Enclosure Type: Type 1

Special Notes

Qty Description

Catalog Number

Enclosure properties

Struct #

Description/Modifications

1

Bottom incoming main device (Incoming Main Device/MLO Section)

Vertical isolating barrier

2

50x chassis mounted feeders (Feeder Structure)

3

50x chassis mounted feeders (Feeder Structure)

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PREPARED BY	DATE
MICHAEL VANBRUNT	6/29/2021

Eaton

SumterSC

APPROVED BY	DATE

JOB NAME	Aledo ISD Switchboard
DESIGNATION	MSA

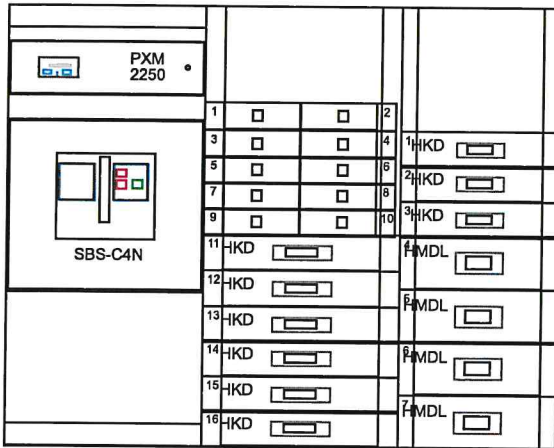
VERSION
9.0.29.1

TYPE	DRAWING TYPE
Switchboards	CustAppr

NEG-ALT Number
B0RF0629X1K3-0000

REVISION	DWG SIZE
0	DwgA

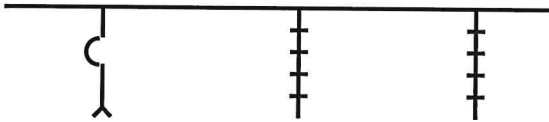
G.O.	ITEM	SHEET
		1 of 4



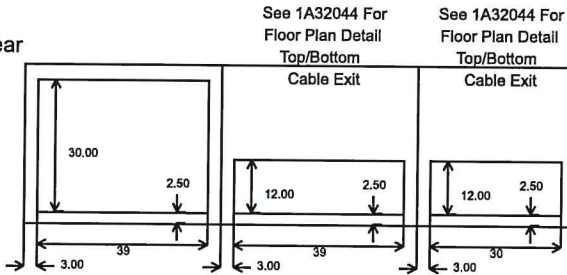
Front View

Struct	1	*	2	*	3	*
Depth	36		36		36	
Width	45		45		36	

Power Flow



Floor Plan Rear



Total of 3 Structures, Total Weight of 3522 Weight-Lbs.
Total of 3 Structures, Total Width of 120 inches

Structure	1	2	3		
Ship-Inches	45.00	45.00	36.00		
Ship-MM	1143	1143	914		
Wdth-Inches	45.00	45.00	36.00		
Wdth-MM	1143	1143	914		
Depth(Inner)-In.	36.00	36.00	36.00		
Depth(Inner)-MM	914	914	914		
Depth(Outer)-In.	36.00	36.00	36.00		
Depth(Outer)-MM	914	914	914		
Height-Inches	90.00	90.00	90.00		
Height-MM	2286	2286	2286		
Weight-Lbs.(Est.)	1284	1372	866		
Weight-Kg.(Est.)	582	622	392		

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PREPARED BY MICHAEL VANBRUNT	DATE 6/29/2021	Eaton		SumterSC	
APPROVED BY	DATE	JOB NAME Aledo ISD Switchboard			
VERSION 9.0.29.1		DESIGNATION MSA			
REVISION 0	DWG SIZE DwgA	TYPE Switchboards	DRAWING TYPE CustAppr		
NEG-ALT Number B0RF0629X1K3-0000		G.O.	ITEM	SHEET 2 of 4	

Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1		Main Breaker - Ind Mtd-4000A 3P Magnum SB Brkr SBS-C4N [Fixed-Manual], Trip 4000A., Digitrip 520 L SIG, 100 % rated Terminals, Mechanical, (1) #4-500 kcmil, Bottom Auxiliary Switch: 4A/4B 4000 Amp Customer Metering - PXM2250, CTs, With Display With Display	
2			
	1	Feeder Breaker - Chassis Mtd-90A 3P [HFD 225A Frame], Trip 90A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	2	Feeder Breaker - Chassis Mtd-60A 3P [HFD 225A Frame], Trip 60A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	3	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	4	Feeder Breaker - Chassis Mtd-90A 3P [HFD 225A Frame], Trip 90A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	5	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	6	Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
	7	Feeder Breaker - Chassis Mtd-200A 3P [HFD 225A Frame], Trip 200A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	8	Feeder Breaker - Chassis Mtd-150A 3P [HFD 225A Frame], Trip 150A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	9	Feeder Breaker - Chassis Mtd-225A 3P [HFD 225A Frame], Trip 225A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	10	Feeder Breaker - Chassis Mtd-200A 3P [HFD 225A Frame], Trip 200A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
	11	Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag Terminals, Mechanical, (1) 250-500 kcmil Neutral Terminal, (1) #4-500 kcmil	
	12	Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag	

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY MICHAEL VANBRUNT	DATE 6/29/2021	Eaton			SumterSC
	APPROVED BY	DATE	JOB NAME Aledo ISD Switchboard			
	VERSION 9.0.29.1	TYPE Switchboards	DRAWING TYPE CustAppr			
	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 3 of 4	

- Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 13 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 14 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 15 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 16 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil

3

- 1 Feeder Breaker - Chassis Mtd-300A 3P [HKD 400A Frame], Trip 300A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 2 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 3 Feeder Breaker - Chassis Mtd-400A 3P [HKD 400A Frame], Trip 400A., Thermal Mag
Terminals, Mechanical, (1) 250-500 kcmil
Neutral Terminal, (1) #4-500 kcmil
- 4 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 5 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 6 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil
- 7 Feeder Breaker - Chassis Mtd-800A 3P [HMDL 800A Frame], Trip 800A., 310+, LSI
Terminals, Mechanical, (3) 3/0-400 kcmil
Neutral Terminal, (3) #4-500 kcmil

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PREPARED BY MICHAEL VANBRUNT	DATE 6/29/2021	Eaton		SumterSC	
APPROVED BY	DATE	JOB NAME Aledo ISD Switchboard			
		DESIGNATION MSA			
VERSION 9.0.29.1	TYPE Switchboards	DRAWING TYPE CustAppr			
NEG-ALT Number B0RF0629X1K3-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 4 of 4

Hong Truong

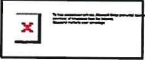
From: Chase Baker <chase.baker@graybar.com>
Sent: Monday, June 21, 2021 9:51 AM
To: Michael Robinson
Cc: Randy Magers; Benny Jenkins
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,

The date is going to slip, see below email I received on Thursday of last week that I must have missed passing on to you sir..

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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Graybar.com Help Center [Click here](#)

From: Russell Wade [mailto:Russell.Wade@se.com]
Sent: Thursday, June 17, 2021 9:55 AM
To: Chase Baker <chase.baker@graybar.com>
Subject: 43464018-001/ ALEDO ISD ES Potential Delay

Good morning,

I am alerting you of a potential delay for the SWBD on line 001. The potential delay is 6 to 10 days from current ship date of 6/23. This is due to a part shortage. There is not an option to ship short due to wiring and testing. We do not have an ETA for the required parts.

Russell Wade

Project Manager D (214) 390-6185
Partner Business E Russell.Wade@se.com
Square D by Schneider Electric Customer Care 1-888-778-2733

*Please consider the environment before printing this e-mail

1650 W Crosby Rd.
Carrollton, TX 75006
United States

From: Michael Robinson [mailto:mrobinson@jbielectric.com]
Sent: Monday, June 21, 2021 9:07 AM
To: Chase Baker <chase.baker@graybar.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; Benny Jenkins <bjenkins@jbielectric.com>
Subject: RE: Aledo - Revised Gear Shipping Tracker

Thanks! I just want to be proactive and try to keep the trucking company from delaying the delivery. We need it ASAP. Maybe ask for a tracking number from them as soon as it ships.

Thanks!

Michael Robinson
Senior Project Manager

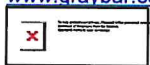
JBI Electric
5631 Stratum Drive
Fort Worth, Texas 76137
(DD) 682.270.5731 | (C) 817.975.5864

From: Chase Baker <chase.baker@graybar.com>
Sent: Monday, June 21, 2021 9:05 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; Benny Jenkins <bjenkins@jbielectric.com>
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
I will reach out and see if they are able to confirm shipment on 6/23. The scheduling of the delivery would be with the freight carrier not Schneider so we wouldn't be able to schedule that until the freight carrier picks the material up. I will advise.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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Graybar.com Help Center [Click here](#)

From: Michael Robinson [<mailto:mrobinson@jbielectric.com>]
Sent: Monday, June 21, 2021 9:02 AM
To: Chase Baker <chase.baker@graybar.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; Benny Jenkins <bjenkins@jbielectric.com>
Subject: RE: Aledo - Revised Gear Shipping Tracker

Chase,

Can you touch base with the factory and make sure the switchboard is going to be shipped on Wednesday 6/23 as shown on the schedule? Can you ask if we can schedule the delivery today or tomorrow to not hold up delivery on Thursday or Friday?

Thanks!

Michael Robinson
Senior Project Manager

JBI Electric
5631 Stratum Drive
Fort Worth, Texas 76137
(DD) 682.270.5731 | (C) 817.975.5864

From: Chase Baker <chase.baker@graybar.com>
Sent: Monday, June 21, 2021 8:25 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; Benny Jenkins <bjenkins@jbielectric.com>
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



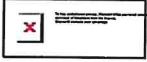
Have you tried the NEW Graybar.com website (www.graybar.com)?
You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! ([Click Here](#))
Graybar.com Help Center [Click here](#)

From: Chase Baker
Sent: Monday, June 14, 2021 9:20 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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Have you tried the NEW Graybar.com website (www.graybar.com)?

You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! ([Click Here](#))

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From: Chase Baker
Sent: Tuesday, June 8, 2021 10:51 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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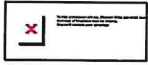
From: Chase Baker
Sent: Tuesday, June 1, 2021 9:47 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

NOTE: I WILL BE OUT OF THE OFFICE FRIDAY JUNE 4TH AND MONDAY JUNE 7TH RETURNING TO THE OFFICE TUESDAY JUNE 8TH.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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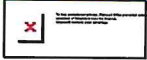
Have you tried the NEW Graybar.com website (www.graybar.com)?
You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! ([Click Here](#))
Graybar.com Help Center [Click here](#)

From: Chase Baker
Sent: Tuesday, May 25, 2021 9:32 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



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Graybar.com Help Center [Click here](#)

From: Chase Baker
Sent: Wednesday, May 19, 2021 7:37 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



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You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! [\(Click Here\)](#)

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From: Chase Baker

Sent: Monday, May 17, 2021 8:43 AM

To: Michael Robinson <mrobinson@jbielectric.com>

Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com

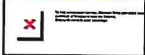
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,

Updated shipping schedule attached – still no luck on getting anything expedited and I do notice dates have pushed out on some of the lines due to “temporary product delays” and “material shortages”.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
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From: Chase Baker

Sent: Monday, May 3, 2021 7:31 AM

To: Michael Robinson <mrobinson@jbielectric.com>

Cc: Randy Magers <Randy.Magers@graybar.com>; bjenkins@jbielectric.com

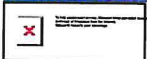
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,

Updated shipping schedule attached.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



Have you tried the NEW Graybar.com website (www.graybar.com)?

You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! [\(Click Here\)](#)

Graybar.com Help Center [Click here](#)

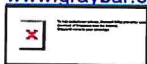
From: Chase Baker
Sent: Tuesday, April 27, 2021 10:10 AM
To: Michael Robinson <mrobinson@jbielectric.com>
Cc: Randy Magers <Randy.Magers@graybar.com>
Subject: RE: Aledo - Revised Gear Shipping Tracker

Michael,
Updated shipping schedule attached. I have a big shipment of some of the smaller items going out to you tomorrow morning via Graybar truck.

Enclosed breaker, disconnects, fuses and transformer lug kits.

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



Have you tried the NEW Graybar.com website (www.graybar.com)?
You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! ([Click Here](#))
Graybar.com Help Center [Click here](#)

From: Michael Robinson [<mailto:mrobinson@jbielectric.com>]
Sent: Tuesday, April 27, 2021 10:00 AM
To: Chase Baker <chase.baker@graybar.com>
Cc: Randy Magers <Randy.Magers@graybar.com>
Subject: Aledo - Revised Gear Shipping Tracker

Chase,

Do you have a revised gear shipping tracker for Aledo that you can send to me?

Thanks!

Michael Robinson
Senior Project Manager

JBI Electric
5631 Stratum Drive
Fort Worth, Texas 76137
(DD) 682.270.5731 | (C) 817.975.5864

JBI

ELECTRICAL SYSTEMS INC.

www.jbielectric.com





5631 STRATUM DRIVE
FORT WORTH, TX 76137
Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
Satterfield & Pontikes Constru
6220 N Beltline Rd, Ste 200
Irving, TX 75063
Ph: (972) 753-0342

Number: 20
Date: 8/27/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description: Coordinate Study - Breaker Change

We are pleased to offer the following specifications and pricing to make the following changes:

Scope of Work:

- a. Provide labor, material, and equipment to replce the existing breaker to correct the series rating for the coordination study.

Note: See attachments for LC600amp 65KAIC breaker quote and Square Ds series rating chart. Replacing the breaker we have in the existing breaker enclosure with an LC frame beaker will correct the issue with the series rating problem for panel LK.

Qualifications:

- a. JBI reserves the right to revisit this pricing when unforeseen field conditions are identified and/or when errors and emissions occur in the defining of scope.
- b. Pricing accounts for (1) mobilization/pass of work to accomplish defined scope.
- c. Raceway for Low Voltage Systems are Stub-Ups to Accessible Ceilings.
- d. Pricing is based on means and methods in accordance with NEC and Local AHJ.

Exclusions:

- a. Any and all drywall, tape, bed, primer and paint repair / patching.
- b. Any and all forming / placement / cutting / repair / patching of concrete.
- c. Any and all exclusions previously agreed upon via the Executed Contract.
- d. Telephone, Data, AV, Security, BMS, Mechanical, Kitchen Hoods, Ansul Low Voltage Cabling (Provided by Others).
- e. Raceways for BMS or Temperature Control.
- f. Overtime, unless specifically included above.
- g. Expediting Charges, unless specifically included above.
- h. Rock excavation if encountered.

To expedite implementation of this change, please provide a change order for the amount of the change request to acknowledge acceptance.

Regulated by the Texas Department of Licensing and Regulation, P.O. Box 127157, Austin, Texas 78771, 1-800-803-9202, 512-463-6599; website: www.license.state.tx.us/complaints.

We reserve the right to correct this quote for errors and omissions.
This quote covers direct cost only and we reserve the right to claim for impact and consequential cost.
This price is good for acceptance within 30 days from the date of receipt.

[Empty rectangular box]



5631 STRATUM DRIVE
 FORT WORTH, TX 76137
 Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
 Satterfield & Pontikes Constru
 6220 N Beltline Rd, Ste 200
 Irving, TX 75063
 Ph: (972) 753-0342

Number: 20
Date: 8/27/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description	Quantity	Unit	Unit Price	Price
Foreman	2.00	hrs	\$75.00	\$150.00
Journeyman	7.00	hrs	\$65.00	\$455.00
Apprentice	7.00	hrs	\$55.00	\$385.00
Labor/Cleanup	1.00	hrs	\$28.00	\$28.00
Material Handling	1.00	hrs	\$28.00	\$28.00
PM & APM	1.00	hrs	\$95.00	\$95.00
Gear Quote	1.00	lot	\$2,185.00	\$2,185.00
JBI Tools	1.00	lot	\$13.20	\$13.20
Consumables	1.00	lot	\$10.56	\$10.56
Sales Tax	0.08	lot	\$2,195.56	\$181.13
			Subtotal:	\$3,530.89
		Overhead & Profit	\$3,530.89	10.00%
				\$353.09
		Bond	\$3,883.98	3.00%
				\$116.52
		Adjustment		\$0.00
			Total:	\$4,000.50

The schedule is not affected by this change.

If you have any questions, please contact me at .

Submitted by:

Approved by: _____

Date: _____

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
DISC / FUSES / BREAKERS					
ENCLOSED CIRCUIT BREAKERS					
incl. CB 250v 3P 600A	1.00 ea	13.200 mh / ea	-	-	13.20



ELLIOTT ELECTRIC SUPPLY

www.ElliottElectric.com

Quote #12-56036

2900 EAST PIONEER PARKWAY
ARLINGTON, TX 76010
817-695-1616

Customer Account: (1653164)
3I ELECTRICAL SYSTEMS,
331 STRATUM DR
FORT WORTH, TX 76137-2709

Ship To Information:
JBI ELECTRICAL SYSTEMS
5631 STRATUM DR
FORT WORTH, TX 76137

Customer Phone: 817-632-2311
Customer Job Phone: 817-589-1545

Customer Job/PO: N/A

• ATTENTION: Do Not Deliver From This Document!

Salesman: Stevens, Joshua K

Invoice Date: 8/3/2021

Date and Time Printed: 8/3/2021 2:43:46 PM

Item Number	Quote Quantity	Catalog Number	Vendor Code	Description	Price	Unit Code	Extended Price
1	1	LC36600	BAY	SQD 3P 600A 480V 65K	\$ 2,185.00	E	\$ 2,185.00
Total: \$							2,185.00

Figure 6: UL Recognized Circuit Breaker/Circuit Breaker Series-Connected Rating



Figure 6 at left and Table 11 below show the arrangement and ratings of 240 Vac (maximum) systems with line side circuit breakers in series with load side circuit breakers for NQOD panelboards.

NOTE: Suffixes HID, SWD, and SWN may also be applied to the applicable branch circuit breakers shown above, with one exception: suffix SWN may not be applied in combination with LC main circuit breakers.

Table 11: NQ 240 Vac Series Short-Circuit Current Ratings—Panelboards

Maximum System Voltage AC ^[1]	Maximum Short Circuit Current Rating (RMS Symmetrical)	Integral or Remote Main Circuit Breakers and Remote Main Fuses	Branch Circuit Breaker Designations and Allowable Ampere Ranges ^{[2][3][4]}			
			Type	1-pole	2-pole	3-pole
120/240 1Ø	22k	MG	QO (B)	15–30 A	—	—
	42k	HD, JD	QO (B) PL	15–30 A	15–60 A	15–30 A
	65k	HG, JG	QO (B) PL	15–30 A	15–60 A	15–30 A
	100k	HJ, JJ	QO (B) PL	15–30 A	15–60 A	15–30 A
	125k	HL, JL	QO (B) PL	15–30 A	15–60 A	15–30 A
120/240 1Ø 208Y/120	100k	DJ 400 A	QO (B)	15–70 A	15–125 A	—
			QO (B) GFI	15–30 A	40–60 A	—
			QO (B) VH	—	150 A	15–150 A
			QO (B) AFI	15–20 A	—	—
			QO (B)	15–70 A	15–125 A	15–30 A
	QJ	QO (B) AS	15–30 A	15–30 A	15–30 A	
		QO (B) GFI	15–30 A	15–60 A	—	
		QO (B) PL	15–30 A	15–60 A	15–30 A	
		QO (B) VH	—	150 A	35–150 A	
		QO (B) AFI	15–20 A	—	—	
208Y/120	18k	LA/LH (L) 34200MC LA/LH (L) 34225MC LA/LH (L) 34250MC LA/LH (L) 34400MC	QO (B)	15–30 A	15–30 A	15–30 A
240	22k	QO (B) VH	QO (B)	15–70 A	15–125 A	15–100 A
			QO (B) AS	15–30 A	15–30 A	15–30 A
			QO (B) GFI	15–30 A	15–60 A	—
			QO (B) PL	15–30 A	15–30 A	—
			QO (B) AFI	15–20 A	—	—
	Q2-H ^[5]	QO (B)	15–70 A	15–100 A	15–30 A	
		QO (B) GFI	15–30 A	15–30 A	—	
		QO (B) AFI	15–20 A	—	—	
		QD	QO (B)	15–70 A	15–125 A	15–30 A
			QO (B) AS	15–30 A	15–30 A	15–30 A
QO (B) GFI	15–30 A		15–60 A	—		
QO (B) PL	15–30 A		15–60 A	15–30 A		
QO (B) VH	—		150 A	35–150 A		
25k	QO (B) AFI	15–20 A	—	—		
	ED, FD ^[5]	QO (B)	15–70 A	15–125 A	15–100 A	
		QO (B) GFI	15–30 A	15–60 A	—	
		QO (B) AFI	15–20 A	—	—	
	KD ^[5]	QO (B)	15–70 A	15–125 A	15–100 A	
QO (B) AS		15–30 A	15–30 A	15–30 A		
QO (B) GFI		15–30 A	15–60 A	—		
HD, JD	QO (B) AFI	15–20 A	—	—		
	QO (B) H	—	15–100 A	—		
	QO (B) VH	—	15–125 A	35–150 A		
	QO (B) GFI	15–30 A	15–60 A	—		
	QO (B) AFI	15–20 A	—	—		
QOB2150VH	QO (B) H	—	15–100 A	—		
	QO (B) VH	—	150 A	—		

Continued on next page

¹ For shown circuit breakers rated less than this maximum voltage, the indicated short circuit current rating also applies, but at the voltage rating of the circuit breaker.
² Suffixes HID, SWD, and SWN may also be applied to the applicable branch circuit breakers shown above, with one exception: suffix SWN may not be applied in combination with LC main circuit breakers.
³ Where QO[®] (B) circuit breakers are shown above, QO (B) H, QO (B) VH, and QH (B) circuit breakers may also be used.
⁴ Where QO(B) GFI circuit breakers are shown above, QO (B) EPD circuit breakers may also be used.
⁵ Obsolete. Contact your local Schneider Electric representative for the replacement circuit breaker. One-pole FJ circuit breakers are still available.

Table 11: NQ 240 Vac Series Short-Circuit Current Ratings—Panelboards (continued)

Maximum System Voltage AC ^[1]	Maximum Short Circuit Current Rating (RMS Symmetrical)	Integral or Remote Main Circuit Breakers and Remote Main Fuses	Branch Circuit Breaker Designations and Allowable Ampere Ranges ^{[2][3][4]}					
			Type	1-pole	2-pole	3-pole		
240	42k	LA, MA	Q2L-H QDL	— —	110–225 A 70–225 A	110–225 A 70–225 A		
		LC 400 A	QO (B) QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15–70 A 15–30 A — 15–30 A 15–20 A	— 15–125 A 150 A 15–60 A —	— 15–100 A — — —		
			LC 600 A	QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15–30 A — — 15–20 A	15–125 A 150 A 15–60 A —	15–100 A — — —	
				MG	QO (B) VH	15–30 A	15–30 A	15–30 A
				HD, JD	QO (B) PL	15–30 A	15–60 A	15–30 A
			65k	LC 400 A	QO (B) QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15–30 A 15–30 A — 15–30 A 15–20 A	— 15–125 A 150 A — —	— 15–100 A — — —
		LC 600 A			QO (B) VH QOBVH QO (B) GFI QO (B) AFI	15–30 A — — 15–20 A	15–125 A 150 A — —	35–100 A (3P 208 V Max.) 15–30 A (3P 240 V Max.) — —
					DJ 400 A	QO (B) QO (B) VH QO (B) H	15–70 A — —	15–125 A 150 A 15–100 A
		EG, FG, KG			QO (B) QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–20 A	15–125 A 15–60 A —	15–100 A — —
				QG	QO (B) QO (B) AS QO (B) VH	15–70 A 15–30 A —	15–125 A 15–30 A 150 A	15–30 A 15–30 A 35–150 A
	QG, HG, JG	QO (B) GFI QO (B) PL QO (B) AFI			15–30 A 15–30 A 15–20 A	15–60 A 15–60 A —	— 15–30 A —	
		HG, JG		QO (B) QO (B) VH QO (B) H QOB2150VH	15–70 A — — —	15–125 A — 15–100 A 150 A	15–100 A 35–150 A — —	
	FC22__ KC22__ FC32__ KC32__			QO (B) QO (B) AS QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–30 A 15–20 A	15–100 A 15–30 A 15–30 A —	15–100 A 15–30 A — —	
		400 A Max. Class J or T6 Fuses		QO (B) VH QOB-VH QO (B) AFI	15–30 A — 15–20 A	15–125 A 150 A —	15–100 A — —	

Continued on next page

- ¹ For shown circuit breakers rated less than this maximum voltage, the indicated short circuit current rating also applies, but at the voltage rating of the circuit breaker.
- ² Suffixes HID, SWD and SWN may also be applied to the applicable branch circuit breakers shown above, with one exception: suffix SWN may not be applied in combination with LC main circuit breakers.
- ³ Where QO (B) circuit breakers are shown above, QO (B) H, QO (B) VH, and QH (B) circuit breakers may also be used.
- ⁴ Where QO(B) GFI circuit breakers are shown above, QO (B) EPD circuit breakers may also be used.



November 5, 2021

VIA: Email Delivery

Mr. Earl Husfeld
Chief Financial Officer
Aledo Independent School District
1008 Bailey Ranch Road
Aledo, TX 76008

RE: **Contingency Allowance Expenditure Authorization #74
Clarification #10 Wastewater Building and Power for the Aeration System
(Electrical Scope Only)**
Aledo #6 – Annetta Elementary School
PBK Project No.:2018

Dear Mr. Husfeld,

Attached please find Contingency Allowance Expenditure Authorization for #74 (CAEA). This CAEA consists of the following:

CAEA 74: Clarification #10 Wastewater building and power aeration system \$183,527.68

The CAEA has been generated to document clarification associated with the changes made to the WWTP building which includes power to the aeration system. This CAEA is strictly the electrical scope associated with those changes.

Amount Submitted: \$183,527.68
Amount Approved: \$183,527.68

PBK has reviewed the backup material and costs associated with the above referenced change proposals and recommend acceptance of this CAEA.

If you have any questions or need additional information, please contact our office.

Sincerely,

Lee Osborne, AIA, LEED AP
Principal

Enclosures



SATTERFIELD & PONTIKES CONSTRUCTION, INC.

GENERAL CONTRACTORS / CONSTRUCTION MANAGEMENT / DESIGN BUILD

November 4, 2021

ALEDO ISD
Attn: Tyler Boswell
1008 Bailey Ranch Road
Aledo, TX 76008

Subject: Aledo ES #6
**CAEA #74 – Clarification # 10 WWTP Building and Power for the Aeration System
(Electrical Scope Only)**

Dear Mr. Boswell,

This letter is to provide the CAEA for Clarification #10 and comments from the Town of Annetta which made changes to the WWTP building and includes power to the aeration system. This CAEA is strictly the electrical scope associated with the changes described above. All other scope changes associated with Clarification #10 will be submitted under separate CAEA's. We have proceeded with this work and are awaiting delivery of a few items for completion of this work. The generator has been removed from this pricing as discussed. It does include the Cummins ATS and Docking Station should a generator be needed in the future.

S&P requests a Contingency Allowance Expenditure Authorization in the amount of:

ADD.....\$183,527.68

Attached you will find the appropriate backup. Please contact me if you should have any questions regarding the above.

Sincerely,
Satterfield & Pontikes Construction, Inc.

Jason Haralson
Sr. Vice President

Cc: S&P File



Change Proposal Request

Contractor:	Satterfield & Pontikes Construction, Inc.	CX#
CAEA	# 74	
CAEA Date:	10/29/2021	
Project:	52720	Aledo Elementary School #6

Description
The cost associated with this change order is for the electrical revisions as it relates to Clarification 10 and the comments from the Town of Annetta. The scope of work involves additional materials and equipment to provide an ATS, lighting for the WWTP, control wiring for the WWTP panels, and wiring for the Ledford Services equipment.

CPR	
Type	Source
<input type="checkbox"/> A/E Error <input type="checkbox"/> Acceleration <input type="checkbox"/> A/E Omission <input type="checkbox"/> Delay <input checked="" type="checkbox"/> Scope Change <input type="checkbox"/> Unforeseen Condition	<input type="checkbox"/> A/E Request <input type="checkbox"/> Local Government Directive <input checked="" type="checkbox"/> GC Request <input type="checkbox"/> PM Request <input type="checkbox"/> Aledo ISD Request (Please Provide Name & Title)

Justification:
Provide changes for the Waste Water Treatment Plant as associated with Clarification 10.

Cost Comparison	Amount	Days
Contractor's Initial Proposal	\$ 183,527.68	0
PM Estimated Amount		0
PM Recommended Amount		0

Recommendation & Approval	
PM:	<input type="checkbox"/> Recommended <input type="checkbox"/> Not Recommended
Aledo ISD PM:	<input type="checkbox"/> Approved <input type="checkbox"/> Denied



Change Proposal - Contractor's Estimate
(for CMAR Contracts)

Dated 10/29/2021

CAEA NO.

74

PROJECT

Aledo Elementary School #6

Subcontractor Cost

Material \$ 102,005.92

Labor \$ 56,485.00

Equipment \$ 3,492.91

Subtotal \$ 161,983.83

Subcontractor's Overhead & Profit \$ 21,543.85

Total Cost for Subcontractor

\$ 183,527.68

General Contractor Cost

Material \$ -

Labor

Equipment

Subtotal General Contractor Cost

\$ -

Subtotal Cost for General Contractor & Subcontractor

\$ 183,527.68

TIME EXTENSION IN DAYS (FOR THIS CHANGE)

0

General Contractor Signature

Dated

10/29/2021

A/E Signature

Dated



Change Proposal - Cost Detail

Project: Aledo Elementary School #6

Contractor: Satterfield and Pontikes Constructi

CPR # # 74		Material				Labor Burden			0%	Equipment / Subcontractor				Subtotal	Markup	Total
Item	Description	Unit	Qty	Material Unit Cost	Total Material Cost	Hours	Unburdened Labor	Labor Burden Amount	Total Labor Cost	Unit	Qty	Equipment Unit Cost	Total Equipment Cost	Cost Material, Labor & Equipment	Overhead, Profit & Bond	Cost Material, Labor & Equipment
	JBI Electric				\$ 97,891.27				\$ 52,590.00				\$ 3,492.91	\$ 153,974.18	\$ 20,478.57	\$ 174,452.75
	JBI Electric WWTP Lighting				\$ 4,114.65				\$ 3,895.00					\$ 8,009.65	\$ 1,065.29	\$ 9,074.94
														\$ -	\$ -	\$ -
Total Change Proposal Cost					\$ 102,005.92				\$ 56,485.00				\$ 3,492.91	\$ 161,983.83	\$ 21,543.85	\$ 183,527.68



5631 STRATUM DRIVE
FORT WORTH, TX 76137
Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
Satterfield & Pontikes Constru
6220 N Beltline Rd, Ste 200
Irving, TX 75063
Ph: (972) 753-0342

Number: 12
Date: 10/8/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description: Clarification #10 - WWTP Changes Rev.6

We are pleased to offer the following specifications and pricing to make the following changes:

Scope of Work:

- a. Provide labor, material, and equipment to revise the electrical for the waste water treatment plant as outlined in the Clarification #10 drawings and specifications dated 06/11/2021 and the attached drawings with notes.
- b. Provide labor, material, and equipment to install 50' - 150 amp 120/208v 3 phase feeder for the remote Aeration System Control Panel at the tanks in the field. This include a one point connection to the control cabinet.
- c. The 100kW and 335kW generators have been removed from the proposal. However, the Cummins ATS and Docking Station are included per the drawings. See revised quote from Cummins.
- d. Provide labor, material, equipment to install 120 volt power and control conduit and wire for the SCADA panels in the water plant and WWTP. See attached Principal Technology SCADA drawings and Cable schedule for field wiring.
- e. Provide labor, material, equipment to install control conduit and wire as discussed for the Clarifier, Blower Motors, FE Pumps, Effluent Flow Meter, Automatic Chlorinator, and NPW Pumps per the attached schedule.

Qualifications:

- a. JBI reserves the right to revisit this pricing when unforeseen field conditions are identified and/or when errors and emissions occur in the defining of scope.
- b. Pricing accounts for (1) mobilization/pass of work to accomplish defined scope.
- c. Pricing is based on means and methods in accordance with NEC and Local AHJ.

Exclusions:

- a. Any and all drywall, tape, bed, primer and paint repair / patching.
- b. Any and all forming / placement / cutting / repair / pads / patching of concrete.
- c. Any and all exclusions previously agreed upon via the Executed Contract.
- d. Telephone, Data, AV, Security, BMS, Mechanical, Kitchen Hoods, Ansul Low Voltage Cabling (Provided by Others).
- e. Raceways for BMS or Temperature Control.
- f. Overtime, unless specifically included above.
- g. Expediting Charges, unless specifically included above.
- h. Rock excavation if encountered.
- i. Control Cabinets to be provided by others.
- j. Pumps and starters to be provided by others.
- k. Unit heaters, Heat trace, Strip heater, Exhaust fans, and Blower equipment to be supplied and installed by others.

To expedite implementation of this change, please provide a change order for the amount of the change request to acknowledge acceptance.

Please issue a time extension of (8 months) days to our contract for this change proposal.

Regulated by the Texas Department of Licensing and Regulation, P.O. Box 127157, Austin, Texas 78771, 1-800-803-9202, 512-463-6599; website: www.license.state.tx.us/complaints.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct cost only and we reserve the right to claim for impact and consequential cost.

This price is good for acceptance within 30 days from the date of receipt.



5631 STRATUM DRIVE
 FORT WORTH, TX 76137
 Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
 Satterfield & Pontikes Constr
 6220 N Beltline Rd, Ste 200
 Irving, TX 75063
 Ph: (972) 753-0342

Number: 12
Date: 10/8/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description	Quantity	Unit	Unit Price	Price
Superintendent	91.00	hrs	\$75.00	\$6,825.00
Journeyman	422.00	hrs	\$65.00	\$27,430.00
Apprentice	181.00	hrs	\$55.00	\$9,955.00
Labor/Cleanup	19.00	hrs	\$28.00	\$532.00
Material Handling	31.00	hrs	\$28.00	\$868.00
PM & APM	49.00	hrs	\$95.00	\$4,655.00
Drawings	31.00	hrs	\$75.00	\$2,325.00
Materials	1.00	lot	\$15,601.68	\$15,601.68
JBI Tools	1.00	lot	\$602.05	\$602.05
Consumables	1.00	lot	\$481.64	\$481.64
QUOTED GENERATOR	1.00	lot	\$59,016.00	\$59,016.00
QUOTED SWITCHGEAR	1.00	lot	\$16,435.00	\$16,435.00
QUOTED FIXTURES	1.00	lot	\$5,754.90	\$5,754.90
Backhoe	1.00	lot	\$1,845.00	\$1,845.00
Tamper	1.00	lot	\$1,345.00	\$1,345.00
Sales Tax	0.08	lot	\$3,671.64	\$302.91
			Subtotal:	\$153,974.18
		Overhead & Profit	\$153,974.18	10.00%
		Bond	\$169,371.60	3.00%
		Adjustment		\$0.00
			Total:	\$174,452.75

The schedule is not affected by this change.
 If you have any questions, please contact me at .

Submitted by:

Approved by: _____
 Date: _____

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
RACEWAYS					
GRC CONDUIT					
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 3/4" Coupling	1.00 ea	0.109 mh / ea	120.94 /c	1.21	0.11
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 1 1/2" Coupling	1.00 ea	0.164 mh / ea	331.59 /c	3.32	0.16
GRC 2 1/2" Coupling	1.00 ea	0.200 mh / ea	1,101.00 /c	11.01	0.20
PLASTIBOND GRC CONDUIT					
GRC Plastibond Conduit 3/4"	60.00 lf	0.091 mh / lf	592.90 /c	355.74	5.45
IMC CONDUIT					
IMC Conduit 3/4"	50.00 lf	0.073 mh / lf	297.66 /c	148.83	3.64
IMC Conduit 3/4"	50.00 lf	0.073 mh / lf	297.66 /c	148.83	3.64
IMC Conduit 3/4"	15.00 lf	0.073 mh / lf	297.66 /c	44.65	1.09
IMC Conduit 3/4"	50.00 lf	0.073 mh / lf	297.66 /c	148.83	3.64
IMC Conduit 3/4"	35.00 lf	0.073 mh / lf	297.66 /c	104.18	2.55
IMC Conduit 3/4"	30.00 lf	0.073 mh / lf	297.66 /c	89.30	2.18
IMC Conduit 3/4"	25.00 lf	0.073 mh / lf	297.66 /c	74.42	1.82
IMC Conduit 3/4"	60.00 lf	0.073 mh / lf	297.66 /c	178.60	4.36
IMC Conduit 3/4"	85.00 lf	0.073 mh / lf	297.66 /c	253.01	6.18
IMC Conduit 3/4"	85.00 lf	0.073 mh / lf	297.66 /c	253.01	6.18
IMC Conduit 3/4"	60.00 lf	0.073 mh / lf	297.66 /c	178.60	4.36
IMC Conduit 3/4"	35.00 lf	0.073 mh / lf	297.66 /c	104.18	2.55
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Coupling	3.00 ea	0.091 mh / ea	112.25 /c	3.37	0.27
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
IMC 3/4" Factory Elbow	3.00 ea	0.455 mh / ea	406.80 /c	12.20	1.36
EMT CONDUIT					
EMT Conduit 3/4"	80.00 lf	0.055 mh / lf	144.98 /c	115.98	4.36
EMT Conduit 3/4"	60.00 lf	0.055 mh / lf	144.98 /c	86.99	3.27
EMT Conduit 3/4"	40.00 lf	0.055 mh / lf	152.06 /c	60.83	2.18
EMT Conduit 3/4"	30.00 lf	0.055 mh / lf	152.06 /c	45.62	1.64
EMT Conduit 3/4"	30.00 lf	0.055 mh / lf	152.06 /c	45.62	1.64
EMT Conduit 3/4"	30.00 lf	0.055 mh / lf	152.06 /c	45.62	1.64
EMT Conduit 3/4"	30.00 lf	0.055 mh / lf	152.06 /c	45.62	1.64
EMT Conduit 3/4"	30.00 lf	0.055 mh / lf	152.06 /c	45.62	1.64
EMT Conduit 3/4"	20.00 lf	0.055 mh / lf	152.06 /c	30.41	1.09
EMT Conduit 3/4"	150.00 lf	0.055 mh / lf	152.06 /c	228.09	8.18
EMT Conduit 3/4"	1,250.00 lf	0.055 mh / lf	152.06 /c	1,900.79	68.18
EMT Conduit 3/4"	100.00 lf	0.055 mh / lf	152.06 /c	152.06	5.45
EMT Conduit 3/4"	100.00 lf	0.055 mh / lf	152.06 /c	152.06	5.45
EMT Conduit 3/4"	100.00 lf	0.055 mh / lf	152.06 /c	152.06	5.45

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
EMT CONDUIT					
EMT Conduit 3/4"	100.00 lf	0.055 mh / lf	152.06 /c	152.06	5.45
EMT Conduit 1"	50.00 lf	0.073 mh / lf	262.03 /c	131.01	3.64
EMT Conduit 1 1/4"	30.00 lf	0.082 mh / lf	426.20 /c	127.86	2.45
EMT Conduit 1 1/2"	(20.00) lf	0.091 mh / lf	497.19 /c	(99.44)	-1.82
EMT Conduit 1 1/2"	(6.00) lf	0.091 mh / lf	497.19 /c	(29.83)	-0.55
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 3/4"	3.00 ea	0.145 mh / ea	203.29 /c	6.10	0.44
EMT 90d EI 1"	3.00 ea	0.182 mh / ea	307.89 /c	9.24	0.55
EMT 90d EI 1 1/2"	3.00 ea	0.273 mh / ea	498.41 /c	14.95	0.82
PVC SCH 40 CONDUIT					
PVC Sch 40 3/4"	120.00 lf	0.042 mh / lf	128.25 /c	153.90	5.02
PVC Sch 40 3/4"	110.00 lf	0.042 mh / lf	128.25 /c	141.08	4.60
PVC Sch 40 1"	160.00 lf	0.045 mh / lf	154.44 /c	247.10	7.27
PVC Sch 40 1 1/2"	(35.00) lf	0.047 mh / lf	257.83 /c	(90.24)	-1.65
PVC Sch 40 1 1/2"	6.00 lf	0.047 mh / lf	257.83 /c	15.47	0.28
PVC Sch 40 2"	100.00 lf	0.049 mh / lf	321.45 /c	321.45	4.91
PVC Sch 40 2"	50.00 lf	0.049 mh / lf	321.45 /c	160.73	2.45
PVC Sch 40 2 1/2"	(100.00) lf	0.053 mh / lf	503.86 /c	(503.86)	-5.27
PVC Sch 40 2 1/2"	(100.00) lf	0.053 mh / lf	503.86 /c	(503.86)	-5.27
PVC Sch 40 2 1/2"	60.00 lf	0.053 mh / lf	503.86 /c	302.32	3.16
PVC Sch 40 2 1/2"	6.00 lf	0.053 mh / lf	503.86 /c	30.23	0.32
PVC Sch 40 4"	100.00 lf	0.091 mh / lf	848.55 /c	848.55	9.09
PVC S40 90d EI 3/4"	4.00 ea	0.073 mh / ea	43.91 /c	1.76	0.29
PVC S40 90d EI 3/4"	4.00 ea	0.073 mh / ea	43.91 /c	1.76	0.29
PVC S40 90d EI 1"	12.00 ea	0.127 mh / ea	68.69 /c	8.24	1.53
PVC S40 90d EI 1 1/2"	(3.00) ea	0.145 mh / ea	121.41 /c	(3.64)	-0.44
PVC S40 90d EI 1 1/2"	3.00 ea	0.145 mh / ea	121.41 /c	3.64	0.44
PVC S40 90d EI 2"	8.00 ea	0.218 mh / ea	171.03 /c	13.68	1.75
PVC S40 90d EI 2"	4.00 ea	0.218 mh / ea	171.03 /c	6.84	0.87
PVC S40 90d EI 2 1/2"	(8.00) ea	0.218 mh / ea	312.81 /c	(25.03)	-1.75
PVC S40 90d EI 2 1/2"	(8.00) ea	0.218 mh / ea	312.81 /c	(25.03)	-1.75
PVC S40 90d EI 2 1/2"	3.00 ea	0.218 mh / ea	312.81 /c	9.38	0.65
PVC S40 90d EI 2 1/2"	3.00 ea	0.218 mh / ea	312.81 /c	9.38	0.65
PVC S40 90d EI 4"	8.00 ea	0.364 mh / ea	806.63 /c	64.53	2.91
QT PVC Glue	(0.10) ea	0.091 mh / ea	9.16 /ea	(0.92)	-0.01
QT PVC Glue	(0.10) ea	0.091 mh / ea	9.16 /ea	(0.92)	-0.01
QT PVC Glue	0.10 ea	0.091 mh / ea	9.16 /ea	0.92	0.01
QT PVC Glue	0.10 ea	0.091 mh / ea	9.16 /ea	0.92	0.01
QT PVC Glue	0.12 ea	0.091 mh / ea	9.16 /ea	1.10	0.01
QT PVC Glue	(0.03) ea	0.100 mh / ea	9.16 /ea	(0.32)	0.00
QT PVC Glue	0.01 ea	0.091 mh / ea	9.16 /ea	0.05	0.00
QT PVC Glue	0.01 ea	0.091 mh / ea	9.16 /ea	0.05	0.00
QT PVC Glue	0.16 ea	0.091 mh / ea	9.16 /ea	1.47	0.01
QT PVC Glue	0.05 ea	0.091 mh / ea	9.16 /ea	0.46	0.00
QT PVC Glue	0.12 ea	0.091 mh / ea	9.16 /ea	1.10	0.01
QT PVC Glue	0.11 ea	0.091 mh / ea	9.16 /ea	1.01	0.01
FLEX					
Flex Steel 3/4"	3.00 lf	0.055 mh / lf	73.88 /c	2.22	0.16
Flex Steel 3/4"	150.00 lf	0.055 mh / lf	73.88 /c	110.82	8.18
Flex Steel 3/4"	12.00 lf	0.055 mh / lf	73.88 /c	8.87	0.65
Flex Steel 3/4"	12.00 lf	0.055 mh / lf	73.88 /c	8.87	0.65
Flex Steel 3/4"	12.00 lf	0.055 mh / lf	73.88 /c	8.87	0.65
Flex Steel 1 1/2"	3.00 lf	0.091 mh / lf	269.34 /c	8.08	0.27
Flex Steel 2 1/2"	3.00 lf	0.145 mh / lf	423.27 /c	12.70	0.44
FLEX FITTINGS					
Steel Flex Conn Str. 3/4" (Mallable)	2.00 ea	0.127 mh / ea	111.22 /c	2.22	0.25
Steel Flex Conn Str. 3/4" (Mallable)	25.00 ea	0.127 mh / ea	111.22 /c	27.81	3.18
Steel Flex Conn Str. 3/4" (Mallable)	4.00 ea	0.127 mh / ea	111.22 /c	4.45	0.51
Steel Flex Conn Str. 3/4" (Mallable)	4.00 ea	0.127 mh / ea	111.22 /c	4.45	0.51
Steel Flex Conn Str. 3/4" (Mallable)	4.00 ea	0.127 mh / ea	111.22 /c	4.45	0.51
Steel Flex Conn Str. 1 1/2" (Mallable)	1.00 ea	0.182 mh / ea	538.40 /c	5.38	0.18
Steel Flex Conn Str. 2 1/2" (Mallable)	1.00 ea	0.255 mh / ea	1,441.19 /c	14.41	0.25
Steel Flex Conn 90d 3/4" (Mallable)	25.00 ea	0.182 mh / ea	229.94 /c	57.48	4.55
Steel Flex Conn 90d 3/4" (Mallable)	2.00 ea	0.182 mh / ea	229.94 /c	4.60	0.36
Steel Flex Conn 90d 3/4" (Mallable)	2.00 ea	0.182 mh / ea	229.94 /c	4.60	0.36
Steel Flex Conn 90d 3/4" (Mallable)	2.00 ea	0.182 mh / ea	229.94 /c	4.60	0.36
Steel Flex Conn 90d 1 1/2" (Mallable)	1.00 ea	0.218 mh / ea	1,144.84 /c	11.45	0.22

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
FLEX FITTINGS					
Steel Flex Conn 90d 2-1/2" (Mallable)	1.00 ea	0.255 mh / ea	4,295.00 /c	42.95	0.25
SEALTITE					
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 3/4"	3.00 lf	0.055 mh / lf	98.98 /c	2.97	0.16
Sealtite 2 1/2"	(12.00) lf	0.145 mh / lf	815.39 /c	(97.85)	-1.75
Sealtite 2 1/2"	(12.00) lf	0.145 mh / lf	815.39 /c	(97.85)	-1.75
Sealtite 2 1/2"	24.00 lf	0.145 mh / lf	815.39 /c	195.69	3.49
SEALTITE FITTINGS					
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn Straight 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn Straight 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn Straight 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn Straight 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn 90deg 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn 90deg 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn 90deg 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn 90deg 3/4"	1.00 ea	0.182 mh / ea	479.14 /c	4.79	0.18
STite Conn 90deg 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn 90deg 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
STite Conn 90deg 3/4"	2.00 ea	0.182 mh / ea	479.14 /c	9.58	0.36
DUCTBANK & MANHOLE MATERIAL					
Excavate Trench	(5.56) cy	0.364 mh / cy	-	-	-2.02
Excavate Trench	(5.56) cy	0.364 mh / cy	-	-	-2.02
Excavate Trench	5.56 cy	0.364 mh / cy	-	-	2.02
Excavate Trench	3.33 cy	0.364 mh / cy	-	-	1.21
Excavate Trench	(1.11) cy	0.364 mh / cy	-	-	-0.40
Excavate Trench	1.11 cy	0.364 mh / cy	-	-	0.40
Excavate Trench	1.11 cy	0.364 mh / cy	-	-	0.40
Excavate Trench	3.70 cy	0.364 mh / cy	-	-	1.35
Excavate Trench	0.93 cy	0.364 mh / cy	-	-	0.34
Excavate Trench	0.56 cy	0.364 mh / cy	-	-	0.20
Excavate Trench	3.89 cy	0.364 mh / cy	-	-	1.41
Backfill Trench	(5.56) cy	0.545 mh / cy	-	-	-3.03
Backfill Trench	(5.56) cy	0.545 mh / cy	-	-	-3.03
Backfill Trench	5.56 cy	0.545 mh / cy	-	-	3.03
Backfill Trench	3.33 cy	0.545 mh / cy	-	-	1.82
Backfill Trench	(1.11) cy	0.545 mh / cy	-	-	-0.61
Backfill Trench	1.11 cy	0.545 mh / cy	-	-	0.61
Backfill Trench	1.11 cy	0.545 mh / cy	-	-	0.61
Backfill Trench	3.70 cy	0.545 mh / cy	-	-	2.02
Backfill Trench	0.93 cy	0.545 mh / cy	-	-	0.51
Backfill Trench	0.56 cy	0.545 mh / cy	-	-	0.30

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
DUCTBANK & MANHOLE MATERIAL					
Backfill Trench	3.89 cy	0.545 mh / cy	-	-	2.12
MARKER TAPE	(60.00) lf	0.002 mh / lf	0.79 /lf	(47.28)	-0.11
MARKER TAPE	(60.00) lf	0.002 mh / lf	0.79 /lf	(47.28)	-0.11
MARKER TAPE	60.00 lf	0.002 mh / lf	0.79 /lf	47.28	0.11
MARKER TAPE	36.00 lf	0.002 mh / lf	0.79 /lf	28.37	0.07
MARKER TAPE	36.00 lf	0.002 mh / lf	0.79 /lf	28.37	0.07
MARKER TAPE	36.00 lf	0.002 mh / lf	0.79 /lf	28.37	0.07
MARKER TAPE	60.00 lf	0.002 mh / lf	0.79 /lf	47.28	0.11
RACEWAY FITTINGS					
PVC SCH40 FITTINGS					
Sch40 Male Adapter 2"	4.00 ea	0.220 mh / ea	113.15 /c	4.53	0.88
Sch40 Male Adapter 2 1/2"	(4.00) ea	0.240 mh / ea	197.21 /c	(7.89)	-0.96
Sch40 Male Adapter 2 1/2"	(4.00) ea	0.240 mh / ea	197.21 /c	(7.89)	-0.96
Sch40 Male Adapter 2 1/2"	4.00 ea	0.240 mh / ea	197.21 /c	7.89	0.96
Sch40 End Cap 1"	32.00 ea	0.140 mh / ea	131.88 /c	42.20	4.48
Sch40 End Plug 4"	8.00 ea	0.480 mh / ea	1,634.22 /c	130.74	3.84
3/4" Sch 40 PVC Coupling	8.00 ea	0.060 mh / ea	19.50 /c	1.56	0.48
3/4" Sch 40 PVC Coupling	8.00 ea	0.060 mh / ea	19.50 /c	1.56	0.48
1" Sch 40 PVC Coupling	24.00 ea	0.080 mh / ea	28.94 /c	6.95	1.92
1 1/2" Sch 40 PVC Coupling	(6.00) ea	0.080 mh / ea	51.68 /c	(3.10)	-0.48
1 1/2" Sch 40 PVC Coupling	6.00 ea	0.080 mh / ea	51.68 /c	3.10	0.48
2" Sch 40 PVC Coupling	16.00 ea	0.100 mh / ea	69.92 /c	11.19	1.60
2" Sch 40 PVC Coupling	8.00 ea	0.100 mh / ea	69.92 /c	5.59	0.80
2 1/2" Sch 40 PVC Coupling	(16.00) ea	0.100 mh / ea	123.12 /c	(19.70)	-1.60
2 1/2" Sch 40 PVC Coupling	(16.00) ea	0.100 mh / ea	123.12 /c	(19.70)	-1.60
2 1/2" Sch 40 PVC Coupling	12.00 ea	0.100 mh / ea	123.12 /c	14.77	1.20
2 1/2" Sch 40 PVC Coupling	6.00 ea	0.100 mh / ea	123.12 /c	7.39	0.60
4" Sch 40 PVC Coupling	16.00 ea	0.140 mh / ea	318.88 /c	51.02	2.24
LOCKNUTS					
Steel Locknut 3/4"	6.00 ea	0.100 mh / ea	13.84 /c	0.83	0.60
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 1 1/2"	(2.00) ea	0.120 mh / ea	58.82 /c	(1.18)	-0.24
Steel Locknut 1 1/2"	2.00 ea	0.120 mh / ea	58.82 /c	1.18	0.24
Steel Locknut 2"	8.00 ea	0.120 mh / ea	77.51 /c	6.20	0.96
Steel Locknut 2 1/2"	(8.00) ea	0.140 mh / ea	188.39 /c	(15.07)	-1.12
Steel Locknut 2 1/2"	(8.00) ea	0.140 mh / ea	188.39 /c	(15.07)	-1.12
Steel Locknut 2 1/2"	2.00 ea	0.140 mh / ea	188.39 /c	3.77	0.28
BUSHINGS					
Plastic Bushing 1 1/2"	(2.00) ea	0.400 mh / ea	38.10 /c	(0.76)	-0.80
Plastic Bushing 1 1/2"	(2.00) ea	0.400 mh / ea	38.10 /c	(0.76)	-0.80
Plastic Bushing 1 1/2"	(2.00) ea	0.400 mh / ea	38.10 /c	(0.76)	-0.80
Plastic Bushing 1 1/2"	2.00 ea	0.400 mh / ea	38.10 /c	0.76	0.80
Plastic Bushing 2 1/2"	2.00 ea	0.600 mh / ea	115.64 /c	2.31	1.20
Ground Bushing 2"	4.00 ea	0.500 mh / ea	958.94 /c	38.36	2.00
Ground Bushing 2 1/2"	(4.00) ea	0.600 mh / ea	1,303.06 /c	(52.12)	-2.40
Ground Bushing 2 1/2"	(4.00) ea	0.600 mh / ea	1,303.06 /c	(52.12)	-2.40
Ground Bushing 2 1/2"	4.00 ea	0.600 mh / ea	1,303.06 /c	52.12	2.40
Ground Bushing 4"	4.00 ea	0.700 mh / ea	3,013.54 /c	120.54	2.80
EMT FITTINGS					
EMT Coup Steel SS 3/4"	6.00 ea	0.060 mh / ea	40.82 /c	2.45	0.36
EMT Coup Steel SS 1 1/2"	(2.00) ea	0.140 mh / ea	197.76 /c	(3.96)	-0.28
EMT Coup Steel SS 1 1/2"	(1.00) ea	0.140 mh / ea	197.76 /c	(1.98)	-0.14
EMT Coup Comp Steel 3/4"	7.00 ea	0.100 mh / ea	62.86 /c	4.40	0.70
EMT Coup Comp Steel 3/4"	7.00 ea	0.100 mh / ea	62.86 /c	4.40	0.70
EMT Coup Comp Steel 3/4"	6.00 ea	0.100 mh / ea	62.86 /c	3.77	0.60
EMT Coup Comp Steel 3/4"	6.00 ea	0.100 mh / ea	62.86 /c	3.77	0.60
EMT Coup Comp Steel 3/4"	6.00 ea	0.100 mh / ea	62.86 /c	3.77	0.60
EMT Coup Comp Steel 3/4"	6.00 ea	0.100 mh / ea	62.86 /c	3.77	0.60

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
EMT FITTINGS					
EMT Coup Comp Steel 3/4"	5.00 ea	0.100 mh / ea	62.86 /c	3.14	0.50
EMT Coup Comp Steel 3/4"	15.00 ea	0.100 mh / ea	62.86 /c	9.43	1.50
EMT Coup Comp Steel 3/4"	200.00 ea	0.100 mh / ea	81.72 /c	163.44	20.00
EMT RT Coup Comp Steel 3/4"	8.00 ea	0.100 mh / ea	172.56 /c	13.80	0.80
EMT Coup Comp Steel 1"	8.00 ea	0.100 mh / ea	105.80 /c	8.46	0.80
EMT Coup Comp Steel 1 1/4"	6.00 ea	0.140 mh / ea	186.74 /c	11.20	0.84
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	2.00 ea	0.160 mh / ea	57.34 /c	1.15	0.32
EMT Conn Comp Steel 3/4"	125.00 ea	0.160 mh / ea	74.54 /c	93.18	20.00
EMT RT Conn Comp Steel 3/4"	6.00 ea	0.160 mh / ea	157.92 /c	9.48	0.96
EMT RT Conn Comp Steel 3/4"	10.00 ea	0.160 mh / ea	157.92 /c	15.79	1.60
EMT Conn Comp Steel 1"	2.00 ea	0.160 mh / ea	91.14 /c	1.82	0.32
EMT Conn Comp Steel 1 1/4"	2.00 ea	0.200 mh / ea	165.04 /c	3.30	0.40
SUPPORTS / CLAMPS					
GALV CONDUIT CLAMPS					
Galv 1 Hole Strap 3/4"	6.25 ea	0.100 mh / ea	31.66 /c	1.98	0.63
Galv 1 Hole Strap 3/4"	1.88 ea	0.100 mh / ea	31.66 /c	0.59	0.19
Galv 1 Hole Strap 3/4"	6.25 ea	0.100 mh / ea	31.66 /c	1.98	0.63
Galv 1 Hole Strap 3/4"	4.38 ea	0.100 mh / ea	31.66 /c	1.39	0.44
Galv 1 Hole Strap 3/4"	3.75 ea	0.100 mh / ea	31.66 /c	1.19	0.38
Galv 1 Hole Strap 3/4"	3.13 ea	0.100 mh / ea	31.66 /c	0.99	0.31
Galv 1 Hole Strap 3/4"	7.50 ea	0.100 mh / ea	31.66 /c	2.37	0.75
Galv 1 Hole Strap 3/4"	10.63 ea	0.100 mh / ea	31.66 /c	3.36	1.06
Galv 1 Hole Strap 3/4"	10.63 ea	0.100 mh / ea	31.66 /c	3.36	1.06
Galv 1 Hole Strap 3/4"	7.50 ea	0.100 mh / ea	31.66 /c	2.37	0.75
Galv 1 Hole Strap 3/4"	4.38 ea	0.100 mh / ea	31.66 /c	1.39	0.44
EMT CONDUIT CLAMPS					
3/4" EMT Strap 1 hole Steel	12.00 ea	0.060 mh / ea	13.66 /c	1.64	0.72
3/4" EMT Mineralac Strap	4.00 ea	0.100 mh / ea	43.04 /c	1.72	0.40
3/4" EMT Mineralac Strap	156.25 ea	0.100 mh / ea	43.04 /c	67.25	15.63
3/4" EMT Mineralac Strap	6.25 ea	0.100 mh / ea	43.04 /c	2.69	0.63
3/4" EMT Channel Strap	5.00 ea	0.100 mh / ea	84.64 /c	4.23	0.50
UNISTRUT					
1 5/8" STRUT 20'	10.00 lf	0.040 mh / lf	3.20 /lf	32.00	0.40
ROD/NUTS/BOLTS					
3/8" All-Thread Rod-Steel	20.00 lf	0.100 mh / lf	78.24 /c	15.65	2.00
3/8" Standard Hex Nut	40.00 ea	0.004 mh / ea	15.70 /c	6.28	0.16
BOXES					
BOXES 4" SQUARE					
4" Sq Box 1-1/2"D Combo	3.00 ea	0.600 mh / ea	110.68 /c	3.32	1.80
4" Sq Box 1-1/2"D Combo	25.00 ea	0.600 mh / ea	143.88 /c	35.97	15.00
4" Sq Box 1-1/2"D Combo	2.00 ea	0.600 mh / ea	143.88 /c	2.88	1.20
4" Sq Box 1-1/2"D Combo	2.00 ea	0.600 mh / ea	143.88 /c	2.88	1.20
4" Sq Box 1-1/2"D Combo	2.00 ea	0.600 mh / ea	143.88 /c	2.88	1.20
4" Sq Box 1-1/2"D Combo	1.00 ea	0.600 mh / ea	143.88 /c	1.44	0.60
4" Sq Box 1-1/2"D Combo	1.00 ea	0.600 mh / ea	143.88 /c	1.44	0.60
4" Sq Box 1-1/2"D Combo	1.00 ea	0.600 mh / ea	143.88 /c	1.44	0.60
4" Sq Box 2-1/8"D Combo	1.00 ea	0.200 mh / ea	185.86 /c	1.86	0.20
4" Sq Box 2-1/8"D Combo	4.00 ea	0.200 mh / ea	241.62 /c	9.66	0.80
4" Square Blank Cover	1.00 ea	0.040 mh / ea	46.04 /c	0.46	0.04
4" Square Blank Cover	1.00 ea	0.040 mh / ea	46.04 /c	0.46	0.04
4" Square Blank Cover	25.00 ea	0.040 mh / ea	59.85 /c	14.96	1.00
4" Square Blank Cover	2.00 ea	0.040 mh / ea	59.85 /c	1.20	0.08
4" Square Blank Cover	2.00 ea	0.040 mh / ea	59.85 /c	1.20	0.08
4" Square Blank Cover	2.00 ea	0.040 mh / ea	59.85 /c	1.20	0.08
4" Square Blank Cover	4.00 ea	0.040 mh / ea	59.85 /c	2.39	0.16
4" Square Blank Cover	1.00 ea	0.040 mh / ea	59.85 /c	0.60	0.04
4" Square Blank Cover	1.00 ea	0.040 mh / ea	59.85 /c	0.60	0.04
4" Square Blank Cover	1.00 ea	0.040 mh / ea	59.85 /c	0.60	0.04
MASONRY BOXES					
1G MASONRY DP BOX	3.00 ea	0.300 mh / ea	455.13 /c	13.65	0.90
PLASTER RINGS					
Adjustable Plaster Ring SG	3.00 ea	0.060 mh / ea	650.12 /c	19.50	0.18
BELL BOXES & WP COVERS					

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
BELL BOXES & WP COVERS					
1G BELL BOX 4HUBS 3/4"	3.00 ea	0.600 mh / ea	637.57 /c	19.13	1.80
1G WP BLNK PLATE	3.00 ea	0.180 mh / ea	102.84 /c	3.09	0.54
1G WP GFI COV WHILE IN USE	3.00 ea	0.500 mh / ea	2,841.30 /c	85.24	1.50
HOFFMAN BOXES S/STEEL					
Hoffman Box SS N4X 08x08x08	1.00 ea	6.000 mh / ea	81.88 /ea	81.88	6.00
Hoffman Box SS N4X 12x24x06	1.00 ea	7.200 mh / ea	274.55 /ea	274.55	7.20
Hoffman Box SS N4X 12x24x06	1.00 ea	7.200 mh / ea	274.55 /ea	274.55	7.20
Hoffman Box SS N4X 12x24x08	1.00 ea	7.200 mh / ea	360.53 /ea	360.53	7.20
HOFFMAN BOXES C/STEEL					
4X6X4" NMA1 S/C J BOX	1.00 ea	0.300 mh / ea	11.61 /ea	11.61	0.30
4X6X4" NMA3R RT J Box	1.00 ea	0.300 mh / ea	13.23 /ea	13.23	0.30
CADDY					
BX KON CLIPS	6.00 ea	0.020 mh / ea	72.49 /c	4.35	0.12
BX KON CLIPS	6.00 ea	0.020 mh / ea	72.49 /c	4.35	0.12
1/2"-3/4" CADDY BANG-ON	8.00 ea	0.060 mh / ea	260.57 /c	20.85	0.48
1/2"-3/4" CADDY BANG-ON	5.00 ea	0.060 mh / ea	260.57 /c	13.03	0.30
1/2"-3/4" CADDY BANG-ON	4.00 ea	0.060 mh / ea	260.57 /c	10.42	0.24
1/2"-3/4" CADDY BANG-ON	4.00 ea	0.060 mh / ea	260.57 /c	10.42	0.24
1/2"-3/4" CADDY BANG-ON	4.00 ea	0.060 mh / ea	260.57 /c	10.42	0.24
1/2"-3/4" CADDY BANG-ON	3.00 ea	0.060 mh / ea	260.57 /c	7.82	0.18
1/2"-3/4" CADDY BANG-ON	12.50 ea	0.060 mh / ea	260.57 /c	32.57	0.75
1/2"-3/4" CADDY BANG-ON	12.50 ea	0.060 mh / ea	260.57 /c	32.57	0.75
1/2"-3/4" CADDY BANG-ON	12.50 ea	0.060 mh / ea	260.57 /c	32.57	0.75
1/2"-3/4" CADDY BANG-ON	12.50 ea	0.060 mh / ea	260.57 /c	32.57	0.75
1" CADDY BANG-ON	6.00 ea	0.060 mh / ea	256.01 /c	15.36	0.36
1 1/4" CADDY BANG-ON	4.00 ea	0.060 mh / ea	255.84 /c	10.23	0.24
1 1/2" CADDY BANG-ON	(3.00) ea	0.060 mh / ea	265.97 /c	(7.98)	-0.18
1 1/2" CADDY BANG-ON	(1.00) ea	0.060 mh / ea	265.97 /c	(2.66)	-0.06
Caddy TSGB24 24" 4Sq Mtg Bracket	3.00 ea	0.200 mh / ea	329.77 /c	9.89	0.60
HARDWARE / FASTENERS					
FASTENERS					
3/8 X 1-1/4IN FENDER WASHER ZB	40.00 ea	0.020 mh / ea	0.17 /ea	6.80	0.80
3/8 X 1-1/2IN FENDER WASHER ZB	2.00 ea	0.020 mh / ea	0.11 /ea	0.21	0.04
3/8 X 1-1/2IN FENDER WASHER ZB	4.00 ea	0.020 mh / ea	0.11 /ea	0.42	0.08
3/8-16 FINISHED HEX NUT NC ZB	1.00 ea	0.020 mh / ea	0.04 /ea	0.04	0.02
3/8-16 FINISHED HEX NUT NC ZB	2.00 ea	0.020 mh / ea	0.04 /ea	0.08	0.04
Tek Screw - (Pan Heads)	18.00 ea	0.030 mh / ea	0.11 /ea	1.98	0.54
#10 X 1 A PAN COMBO HD TAPPING SCR ZB	6.00 ea	0.020 mh / ea	0.04 /ea	0.25	0.12
3/8-16 X 1-1/2IN MACHINE SCREW RD SLOT ZB	1.00 ea	0.020 mh / ea	0.23 /ea	0.23	0.02
3/8-16 X 1-1/2IN MACHINE SCREW RD SLOT ZB	2.00 ea	0.020 mh / ea	0.23 /ea	0.46	0.04
PANELBOARDS					
PANELBOARDS NQOD 3-PHASE					
Panel NQOD MLO 3P 100A 24-Ckt - LA	(1.00) ea	4.000 mh / ea	- /q	-	-4.00
Panel NF MLO 3P 100A 24-Ckt - HA	(1.00) ea	4.000 mh / ea	- /q	-	-4.00
Panel NF MCB 3P 200A 24-Ckt - MDP	(1.00) ea	16.000 mh / ea	- /q	-	-16.00
Panel NF MLO 3P 200A 24-Ckt - L SEC-2	1.00 ea	16.000 mh / ea	- /q	-	16.00
Panel NF MCB 3P 200A 40-Ckt - L SEC-1	1.00 ea	16.000 mh / ea	- /q	-	16.00
Panel NF MLO 3P 400A 32-Ckt - MDP	1.00 ea	16.000 mh / ea	- /q	-	16.00
TRANSFORMERS					
DRY TYPE TRANSFORMERS					
3 Phase DT Xfmr 45 KVA	(1.00) ea	26.000 mh / ea	- /q	-	-26.00
3 Phase DT Xfmr 75 KVA	1.00 ea	30.000 mh / ea	- /q	-	30.00
DISC / FUSES / BREAKERS					
S/SW 600V NO FUSE 4X-SS					
NFuse 3P Sf Sw 600V SS4X-30A	2.00 ea	8.000 mh / ea	175.00 /ea	350.00	16.00
S/SW 600V FUSED 4X-SS					
Fuse 3P Sf Sw 600V SS4X-400A	1.00 ea	20.000 mh / ea	- /q	-	20.00
K SERIES FUSES					
400A LIMITRON KTN FUSE	3.00 ea	0.100 mh / ea	- /q	-	0.30
CONTROLS					
SQUARE D MOTOR SWITCHES					
1P MOTOR SWITCH QTD	2.00 ea	0.500 ea / mh	60.00 /ea	120.00	4.00
GENERATORS / UPS / TVSS					
GENERATORS / ATS					
100 KW GENERATOR	(1.00) ea	146.400 mh / ea	- /q	-	-146.40

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
GENERATORS / ATS					
REMOTE ANNUNCIATOR	1.00 ea	8.200 mh / ea	- /q	-	8.20
200A AUTO XFER SWITCH	(1.00) ea	11.000 mh / ea	- /q	-	-11.00
400A AUTO XFER SWITCH	1.00 ea	15.400 mh / ea	- /q	-	15.40
400A DUAL PURPOSE DOCKING STATION	1.00 ea	17.100 mh / ea	- /q	-	17.10
BUILDING WIRE COPPER					
600V WIRE THHN COPPER STR					
SC Copper THHN-12-BLK-STR	86.63 lf	0.006 mh / lf	243.06 /m	21.06	0.53
SC Copper THHN-12-BLK-STR	63.00 lf	0.006 mh / lf	243.06 /m	15.31	0.39
SC Copper THHN-12-BLK-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-BLK-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-BLK-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-BLK-STR	21.00 lf	0.006 mh / lf	263.40 /m	5.53	0.13
SC Copper THHN-12-BLK-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-WHT-STR	86.63 lf	0.006 mh / lf	243.06 /m	21.06	0.53
SC Copper THHN-12-WHT-STR	63.00 lf	0.006 mh / lf	243.06 /m	15.31	0.39
SC Copper THHN-12-WHT-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-WHT-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-WHT-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-WHT-STR	21.00 lf	0.006 mh / lf	263.40 /m	5.53	0.13
SC Copper THHN-12-WHT-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-YEL-STR	42.00 lf	0.006 mh / lf	263.40 /m	11.06	0.26
SC Copper THHN-12-YEL-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-YEL-STR	36.75 lf	0.006 mh / lf	263.40 /m	9.68	0.23
SC Copper THHN-12-YEL-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-YEL-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-YEL-STR	63.00 lf	0.006 mh / lf	263.40 /m	16.59	0.39
SC Copper THHN-12-YEL-STR	178.50 lf	0.006 mh / lf	263.40 /m	47.02	1.10
SC Copper THHN-12-GRN-STR	86.63 lf	0.006 mh / lf	243.06 /m	21.06	0.53
SC Copper THHN-12-GRN-STR	63.00 lf	0.006 mh / lf	243.06 /m	15.31	0.39
SC Copper THHN-12-GRN-STR	42.00 lf	0.006 mh / lf	263.40 /m	11.06	0.26
SC Copper THHN-12-GRN-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-GRN-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-GRN-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-GRN-STR	21.00 lf	0.006 mh / lf	263.40 /m	5.53	0.13
SC Copper THHN-12-GRN-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-GRN-STR	52.50 lf	0.006 mh / lf	263.40 /m	13.83	0.32
SC Copper THHN-12-GRN-STR	36.75 lf	0.006 mh / lf	263.40 /m	9.68	0.23
SC Copper THHN-12-GRN-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-GRN-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-GRN-STR	63.00 lf	0.006 mh / lf	263.40 /m	16.59	0.39
SC Copper THHN-12-GRN-STR	89.25 lf	0.006 mh / lf	263.40 /m	23.51	0.55
SC Copper THHN-12-ORG-STR	42.00 lf	0.006 mh / lf	263.40 /m	11.06	0.26
SC Copper THHN-12-ORG-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-ORG-STR	36.75 lf	0.006 mh / lf	263.40 /m	9.68	0.23
SC Copper THHN-12-ORG-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-ORG-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-ORG-STR	63.00 lf	0.006 mh / lf	263.40 /m	16.59	0.39
SC Copper THHN-12-ORG-STR	178.50 lf	0.006 mh / lf	263.40 /m	47.02	1.10
SC Copper THHN-12-BRN-STR	42.00 lf	0.006 mh / lf	263.40 /m	11.06	0.26
SC Copper THHN-12-BRN-STR	105.00 lf	0.006 mh / lf	263.40 /m	27.66	0.65
SC Copper THHN-12-BRN-STR	36.75 lf	0.006 mh / lf	263.40 /m	9.68	0.23
SC Copper THHN-12-BRN-STR	31.50 lf	0.006 mh / lf	263.40 /m	8.30	0.19
SC Copper THHN-12-BRN-STR	26.25 lf	0.006 mh / lf	263.40 /m	6.91	0.16
SC Copper THHN-12-BRN-STR	63.00 lf	0.006 mh / lf	263.40 /m	16.59	0.39
SC Copper THHN-12-BRN-STR	178.50 lf	0.006 mh / lf	263.40 /m	47.02	1.10
SC Copper THHN-10-BLK-STR	90.00 lf	0.008 mh / lf	371.71 /m	33.45	0.89
SC Copper THHN-10-YEL-STR	126.00 lf	0.008 mh / lf	412.08 /m	51.92	0.97
SC Copper THHN-10-GRN-STR	42.00 lf	0.008 mh / lf	412.08 /m	17.31	0.32
SC Copper THHN-10-GRN-STR	47.25 lf	0.008 mh / lf	412.08 /m	19.47	0.36
SC Copper THHN-10-GRN-STR	126.00 lf	0.008 mh / lf	412.08 /m	51.92	0.97
SC Copper THHN-10-ORG-STR	126.00 lf	0.008 mh / lf	412.08 /m	51.92	0.97
SC Copper THHN-10-BRN-STR	126.00 lf	0.008 mh / lf	412.08 /m	51.92	0.97
SC Copper THHN 8 BLK-STR	(36.75) lf	0.009 mh / lf	674.76 /m	(24.80)	-0.34
SC Copper THHN 8 GRN-STR	31.50 lf	0.009 mh / lf	783.41 /m	24.68	0.29
SC Copper THHN 6 YEL-STR	42.00 lf	0.011 mh / lf	1,205.33 /m	50.62	0.45
SC Copper THHN 6 YEL-STR	47.25 lf	0.011 mh / lf	1,205.33 /m	56.95	0.51
SC Copper THHN 6 YEL-STR	31.50 lf	0.011 mh / lf	1,205.33 /m	37.97	0.34
SC Copper THHN 6 GRN-STR	52.50 lf	0.011 mh / lf	1,038.17 /m	54.50	0.57
SC Copper THHN 6 ORG-STR	42.00 lf	0.011 mh / lf	1,205.33 /m	50.62	0.45
SC Copper THHN 6 ORG-STR	47.25 lf	0.011 mh / lf	1,205.33 /m	56.95	0.51

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
WIRE TERMINATIONS					
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #10	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #10	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #10	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #10	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #10	4.00 ea	0.229 mh / ea	-	-	0.91
Wire Terminations #10	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #8	2.00 ea	0.198 mh / ea	-	-	0.40
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #6	2.00 ea	0.243 mh / ea	-	-	0.49
Wire Terminations #4	2.00 ea	0.271 mh / ea	-	-	0.54
Wire Terminations #4	2.00 ea	0.271 mh / ea	-	-	0.54
Wire Terminations #2	2.00 ea	0.357 mh / ea	-	-	0.71
Wire Terminations #2	2.00 ea	0.357 mh / ea	-	-	0.71
Wire Terminations #2	2.00 ea	0.357 mh / ea	-	-	0.71
Wire Terminations #1	4.00 ea	0.400 mh / ea	-	-	1.60
Wire Terminations #1	4.00 ea	0.400 mh / ea	-	-	1.60
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1	(2.00) ea	0.400 mh / ea	-	-	-0.80
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
WIRE TERMINATIONS					
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #1/0	2.00 ea	0.471 mh / ea	-	-	0.94
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #2/0	(4.00) ea	0.557 mh / ea	-	-	-2.23
Wire Terminations #3/0	4.00 ea	0.629 mh / ea	-	-	2.51
Wire Terminations #3/0	4.00 ea	0.629 mh / ea	-	-	2.51
Wire Terminations #3/0	4.00 ea	0.629 mh / ea	-	-	2.51
Wire Terminations #3/0	4.00 ea	0.629 mh / ea	-	-	2.51
Wire Terminations #3/0	4.00 ea	0.629 mh / ea	-	-	2.51
Wire Terminations #3/0	2.00 ea	0.629 mh / ea	-	-	1.26
Wire Terminations #3/0	2.00 ea	0.629 mh / ea	-	-	1.26
Wire Terminations #3/0	2.00 ea	0.629 mh / ea	-	-	1.26
Wire Terminations #3/0	2.00 ea	0.629 mh / ea	-	-	1.26
Wire Terminations 250 MCM	2.00 ea	0.800 mh / ea	-	-	1.60
Wire Terminations 250 MCM	2.00 ea	0.800 mh / ea	-	-	1.60
Wire Terminations 250 MCM	2.00 ea	0.800 mh / ea	-	-	1.60
MOTOR CONNECTIONS					
Terminate Motor .50 HP	2.00 ea	2.857 mh / ea	-	-	5.71
COMPRESS & MECH TERM LUGS					
Compressn Term Lug 1 Hole #2/0	(8.00) ea	1.000 mh / ea	4.34 /ea	(34.72)	-8.00
Compressn Term Lug 1 Hole #2/0	(8.00) ea	1.000 mh / ea	4.34 /ea	(34.72)	-8.00
Compressn Term Lug 1 Hole #3/0	8.00 ea	1.143 mh / ea	5.09 /ea	40.69	9.14
Compressn Term Lug 1 Hole #3/0	16.00 ea	1.143 mh / ea	5.09 /ea	81.38	18.29
Comprssn Splice Connt #2	2.00 ea	0.286 mh / ea	2.57 /ea	5.13	0.57
PULL ROPE / TIE WRAPS / MISC.					
Phase Tape (Color)	(0.80) ea	0.714 mh / ea	4.14 /ea	(3.31)	-0.57
Phase Tape (Color)	(0.80) ea	0.714 mh / ea	4.14 /ea	(3.31)	-0.57
Phase Tape (Color)	0.80 ea	0.714 mh / ea	4.14 /ea	3.31	0.57
Phase Tape (Color)	0.80 ea	0.714 mh / ea	4.14 /ea	3.31	0.57
Phase Tape (Color)	1.60 ea	0.714 mh / ea	4.14 /ea	6.62	1.14
Phase Tape (Color)	(0.50) ea	0.714 mh / ea	4.14 /ea	(2.07)	-0.36
Phase Tape (Color)	(0.50) ea	0.714 mh / ea	4.14 /ea	(2.07)	-0.36
Phase Tape (Color)	(0.50) ea	0.714 mh / ea	4.14 /ea	(2.07)	-0.36
Phase Tape (Color)	0.50 ea	0.714 mh / ea	4.14 /ea	2.07	0.36
Phase Tape (Color)	0.50 ea	0.714 mh / ea	4.14 /ea	2.07	0.36
Black Electrical Tape	(0.80) ea	0.714 mh / ea	0.70 /ea	(0.56)	-0.57
Black Electrical Tape	(0.80) ea	0.714 mh / ea	0.70 /ea	(0.56)	-0.57
Black Electrical Tape	0.80 ea	0.714 mh / ea	0.70 /ea	0.56	0.57
Black Electrical Tape	0.80 ea	0.714 mh / ea	0.70 /ea	0.56	0.57
Black Electrical Tape	1.60 ea	0.714 mh / ea	0.70 /ea	1.12	1.14
Black Electrical Tape	(0.50) ea	0.714 mh / ea	0.70 /ea	(0.35)	-0.36
Black Electrical Tape	(0.50) ea	0.714 mh / ea	0.70 /ea	(0.35)	-0.36
Black Electrical Tape	(0.50) ea	0.714 mh / ea	0.70 /ea	(0.35)	-0.36
Black Electrical Tape	0.50 ea	0.714 mh / ea	0.70 /ea	0.35	0.36
Black Electrical Tape	0.50 ea	0.714 mh / ea	0.70 /ea	0.35	0.36
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.50 ea	0.714 mh / ea	0.70 /ea	0.35	0.36
Black Electrical Tape	0.40 ea	0.714 mh / ea	0.70 /ea	0.28	0.29
Black Electrical Tape	0.40 ea	0.714 mh / ea	0.70 /ea	0.28	0.29
Black Electrical Tape	0.40 ea	0.714 mh / ea	0.70 /ea	0.28	0.29
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
Black Electrical Tape	0.60 ea	0.714 mh / ea	0.70 /ea	0.42	0.43
Black Electrical Tape	0.50 ea	0.714 mh / ea	0.70 /ea	0.35	0.36
200# PULL LINE	(110.00) lf	0.004 mh / lf	73.36 /m	(8.07)	-0.39
200# PULL LINE	(110.00) lf	0.004 mh / lf	73.36 /m	(8.07)	-0.39
200# PULL LINE	110.00 lf	0.004 mh / lf	73.36 /m	8.07	0.39
200# PULL LINE	110.00 lf	0.004 mh / lf	73.36 /m	8.07	0.39
200# PULL LINE	300.00 lf	0.004 mh / lf	73.36 /m	22.01	1.07
200# PULL LINE	(38.50) lf	0.004 mh / lf	73.36 /m	(2.82)	-0.14

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
PULL ROPE / TIE WRAPS / MISC.					
200# PULL LINE	(22.00) lf	0.004 mh / lf	73.36 /m	(1.61)	-0.08
200# PULL LINE	(6.60) lf	0.004 mh / lf	73.36 /m	(0.48)	-0.02
200# PULL LINE	6.60 lf	0.004 mh / lf	73.36 /m	0.48	0.02
200# PULL LINE	6.60 lf	0.004 mh / lf	73.36 /m	0.48	0.02
200# PULL LINE	176.00 lf	0.004 mh / lf	73.36 /m	12.91	0.63
200# PULL LINE	55.00 lf	0.004 mh / lf	73.36 /m	4.03	0.20
200# PULL LINE	33.00 lf	0.004 mh / lf	73.36 /m	2.42	0.12
200# PULL LINE	110.00 lf	0.004 mh / lf	73.36 /m	8.07	0.39
200# PULL LINE	110.00 lf	0.004 mh / lf	73.36 /m	8.07	0.39
200# PULL LINE	110.00 lf	0.004 mh / lf	73.36 /m	8.07	0.39
200# PULL LINE	16.50 lf	0.004 mh / lf	73.36 /m	1.21	0.06
200# PULL LINE	66.00 lf	0.004 mh / lf	73.36 /m	4.84	0.24
200# PULL LINE	132.00 lf	0.004 mh / lf	73.36 /m	9.68	0.47
200# PULL LINE	121.00 lf	0.004 mh / lf	73.36 /m	8.88	0.43
GROUNDING CABLE & EQUIP					
GROUND WIRE BARE & GREEN					
Bare Copper Wire #6 (Solid)	10.00 lf	0.100 mh / lf	747.91 /m	7.48	1.00
Bare Copper Wire #6 (Solid)	20.00 lf	0.100 mh / lf	747.91 /m	14.96	2.00
Bare Copper Wire #2 (Solid)	10.00 lf	0.171 mh / lf	1,952.22 /m	19.52	1.71
Bare Copper Wire #2 (Stranded)	10.00 lf	0.171 mh / lf	1,615.37 /m	16.15	1.71
Ground Stinger	3.00 ea	0.086 mh / ea	33.03 /c	0.10	0.26
GROUND CLAMPS,RODS,WELLS					
GAR Pipe Ground Clamp 3/4"	1.00 ea	0.714 mh / ea	20.39 /ea	20.39	0.71
1/2" X 8" GRND ROD,CU	1.00 ea	1.571 mh / ea	13.66 /ea	13.66	1.57
3/4" X 10" GRND ROD,CU	1.00 ea	1.571 mh / ea	28.24 /ea	28.24	1.57
3/4" GRND ROD ACORN	1.00 ea	0.314 mh / ea	4.20 /ea	4.20	0.31
3/4" GRND ROD ACORN	1.00 ea	0.314 mh / ea	4.20 /ea	4.20	0.31
GROUND STRAPS & JUMPERS					
12" Grounding Bar	1.00 ea	1.214 mh / ea	80.85 /ea	80.85	1.21
Grounding Bar Isolating Spacer	4.00 ea	0.214 mh / ea	8.31 /ea	33.22	0.86
Grounding Bar Stand Off	4.00 ea	0.500 mh / ea	12.58 /ea	50.33	2.00
MULTI CONDUCTOR CABLE					
METAL CLAD POWER CABLE					
2/C Copper MC Cable w/Grnd #12 (120V)	45.00 lf	0.024 mh / lf	855.40 /m	38.49	1.09
2/C Copper MC Cable w/Grnd #12 (277v)	60.00 lf	0.024 mh / lf	855.40 /m	51.32	1.46
METAL CLAD CONNECTORS					
3/8 BX/MC CONNECTOR	6.00 ea	0.086 mh / ea	62.34 /c	3.74	0.51
3/8 BX/MC CONNECTOR	6.00 ea	0.086 mh / ea	62.34 /c	3.74	0.51
COMMUNICATIONS CABLE					
Coax Cable AB 1770-CG	120.00 lf	0.011 mh / lf	146.71 /m	17.60	1.37
BELDEN CABLE					
BELDEN 1032A #18 1PR S	1,500.00 lf	0.009 mh / lf	394.52 /m	591.78	12.86
BELDEN 1032A #18 1PR S	120.00 lf	0.009 mh / lf	394.52 /m	47.34	1.03
BELDEN 1069A #16 2PR S	50.00 lf	0.009 mh / lf	1,470.00 /m	73.50	0.43
BELDEN 1069A #16 2PR S	20.00 lf	0.009 mh / lf	1,470.00 /m	29.40	0.17
FLUORESCENT FIXTURES					
FLUORESCENT FIXTURES					
4' LED Fixture - J1	3.00 ea	1.714 mh / ea	- /q	-	5.14
HID FIXTURES					
METAL HALIDE FIXTURES					
LED Wall-Pak - W2	3.00 ea	2.857 mh / ea	- /q	-	8.57
ROADWAY FIXTURES					
POLES STEEL,ALUM,FBRGLASS					
STEEL POLE 25'	1.00 ea	6.286 mh / ea	- /q	-	6.29
POLE ACCESSORIES					
LIGHT ARM 6"	1.00 ea	2.286 mh / ea	- /q	-	2.29
POLE HEADS					
LED POLE HEAD	1.00 ea	4.286 mh / ea	- /q	-	4.29
FIXTURE ACCESSORIES					
FIXTURES ACCESSORIES					
15' Gripper	30.00 ea	0.071 mh / ea	7.72 /ea	231.54	2.14
DEVICES					
DUPLEX RECEPTCLES					
DPLX 20/3 GFCI	3.00 ea	0.286 mh / ea	1,857.80 /c	55.73	0.86
SWITCHES					
20A E-STOP	1.00 ea	0.286 mh / ea	3,682.35 /c	36.82	0.29

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
EQUIPMENT CONNECTION					
MISC. CONNECTIONS					
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	2.00 ea	0.929 mh / ea	-	-	1.86
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
EQPT. CONN	1.00 ea	0.929 mh / ea	-	-	0.93
DATA EQUIPMENT					
DATA CABLE					
4PR CAT5/5 24GA WHITE CABLE	1,000.00 lf	0.011 mh / lf	301.35 /m	301.35	10.57
4PR CAT5/5 24GA WHITE CABLE	120.00 lf	0.011 mh / lf	301.35 /m	36.16	1.27



October 7, 2021

Prepared by

Matthew Bole
 (469) 600-5364
 matthew.bole@cummins.com

We are pleased to provide you this quotation based on your inquiry.

Item	Description	Qty
1	CXT Series Transfer Switch with PowerCommand Control: 400A Voltage-480 Volts AC Application-Utility to Genset Transfer Switch-Onan, PwrCmd, 400 Amp Cabinet-Type 4X Stainless Cabinet-Wall Mounting Transfer Switch Cable Lugs- Mechanical, 2-600 MCM Frequency-60 Hz Integrated High Accuracy Power Quality Metering Listing-UL 1008/CSA Certification PC80 Control Packing-Wooden Crate Poles-4 (Switched Neutral) Standard Customer I/O System-3 Phase, 4-W (Solid or Switched Neutral) Transfer Mode-In-Phase Transition UL1008 3-Cycle Withstand ratings Transfer Switch Warranty-2 Year Comprehensive	1
2	400A Service Entrance Rated Dual Purpose Docking Station NEMA 4X Per Plans	1

Original Proposal: \$40,000

(-) Credit: \$40,000

(+) Cancellation Fee's: \$21,908

(+) New ATS and Docking Station with Startup Total: \$37,108

TOTAL: \$ 59,016.00

Quote value does not include any tax.

NOTES:

- Current Submittal Lead Time: **2-4** weeks
- Current Production Lead Time *(after receipt of approved submittal and accepted PO)*:
 - Transfer Switch(es): **12-16** weeks
- Proposal based upon supplied **E-mail** documents dated **7/28/2021** only.
- Price quoted is F.O.B. factory with freight allowed to the first U.S. destination.
- Price does not include any applicable taxes unless listed above.
- All ship loose items installed by others.
- Unloading, installation, and fuel are not included and will be the responsibility of others.
- **Warranty:**
 Cummins 2-year warranty begins at the successful completion of startup and testing in lieu of acceptance or substantial completion.
- **Startup & Training:**
 - Providing Cummins standard startup and the specific testing listed above only. All other testing including NETA testing is provided by others.
 - Our proposal includes **1** trips during normal business hours to complete the onsite services listed above. If additional trips or after-hours trips are required, additional cost will be incurred.



- Training for maintenance personnel will be concurrent at time of startup unless otherwise noted.
- No videotaping is included with this quotation. All taping is supplied by others.
- **PMA:**
Generator Maintenance Agreement is not included and will be negotiated directly with the owner once equipment has been successfully started up and tested.
- *NOTICE: As a result of the outbreaks of the disease COVID-19 arising from the novel coronavirus, temporary delays in delivery, labor, or services from Cummins and its sub-suppliers or subcontractors may occur. Among other factors, Cummins' delivery is subject to correct and punctual supply from our sub-suppliers or subcontractors, and Cummins reserves the right to make partial deliveries or modify its labor or service. While Cummins shall make every commercially reasonable effort to meet the delivery, service, or completion described herein, such date(s) is(are) subject to change.*

Please feel free to contact me if you require any additional information; or if you have any further questions or concerns that I may be of assistance with.

Thank you for choosing Cummins.

Submitted by:

Matthew Bole, Commercial Power Generation Sales Representative
matthew.bole@cummins.com
(469) 600-5364

SUBMITTALS. An order for the equipment covered by this quotation will be accepted on a hold for release basis. Your order will not be released and scheduled for production until written approval to proceed is received in our office. Such submittal approval shall constitute acceptance of the terms and conditions of this quotation unless the parties otherwise agree in writing.

THERE ARE ADDITIONAL CONTRACT TERMS AND CONDITIONS ATTACHED TO THIS QUOTATION, INCLUDING LIMITATIONS OF WARRANTIES AND LIABILITIES, WHICH ARE EXPRESSLY INCORPORATED HEREIN. BY ACCEPTING THIS QUOTATION, CUSTOMER ACKNOWLEDGES THAT THE CONTRACT TERMS AND CONDITIONS HAVE BEEN READ, FULLY UNDERSTOOD AND ACCEPTED.

Authorized Signature

Date

Company Name

Printed Name & Title

Purchase Order No

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TERMS AND CONDITIONS FOR SALE OF POWER GENERATION EQUIPMENT

These Terms and Conditions for Sale of Power Generation Equipment, together with the Quote, Sales Order, and/or Credit Application on the front side or attached hereto, are hereinafter referred to as this "Agreement" and shall constitute the entire agreement between the customer identified in the quote ("Customer") and Cummins Southern Plains LLC ("Cummins") and supersede any previous representation, statements, agreements or understanding (oral or written) between the parties with respect to the subject matter of this Agreement. No prior inconsistent course of dealing, course of performance, or usage of trade, if any, constitutes a waiver of, or serves to explain or interpret, the Terms and Conditions set forth in this Agreement. Electronic transactions between Customer and Cummins will be solely governed by the Terms and Conditions of this Agreement, and any terms and conditions on Customer's website or other internet site will be null and void and of no legal effect on Cummins. In the event Customer delivers, references, incorporates by reference, or produces any purchase order or document, any terms and conditions related thereto shall be null and void and of no legal effect on Cummins.

SCOPE

Cummins shall supply power generation equipment and any related parts, materials and/or services expressly identified in this Agreement (collectively, "Equipment"). No additional services, parts or materials are included in this Agreement unless agreed upon by the parties in writing. The Quote is based upon the assumption that the Equipment will be reasonably available and is not subject to unusual market fluctuations. In the event of unagreed and/or unanticipated price fluctuations and/or shortage of materials ("Fluctuations"), Cummins reserves the right to adjust the estimated delivery time and/or the price to reflect such Fluctuations. Subject to the foregoing, any Quote is valid for 60 days and the price is firm provided drawings are approved and returned within 60 days after submission and ship date is not extended beyond published lead times. Any delays may result in escalation charges. A Sales Order for Equipment is accepted on hold for release basis. The Sales Order will not be released and scheduled for production until written approval to proceed is received. A Quote is limited to plans and specifications section set forth in the Quote. No other sections shall apply. Additional requirements for administrative items may require additional costs. The Quote does not include off unit wiring, off unit plumbing, offloading, rigging, installation, exhaust insulation or fuel, unless otherwise stated.

SHIPPING; DELIVERY; DELAYS

Unless otherwise agreed in writing by the parties, Equipment shall be delivered FOB origin, freight prepaid to first destination. For consumer and mobile products, freight will be charged to Customer. Unless otherwise agreed to in writing by the parties, packaging method, shipping documents and manner, route and carrier and delivery shall be as Cummins deems appropriate. Cummins may deliver in installments. A reasonable storage fee, as determined by Cummins, may be assessed if delivery of the Equipment is delayed, deferred, or refused by Customer. Offloading, handling, and placement of Equipment and crane services are the responsibility of Customer and not included unless otherwise stated. All shipments are made within normal business hours, Monday through Friday. Any delivery, shipping, installation, or performance dates indicated in this Agreement are estimated and not guaranteed. Further, delivery time is subject to confirmation at time of order and will be in effect after engineering drawings have been approved for production. Cummins shall use best efforts to meet estimated dates, but shall not be liable to customer or any third party for any delay in delivery, shipping, installation, or performance, however occasioned, including any delays in performance that result from Fluctuations or directly or indirectly from acts of Customer or any unforeseen event, circumstance, or condition beyond Cummins' reasonable control including, but not limited to, acts of God, actions by any government authority, civil strife, fires, floods, windstorms, explosions, riots, natural disasters, embargos, wars, strikes or other labor disturbances, civil commotion, terrorism, sabotage, late delivery by Cummins' suppliers, fuel or other energy shortages, or an inability to obtain necessary labor, materials, supplies, equipment or manufacturing facilities.

AS A RESULT OF THE OUTBREAK OF THE DISEASE COVID-19 ARISING FROM THE NOVEL CORONAVIRUS, TEMPORARY DELAYS IN DELIVERY, LABOUR OR SERVICES FROM CUMMINS AND ITS SUB-SUPPLIERS OR SUBCONTRACTORS MAY OCCUR. AMONG OTHER FACTORS, CUMMINS' DELIVERY OBLIGATIONS ARE SUBJECT TO CORRECT AND PUNCTUAL SUPPLY FROM OUR SUB-SUPPLIERS OR SUBCONTRACTORS, AND CUMMINS RESERVES THE RIGHT TO MAKE PARTIAL DELIVERIES OR MODIFY ITS LABOUR OR SERVICE. WHILE CUMMINS SHALL MAKE EVERY COMMERCIALY REASONABLE EFFORT TO MEET THE DELIVERY, SERVICE OR COMPLETION OBLIGATIONS SET FORTH HEREIN, SUCH DATES ARE SUBJECT TO CHANGE.

PAYMENT TERMS; CREDIT; RETAINAGE

Unless otherwise agreed to by the parties in writing and subject to credit approval by Cummins, payments are due thirty (30) days from the date of the invoice. If Customer does not have approved credit with Cummins, as solely determined by Cummins, payments are due in advance or at the time of supply of the Equipment. If payment is not received when due, in addition to any rights Cummins may have at law, Cummins may charge Customer eighteen percent (18%) interest annually on late payments, or the maximum amount allowed by law. Customer agrees to pay Cummins' costs and expenses (including reasonable attorneys' fees) related to Cummins' enforcement and collection of unpaid invoices, or any other enforcement of this Agreement by Cummins. Retainage is not acceptable nor binding, unless required by statute or accepted and confirmed in writing by Cummins prior to shipment.

TAXES; EXEMPTIONS

Unless otherwise stated, the Quote excludes all applicable local, state and federal sales and/or use taxes, permits and licensing. Customer must provide a valid resale or exemption certificate prior to shipment of Equipment or applicable taxes will be added to the invoice.

TITLE; RISK OF LOSS

Unless otherwise agreed in writing by the parties, title and risk of loss for the Equipment shall pass to Customer upon delivery of the Equipment by Cummins to freight carrier or to Customer at pickup at Cummins' facility.

INSPECTION AND ACCEPTANCE

Customer shall inspect the Equipment upon delivery, before offloading, for damage, defects, and shortage. Any and all claims which could have been discovered by such inspection shall be deemed absolutely and unconditionally waived unless noted by Customer on the bill of lading. Where Equipment is alleged to be non-conforming or defective, written notice of defect must be given to Cummins within three (3) days from date of delivery after which time Equipment shall be deemed accepted. Cummins shall have a commercially reasonable period of time in which to correct such non-conformity or defect. If non-conformity or defect is not eliminated to Customer's satisfaction, Customer may reject the Equipment (but shall protect the Equipment until returned to Cummins) or allow Cummins another opportunity to undertake corrective action. In the event startup of the Equipment is included in the services, acceptance shall be deemed to have occurred upon successful startup.

LIEN; SECURITY AGREEMENT

Customer agrees that Cummins retains all statutory lien rights. To secure payment, Customer grants Cummins a Purchase Money Security Interest in the Equipment. If any portion of the balance is due to be paid following delivery, Customer agrees to execute and deliver such security agreement, financing statements, deed of trust and such other documents as Cummins may request from time to time in order to permit Cummins to obtain and maintain a perfected security interest in the Equipment; or in the alternative, Customer grants Cummins a power of attorney to execute and file all financing statements and other documents needed to perfect this security interest. Cummins may record this Agreement, bearing Customer's signature, or copy of this Agreement in lieu of a UCC-1, provided that it shall not constitute an admission by Cummins of the applicability or non-applicability of the UCC nor shall the failure to file this form or a UCC-1 in any way affect, alter, or invalidate any term, provision, obligation or liability under this Agreement. The security interest shall be superseded if Customer and Cummins enter into a separate security agreement for the Equipment. Prior to full payment of the balance due, Equipment will be kept at Customer's location noted in this Agreement, will not be moved without prior notice to Cummins, and is subject to inspection by Cummins at all reasonable times.

CANCELLATION; CHARGES

Orders placed with and accepted by Cummins may not be cancelled except with Cummins' prior written consent. If Customer seeks to cancel all or a portion of an order placed pursuant to this Agreement, and Cummins accepts such cancellation in whole or in part, Customer shall be assessed cancellation charges as follows: (i) 10% of total order price if cancellation is received in Cummins' office after Cummins has provided submittals and prior to releasing equipment to be manufactured; (ii) 25% of total order price if cancellation is received in Cummins' office after receipt of submittal release to order, receipt of a purchase order for a generator already on order with the factory, or is asked to make any hardware changes to the equipment already on order with the factory; (iii) 50% of total order price if cancellation is received in Cummins' office 60 or fewer days before the scheduled shipping date on the order; or (iv) 100% of total order price if cancellation is received in Cummins' office after the equipment has shipped from the manufacturing plant.

MANUALS

Unless otherwise stated, electronic submittals and electronic operation and maintenance manuals will be provided, and print copies may be available upon Customer's request at an additional cost.

TRAINING; START UP SERVICES; INSTALLATION

Startup services, load bank testing, and owner training are not provided unless otherwise stated. Site startup will be subject to the account being current and will be performed during regular Cummins business hours, Monday to Friday. Additional charges may be added for work requested to be done outside standard business hours, on weekends, or holidays. One visit is allowed unless specified otherwise in the Quote. A minimum of two-week prior notice is required to schedule site startups and will be subject to prior commitments and equipment and travel availability. A signed site check sheet confirming readiness will be required, and Cummins personnel may perform an installation audit prior to the startup being completed. Any issues identified by the installation audit shall be corrected at the Customer's expense prior to the start-up. Portable load banks for site test (if offered in the Quote) are equipped with only 100 feet of cable. Additional lengths may be arranged at an extra cost. Cummins is not responsible for any labor or materials charged by others associated with start-up and installation of Equipment, unless previously agreed upon in writing. Supply of fuel for start-up and/or testing, fill-up of tank after start up, or change of oil is not included unless specified in the Quote. All installation/execution work at the site including, but not limited to: civil, mechanical, electrical, supply of wall thimbles, exhaust extension pipe, elbows, hangers, expansion joints, insulation and cladding materials, fuel/oil/cooling system piping, air ducts, and louvers/dampers is not included unless specified in the Quote. When an enclosure or sub-base fuel tank (or both) are supplied, the openings provided for power cable and fuel piping entries, commonly referred to as "stub-ups", must be sealed at the site by others before commissioning. All applications, inspections and/or approvals by authorities are to be arranged by Customer.

MANUFACTURER'S WARRANTY

Equipment purchased hereunder is accompanied by an express written manufacturer's warranty ("Warranty") and, except as expressly provided in this Agreement, is the only warranty offered on the Equipment. A copy of the Warranty is available upon request. While this Agreement and the Warranty are intended to be read and applied in conjunction, where this Agreement and the Warranty conflict, the terms of the Warranty shall prevail.

WARRANTY PROCEDURE



Prior to the expiration of the Warranty, Customer must give notice of a warrantable failure to Cummins and deliver the defective Equipment to a Cummins location or other location authorized and designated by Cummins to make the repairs during regular business hours. Cummins shall not be liable for towing charges, maintenance items such as oil filters, belts, hoses, etc., communication expenses, meals, lodging, and incidental expenses incurred by Customer or employees of Customer, "downtime" expenses, overtime expenses, cargo damages and any business costs and losses of revenue resulting from a warrantable failure.

LIMITATIONS ON WARRANTIES THE REMEDIES PROVIDED IN THE WARRANTY AND THIS AGREEMENT ARE THE SOLE AND EXCLUSIVE WARRANTIES AND REMEDIES PROVIDED BY CUMMINS TO THE CUSTOMER UNDER THIS AGREEMENT. EXCEPT AS SET OUT IN THE WARRANTY AND THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY LAW, CUMMINS EXPRESSLY DISCLAIMS ALL OTHER REPRESENTATIONS, WARRANTIES, ENDORSEMENTS, AND CONDITIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY STATUTORY OR COMMON LAW IMPLIED REPRESENTATIONS, WARRANTIES AND CONDITIONS OF FITNESS FOR A PURPOSE OR MERCHANTABILITY.

The limited warranty does not cover Equipment failures resulting from: (a) inappropriate use relative to designated power rating; (b) inappropriate use relative to application guidelines; (c) inappropriate use of an EPA-SE application generator set relative to EPA's standards; (d) normal wear and tear; (e) improper and/or unauthorized installation; (f) negligence, accidents, or misuse; (g) lack of maintenance or unauthorized or improper repair; (h) noncompliance with any Cummins published guideline or policy; (i) use of improper or contaminated fuels, coolants, or lubricants; (j) improper storage before and after commissioning; (k) owner's delay in making Equipment available after notification of potential Equipment problem; (l) replacement parts and accessories not authorized by Cummins; (m) use of battle short mode; (n) owner or operator abuse or neglect such as: operation without adequate coolant, fuel, or lubricants; over fueling; over speeding; lack of maintenance to lubricating, fueling, cooling, or air intake systems; late servicing and maintenance; improper storage, starting, warm-up, running, or shutdown practices, or for progressive damage resulting from a defective shutdown or warning device; or (o) damage to parts, fixtures, housings, attachments and accessory items that are not part of the generating set.

INDEMNITY Customer shall indemnify, defend and hold harmless Cummins from and against any and all claims, actions, costs, expenses, damages and liabilities, including reasonable attorneys' fees, brought against or incurred by Cummins related to or arising out of this Agreement or the Equipment supplied under this Agreement (collectively, the "Claims"), where such Claims were caused or contributed to by, in whole or in part, the acts, omissions, fault or negligence of the Customer. Customer shall present any Claims covered by this indemnity to its insurance carrier unless Cummins directs that the defense will be handled by Cummins' legal counsel at Customer's expense.

LIMITATION OF LIABILITY NOT WITHSTANDING ANY OTHER TERM OF THIS AGREEMENT, IN NO EVENT SHALL CUMMINS, ITS OFFICERS, DIRECTORS, EMPLOYEES, OR AGENTS BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING WITHOUT LIMITATION DOWNTIME, LOSS OF PROFIT OR REVENUE, LOSS OF DATA, LOSS OF OPPORTUNITY, DAMAGE TO GOODWILL, ENHANCED DAMAGES, MONETARY REQUESTS RELATING TO RECALL EXPENSES AND REPAIRS TO PROPERTY, AND/OR DAMAGES CAUSED BY DELAY) IN ANY WAY RELATED TO OR ARISING FROM CUMMINS' SUPPLY OF EQUIPMENT UNDER THIS AGREEMENT OR THE USE OR PERFORMANCE OF EQUIPMENT SUPPLIED UNDER THIS AGREEMENT. IN NO EVENT SHALL CUMMINS' LIABILITY TO CUSTOMER OR ANY THIRD PARTY CLAIMING DIRECTLY THROUGH CUSTOMER OR ON CUSTOMER'S BEHALF UNDER THIS AGREEMENT EXCEED THE TOTAL COST OF EQUIPMENT SUPPLIED BY CUMMINS UNDER THIS AGREEMENT GIVING RISE TO THE CLAIM. BY ACCEPTANCE OF THIS AGREEMENT, CUSTOMER ACKNOWLEDGES CUSTOMER'S SOLE REMEDY AGAINST CUMMINS FOR ANY LOSS SHALL BE THE REMEDY PROVIDED HEREIN EVEN IF THE EXCLUSIVE REMEDY UNDER THE WARRANTY IS DEEMED TO HAVE FAILED OF ITS ESSENTIAL PURPOSE.

DEFAULT; REMEDIES

Customer shall be in breach and default if: (a) any of the payments or amounts due under this Agreement are not paid; (b) Customer fails to comply, perform, or makes any misrepresentation relating to any of the Customer's obligations or covenants under this Agreement; or (c) prior to full payment of the balance due, Customer ceases to do business, becomes insolvent, makes an assignment for the benefit of its creditors, appoints a receiver, commences an action for dissolution or liquidation, or becomes subject to bankruptcy proceedings, or the Equipment is attached, levied upon, seized under legal process, is subjected to a lien or encumbrance, or transferred by operation of law or otherwise to anyone other than Cummins. Upon the occurrence of any event of Customer's default, Cummins, at its sole option and without notice, shall have the right to exercise concurrently or separately any one or all of the following remedies, which shall be cumulative and not alternative: (a) to declare all sums due, and to become due, under this Agreement immediately due and payable; (b) to commence legal proceedings, including collection actions and specific performance proceedings, to enforce performance by Customer of any and all provisions of this Agreement, and to be awarded damages or injunctive relief for the Customer's breach; (c) to require the Customer to deliver the Equipment to Cummins' branch specified on the face of this Agreement; (d) to exercise one or more of the rights and remedies available to a secured party under applicable law; and (e) to enter, without notice or liability or legal process, onto any premises where the Equipment may be located, using force permitted by law, and there to disconnect, remove and repossess the Equipment, the Customer having waived further right to possession after default. A waiver of any event of default by Cummins shall not be a waiver as to any other or subsequent default.

CUSTOMER REPRESENTATIONS; RELIANCE

Customer is responsible for obtaining, at its cost, permits, import licenses, and other consents in relation to the Equipment, and if requested by Cummins, Customer shall make these permits, licenses, and consents available to Cummins prior to shipment. Customer represents that it is familiar with the Equipment and understands operating instructions and agrees to perform routine maintenance services. Until the balance is paid in full, Customer shall care for the Equipment properly, maintain it in good operating condition, repair and appearance; and Customer shall use it safely and within its rated capacity and only for purpose it was designed. Even if Customer's purchase of Equipment from Cummins under this Agreement is based, in whole or in part, on specifications, technical information, drawings, or written or verbal advice of any type from third parties, Customer has sole responsibility for the accuracy, correctness and completeness of such specifications, technical information, drawings, or advice. Cummins make no warranties or representations respecting the accuracy, correctness and completeness of any specifications, technical information, drawings, advice or other information provided by Cummins. Cummins makes no warranties or representations respecting the suitability, fitness for intended use, compatibility, integration or installation of any Equipment supplied under this Agreement. Customer has sole responsibility for intended use, for installation and design and performance where it is part of a power, propulsion, or other system. Limitation of warranties and remedies and all disclaimers apply to all such technical information, drawings, or advice. Customer acknowledges and agrees by accepting delivery of the Equipment that the Equipment purchased is of the size, design, capacity and manufacture selected by the Customer, and that Customer has relied solely on its own judgment in selecting the Equipment.

CONFIDENTIALITY

Each party shall keep confidential any information received from the other that is not generally known to the public and at the time of disclosure, would reasonably be understood by the receiving party to be proprietary or confidential, whether disclosed in oral, written, visual, electronic, or other form, and which the receiving party (or agents) learns in connection with this Agreement including, but not limited to: (a) business plans, strategies, sales, projects and analyses; (b) financial information, pricing, and fee structures; (c) business processes, methods, and models; (d) employee and supplier information; (e) specifications; and (f) the terms and conditions of this Agreement. Each party shall take necessary steps to ensure compliance with this provision by its employees and agents.

GOVERNING LAW AND JURISDICTION

This Agreement and all matters arising hereunder shall be governed by and construed in accordance with the laws of the State of Indiana without giving effect to any choice or conflict of law provision. The parties agree that the courts of the State of Indiana shall have exclusive jurisdiction to settle any dispute or claim arising in connection with this Agreement.

INSURANCE

Upon Customer's request, Cummins will provide to Customer a Certificate of Insurance evidencing Cummins' relevant insurance coverage.

ASSIGNMENT

This Agreement shall be binding on the parties and their successors and assigns. Customer shall not assign this Agreement without the prior written consent of Cummins.



INTELLECTUAL PROPERTY

Any intellectual property rights created by either party, whether independently or jointly, in the course of the performance of this Agreement or otherwise related to Cummins pre-existing intellectual property or subject matter related thereto, shall be Cummins' property. Customer agrees to assign, and does hereby assign, all right, title, and interest to such intellectual property to Cummins. Any Cummins pre-existing intellectual property shall remain Cummins' property. Nothing in this Agreement shall be deemed to have given Customer a license or any other rights to use any of the intellectual property rights of Cummins.

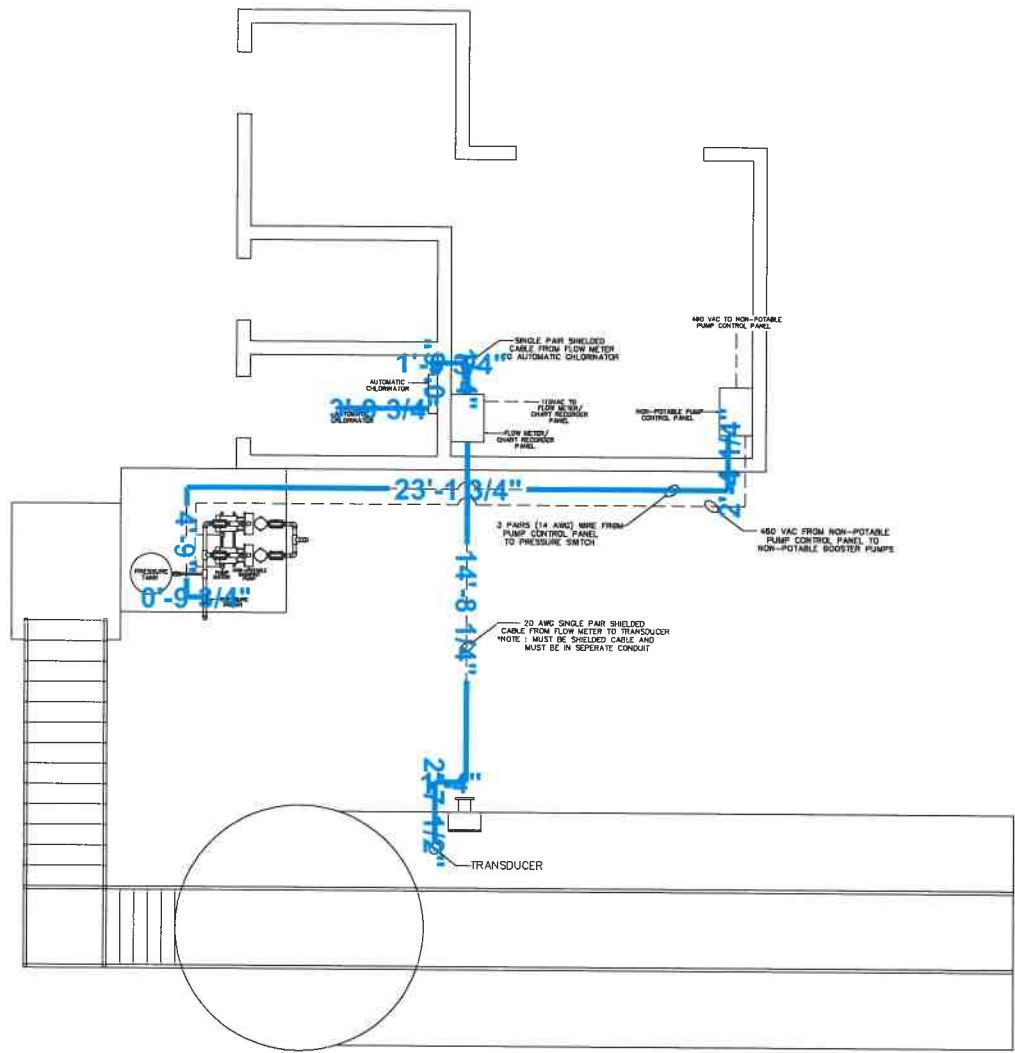
MISCELLANEOUS

Cummins shall be an independent contractor under this Agreement. All notices under this Agreement shall be in writing and be delivered personally, mailed via first class certified or registered mail, or sent by a nationally recognized express courier service to the addresses set forth in this Agreement. No amendment of this Agreement shall be valid unless it is writing and signed by the parties hereto. Failure of either party to require performance by the other party of any provision hereof shall in no way affect the right to require such performance at any time thereafter, nor shall the waiver by a party of a breach of any of the provisions hereof constitute a waiver of any succeeding breach. Any provision of this Agreement that is invalid or unenforceable shall not affect the validity or enforceability of the remaining terms hereof. These terms are exclusive and constitute entire agreement. Customer acknowledges that the provisions were freely negotiated and bargained for and Customer has agreed to purchase of the Equipment pursuant to these terms and conditions. Acceptance of this Agreement is expressly conditioned on Customer's assent to all such terms and conditions. Neither party has relied on any statement, representation, agreement, understanding, or promise made by the other except as expressly set out in this Agreement. In the event of a conflict in the terms of this Agreement with any Customer terms or conditions or agreement (whether referenced in an order submitted by Customer as the terms that govern the purchase of the Equipment or otherwise) or any terms set forth in any other documentation of Customer with respect to the Equipment, the terms of this Agreement shall govern. Cummins may incur additional charges which will be passed on to the Customer, as applicable.

COMPLIANCE

Customer shall comply with all laws applicable to its activities under this Agreement, including, without limitation, any and all applicable federal, state, and local anti-bribery, environmental, health, and safety laws and regulations then in effect. Customer acknowledges that the Equipment, and any related technology that are sold or otherwise provided hereunder may be subject to export and other trade controls restricting the sale, export, re-export and/or transfer, directly or indirectly, of such Equipment or technology to certain countries or parties, including, but not limited to, licensing requirements under applicable laws and regulations of the United States, the United Kingdom and other jurisdictions. It is the intention of Cummins to comply with these laws, rules, and regulations. Any other provision of this Agreement to the contrary notwithstanding, Customer shall comply with all such applicable all laws relating to the cross-border movement of goods or technology, and all related orders in effect from time to time, and equivalent measures. Customer shall act as the importer of record with respect to the Equipment and shall not resell, export, re-export, distribute, transfer, or dispose of the Equipment or related technology, directly or indirectly, without first obtaining all necessary written permits, consents, and authorizations and completing such formalities as may be required under such laws, rules, and regulations. In addition, Cummins has in place policies not to distribute its products for use in certain countries based on applicable laws and regulations including but not limited to UN, U.S., UK, and European Union regulations. Customer undertakes to perform its obligations under this Agreement with due regard to these policies. Strict compliance with this provision and all laws of the territory pertaining to the importation, distribution, sales, promotion and marketing of the Equipment is a material consideration for Cummins entering into this Agreement with Customer and continuing this Agreement for its term. Customer represents and warrants that it has not and shall not, directly or through any intermediary, pay, give, promise to give or offer to give anything of value to a government official or representative, a political party official, a candidate for political office, an officer or employee of a public international organization or any other person, individual or entity at the suggestion, request or direction or for the benefit of any of the above-described persons and entities for the purposes of inducing such person to use his influence to assist Cummins in obtaining or retaining business or to benefit Cummins or any other person in any way, and will not otherwise breach any applicable laws relating to anti-bribery. Any failure by Customer to comply with these provisions will constitute a default giving Cummins the right to immediate termination of this Agreement and/or the right to elect not to recognize the warranties associated with the Equipment. Customer shall accept full responsibility for any and all civil or criminal liabilities and costs arising from any breaches of those laws and regulations and will defend, indemnify, and hold Cummins harmless from and against any and all fines, penalties, claim, damages, liabilities, judgments, costs, fees, and expenses incurred by Cummins or its affiliates as a result of Customer's breach.

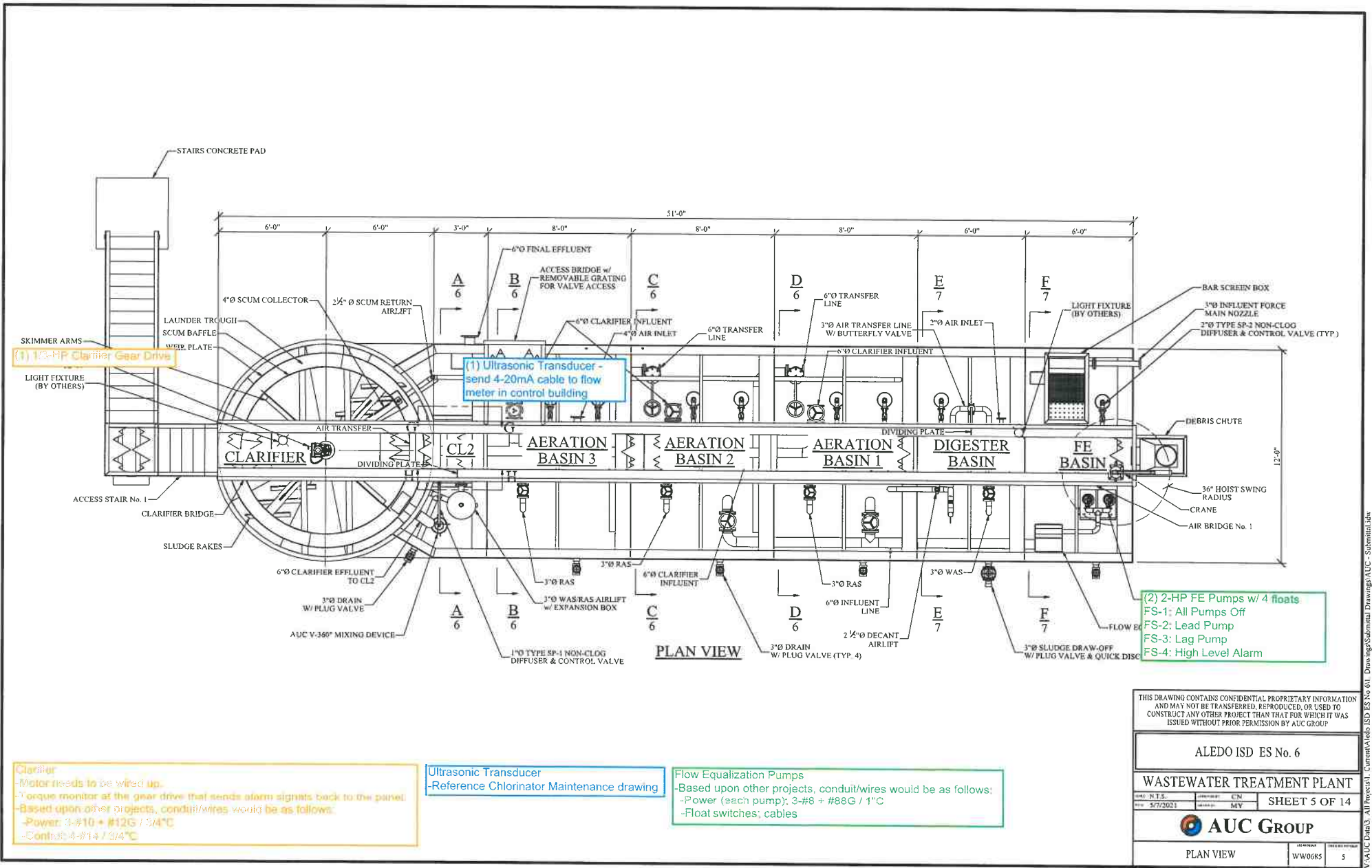
Check if this Agreement pertains to government work or facilities



FLOW MEASURING/NON-POTABLE EQUIPMENT
NTS



JOB:		Aledo ISD ES No. 6 WWTP	
DATE:	9/20/21	DRAWN BY:	DLS
JOB NUMBER:	CHLORINE		
SCALE:	NTS	SHEET NO.	1 OF 1



(1) 1/2-HP Clarifier Gear Drive

(1) Ultrasonic Transducer - send 4-20mA cable to flow meter in control building

(2) 2-HP FE Pumps w/ 4 floats
 FS-1: All Pumps Off
 FS-2: Lead Pump
 FS-3: Lag Pump
 FS-4: High Level Alarm

Clarifier
 -Motor needs to be wired up.
 -Torque monitor at the gear drive that sends alarm signals back to the panel.
 -Based upon other projects, conduit/wires would be as follows:
 -Power: 3-#10 + #12G / 5A°C
 -Control: 4-#14 / 5A°C

Ultrasonic Transducer
 -Reference Chlorinator Maintenance drawing

Flow Equalization Pumps
 -Based upon other projects, conduit/wires would be as follows:
 -Power (each pump): 3-#8 + #88G / 1°C
 -Float switches; cables

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC GROUP

ALEDO ISD ES No. 6

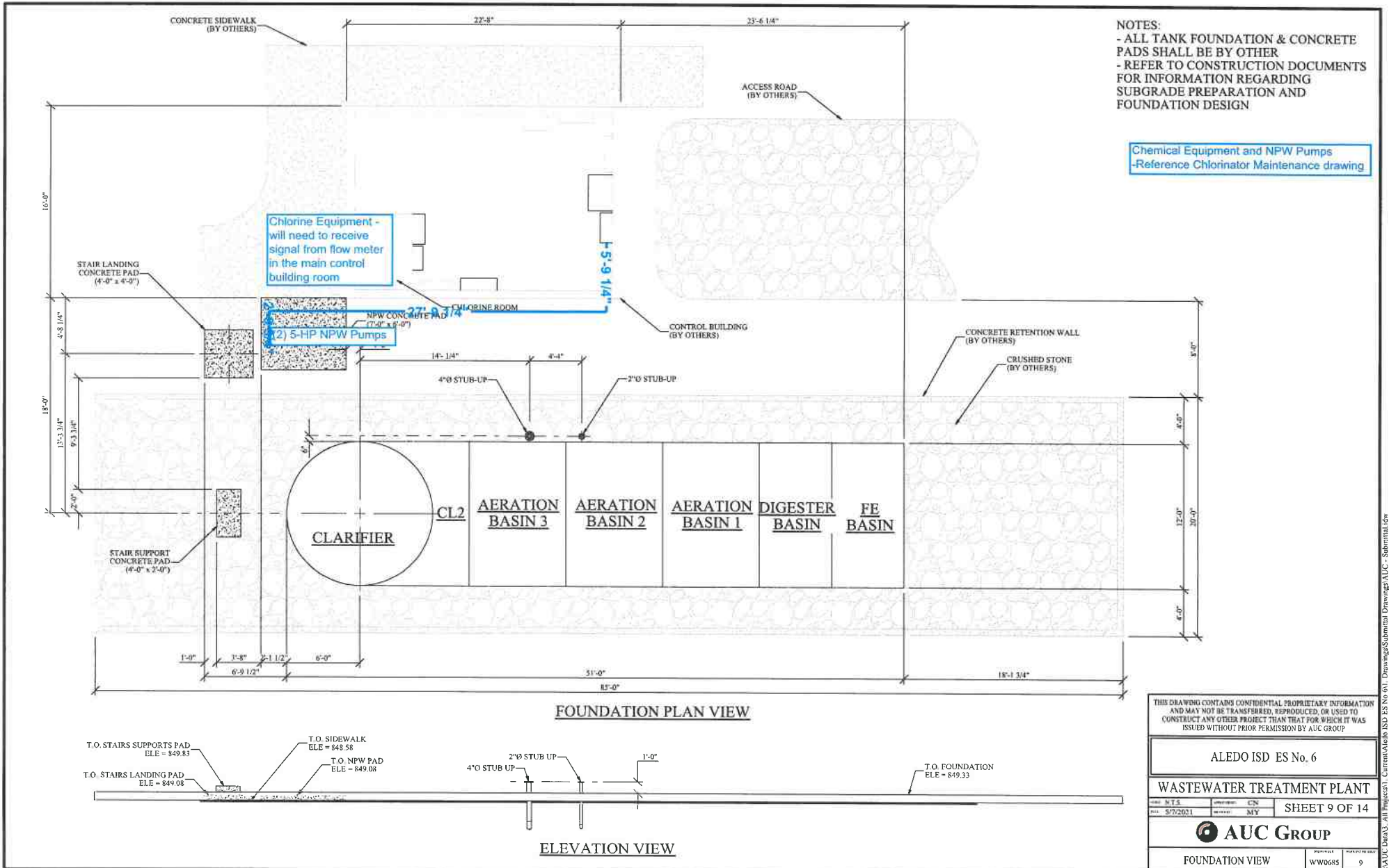
WASTEWATER TREATMENT PLANT

SHEET 5 OF 14

AUC GROUP

PLAN VIEW | WW0685 | 5

V:\AUC Draw3 - All Projects\1 - Current\Aledo ISD ES No. 6\1 - Drawings\Submittal Drawings\AUC - Submittal.dwg



NOTES:
 - ALL TANK FOUNDATION & CONCRETE PADS SHALL BE BY OTHER
 - REFER TO CONSTRUCTION DOCUMENTS FOR INFORMATION REGARDING SUBGRADE PREPARATION AND FOUNDATION DESIGN

Chemical Equipment and NPW Pumps
 -Reference Chlorinator Maintenance drawing

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC GROUP

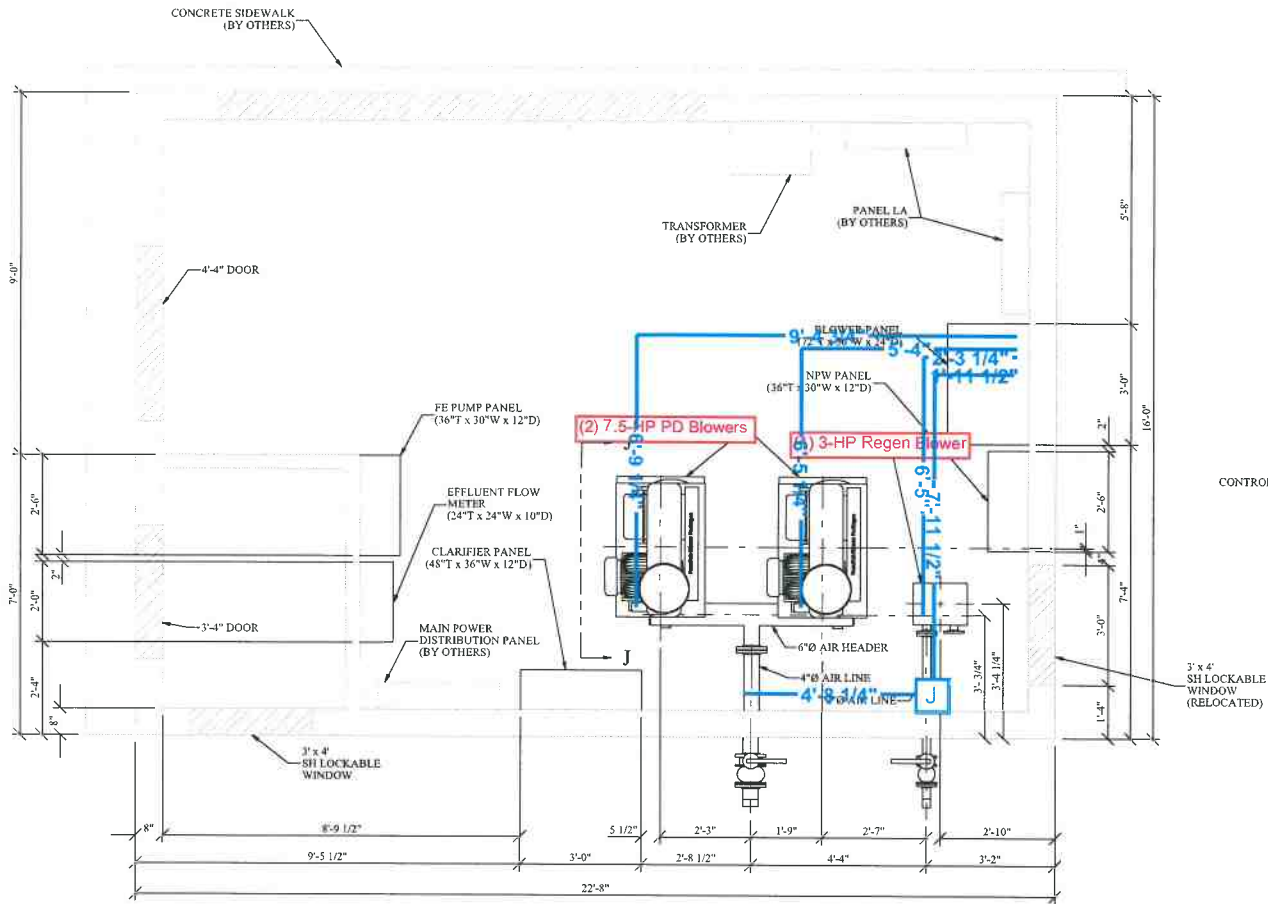
ALEDO ISD ES No. 6

WASTEWATER TREATMENT PLANT

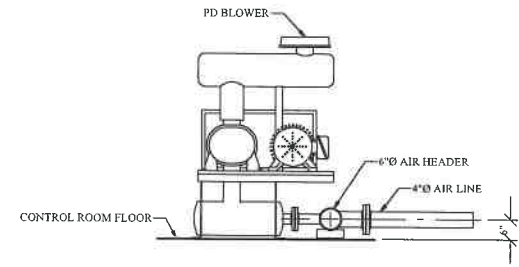
SHEET 9 OF 14

AUC GROUP

FOUNDATION VIEW



CONTROL BUILDING PLAN VIEW



SECTION J-J

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC GROUP

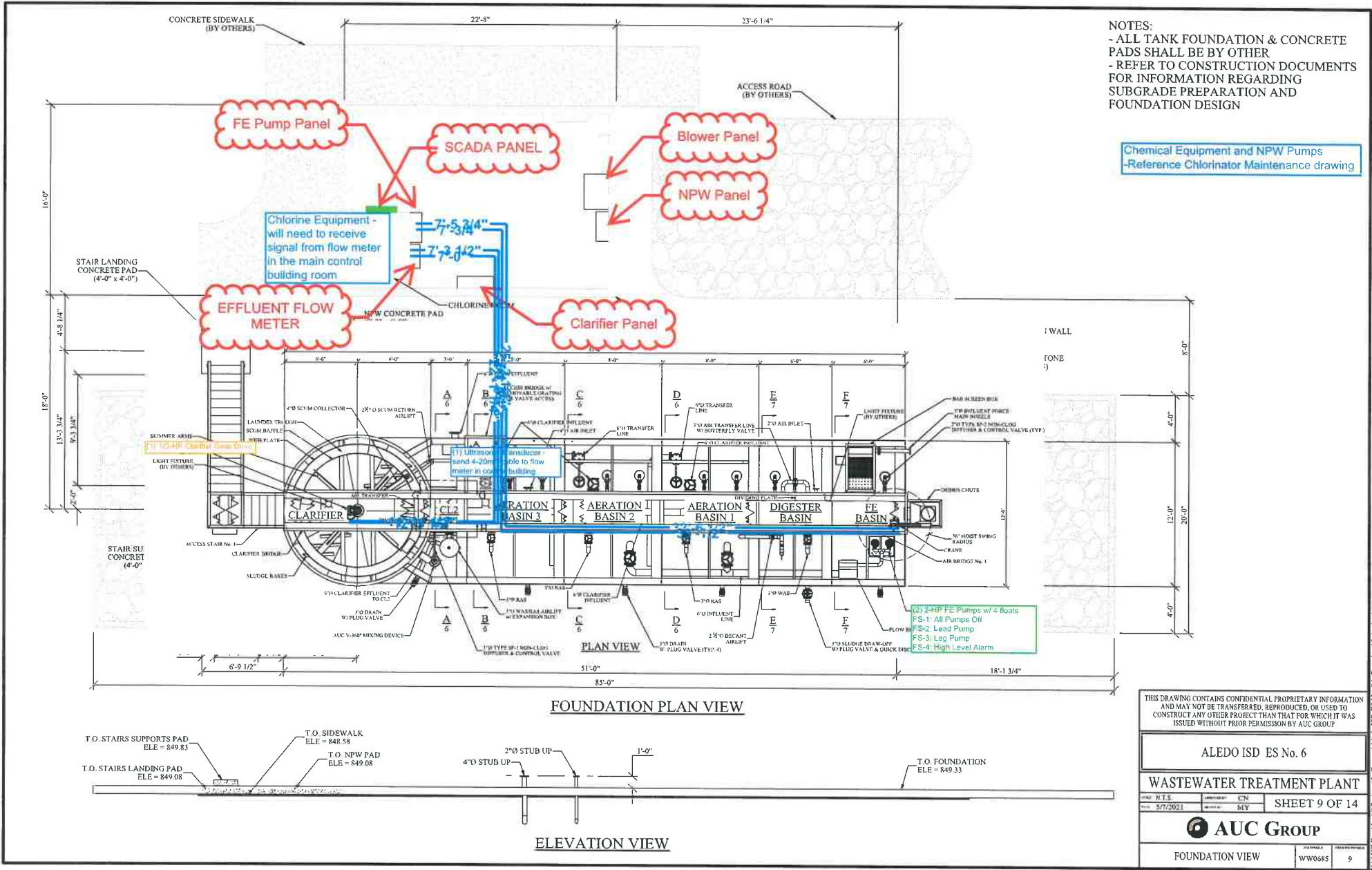
ALEDO ISD ES No. 6

WASTEWATER TREATMENT PLANT

DATE: N.T.S. PROJECT: CN SHEET 10 OF 14
 DATE: 5/7/2021 WORK: MY

AUC GROUP

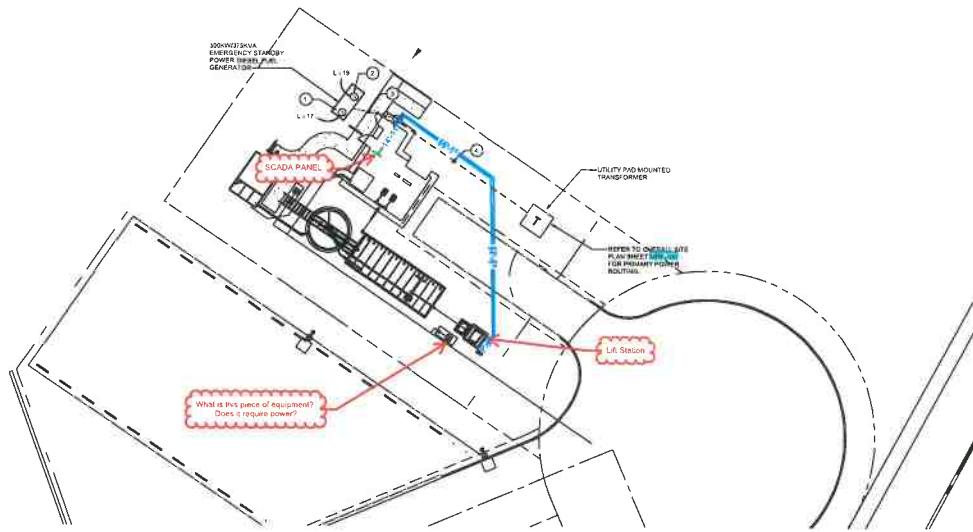
CONTROL BUILDING DETAIL DWG NO: WW0685 DRAWING NUMBER: 10



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC GROUP

ALEDO ISD ES No. 6			
WASTEWATER TREATMENT PLANT			
DATE: N.T.S.	DESIGNED BY: CN	SHEET 9 OF 14	
DATE: 5/7/2021	DATE: MY		
AUC GROUP			
FOUNDATION VIEW	DATE PLOTTED: WW0685	SCALE: 1" = 10'-0"	SHEET NUMBER: 9

V:\AUC Draw3 - All Projects\1. Current\Alelo ISD ES No. 6\1. Drawings\Submittal Drawings\AUC - Submittal.rvt



NOTES BY SYMBOL: "O"

- ① POWER FOR GENERATOR BATTERY CHARGER. COORDINATE ALL POWER REQUIREMENTS WITH GENERATOR PROVIDER.
- ② POWER FOR GENERATOR BLOOD-HEATER. COORDINATE ALL POWER REQUIREMENTS WITH GENERATOR PROVIDER.
- ③ REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E-401 FOR WIRE AND CONDUIT INFORMATION.
- ④ SECONDARY WIRELINE PROVIDER. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E-401 FOR EXACT REQUIREMENTS.

PLAN NORTH
TRUE NORTH
1 PARTIAL SITE PLAN - WASTEWATER TREATMENT PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

ALEDO ISD ELEMENTARY SCHOOL #6



25.10.2018
ANNEX 17X
ISSUED FOR BIDDING



PROJECT: ALEDO ISD		
DATE: 09/06/2018	PROJECT NUMBER: 2018	
DRAWING HISTORY		
No.	Description	DATE
1	CLASSIFICATION: IS	09/06/2018
ISSUED FOR BIDDING		

PARTIAL SITE PLAN -
WASTEWATER
TREATMENT PLAN -
ELECTRICAL

E-404



Cable Schedule

Spec No.	410117-E-001	Rev.	0
Project No.	41011y	Date	9/29/2021
Client	Town of Annetta	Issued For	Information
Project	Aledo ISD ES #6	By	FJU
Location	Aledo, TX	Checked:	

Rev.	Date	By	Chkd	Comments
0	09/29/21	FJU		Wastewater Cables For Information

Notes:
 1) REFER TO D-410117-E-100 FOR PANEL DRAWINGS.

Cable Number	Conduit Size	Conduit Number	Conductor Qty & Size	Ground Qty & Size	From	To	Wire Length	Wire	Wire	Notes	Rev.
							FT	Type	OD in		
			(16) #14		SCADA Panel	Lift Station Panel		THHN		All of the inputs that have Lift station in the description in the PTI drawings. I added 6 spares needed here. I suspect they may ask for level switch indication that I currently don't have based on the fact that they didn't supply a transmitter.	
			(14) #14		SCADA Panel	Pump Panel		THHN		All of the inputs that have FE in the descriptions in the PTI drawings.	
			(10) #14		SCADA Panel	Clarifier Panel		THHN		All of the inputs that have Clarifier in the descriptions in the PTI drawings.	
			(12) #14		SCADA Panel	Blower Panel		THHN		All of the inputs that have FE in the descriptions in the PTI drawings.	
			(8) #14		SCADA Panel	NWP Panel		THHN		All of the inputs that have FE in the descriptions in the PTI drawings.	
			(2) #12	(1) #12		SCADA Panel		THHN		Incoming 120VAC single phase 20A circuit	

WWTP Controls Wire and Cable Schedule

Project: Aledo ISD ES No. 6 WWTP

Conduit Size and Wire							Description	From	To
No.	Size	Power	Ground	Size	Control	Instrumentation			
1	3/4"	3-#14	#14	3/4"	4-#14		Clarifier Gear Drive	Clarifier Control Panel	Clarifier Drive Motor & Torque Switches
2	3/4"	3-#12	#12	3/4"	6-#14		Blower No. 1 (PD Blower)	Blower Control Panel	Blower No. 1 Motor
3	3/4"	3-#12	#12			Blower No. 2 (PD Blower)	Blower Control Panel	Blower No. 2 Motor	
4	3/4"	3-#14	#14			Blower No. 3 (Regen Blower)	Blower Control Panel	Blower No. 3 Motor	
5	3/4"	3-#14	#14	3/4"	4-#14		FE Pump No. 1	FE Pump Control Panel	FE Pump No. 1 Motor
6	3/4"	3-#14	#14			FE Pump No. 2	FE Pump Control Panel	FE Pump No. 2 Motor	
7				3/4"	Cable		FE Pump Controls	Terminal Box	FE Pump No. 1 Motor
8				3/4"	Cable		FE Pump Controls	Terminal Box	FE Pump No. 2 Motor
9	3/4"	3-#14	#12	3/4"	10-#14		FE Pump Float Signals + Pump Controls	FE Pump Control Panel	Terminal Box
10				3/4"		4-Float Cables	FE Pump Float Signals	Terminal Box	Floats
11			#12	3/4"		#20 TSP	Effluent Flow Transducer	Effluent Flow Meter	Ultrasonic Transducer
12			#12	3/4"		#20 TSP	Automatic Chlorinator	Effluent Flow Meter	Automatic Chlorinator
13	3/4"	3-#14	#14	3/4"	2-#14		NPW Pump No. 1	NPW Control Panel	NPW Pump No. 1 Motor
14	3/4"	3-#14	#14	3/4"	2-#14		NPW Pump No. 2	NPW Control Panel	NPW Pump No. 2 Motor
15				3/4"	6-#14		NPW Pressure Switches	NPW Control Panel	NPW Pressure Switches



Customer Quotation

Q2C Number: 43464018

Quote Number: 1

Change Order Rev Number: 11

Project Name: Aledo ISD Elementary School #6

Project Sub-Name:

Project Location: ALEDO, TX

Quote Name: ADD NEMA 4X GEAR

Through Addenda Number: 1

Bid Date: 1/1/1901

Consultant / Specifier: RWB

Contractor / Installer: JBI ELECTRICAL SYSTEMS

Sales Representative: BILL BRYAN

Conditions of Sale

This Quotation is subject to Schneider Electric USA, Inc.'s published Conditions of Sale

Payment Terms: STANDARD

Billing Type(s):

Currency: US DOLLARS

Quote Markings

200749-56525 // Berry Jenkins 817-980-3460

Q2C Number: 43464018	Quote Number: 1	Change Order Rev Number: 11
Project Name: Aledo ISD Elementary School #6		Quote Name: ADD NEMA 4X GEAR

Item No.	Qty.	Catalog Number / Details
296-00	1	<p>H365NDS SW FUSIBLE HD 400A 3P STAINLESS/NEUTRAL Enclosure Type: Type 4X/4/5 Stainless Steel Options: Standard (304) Interrupting Rating (AIR): 200kA Fuse Capability: Class R Max System Voltage: 600Vac Switch Current Rating: 400A System Used: 4 Wire (3 Poles, 1 Neutral) Neutral Kit: Factory Installed Ground Lug: (2) PKOGTA2 Processed by ACE 2.0 - 04172018</p>
298-00	2	<p>PKOGTA2 EQUIP GRD ASSY 240V + 600V 100-200</p> <p>Estimated days to ship excluding transit: 25 working days after customer release to manufacture. See Conditions of Sale.</p>
299-00	1	<p>Designation: MDP NF ML Panel (INTERIOR) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 42kA Fully Rated Main Lug Only: 400A Incoming Conductors: 1 - 1/0 - 750, (2) 1/0 - 350 kcmil AL Ground Bar Bus: 400A Rated Aluminum: Tin Plated 30 Circuit Interior Type 3R/4/4X/5/12 Stainless Steel Box: 68H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH684WPSSULNF Ref. Drawing: PBA711SS Feeders: 1 - Sub-Feed One: 150A/3P HJ 1 - 100A/3P EJB 1 - 45A/3P EJB 1 - 50A/3P EJB 1 - 15A/3P EJB Optional Features: Standard Panel (Box Ahead), Standard Solid Neutral, Standard Ground Bar</p> <p>Estimated days to ship excluding transit: 30 working days after customer release to manufacture. See Conditions of Sale.</p>
301-00	1	<p>Designation: L NQ MB Panel (INTERIOR) - A NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 250A/3P JD Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - 3/0 - 350 kcmil AL Ground Bar Bus: Aluminum Tin Plated</p>

Q2C Number: 43464018	Quote Number: 1	Change Order Rev Number: 11
Project Name: Aledo ISD Elementary School #6		Quote Name: ADD NEMA 4X GEAR

Item No.	Qty.	Catalog Number / Details
		42 Circuit Interior Type 3R/4/4X/5/12 Stainless Steel Box: 50H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH50WPSSULNF Ref. Drawing: PBA711SS Feeders: 1 - 150A/3P QOB-VH 16 - 20A/1P QOB 16 - 20A/1P QOB Prepared Space 2 - 20A/2P QOB Optional Features: Standard Panel (Box Ahead),Standard Solid Neutral,Standard Ground Bar Branch User Placement
		<p>Estimated days to ship excluding transit: 30 working days after customer release to manufacture. See Conditions of Sale.</p>
303-00	1	<p>Designation: L NQ ML Panel (INTERIOR) - B NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Main Lug Only: 250A Incoming Conductors: 1 - 3/0 - 350 kcmil AL Ground Bar Bus: Aluminum Tin Plated 42 Circuit Interior Type 3R/4/4X/5/12 Stainless Steel Box: 38H x 20W x 6.5D Incoming: Top Trim w/ Box Box Cat No: MH38WPSSULNF Ref. Drawing: PBA711SS Feeders: 42 - 20A/1P QOB Prepared Space Optional Features: Standard Panel (Box Ahead),Standard Solid Neutral,Standard Ground Bar Branch User Placement</p>
		<p>Estimated days to ship excluding transit: 30 working days after customer release to manufacture. See Conditions of Sale.</p>

Change to Total Authorized:	14,428.00
Change to Warranty:	0.00
Change to FOB:	0.00
Change to Order Value:	14,428.00



4601 CAMBRIDGE RD
 FORT WORTH TX 76155-2233
 Phone: 817-213-1300
 Fax: 817-213-1373

To: JBI ELECTRICAL SYSTEMS INC.
 JBI ELECTRICAL SYSTEMS INC.
 5631 STRATUM DRIVE
 FORT WORTH TX 76137-2709
 Attn: Michael Robinson
 Phone: 682-209-2753
 Fax: 817-625-6696
 Email: chase.baker@graybar.com

Date: 07/01/2021
Proj Name: ALEDO ISD ES 6 WWTP
GB Quote #: 0238326067
 Release Nbr:
 Purchase Order Nbr:
 Additional Ref#
 Valid From: 07/01/2021
 Valid To: 07/31/2021
 Contact: CHASE BAKER
 Email: chase.baker@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Item	Item/Type	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
OPTION 1								
100		1 EA	HAMMOND MFG	MK075KBAH7	30 WORKING DAYS LEAD TIME (NON-RETURNABLE) DRY TYPE N4X TRANSFORMER	\$8,005.00	1	\$8,005.00
OPTION 2								
200		1 EA	HAMMOND MFG	TN2A0075KBKF6	(2) IN STOCK IN DALLAS ENCAPSULATED N4X TRANSFORMER	\$8,400.00	1	\$8,400.00

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.

Michael Robinson

From: Chase Baker <chase.baker@graybar.com>
Sent: Tuesday, July 6, 2021 3:15 PM
To: Michael Robinson
Subject: RE: DATX2097356_JBIELECTRICSYSTEMSINC7293112010741629522.pdf - Aledo ISD ES #6

Mike,
See below...

MDP – \$3,390.00 deduct
HA – \$1,131.00 deduct
LA – \$1,072.00 deduct
TXLA – \$405.00 deduct

Thanks,

Chase Baker | Project Specialist
Dallas, TX | Office (817) 213-1264 | chase.baker@graybar.com
www.graybar.com - Works to Your Advantage



Have you tried the NEW Graybar.com website (www.graybar.com)?
You can check product availability, pricing, request a quote or place an order. Registration is quick and easy! ([Click Here](#))
Graybar.com Help Center [Click here](#)

From: Michael Robinson [mailto:mrobinson@jbielectric.com]
Sent: Tuesday, July 6, 2021 2:15 PM
To: Chase Baker <chase.baker@graybar.com>
Subject: RE: DATX2097356_JBIELECTRICSYSTEMSINC7293112010741629522.pdf - Aledo ISD ES #6

Yes, that is correct.



4601 CAMBRIDGE RD
 FORT WORTH TX 76155-2233
 Phone: 817-213-1300
 Fax: 817-213-1373

To: JBI ELECTRICAL SYSTEMS INC.
 JBI ELECTRICAL SYSTEMS INC.
 5631 STRATUM DRIVE
 FORT WORTH TX 76137-2709
 Attn: Michael Robinson
 Phone: 682-209-2753
 Fax: 817-625-6696
 Email: kevin.hubbard@graybar.com

Date: 07/07/2021
 Proj Name: **ALEDO ES**
 GB Project Qte#: **0238359501**
 Release Nbr:
 Purchase Order Nbr: CLARIFICATION #10
 Additional Ref#
 Valid From: 07/07/2021
 Valid To: 08/06/2021
 Contact: CHRIS LUCAS
 Email: chris.lucas@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Notes: **FREIGHT INCLUDED**

Item	Item/Type	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100	S1 POLE	1 EA	LITHONIA LTG	SSS 28 4G DM19AS DDBXD L/AB		\$1,837.05	1	\$1,837.05
Item Note:		LEAD TIME 4-6 WKS						
200	S1 FIXT	1 EA	LITHONIA LTG	RSX2 LED P2 40K R2 MVOLT SPA PER7 DDBXD		\$553.30	1	\$553.30
Item Note:		LEAD TIME 2-3 WKS						
300	W2	4 EA	LITHONIA LTG	DSXW1 LED 10C 1000 40K T3M 277 PE DDBXD		\$374.50	1	\$1,498.00
Item Note:		LEAD TIME 3-5 WKS						
400	J1	7 EA	LITHONIA LTG	FEM L48 6000LM 0CRI LPPFL MD MVOLT GZ10 40K 8		\$266.65	1	\$1,866.55
Item Note:		LEAD TIME 2-3 WKS						

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.

To: JBI ELECTRICAL SYSTEMS INC.
JBI ELECTRICAL SYSTEMS INC.
5631 STRATUM DRIVE
FORT WORTH TX 76137-2709
Attn: Michael Robinson

Date: 07/07/2021
Proj Name: **ALEDO ES**
GB Project Qte#: **0238359501**

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Total in USD (Tax not included): \$5,754.90

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

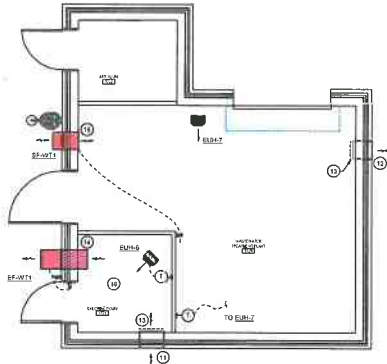
To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

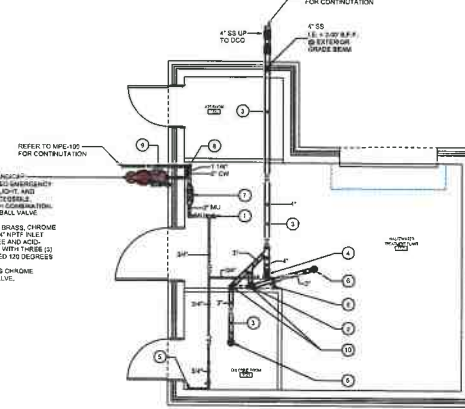
Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill.
Unless noted the estimated ship date will be determined at the time of order placement.

NOTES BY SYMBOL: "O"

- 1 MAKEUP WATER. REFER TO SERVICE TREATMENT PLANT EQUIPMENT DRAWINGS FOR REQUIRED FINAL CONNECTIONS TO EQUIPMENT.
2 1/2" UP TO 2" ITR ON ROOF.
UNDERGROUND SANITARY PIPING.
4" SS UP TO FGD.
HOSE REEL MOUNTED 30" MIN. A.F.F.
7" SS UP TO EQ.
2" RPT. ROUTE DRAIN/FALL SIZE TO EXT. INTER. COORDINATE WITH ELECTRICAL CONTRACTOR TO NOT DRAW WITHIN 1' OF RECFACIALS.
2" DN UP. PROVIDE MAIN SHUT OFF VALVE MOUNTED 12" MIN. A.F.F. PROVIDE SHUT OFF VALVE FOR EMERGENCY SHOWER.
2" DN ITR ON UNDERGRADE.
PROVIDE 1/4" IN. DIA. 12" A.F.F. FOR BOTH VENT STACKS.
OUTSIDE AIR IN WALL LOUVER WITH MIN. OF 8 1/2 SQ. FT. FREE AREA. SHUT OFF TO BE INSTALLED AT THE MANUFACTURER'S LOCATION. SHUT OFF TO BE 3/4" DIA. WITH 1/2" COUPLER. MINIMUM COUPLER BOTTOM OF LOUVER SHALL BE MIN. OF 18" ABOVE GRADE. MAX. SHALL NOT EXCEED MAX. OF 30" ABOVE GRADE. MAX. LOUVER SIZE SHALL BE 18" X 18".
SILENT AIR LOUVER WITH MIN. OF 12 SQ. FT. FREE AREA. BOTTOM OF LOUVER SHALL BE MIN. OF 18" ABOVE GRADE AND SHALL NOT EXCEED MAX. OF 30" ABOVE GRADE. MIN. LOUVER SIZE SHALL BE 18" X 18". TO MATCH DRAWING FOR LOUVER. SPECIFICATIONS PROVIDE 1" DEEP FLESH ON EXTERIOR SIDE. FALL SIZE OF LOUVER WITH NOTICED CAMMER.
PROVIDE 1/2" X 1/2" GALV. STEEL HARDWARE CLOTH OVER OPENING.
BOTTOM OF FAN SHALL BE APPROX. 8" O.F.F.
BOTTOM OF FAN SHALL BE APPROX. 7" O.F.F.
ALL EQUIPMENT AND LIGHT FIXTURES SUPPORTS/CONCRETS SHALL HAVE CORROSION RESISTANT COATINGS IN THIS ROOM.



1 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - MECHANICAL. SCALE: 1/4\"/>

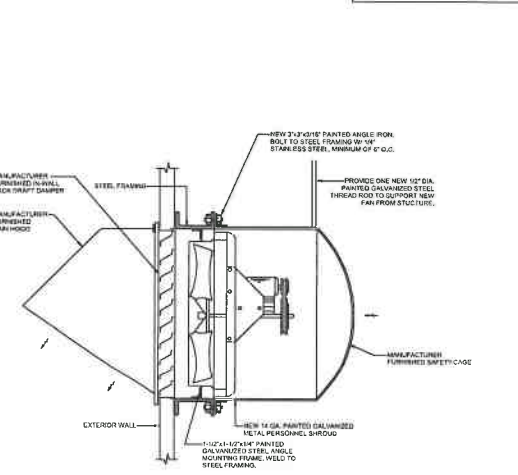


1 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - PLUMBING. SCALE: 1/4\"/>

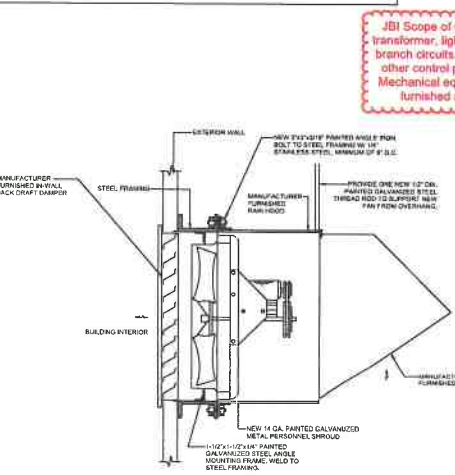
UNIT HEATER - ELECTRIC TYPE table with columns for description, quantity, unit, and price. Includes manufacturer, model, and performance data.

FAN SCHEDULE table with columns for description, quantity, unit, and price. Includes manufacturer, model, and performance data.

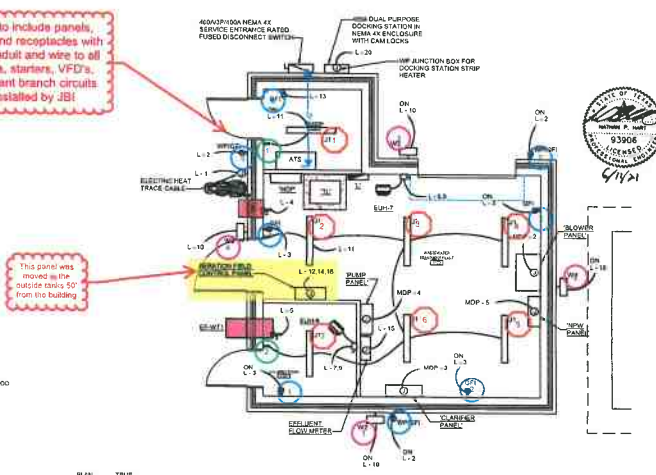
PLUMBING FIXTURE ROUGH-IN SCHEDULE table with columns for description, quantity, unit, and price. Includes manufacturer, model, and performance data.



5 VENTILATION EXHAUST FAN DETAIL. NO SCALE



4 VENTILATION SUPPLY FAN DETAIL. NO SCALE



3 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - ELECTRICAL. SCALE: 1/4\"/>

RWB Consulting Engineers logo and contact information.

PRK logo.

PROJECT INFORMATION: ALEDO ISD, PROJECT NUMBER 2018, DRAWING HISTORY, etc.

ALEDO ISD ELEMENTARY SCHOOL #6



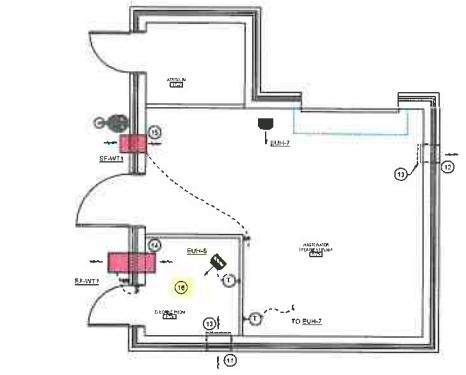
ISSUED FOR BIDDING table with columns for date, description, and quantity.

FLOOR PLAN - SEWAGE TREATMENT CONTROL BUILDING - MPE

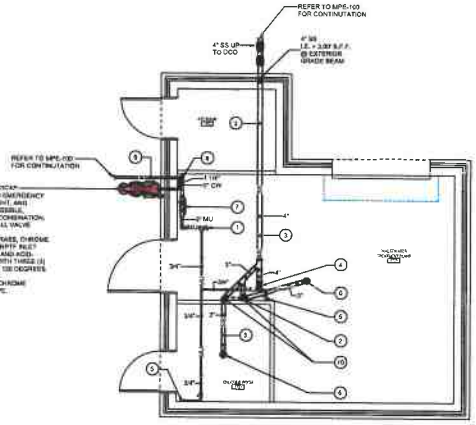
MPE-110

NOTES BY SYMBOL: "O"

1. WAKEUP WATER: REFER TO SEWAGE TREATMENT PLANT EQUIPMENT DRAWINGS FOR REQUIRED FINAL CONNECTIONS TO EQUIPMENT.
2. 2" UP TO 2" VTR ON ROOF.
3. UNDERGROUND SANITARY PIPING.
4. 4" SS UP TO FGD.
5. HOSE BIBS MOUNTED 30" ABOVE A.F.F.
6. 2" SS UP TO DGL.
7. 3" SS UP TO DGL.
8. 1/2" OD W/ 1/4" DRAMM HOLE TO EXTERIOR. COORDINATE WITH ELECTRICAL CONTRACTOR TO NOT DRAM WITHIN 1' OF RECEPTACLE.
9. 2" ON UP: PROVIDE MIN. 6" SHUT OFF VALVE ADJACENT TO MAIN A.F.F. PROVIDE SHUT OFF VALVE FOR EMERGENCY SHUT-OFF.
10. 2" INCHING CY UNDERGROUND.
11. PROVIDE IN-LINE CLEANOUT 12" A.F.F. FOR BOTH VENT STACKS.
12. OUTSIDE AIR INTAKE LEAKERS WITH MIN. OF 4.0 SQ. FT. FREE AREA. AIR INTAKE TO ROOMS PROVIDED AS STATIONARY LEAKERS. THESE STACKS OR EQUAL WITH CORROSION RESISTANT COATING. BOTTOM OF LEAKERS SHALL BE MIN. OF 18" ABOVE GRADE AND SHALL NOT EXCEED MAX. OF 40" ABOVE GRADE. AIR QUALITY TEST SHALL BE 18" UP.
13. WALL AIR EXHAUST WITH MIN. OF 12.0 SQ. FT. FREE AREA. BOTTOM OF EXHAUST SHALL BE MIN. OF 18" ABOVE GRADE AND SHALL NOT EXCEED MAX. OF 40" ABOVE GRADE. AIR QUALITY TEST SHALL BE 18" UP. REFER TO ARCH. DRAWINGS FOR EXHAUST SPECIFICATIONS. PROVIDE 1" MIN. AIR GAPS ON EXTERIOR SIDE. FULL BAG OF LEAKERS WITH HARDWARED DAMPERS.
14. PROVIDE 1/2" GALV. STEEL HARDWARED CLOTH COVER OPENING.
15. BOTTOM OF FAN SHALL BE APPROX. 7'-0" A.F.F.
16. BOTTOM OF FAN SHALL BE APPROX. 7'-0" A.F.F.
17. ALL EQUIPMENT AND LIGHT FIXTURES SUPPORTS/CONCRETE SHALL HAVE CORROSION RESISTANT COATING IN THIS ROOM.



PLAN NORTH TRUE NORTH
1 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - MECHANICAL
SCALE: 1/4" = 1'-0"



PLAN NORTH TRUE NORTH
1 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - PLUMBING
SCALE: 1/4" = 1'-0"

UNIT HEATER - ELECTRIC TYPE

GENERAL DATA	DESCRIPTION	UNIT	ROOM
LOCATION	WALL MOUNTED	WALK EXHAUST	
SERVICE	CHILDREN ROOM	WATER TREATMENT	
MANUFACTURER	WATSON	MIDWEST	
MODEL	HT-100000	HT-100000	
R.U.C. DATA			
HEAT OUTPUT (BTU)	400	450	
MAX. INPUT (BTU)	400	450	
EFFICIENCY (%)	28	28	
FREQUENCY (Hz)	60	60	
PERFORMANCE DATA			
COMPLY (BTU/HR)	11,200	11,200	
ELECTRICAL (W)	1.1	1.1	
RESISTANCE (OHMS)	2.4	2.4	
CONTROL (ON/OFF)	2	2	
CONNECTIONS (1/2" / 3/4")	1.2	1.2	

DISCONNECTS:
 1. PROVIDE WITH MANUFACTURER FURNISHED WALL MOUNTED UNIT BRACKET.
 2. PROVIDE MANUFACTURER FURNISHED WALL MOUNTED THERMOSTAT.
 3. HEATER SHALL BE SUITABLE FOR CORROSIVE ENVIRONMENT. PROVIDE CORROSION PROTECTION AS NECESSARY.
 ALL UNIT HEATER DISCONNECT SWITCHES SHALL BE NEMA 4X.

FAN SCHEDULE

GENERAL DATA	DESCRIPTION	UNIT	ROOM
TYPE	SUPPLY	CHLORINE ROOM	
MOVING	WATER TREATMENT PLANT	CHLORINE ROOM	
INSTALLATION	WALL	WALL	
SIZE (INCHES)	12.5	12.5	
MANUFACTURER	TRASK	TRASK	
MODEL	TRASK	TRASK	
PERFORMANCE DATA			
MAX. FLOW (CFM)	400	400	
MAX. STATIC PRESS. (IN. WG)	0.25	0.25	
MAX. FAN RPM	1200	1200	
MAX. MOTOR HP	1/4	1/4	
MAX. VOLTAGE (V)	120	120	
MAX. CURRENT (A)	1.7	1.7	
CONNECTIONS	WALL SWITCH	WALL SWITCH - 4 GANG JUNE SWITCH (CONNECT IN PARALLEL)	

NOTES:
 1. MOTOR STARTER CAN SUBSTITUTE AS TANK DISCONNECT WHERE NOT WALL MOUNTED AND LOCATED AT TANK/POOP. 2. BELL SIGNAL CAN SUBSTITUTE FOR MOTOR STARTER.
 3. PROVIDE FAN WITH RAIN HOOD, BACK DRAFT DAMPER, MOTOR GUARD AND SCREEN.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

DESCRIPTION	FIXTURE TYPE	COLLS WATER	SEE NOTES	WATER	SEWER	VENT	VENT WATER TEMP. (°F)	DESCRIPTION
OUTDOOR FLOOR MOUNTED SHOWER/STAIR WALKOFF MAT/INDICATOR TOP/SLIP RESISTANT								
MECHANICAL ROOM AIR PURGE EXHAUST/GRATE/CAST IRON BODY W/ TRAMP PIPING								

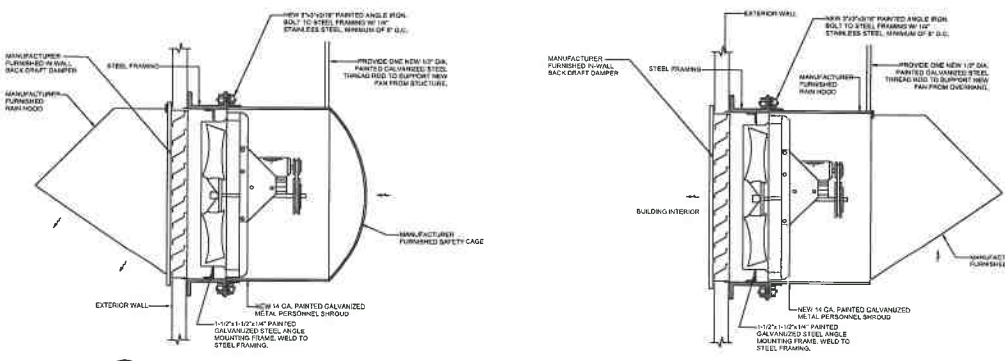
- NOTES:
- ROUGH-IN SUPPLY WASTE & VENT PIPE SIZES INDICATED ABOVE ARE MINIMUM PIPE SIZES SHOWN FOR ROUGH-IN ONLY. MAIN SIZES SHALL BE AS INDICATED ON DRAWING.
 - COORDINATE WITH PLUMBING FIXTURE MFG. DIMENSIONED ROUGH-IN DIMENSIONS FOR BRACKET LOCATIONS, SIZES, REQUIREMENTS, ETC. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS, IN PLACE, IN ACCORDANCE WITH ALL APPLICABLE CODES HAVING JURISDICTION.
 - REFER TO PLUMBING FIXTURE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURER & MODEL NUMBER. ALL FIXTURES SHALL BE OF COMMERCIAL GRADE UNLESS NOTED OTHERWISE.
 - REFER TO ARCHITECTURAL DRAWING FOR ALL INDUSTRY HEIGHTS AND EXACT LOCATIONS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK. PROVIDE ANY ADDITIONAL SUPPORTS, BRACKETS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE ALL DIMENSIONS AND LOCATIONS WITH OTHER TRADES AS NECESSARY.
 - PROVIDE AN AIR CHAMBER ON EACH BRANCH PIPE AT EACH FITTING. THE AIR CHAMBER SHALL HAVE A MINIMUM VERTICAL LENGTH OF 8" SHALL BE CONCEALED IN THE WALL AND SHALL BE OF THE SAME PIPE MATERIAL AND DIAMETER AS THE BRANCH PIPE.

ALEDO ISD ELEMENTARY SCHOOL #6



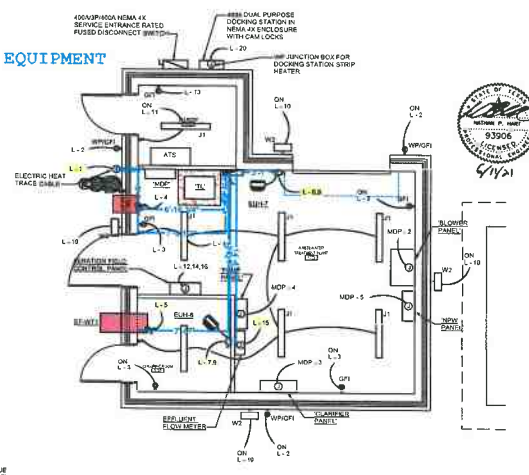
2533 W. PALM ANNE AVENUE
IRVING, TX 75039

ELECTRICAL TAKE OFF FOR MECHANICAL EQUIPMENT



5 VENTILATION EXHAUST FAN DETAIL
NO SCALE

4 VENTILATION SUPPLY FAN DETAIL
NO SCALE



PLAN NORTH TRUE NORTH
3 FLOOR PLAN - SEWAGE TREATMENT - CONTROL BUILDING - ELECTRICAL
SCALE: 1/4" = 1'-0"



CLIENT: ALEDO ISD
 DATE: 9/20/2018
 PROJECT NUMBER: 2018
 DRAWING HISTORY:
 NO. 1: 9/20/2018
 14: 9/20/2018
 ISSUED FOR BIDDING

FLOOR PLAN - SEWAGE TREATMENT CONTROL BUILDING - MPE

MPE-110



H&E EQUIPMENT SERVICES.

JBI Electrical

1002735

Effective November 1, 2020 through October 31, 2021

<u>Boom Lifts</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Articulating Boom 40-45' w/Jib Diesel	\$350	\$800	\$1,525
Articulating Boom 60-66' w/Jib Diesel	\$450	\$1,100	\$2,095
Straight Boom 40-45' Diesel	\$350	\$800	\$1,525
Straight Boom 60-66' Diesel	\$435	\$1,050	\$2,095
Straight Boom 60-66' w/Jib Diesel	\$430	\$1,000	\$2,095
Straight Boom 80-85' Diesel	\$725	\$1,800	\$3,500
<u>Telehandlers</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Telehandler 5K#	\$350	\$850	\$1,620
Telehandler 6K# 30' Reach	\$420	\$960	\$1,750
Telehandler 6K# 40' Reach	\$420	\$960	\$1,920
Telehandler 8K#	\$440	\$1,030	\$2,150
Telehandler 10K# 50' Reach	\$550	\$1,415	\$3,200
<u>Run About</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Run About 20' Electric	\$125	\$265	\$325
<u>Scissorlifts</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Scissorlift 0-19' 30-39" Electric	\$125	\$250	\$310
Scissorlift 24.1-26'	\$155	\$340	\$520
Scissorlift 24.1-26' RT 60-69" Diesel	\$230	\$455	\$750
Scissorlift 26.1-35'	\$210	\$440	\$680
Scissorlift 26.1-35' RT	\$240	\$790	\$1,000
Scissorlift 35.1-45' RT	\$315	\$650	\$1,200
<u>Excavators</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Excavator 2-2.9 T ROPS	\$260	\$675	\$1,500
Excavator 3-3.9 T Rops	\$280	\$710	\$1,600
Excavator 5-5.9 T	\$385	\$945	\$2,000
<u>Backhoe</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Standard Backhoe w/Arm 4WD	\$330	\$900	\$1,700
<u>SkidSteers</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
SkidSteer Tracked 1891-2200#	\$315	\$795	\$1,775
SkidSteer Tracked 2201-2700#	\$350	\$920	\$1,920
<u>Forklift</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Forklift Pneumatic 5K# Dual	\$210	\$500	\$1,100

SELECT ACCOUNT
CUSTOMIZED NATIONAL ACCOUNT PROGRAM

H&E EQUIPMENT SERVICES.

JBI Electrical

1002735

Effective November 1, 2020 through October 31, 2021

<u>Air Compressors</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Air Compressor 150-200 CFM Diesel	\$140	\$385	\$600
Air Compressor 301-425 CFM Diesel	\$230	\$685	\$1,260
<u>Compaction</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Compaction Jump Jack	\$85	\$185	\$450
<u>Trench Roller</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Trench Roller Articulated	\$255	\$680	\$1,715
<u>Generators</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Generator Trailer-Mounted Diesel 16-25kw	\$240	\$590	\$1,110
Generator Trailer-Mounted Diesel 26-50kw	\$325	\$810	\$1,515
Generator Trailer-Mounted Diesel 51-70kw	\$355	\$920	\$2,000
Generator Trailer-Mounted Diesel 71-100kw	\$455	\$1,100	\$2,620
<u>Trencher</u>	<u>Day</u>	<u>Week</u>	<u>4-Week</u>
Trencher Ride-On	\$350	\$950	\$1,700

Freight Charges:

Freight will be charged at \$45 per load within 30 miles of the closest H&E branch. Outside of 30 miles, call for quote.

****Rates do not include any applicable taxes, damages, fuel and/or freight.
NO ENVIRONMENTAL FEES**

Josh Snowden

Josh Snowden
Authorized Signer
JBI Electrical

Dec 28, 2020

Date

Jaden Winfrey

Jaden Winfrey
Select Account Manager
H&E Equipment Services

12/21/2020

Date

**SELECT ACCOUNT
CUSTOMIZED NATIONAL ACCOUNT PROGRAM**



5631 STRATUM DRIVE
FORT WORTH, TX 76137
Ph : 817.589.1545

Change Request

To: Cecilia Bunnell
Satterfield & Pontikes Constru
6220 N Beltline Rd, Ste 200
Irving, TX 75063
Ph: (972) 753-0342

Number: 10
Date: 5/20/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description: WWTP - Lights

We are pleased to offer the following specifications and pricing to make the following changes:

Scope of Work:

- a. Provide labor, material, and equipment to install (2) two Appleton Cat #MLLED545CD5BU light fixtures as shown on the attached drawings.
- b. Provide labor, material, and equipment to install a WP single pole light switch at the top of the access stair No. 1. See attached drawing.
- c. Provide labor, material, and equipment to install a underground 20 amp 120 volt circuit from panel L. See attached drawing.

Qualifications:

- a. JBI reserves the right to revisit this pricing when unforeseen field conditions are identified and/or when errors and emissions occur in the defining of scope.
- b. Pricing accounts for (1) mobilization/pass of work to accomplish defined scope.
- c. Raceway for Low Voltage Systems are Stub-Ups to Accessible Ceilings.
- d. Pricing is based on means and methods in accordance with NEC and Local AHJ.

Exclusions:

- a. Any and all drywall, tape, bed, primer and paint repair / patching.
- b. Any and all forming / placement / cutting / repair / patching of concrete.
- c. Any and all exclusions previously agreed upon via the Executed Contract.
- d. Telephone, Data, AV, Security, BMS, Mechanical, Kitchen Hoods, Ansul Low Voltage Cabling (Provided by Others).
- e. Raceways for BMS or Temperature Control.
- f. Overtime, unless specifically included above.
- g. Expediting Charges, unless specifically included above.
- h. Rock excavation if encountered.
- i. No electrical classifications were taken into account for the lighting. (No explosion proof wiring).

To expedite implementation of this change, please provide a change order for the amount of the change request to acknowledge acceptance.

Please issue a time extension of (0) days to our contract for this change proposal.

Regulated by the Texas Department of Licensing and Regulation, P.O. Box 127157, Austin, Texas 78771, 1-800-803-9202, 512-463-6599; website: www.license.state.tx.us/complaints.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct cost only and we reserve the right to claim for impact and consequential cost.

This price is good for acceptance within 30 days from the date of receipt.



5631 STRATUM DRIVE
 FORT WORTH, TX 76137
 Ph: 817.589.1545

Change Request

To: Cecilia Bunnell
 Satterfield & Pontikes Constr
 6220 N Beltline Rd, Ste 200
 Irving, TX 75063
 Ph: (972) 753-0342

Number: 10
Date: 5/20/21
Job: 20-0749 Aledo ISD School #6
Phone: 817.975.5864

Description	Quantity	Unit	Unit Price	Price
Superintendent	7.00	hrs	\$75.00	\$525.00
Journeyman	32.00	hrs	\$65.00	\$2,080.00
Apprentice	14.00	hrs	\$55.00	\$770.00
Labor/Cleanup	2.00	hrs	\$28.00	\$56.00
Material Handling	3.00	hrs	\$28.00	\$84.00
PM & APM	4.00	hrs	\$95.00	\$380.00
Drawings	3.00	hrs	\$75.00	\$225.00
Materials	1.00	lot	\$1,057.11	\$1,057.11
Lighting Quote	1.00	lot	\$2,540.00	\$2,540.00
JBI Tools	1.00	lot	\$44.47	\$44.47
Consumables	1.00	lot	\$35.58	\$35.58
Sales Tax	0.08	lot	\$2,575.58	\$212.49
			Subtotal:	\$8,009.65
		Overhead & Profit	\$8,009.65	10.00%
		Bond	\$8,810.62	3.00%
			Total:	\$9,074.94

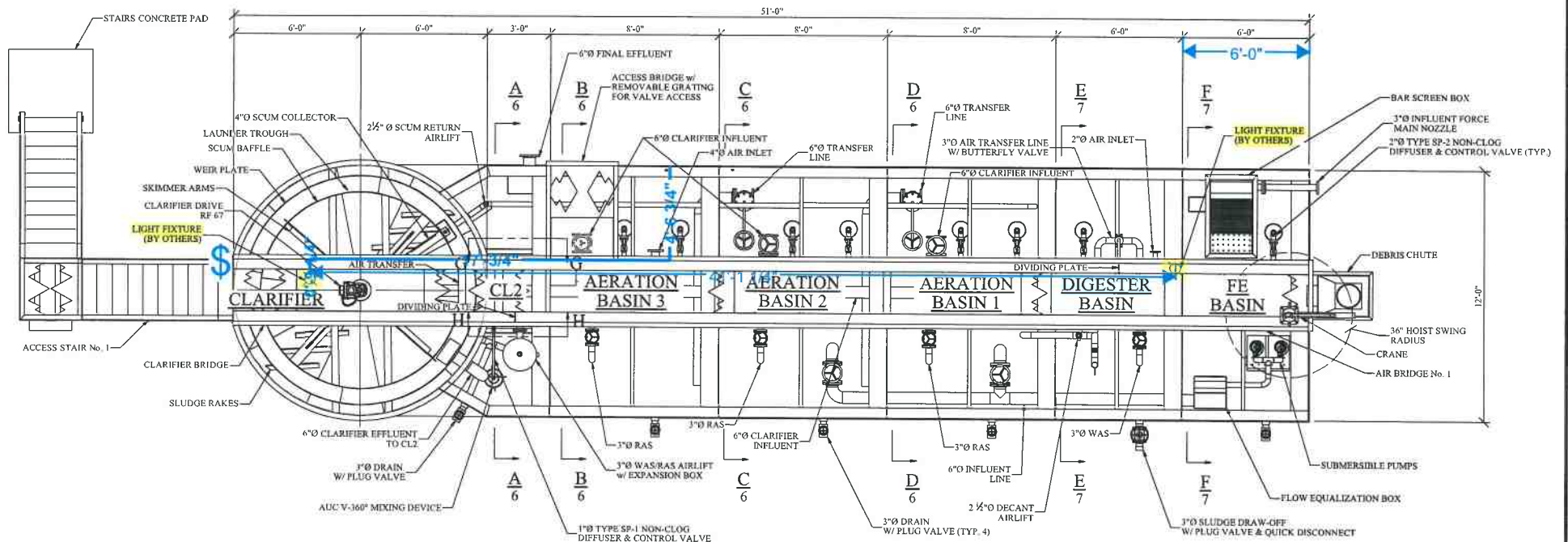
The schedule is not affected by this change.

If you have any questions, please contact me at .

Submitted by: _____

Approved by: _____

Date: _____



PLAN VIEW

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC GROUP

ALEDO ISD ES No. 6

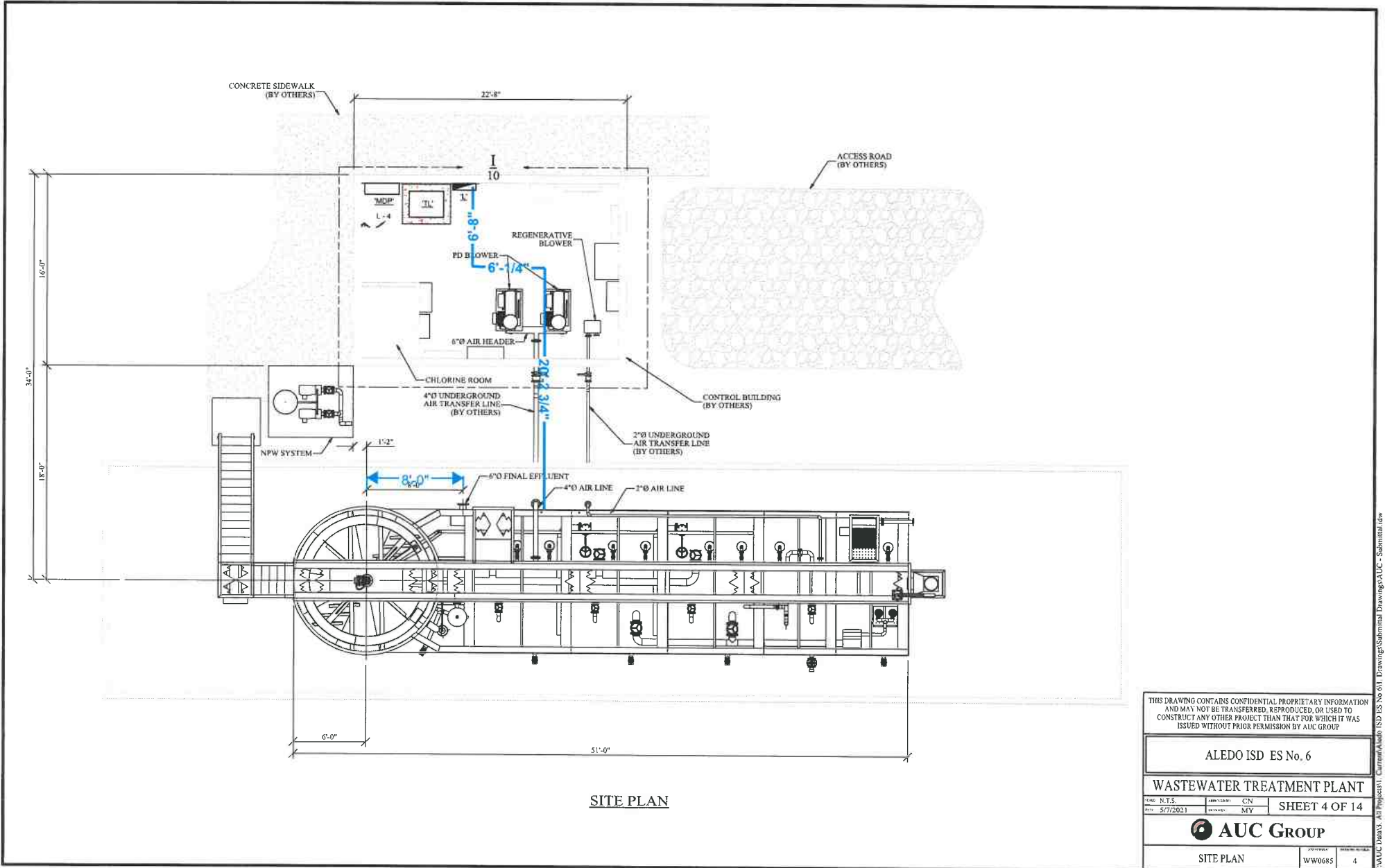
WASTEWATER TREATMENT PLANT

DATE: H.T.S. PROJECT: CN SHEET 5 OF 14
 DATE: 5/4/2021 APPROVED: MY

AUC GROUP

PLAN VIEW DRAWN BY: WWO685 PROJECT NO: 5

V:\AUC Data\3 - All Projects\1 - Current\Aledo ISD ES No. 6\1 - Drawings\Submittal Drawings\AUC - Submittal.dwg



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ALEDO ISD ES No. 6		
WASTEWATER TREATMENT PLANT		
SCALE: N.T.S.	APPROVED: CN	SHEET 4 OF 14
DATE: 5/7/2021	DRAWN: MY	
AUC GROUP		
SITE PLAN	PROJECT NO: WW0685	SHEET NO: 4

V:\AUC Data\3. All Projects\1. Current\Aleido ISD ES No. 611 Drawings\Submittal Drawings\AUC - Submittal.dwg

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
RACEWAYS					
GRC CONDUIT					
GRC Conduit 3/4"	20.00 lf	0.109 mh / lf	284.50 /c	56.90	2.18
GRC Conduit 3/4"	80.00 lf	0.109 mh / lf	284.50 /c	227.60	8.73
GRC Conduit 2"	20.00 lf	0.182 mh / lf	921.45 /c	184.29	3.64
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 3/4" Coupling	2.00 ea	0.109 mh / ea	120.94 /c	2.42	0.22
GRC 3/4" 90 Deg Factory Elbow	2.00 ea	0.455 mh / ea	458.15 /c	9.16	0.91
PLASTIBOND GRC CONDUIT					
GRC Plastibond 3/4" Coupling	4.00 ea	0.109 mh / ea	527.30 /c	21.09	0.44
GRC Plastibond 3/4" Factory Elbow	4.00 ea	0.545 mh / ea	3,198.09 /c	127.92	2.18
GRC Plastibond 3/4 X 12-Factory Nipple	4.00 ea	0.218 mh / ea	2,396.63 /c	95.87	0.87
PVC SCH 40 CONDUIT					
PVC Sch 40 3/4"	50.00 lf	0.042 mh / lf	105.80 /c	52.90	2.09
QT PVC Glue	0.05 ea	0.091 mh / ea	9.16 /ea	0.46	0.00
DUCTBANK & MANHOLE MATERIAL					
Excavate Trench	1.39 cy	0.364 mh / cy	-	-	0.51
Backfill Trench	1.39 cy	0.545 mh / cy	-	-	0.76
RACEWAY FITTINGS					
PVC SCH40 FITTINGS					
Sch40 Male Adapter 3/4"	2.00 ea	0.100 mh / ea	41.88 /c	0.84	0.20
Sch40 FMale Adapter 3/4"	12.00 ea	0.100 mh / ea	49.29 /c	5.91	1.20
GRC RE'S & ERICKSON'S					
2-1 REDUCING BUSHING	2.00 ea	0.200 mh / ea	800.13 /c	16.00	0.40
LOCKNUTS					
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
Steel Locknut 3/4"	2.00 ea	0.100 mh / ea	13.84 /c	0.28	0.20
BUSHINGS					
Plastic Bushing 3/4"	2.00 ea	0.200 mh / ea	13.34 /c	0.27	0.40
Plastic Bushing 3/4"	2.00 ea	0.200 mh / ea	13.34 /c	0.27	0.40
SUPPORTS / CLAMPS					
GALV CONDUIT CLAMPS					
Galv Para Beam Clamp 2"	2.00 ea	0.500 mh / ea	1,022.34 /c	20.45	1.00
EMT CONDUIT CLAMPS					
3/4" EMT Strap 1 hole Steel	3.00 ea	0.060 mh / ea	13.66 /c	0.41	0.18
3/4" EMT Mineralac Strap	10.00 ea	0.100 mh / ea	43.04 /c	4.30	1.00
BEAM CLAMPS					
1/2" Strap Beam C-Clamp	4.00 ea	0.060 mh / ea	3.50 /ea	14.02	0.24
BOXES					
BELL BOXES & WP COVERS					
1G BELL BOX 3HUBS 3/4"	1.00 ea	0.600 mh / ea	420.84 /c	4.21	0.60
1G WP SWITCH PLATE	1.00 ea	0.180 mh / ea	373.87 /c	3.74	0.18
FS BOXES & COVERS					
3/4 FS BOX 1 GANG	2.00 ea	0.780 mh / ea	15.60 /ea	31.20	1.56
HOFFMAN BOXES C/STEEL					
6X6X4" NMA1 S/C J BOX	3.00 ea	0.300 mh / ea	17.14 /ea	51.41	0.90
HARDWARE / FASTENERS					
FASTENERS					
Tek Screw - (Pan Heads)	5.00 ea	0.030 mh / ea	0.11 /ea	0.55	0.15
BUILDING WIRE COPPER					
600V WIRE THHN COPPER STR					
SC Copper THHN-12-BLK-STR	21.00 lf	0.006 mh / lf	243.06 /m	5.10	0.13
SC Copper THHN-12-BLK-STR	84.00 lf	0.006 mh / lf	243.06 /m	20.42	0.52
SC Copper THHN-12-BLK-STR	52.50 lf	0.006 mh / lf	243.06 /m	12.76	0.32
SC Copper THHN-12-WHT-STR	84.00 lf	0.006 mh / lf	243.06 /m	20.42	0.52
SC Copper THHN-12-WHT-STR	52.50 lf	0.006 mh / lf	243.06 /m	12.76	0.32
SC Copper THHN-12-RED-STR	21.00 lf	0.006 mh / lf	243.06 /m	5.10	0.13
SC Copper THHN-12-GRN-STR	21.00 lf	0.006 mh / lf	243.06 /m	5.10	0.13
SC Copper THHN-12-GRN-STR	84.00 lf	0.006 mh / lf	243.06 /m	20.42	0.52
SC Copper THHN-12-GRN-STR	52.50 lf	0.006 mh / lf	243.06 /m	12.76	0.32
TERMINATIONS					
WIRE TERMINATIONS					
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46

Description	Takeoff Quantity	Labor Productivity	Material Price	Material Amount	Labor Hours
WIRE TERMINATIONS					
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
Wire Terminations #12	2.00 ea	0.229 mh / ea	-	-	0.46
PULL ROPE / TIE WRAPS / MISC.					
Black Electrical Tape	0.30 ea	0.714 mh / ea	0.70 /ea	0.21	0.21
200# PULL LINE	55.00 lf	0.004 mh / lf	73.36 /m	4.03	0.20
GROUNDING CABLE & EQUIP					
GROUND WIRE BARE & GREEN					
Ground Stinger	1.00 ea	0.086 mh / ea	33.03 /c	0.03	0.09
HID FIXTURES					
METAL HALIDE FIXTURES					
LED FLOOD	2.00 ea	3.143 mh / ea	- /q	-	6.29
DEVICES					
SWITCHES					
SP TOGGLE SW, SPEC.	1.00 ea	0.286 mh / ea	254.90 /c	2.55	0.29



4601 CAMBRIDGE RD
 FORT WORTH TX 76155-2233
 Phone: 817-213-1300
 Fax: 817-213-1373

To: JBI ELECTRICAL SYSTEMS INC.
 JBI ELECTRICAL SYSTEMS INC.
 5631 STRATUM DRIVE
 FORT WORTH TX 76137-2709
 Attn: Michael Robinson
 Phone: 682-209-2753
 Fax: 817-625-6696
 Email: CHRIS.LUCAS@GRAYBAR.COM

Date: 06/03/2021
Proj Name: ALEDO ES
GB Project Qte#: 0238116279
 Release Nbr:
 Purchase Order Nbr: WWTP LIGHT QUOTE
 Additional Ref#
 Valid From: 06/03/2021
 Valid To: 07/03/2021
 Contact: CHRIS LUCAS
 Email: chris.lucas@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Notes: **FREIGHT INCLUDED**

Item	Item/Type	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100		2 EA	APPLETON	MLLEDS45CD5B U	STOCKED IN MISSISSIPPI	\$1,270.00	1	\$2,540.00

Total in USD (Tax not included): \$2,540.00

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.