



**OFFICE OF THE CHIEF PROCUREMENT OFFICER
COUNTY OF COOK**

118 NORTH CLARK ST. ROOM 1018
CHICAGO, ILLINOIS 60602-1375
(312) 603-5370

THIS PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
INVOICES, SHIPPING PAPERS AND
DROP SHIPMENTS.

PURCHASE ORDERED ISSUED TO
845783
PASCHEN AUTUMN JOINT VENTURE
5515 N. EAST RIVER ROAD
CHICAGO IL 60656

DATE
2/2/2016
F.O.B. POINT

PURCHASE ORDER NO.
194374 - 000- OP
REQUISITION NO.
00122279 07

COOK COUNTY FEIN: 36-6006541
ILLINOIS SALES TAX EXEMPT: E-9998-2013-04
FEDERAL EXCISE TAX EXEMPT CERT: 36-75-D038K

SHIP TO Capital Planning & Policy
69 W Washington St 30th Fl
Chicago IL 60602-3007

DELIVERY INSTRUCTIONS

CAPITAL PLANNING & POLICY
69 W WASHINGTON - 30TH FL

DEPT NO	
750009000030	Page 1 of 2

LINE	FURNISH THE FOLLOWING SUPPLIES AND/OR SERVICE	QUANTITY/ UOM	UNIT PRICE	EXTENDED PRICE	ACCOUNT NUMBER	
1.00	<p>JOC CONSTRUCTION SERVICES AS PER CONTRACT #12-28-340 MC10 AUTHORIZED BY COUNTY BOARD ON MARCH 20, 2013 CONTRACT PERIOD: MARCH 20, 2013 TO MARCH 19, 2015 WITH 2 ONE-YEAR RENEWAL OPTIONS AMOUNT AUTHORIZED: \$2,000,000.00 *****</p> <p>BOARD ITEM #14-5138 AS AMENDED AUTHORIZED BY COUNTY BOARD ON SEPTEMBER 10, 2014 AMENDED AMOUNT: \$2,000,000.00 TOTAL REVISED AMOUNT AUTHORIZED: \$4,000,000.00 *****</p> <p>EXTENSION PER AMENDMENT #1 AMENDMENT AUTHORIZED BY OCPO ON APRIL 9, 2015 AMENDMENT PERIOD: MARCH 20, 2015 THRU MARCH 19, 2016 *****</p> <p>INCREASE PER AMENDMENT #2 AMENDMENT AUTHORIZED BY COUNTY BOARD ON APRIL 29, 2015 AMOUNT AUTHORIZED: \$349,904.92 TOTAL REVISED AMOUNT AUTHORIZED: \$4,349,904.92 *****</p> <p>WORK ORDER # 031000 PROJECT: DOC CENTRAL KITCHEN CONDENSING UNITS WORK ORDER AMOUNT: \$1,605,484.28 PROJECT MANAGER: SHEILA ATKINS AUTHORIZED BY THE COUNTY BOARD ON SEPTEMBER 11, 2013 *****</p> <p>AMOUNT ENCUMBERED ON P.O. #187297: \$270,100.73 AMOUNT ENCUMBERED ON P.O. #187434: \$138,849.79 AMOUNT ENCUMBERED ON P.O. #188174: \$117,751.90 AMOUNT ENCUMBERED ON P.O. #188176: \$124,166.58 AMOUNT ENCUMBERED ON P.O. #188178: \$57,572.25 AMOUNT ENCUMBERED ON P.O. #188183: \$25,629.72 AMOUNT ENCUMBERED ON P.O. #188189: \$62,681.30 AMOUNT ENCUMBERED ON P.O. #188190: \$65,359.47</p>	.00	JB	.0000	1,605,484.28	750009000030.565140.511

NOTE: VENDOR AGREES NOT TO EXCEED THE QUANTITY OR DOLLAR AMOUNT OF THIS ORDER WITHOUT WRITTEN AUTHORIZATION FROM THE CHIEF PROCUREMENT OFFICER

RECEIPT CERTIFICATION (FOR DEPARTMENT USE ONLY)

I hereby certify that I have received the goods/services reflected above and that the items referenced are in full conformity with the purchase order/contract.

I hereby certify that this purchase is in agreement with the requisition on file authorizing the expenditure and is properly approved.
CHIEF PROCUREMENT OFFICER Date:

Authorized Signature: _____

Date: _____

Shannon E. Anderson (Joc) 2-11-16



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194374 - 000- OP

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00122279 07

COOK COUNTY FEIN: 36-6006541
ILLINOIS SALES TAX EXEMPT: E-9998-2013-04
FEDERAL EXCISE TAX EXEMPT CERT: 36-75-D038K

LINE	FURNISH THE FOLLOWING SUPPLIES AND/OR SERVICE	QUANTITY/ UOM	UNIT PRICE	EXTENDED PRICE	ACCOUNT NUMBER
	AMOUNT ENCUMBERED ON P.O. #188317: \$59,890.74 AMOUNT ENCUMBERED ON P.O. #188362: \$297,919.24 AMOUNT ENCUMBERED ON P.O. #188472: \$20,311.94 AMOUNT ENCUMBERED ON P.O. #188792: \$129,332.78 AMOUNT ENCUMBERED ON P.O. #188792: \$117,809.56 AMOUNT ENCUMBERED ON P.O. #191001: \$161,502.42 Cook County, Description AMOUNT ENCUMBERED ON P.O. #191112: \$176,906.97 AMOUNT ENCUMBERED ON P.O. #192426: \$271,386.71 AMOUNT ENCUMBERED ON P.O. #192847: \$3,276.00 AMOUNT ENCUMBERED ON P.O. #192988: \$21,816.00 AMOUNT ENCUMBERED ON P.O. #192990: \$11,710.00 AMOUNT ENCUMBERED ON P.O. #193453: \$469,259.29 ***** TOTAL PREVIOUSLY ENCUMBERED: \$2,603,233.39 AMOUNT ENCUMBERED ON THIS P.O.: \$1,605,484.28 TOTAL ENCUMBERED AMOUNT INCLUDING THIS P.O.: \$4,208,717.67 ***** BALANCE ON THIS P.O.				
				***** Total Order ***** 1,605,484.28	

Purchase Requisition

Office of the Purchasing Agent

Cook County of Illinois

Purchase Order Number

Requisition # **07** Contract # **122279**

Open Date

Ship To: 8000047 Capital Planning and Policy 69 W Washington St 30th F Chicago IL 60602-3007

Supplier: 845783 PASCHEN AUTUMN JOINT VENTURE 5515 N. EAST RIVER ROAD CHICAGO IL 60656

Buyer Number
Bid/Sole Src Code NCR
Business Unit 750009000030
Internal Req Number 60321295
Board Apr Date & Item
Requisition Date 1/8/2016
Date Needed 1/8/2016

One Time Purchase Yes No Covers Need for _____ months. Specific Period of time _____ thru _____ Prior Contract No. _____ Expiration Date _____ Emergency No. _____

Line #	Commodity Description	Ball on Hand	Quantity	UOM	Est. Unit Cost	Extended Cost	Business Unit and Object Account
1.000 912	CONSTRUCTION SERVICES, GENERAL JOC CONTRACTING. WORK ORDER #031000.00.	<	>	JB	.0000	1,605,484.28	750009000030.565140.5111
2.000 912	PROJECT DIRECTOR: SHEILA ATKINS. 4.5% SYSTEM LICENSING FEE	<	>	JB	.0000	72,246.79	750009000030.565140.5111
Total of Items Ordered						<u>1,677,731.07</u>	

194375

CERTIFICATION
I hereby certify that the items and/or services shown are necessary to the department for the maintenance and betterment of the same and that the same are not in excess of the amount appropriated therefor and that the same have been budgeted and approved by the Board of County Commissioners and that a sufficient unencumbered balance is available to grant same.

[Signature]
REQUESTOR

[Signature]
BUREAU or DEPARTMENT HEAD

CCA

APPROVED BUDGETARY ACCOUNT

PURCHASING USE ONLY

ACCT # _____
DATE _____ BY _____

POST BOARD AGENDA

APPROVED BY THE BOARD OF COOK COUNTY COMMISSIONERS SEP 11 2013
--

BUREAU OF ECONOMIC DEVELOPMENT
OFFICE OF CAPITAL PLANNING AND POLICY

PROPOSED AGREEMENT

Transmitting a Communication from

JOHN COOKE, Director, Office of Capital Planning and Policy

I hereby transmit for your approval a request for the Office of Capital Planning and Policy, as authorized by the Cook County Chief Procurement Officer, to participate in the Cook County's Job Order Contract (JOC) program to complete the three (3) capital projects listed below. JOC is a quantity based procurement process that allows facility owners to complete a multitude of repair/maintenance and construction projects with a single, competitively bid contract. The JOC process generally involves first selecting a pool of potential contractors through a competitive procurement process, and then identifying projects for such selected contractors.

Reason: The County has already completed a JOC competitive procurement process, and it has created the pool of general contractors to perform certain projects generally associated with maintenance, repairs, and routine work. Participating in the County's existing JOC contract, would allow the County to enjoy the myriad cost savings achieved through volume purchases. The JOC program has an administrative component managed by the Gordian Group. The Gordian Group maintains an area price book, which captures the prices for specific construction work items within this region. JOC contractors bid against the prices included in the price book. The cost, therefore, of any work performed by the contractor is a contractor markup from the price book. The Gordian Group would receive a 5 % administrative fee from Cook County based on the total project cost of the work.

The Office of Capital Planning and Policy, request authorization for the Chief Procurement Officer, to:

1. Enter into and execute an agreement with the Gordian Group on the same terms as, and actively participate in the County's JOC agreement for the coordination and administrative management of the JOC program.
2. Do all such acts and things and to execute all contracts necessary to complete the Projects using vendors selected through the County's JOC program.
3. The following projects would be included and assigned by the Gordian Group to participating JOC contractors:

1. Oak Forest UPS System
2. Oak Forest Condensing Unit
3. DOC Central Kitchen-Condensing Units

Estimated Fiscal Impact: \$3,250,000.00.

20000 County Physical Plant and 33000 Oak Forest Hospital.

No lobbying contact was made for this item.

① Oak Forest UPS System

Wk Order 16377 \$ 211,523.⁰⁰
PO# 187338/187339

Wk Order 16377.01
(Supplemental) \$ 29,744.37

PO# 190948/190949

TOTAL = \$ 241,267.³⁷

② Oak Forest Condensing Unit

Wk Order 16373 \$ 283,605.⁷⁷

PO# 187297/187298

TOTAL = \$ 283,605.⁷⁷

③ This Request:
DOC Kitchen Condensing Unit.

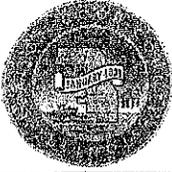
Wk Order 31000

PO# 194374/194375 \$ 1,677,731.⁰⁷

9/11/13 Board Authority \$ 3,250,000.⁰⁰
(1,2,3). Wk Orders - 2,202,604.²¹

\$ 1,047,395.⁷⁹

Remains



Cook County
 Department of Planning & Policy
 69 W Washington
 Chicago, IL 60602

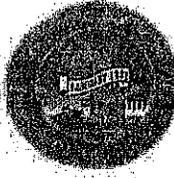
**Job Order Contract (JOC)
 Purchase Order Package Checklist**

Job Order Number: 031000.00
Job Order Name: DOC Central Kitchen Condensing Units
Job Order Location: 2700 S. California, Chicago, IL
Approved Proposal: \$1,605,484.28
Contractor: Paschen Autumn Joint Venture
Construction Duration: 5 Months

- Notice of Proposal Acceptance (NOPA)
- Contractor Evaluation - Project Development
- County Estimate
- County Justification Documents (Provided by PM)
- Cook County Board Approve Documentation If Applicable (Provided by PM)
- Contractor's Job Order Proposal Package (See Below)
 - Approved Price Proposal Summary & Detail (Signed by Contractor)
 - Back-up For Reimbursable
 - Detailed Scope of Work with Project Duration (Signed by Contractor)
 - Drawings (If applicable)
 - Project Picture(s) Documenting Existing Conditions
 - M/WBE Subcontractor Estimate, Disclosure of Retained Parties (Signed by Contractor)
 - Utilization Plan (Signed by Contractor)
 - For Each M/WBE Subcontractor:
 - Letter of Intent (Signed by Subcontractor)
 - Current Certification Letter
 - Detailed Construction Schedule (If Applicable)
 - Special Insurance (If Applicable)
 - Non Pre-Priced Back Up (If Applicable)

Yes
 No Does the Detailed Scope of Work Include Abatement or Other Mitigation?

Reviewed by Gordian PM: *Quentin Ruff* 1/26/2016



Cook County
Office of Planning & Policy
69 W Washington
Chicago, IL 60602

Job Order Number: 031000.00 Contractor: Paschen Autumn Joint Venture
Job Order Name: DOC Central Kitchen Condensing Units Construction Start Date:
Construction Amount: \$1,605,484.28 Construction Completion Date:

Contractor Evaluation - Project Development

S/No	Description	Poor	Average	Excellent	N/A	
1	Rate the Contractor's availability to visit the Project Site with the Owner	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Yes or No, did the Contractor submit the first Price Proposal on time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Rate the quality of the first Price Proposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Rate the quality/timeliness of subsequent Price Proposals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Enter the number of Price Proposals submitted for this Project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Rate the quality/timeliness of the Contractors Final Package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Rate the Contractor's overall performance during the Project Development phase	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Poor=1, Average=2 to 4, 5 = Excellent.

Comments: *FHP has wasted an enormous amount of time submitting intentionally proposals that were priced. Their performance to date, has been very, very poor*

Project Director: *Shula D. O.*



DEPARTMENT OF CAPITAL PLANNING AND POLICY

PHILLIP BOOTHBY

DIRECTOR

69 W. WASHINGTON, SUITE 3000 • CHICAGO, ILLINOIS 60602 • (312) 603-0315

TONI PRECKWINKLE

PRESIDENT

**Cook County Board
of Commissioners**

RICHARD BOYKIN
1st District

ROBERT STEELE
2nd District

JERRY BUTLER
3rd District

STANLEY MOORE
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9th District

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11th District

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14th District

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JEFFREY R. TOBOLSKI
16th District

ELIZABETH ANN DOODY GORMAN
17th District

DATE: December 9, 2015

TO: Shannon E. Andrews, CPO
Office of the Chief Procurement Officer

FROM: Sheila V. Atkins, Project Director
Department of Capital Planning & Policy

SUBJECT: **DOC Central Kitchen Condensing Units
2600 South California Avenue, Chicago, IL
Project and Budget Justification**

This memorandum serves as justification for the procurement of construction services for the above project in the total amount of \$1,605,484.28.

This project fulfills our contractual obligation to the Food Service vendor responsible for detainee meal preparation. Specifically, the vendor refrigerates meat, dairy, fruits and vegetables, condiments and juices in large quantities in numerous freezers and refrigerators.

The County is responsible for supplying adequate, reliable kitchen equipment to support the vendors' contract of 3 meals per day, per detainee; 365 days per year. This project's scope provides new compressor units to cool the various walk-in coolers and freezers, as well as doors, and door hardware to maintain the temperature of said equipment per Department(s) of Health Standards and Justice.

This work is overdue and holds the County in a non-compliance status until completed.

The cost proposal has been reviewed by The Gordian Group, and the Department of Capital Planning & Policy. We find the proposal to be fair and reasonable.

If you have any questions regarding this project you may contact me at (312) 603-0336.


Sheila V. Atkins
Project Director

CC:
P. Boothby
S. Lloyd
The Gordian Group

Job Order Contract

APPROVED - Price Proposal Detail - Category

Date: December 07, 2015
Contract Number: 12-28-340-MC.10
Job Order Number: 031000.00
Job Order Title: DOC Central Kitchen Condensing Units
Contractor: Paschen Autumn Joint Venture
Proposal Value: \$1,605,484.28
Proposal Name: DOC Central Kitchen Condensing Units
Adjustment Factor(s) Used: 0.9447-Normal Working Hours (3/20/2015 to 3/19/16), 1.0000-No Adjustment, 1.0500-Non Pre-priced

Rec#	CSI Number	Mod.	UOM	Description	Line Total								
Category - Cold Storage													
1	01 22 20 00-0010		HR	ElectricianTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$5,962.95								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 60.00 x</td> <td>\$78.90 x</td> <td>0.9447 =</td> <td>\$5,962.95</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 60.00 x	\$78.90 x	0.9447 =	\$5,962.95	
Quantity	Unit Price	Factor	Total										
Installation 60.00 x	\$78.90 x	0.9447 =	\$5,962.95										
				User Note: Electrician required to turn power off, isolate power and turn power back on to existing door motors as required through duration of project. One electrical foreman and one journeyman x 5 days = 80 hours total, 2 guys x 2 hours per door x 4 doors x 5 days.									
2	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$1,214.13								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 24.00 x</td> <td>\$53.55 x</td> <td>0.9447 =</td> <td>\$1,214.13</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 24.00 x	\$53.55 x	0.9447 =	\$1,214.13	
Quantity	Unit Price	Factor	Total										
Installation 24.00 x	\$53.55 x	0.9447 =	\$1,214.13										
				User Note: Additional truck required due to additional vehicles required in order to provide by the oversized doors to the high security jobsite. 2 weeks x 3 days per week x 4 hours per delivery = 24 hours.									
3	01 22 20 00-0044		HR	Investigating Engineer Or Specialty ConsultantFor special investigating requirements or services outside required architectural and engineering services.	\$1,209.22								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 16.00 x</td> <td>\$80.00 x</td> <td>0.9447 =</td> <td>\$1,209.22</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 16.00 x	\$80.00 x	0.9447 =	\$1,209.22	
Quantity	Unit Price	Factor	Total										
Installation 16.00 x	\$80.00 x	0.9447 =	\$1,209.22										
				User Note: Field verification of existing doors, door frames, hardware and all sizes prior to ordering custom materials. Three doors and frames to be replaced; 1 in room 120, 1 in room 144, & 1 in room 145. 2 men x 1 day = 16 hours.									
4	01 31 33 00-0004		EA	Minimum Labor Cost, 3 Person Crew Size	\$1,718.73								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 2.00 x</td> <td>\$809.67 x</td> <td>0.9447 =</td> <td>\$1,718.73</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 2.00 x	\$809.67 x	0.9447 =	\$1,718.73	
Quantity	Unit Price	Factor	Total										
Installation 2.00 x	\$809.67 x	0.9447 =	\$1,718.73										
				User Note: This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/2 hour per man per day. Carpenters required to repair damaged cold storage walls, 3 men x 20 days = 60 days x 1/2 hour = 30 hours total. 3 person crew x 4 hours = 12; 30 hours total / 12 = 2.5 ~ 2 EA									
5	01 74 19 00-0015		EA	20 CY Dumpster (3 Ton) "Construction Debris"Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$1,894.39								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 4.00 x</td> <td>\$501.32 x</td> <td>0.9447 =</td> <td>\$1,894.39</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 4.00 x	\$501.32 x	0.9447 =	\$1,894.39	
Quantity	Unit Price	Factor	Total										
Installation 4.00 x	\$501.32 x	0.9447 =	\$1,894.39										
				User Note: Dumpsters for disposal of cooler doors, associated demolition debris, and packaging materials from new doors as well as general construction debris generated.									
6	05 75 00 00-0023		SF	3/8" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls	\$1,273.78								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 14.00 x</td> <td>\$96.31 x</td> <td>0.9447 =</td> <td>\$1,273.78</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 14.00 x	\$96.31 x	0.9447 =	\$1,273.78	
Quantity	Unit Price	Factor	Total										
Installation 14.00 x	\$96.31 x	0.9447 =	\$1,273.78										
				User Note: Used as the most appropriate CTC item to install the 102" x 20" x 4" thick stainless steel walk-in panel.									

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Cold Storage							
7	08 34 13 00-0003		EA	7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" F.I.P. Polyurethane	\$7,953.01		
				Quantity	Unit Price	Factor	Total
				Installation 1.00 x	\$7,588.42 x	0.9447 =	\$7,168.78
				Demolition 1.00 x	\$830.14 x	0.9447 =	\$784.23
			User Note: Remove existing and provide new cold storage room door associated with room #145 as required.				
8	08 34 13 00-0003		EA	7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" F.I.P. Polyurethane	\$7,953.01		
				Quantity	Unit Price	Factor	Total
				Installation 1.00 x	\$7,588.42 x	0.9447 =	\$7,168.78
				Demolition 1.00 x	\$830.14 x	0.9447 =	\$784.23
			User Note: Removal and installation of new motorized rolling door associated with room #120 as required.				
9	08 34 13 00-0003		EA	7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" F.I.P. Polyurethane	\$7,953.01		
				Quantity	Unit Price	Factor	Total
				Installation 1.00 x	\$7,588.42 x	0.9447 =	\$7,168.78
				Demolition 1.00 x	\$830.14 x	0.9447 =	\$784.23
			User Note: Remove existing and provide new cold storage room door associated with room #144 as required.				
10	08 71 16 00-2138		EA	Floor Concealed Door Closer, Selective Hold Open - Rixson	\$3,049.80		
				Quantity	Unit Price	Factor	Total
				Installation 3.00 x	\$1,004.02 x	0.9447 =	\$2,845.49
				Demolition 3.00 x	\$72.09 x	0.9447 =	\$204.31
			User Note: Remove and replace existing damaged door closers associated with door replacement work as required.				
11	10 26 13 00-0086		LF	4" x 4" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard	\$5,216.20		
				Quantity	Unit Price	Factor	Total
				Installation 106.00 x	\$52.09 x	0.9447 =	\$5,216.20
			User Note: Used as the most appropriate item in the CTC to install all stainless steel wall trim. (6) 10' pieces, (1) 20' piece, (2) 2' pieces, & (1) 40' piece = 106 LF Total.				
12	10 26 13 00-0086	0144		For > 100 To 200 LF, Deduct	-\$220.30		
				Quantity	Unit Price	Factor	Total
				Installation 106.00 x	\$-2.20 x	0.9447 =	\$-220.30
			User Note:				

Subtotal for Category - Cold Storage: \$45,177.93

Category - Concrete							
13	01 22 23 00-0870		DAY	6 CY Rear Dump Truck With Full-Time Truck Driver	\$2,256.00		
				Quantity	Unit Price	Factor	Total
				Installation 3.00 x	\$796.02 x	0.9447 =	\$2,256.00
			User Note: Dump truck used in lieu of dumpsters to remove existing concrete equipment pads which served abandoned cooler equipment being demolished, 980 SF of concrete at 6" depth = 18 CY total x 2 tons per CY = 36 tons total.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Category - Concrete					
14	01 31 33 00-0004		EA	Minimum Labor Cost, 3 Person Crew Size	\$859.37
				Quantity Unit Price Factor Total	
				Installation 1.00 x \$909.67 x 0.9447 = \$859.37	
				User Note: This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/2 hour per man per day. Line item for concrete equipment pad work not associated with specific labor hours. 3 men x 15 days = 45 days x 1/2 hour = 22 hours total. 3 person crew x 4 hours = 12; 22 Total hours / 12 = 1.83 ~ 1 EA	
15	01 74 19 00-0028		CY	Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	\$318.33
				Quantity Unit Price Factor Total	
				Installation 18.00 x \$18.72 x 0.9447 = \$318.33	
				User Note: Disposal fees for properly disposing of the existing concrete equipment pads which serve the cooler equipment being demolished. 980 SF of concrete at 6" depth = 18 CY total.	
16	02 41 13 13-0036		SF	> 6" To 8" By Hand, Break-up And Remove Concrete Paving	\$6,462.13
				Quantity Unit Price Factor Total	
				Installation 980.00 x \$6.98 x 0.9447 = \$6,462.13	
				User Note: Break up and remove existing concrete pads by hand. Equipment unable to operate around existing chiller equipment as well as enter the fenced in area. Ten (10) existing concrete pads to be demolished and removed totaling 980 SF as required per Drawing Sheet 13.	
17	02 61 13 00-0007		CY	Disposal Fees Of Contaminated Soil	\$398.76
				Quantity Unit Price Factor Total	
				Installation 10.00 x \$42.21 x 0.9447 = \$398.76	
				User Note: Disposal fee associated with the soil excavated in the mechanical equipment area due to years exposed to the mechanical equipment fluids and exhaust.	
18	03 11 13 00-0010		LF	>6" To 12" High Slab Edge and Block-Out Wood Formwork	\$958.59
				Quantity Unit Price Factor Total	
				Installation 146.00 x \$6.95 x 0.9447 = \$958.59	
				User Note: Formwork required to place the new concrete equipment pads. Three (3) new concrete pads to be placed - (1) 15'x6'; (1) 25'x8' & (1) 13'x6' = Total perimeter of 146 LF.	
19	03 11 13 00-0010	0004		For < 250, Add	\$179.30
				Quantity Unit Price Factor Total	
				Installation 146.00 x \$1.30 x 0.9447 = \$179.30	
20	03 22 11 00-0009		SF	4 x 4 x #4, 85 LB/CSF, Welded Wire Reinforcement In Slabs, (W 4.0 x W 4.0)	\$476.28
				Quantity Unit Price Factor Total	
				Installation 368.00 x \$1.37 x 0.9447 = \$476.28	
				User Note: WWF to provide reinforcement within the concrete pad, Three (3) new concrete pads to be placed - (1) 15'x6'; (1) 25'x8' & (1) 13'x6' = Total of 368 SF	
21	03 22 11 00-0009	0029		For Epoxy Coated, Add	\$180.78
				Quantity Unit Price Factor Total	
				Installation 368.00 x \$0.52 x 0.9447 = \$180.78	

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Category - Concrete					
22	03 31 13 00-0018		CY	Concrete Pump, Place 3000 PSI Concrete Mat FoundationExcludes pumping equipment.	\$1,019.43
				Quantity Unit Price Factor Total	
				Installation 10.00 x \$107.91 x 0.9447 = \$1,019.43	
				User Note: Concrete to be placed for each of the three new equipment pads. Concrete placed by pump due to the very limit access to the new pads locations due to existing chiller equipment and the existing fence that surrounds the perimeter of the work space. Three (3) new concrete pads to be (1) 15'x8'; (1) 25'x8' & (1) 13'x8' at an 8" depth = 10 CY	
23	03 31 13 00-0079		HR	105' Boom Truck For Concrete Placement (90 CY Per Hour Rating)	\$3,105.75
				Quantity Unit Price Factor Total	
				Installation 15.00 x \$219.17 x 0.9447 = \$3,105.75	
				User Note: Concrete placed by pump due to the very limit access to the new pads locations due to existing chiller equipment and the existing fence that surrounds the perimeter of the work space. Truck to have three (3) separate mobilizations due to the phasing of the project required to maintain opposing chiller systems through out the duration. Each occurrence to be 5 hours. 3 phases and occurrences x 5 hours each = 15 hours total.	
24	03 31 13 00-0087		CY	150' Haul, Non Motorized, Concrete Buggy	\$257.53
				Quantity Unit Price Factor Total	
				Installation 10.00 x \$27.26 x 0.9447 = \$257.53	
				User Note: Buggy used to remove existing concrete inside of mechanical equipment yard to dumpster lay down area.	
25	03 35 16 00-0004		SF	Concrete Floor Finishes, Broom	\$399.80
				Quantity Unit Price Factor Total	
				Installation 368.00 x \$1.15 x 0.9447 = \$399.80	
				User Note: Broom finish applied to all new concrete equipment pads per Drawing Sheet 23. (1) 15'x6'; (1) 25'x8' & (1) 13'x6' = 368 SF.	
26	03 35 16 00-0004	0054		For > 50 To 250 SF, Add	\$399.80
				Quantity Unit Price Factor Total	
				Installation 368.00 x \$1.15 x 0.9447 = \$399.80	
				User Note: Due to phasing, each pad will be poured in three separate mobilizations. New equipment pads range between 78 SF and 200 SF.	
27	31 05 13 00-0013		CY	Light Clay / Loam	\$149.30
				Quantity Unit Price Factor Total	
				Installation 6.00 x \$26.34 x 0.9447 = \$149.30	
				User Note: Loam used to fill in the demolished concrete pads as required to bring the area back up to grade.	
28	31 05 16 00-0005		CY	#6 Stone Aggregate Fill (3/8" To 3/4" Clean)	\$115.96
				Quantity Unit Price Factor Total	
				Installation 5.00 x \$24.55 x 0.9447 = \$115.96	
				User Note: Stone aggregate installed as a base for the three (3) new equipment pads to be installed. base to be 4" deep. 4" x 368 SF / 27 = 5 CY Total	
29	31 05 16 00-0005	0007		For Up To 10, Add	\$32.07
				Quantity Unit Price Factor Total	
				Installation 5.00 x \$6.79 x 0.9447 = \$32.07	
30	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$636.82
				Quantity Unit Price Factor Total	
				Installation 10.00 x \$67.41 x 0.9447 = \$636.82	
				User Note: Excavation of 8" of soil required to place new equipment pads. 4" for half of the concrete pad depth plus 4" for the aggregate sub base. 8" depth x 368 SF / 27 = 10 CY	

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Concrete						
37	31 23 36 00-0041		CY	Grade And Compact Earthen Fill (0-500 CY)Includes spreading, shaping, rough grading, compaction, and watering of imported or stockpiled material by machine.	\$37.20	
			Quantity	Unit Price	Factor	Total
			Installation 11.00 x	\$3.58 x	0.9447 =	\$37.20
	User Note: Grade and compact 6 CY of loam to be placed in the demolished pads and 5 CY of aggregate for the new equipment pad subgrade.					
Subtotal for Category - Concrete:					\$18,243.20	
Category - Demolition						
32	01 31 33 00-0004		EA	Minimum Labor Cost, 3 Person Crew Size	\$859.37	
			Quantity	Unit Price	Factor	Total
			Installation 1.00 x	\$809.67 x	0.9447 =	\$859.37
	User Note: This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/2 hour per man per day. Line item for demolition work not associated with specific labor hours. 3 men x 10 days = 30 days x 1/2 hour = 15 hours total, 3 person crew x 4 hours = 12; 15 hours / 12 = 1.25 ~ 1 EA					
33	23 23 13 00-0006		EA	7/8" Refrigeration Ball Valve, Sweated	\$363.16	
			Quantity	Unit Price	Factor	Total
			Installation 0.00 x	\$48.81 x	0.9447 =	\$0.00
			Demolition 43.00 x	\$8.94 x	0.9447 =	\$363.16
	User Note: Removing existing ball valves between the existing equipment and the building. 43 ball valves equal to or less than 1". Quantity calculation from contract drawings as well as a review of all existing site conditions.					
34	23 23 13 00-0007		EA	1-1/8" Refrigeration Ball Valve, Sweated	\$67.19	
			Quantity	Unit Price	Factor	Total
			Installation 0.00 x	\$65.11 x	0.9447 =	\$0.00
			Demolition 7.00 x	\$10.16 x	0.9447 =	\$67.19
	User Note: Removing existing ball valves between the existing equipment and the building. 7 ball valves greater than 1" or less than 2". quantity calculation from contract drawings as well as a review of all existing conditions.					
35	23 23 13 00-0008		EA	1-5/8" Refrigeration Ball Valve, Sweated	\$23.66	
			Quantity	Unit Price	Factor	Total
			Installation 0.00 x	\$102.58 x	0.9447 =	\$0.00
			Demolition 2.00 x	\$12.52 x	0.9447 =	\$23.66
	User Note: Removing existing ball valves between the existing equipment and the building. Ball Valves greater than 2", 2 Total,					
36	23 23 16 00-0079		LF	1/2" Outside Diameter ACR Copper Tubing, Annealed	\$258.47	
			Quantity	Unit Price	Factor	Total
			Installation 0.00 x	\$4.51 x	0.9447 =	\$0.00
			Demolition 120.00 x	\$2.28 x	0.9447 =	\$258.47
	User Note: Remove existing 1/2" copper tubing between existing equipment and the building to be replaced with new, quantity calculation from contract drawings as well as a review of all existing conditions.					

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Demolition								
37	23 23 16 00-0081		LF	3/4" Outside Diameter ACR Copper Tubing, Annealed	\$355.06			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$6.93 x	0.9447 =	\$0.00
				Demolition	108.00 x	\$3.48 x	0.9447 =	\$355.06
				User Note: Remove existing 3/4", 3/8" & 5/8" copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.				
38	23 23 16 00-0082		LF	7/8" Outside Diameter ACR Copper Tubing, Annealed	\$339.19			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$7.65 x	0.9447 =	\$0.00
				Demolition	96.00 x	\$3.74 x	0.9447 =	\$339.19
				User Note: Remove existing 7/8" copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.				
39	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$466.38			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$8.54 x	0.9447 =	\$0.00
				Demolition	132.00 x	\$3.74 x	0.9447 =	\$466.38
				User Note: Remove existing 1-1/8" copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.				
40	23 23 16 00-0084		LF	1-3/8" Outside Diameter ACR Copper Tubing, Annealed	\$342.81			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$10.57 x	0.9447 =	\$0.00
				Demolition	84.00 x	\$4.32 x	0.9447 =	\$342.81
				User Note: Remove 1-3/8" & 1-1/4" existing copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.				
41	23 23 16 00-0085		LF	1-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$225.82			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$12.56 x	0.9447 =	\$0.00
				Demolition	48.00 x	\$4.98 x	0.9447 =	\$225.82
				User Note: Remove 1-5/8" existing copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.				
42	23 23 16 00-0086		LF	2-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$446.58			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$17.51 x	0.9447 =	\$0.00
				Demolition	78.00 x	\$6.22 x	0.9447 =	\$446.58
				User Note: Remove existing 2-1/8" copper tubing between existing equipment and the building to be replaced with new. quantity calculation from contract drawings as well as a review of all existing conditions.				
43	23 23 16 00-0087		LF	2-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$310.48			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$25.72 x	0.9447 =	\$0.00
				Demolition	35.00 x	\$9.39 x	0.9447 =	\$310.48
				User Note: Remove existing 2-5/8" copper tubing between existing equipment and the building to be replaced with new. quantity calculation from contract drawings as well as a review of all existing conditions.				
44	23 23 16 00-0088		LF	3-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$296.39			
				Quantity	Unit Price	Factor	Total	
				Installation	0.00 x	\$33.51 x	0.9447 =	\$0.00
				Demolition	27.00 x	\$11.62 x	0.9447 =	\$296.39
				User Note: Remove 3-1/8" existing copper tubing between existing equipment and the building to be replaced with new. quantity calculation from contract drawings as well as a review of all existing conditions.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Demolition							
45	23 23 16 00-0090		LF	4-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$643.35		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$51.25	x 0.9447 =	\$0.00
				Demolition	41.00 x \$16.61	x 0.9447 =	\$643.35
				User Note: Remove existing 4-1/8" copper tubing between existing equipment and the building to be replaced with new. Quantity calculation from contract drawings as well as a review of all existing conditions.			
46	23 61 13 00-0006		EA	60 Ton R-134a Air-Cooled Centrifugal CompressorMagnetic bearings.	\$7,059.18		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$21,806.11	x 0.9447 =	\$0.00
				Demolition	6.00 x \$1,245.40	x 0.9447 =	\$7,059.18
				User Note: Remove existing compressors associated with refrigeration equipment. Six (6) compressor systems to be removed per plan.			
47	23 61 13 00-0009		EA	90 Ton R-134a Air-Cooled Centrifugal CompressorMagnetic bearings.	\$1,361.92		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$26,400.49	x 0.9447 =	\$0.00
				Demolition	1.00 x \$1,441.64	x 0.9447 =	\$1,361.92
				User Note: Remove existing compressor refrigeration machine. One (1) ninety (90) ton system to be removed per plan.			
48	23 62 13 00-0035		EA	30 Ton Packaged Chiller With Remote Air Cooled Condensers	\$29,591.56		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$50,089.81	x 0.9447 =	\$0.00
				Demolition	4.00 x \$7,830.94	x 0.9447 =	\$29,591.56
				User Note: Remove existing air cooled condenser refrigeration in their entirety. Four (4) 30 ton units to be removed per plan.			
49	23 62 13 00-0040		EA	75 Ton Packaged Chiller With Remote Air Cooled Condensers	\$19,828.78		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$92,521.67	x 0.9447 =	\$0.00
				Demolition	2.00 x \$10,494.75	x 0.9447 =	\$19,828.78
				User Note: Used as the most accurate item in the CTC for the removal of the out of service ice builder units to be removed per the plan. Two (2) ice builder units to be removed per plan.			
50	23 62 13 00-0040		EA	75 Ton Packaged Chiller With Remote Air Cooled Condensers	\$19,828.78		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$92,521.67	x 0.9447 =	\$0.00
				Demolition	2.00 x \$10,494.75	x 0.9447 =	\$19,828.78
				User Note: Remove out of service air cooled condenser refrigeration in their entirety. Two (2) units to be removed per plan.			
51	23 62 13 00-0042		EA	90 Ton Packaged Chiller With Remote Air Cooled Condensers	\$21,631.51		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$104,555.33	x 0.9447 =	\$0.00
				Demolition	2.00 x \$11,448.88	x 0.9447 =	\$21,631.51
				User Note: Remove existing air cooled condenser refrigeration in their entirety. Two (2) larger tonnage units to be removed per plan.			
52	23 61 23 00-0043		EA	5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	\$5,233.05		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$15,252.98	x 0.9447 =	\$0.00
				Demolition	6.00 x \$923.23	x 0.9447 =	\$5,233.05
				User Note: Used as the most appropriate item in the CTC to demo the ceiling mounted freezer evaporator coils to be removed per plan. Quantity calculation from contract drawings as well as a review of all existing conditions.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Demolition							
53	23 81 23 00-0043		EA	5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	\$27,037.44		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x \$15,252.96	x 0.9447 =	\$0.00
				Demolition	31.00 x \$823.23	x 0.9447 =	\$27,037.44
				User Note: Used as the most appropriate item in the CTC to demo the ceiling mounted refrigerator evaporator coils to be removed per plan.			
Subtotal for Category - Demolition:					\$136,570.13		
Category - Electrical							
54	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$2,023.55		
				Quantity	Unit Price	Factor	Total
				Installation	40.00 x \$53.55	x 0.9447 =	\$2,023.55
				User Note: Truck driver required to deliver electrical materials and equipment associated with RDMC 10-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 10 days of delivery x 4 hours per day = 40 hours.			
55	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$404.71		
				Quantity	Unit Price	Factor	Total
				Installation	8.00 x \$53.55	x 0.9447 =	\$404.71
				User Note: Truck driver required to deliver electrical materials and equipment associated with RDMC 2-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 2 days of delivery x 4 hours per day = 8 hours.			
56	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$607.06		
				Quantity	Unit Price	Factor	Total
				Installation	12.00 x \$53.55	x 0.9447 =	\$607.06
				User Note: Truck driver required to deliver electrical materials and equipment associated with RDMC 3-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 3 days of delivery x 4 hours per day = 12 hours.			
57	01 22 23 00-0054		MO	30' Electric, Scissor Platform Lift	\$6,681.73		
				Quantity	Unit Price	Factor	Total
				Installation	6.00 x \$1,178.61	x 0.9447 =	\$6,681.73
				User Note: Scissor platform lift utilized for the electrician as required to reach ceilings that at many locations are over 20' high. 3 lifts total; 1 lift x 4 months for evaporation coils associated with RDMC 10-4 HT, 1 lift x 1 month for evaporation coils associated with RDMC 3-4 LT, and 1 lift x 1 month for evaporation coil associated with RDMC 2-4 MT.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Electrical						
58	01 31 33 00-0004	EA		Minimum Labor Cost, 3 Person Crew Size	\$9,453.02	
			Quantity	Unit Price	Factor	Total
			Installation	11.00 x \$909.67	x 0.9447 =	\$9,453.02
		User Note: This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/4 hour per man per day. Line item for RDMC 3-4 LT, RDMC 10-4 HT, and RDMC 2-4 MT work not associated with specific labor hours. 3 men x 20 days = 60 days x 1/2 hour = 30 hours total, 3 men x 45 days = 135 days x 1/2 hour = 67 hours total. 3 men x 25 days = 75 days x 1/2 hour = 37 hours total 30 Hours + 67 Hours + 37 Hours = 134 Hours Total 134 Total Hours / 12 Hours (3 Person Man Crew x 4 Hours) = 11.17 ~ 11 EA				
59	01 91 13 00-0005	HR		Commissioning - Electrical/Fire Alarms/Security Systems	\$8,348.13	
			Quantity	Unit Price	Factor	Total
			Installation	56.00 x \$157.80	x 0.9447 =	\$8,348.12
		User Note: Commissioning of the electrical power and controller systems associated with RDMC 10-4. 1 person x 8 hours for exterior condensing unit = 8 hours total, 1 person x 2 hours x 24 interior evaporator coils = 48 hours total. 8 hours + 48 hours = 56 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 10-4 includes: (10) 12hp to 18hp LT Parallel Scroll Comps, (1) 35.0 RLA Condenser Fan Motor, & (24) Evaporator Coils. In addition due to phasing of system, each commissioning requires a separate occurrence for each one.				
60	01 91 13 00-0005	HR		Commissioning - Electrical/Fire Alarms/Security Systems	\$2,683.33	
			Quantity	Unit Price	Factor	Total
			Installation	18.00 x \$157.80	x 0.9447 =	\$2,683.33
		User Note: Commissioning of the electrical controls systems associated with RDMC 3-4. 1 person x 8 hours for exterior condensing unit = 8 hours total, 1 person x 2 hours x 5 interior evaporator coils = 10 hours total. 8 hours + 10 hours = 18 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 3-4 includes: (4) 15hp LT Parallel Scroll Comps, (1) 10.5 RLA Condenser Fan Motor, & (5) Evaporator Coils. In addition due to phasing of system, each commissioning requires a separate occurrence for each one.				
61	01 91 13 00-0005	HR		Commissioning - Electrical/Fire Alarms/Security Systems	\$3,279.62	
			Quantity	Unit Price	Factor	Total
			Installation	22.00 x \$157.80	x 0.9447 =	\$3,279.62
		User Note: Commissioning of the electrical controls systems associated with RDMC 2-4. 1 person x 8 hours for exterior condensing unit = 8 hours total, 1 person x 2 hours x 7 interior evaporator coils = 14 hours total. 8 hours + 14 hours = 22 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 2-4 includes: (4) 5hp LT Parallel Scroll Comps, (1) 7.0 RLA Condenser Fan Motor, & (7) Evaporator Coils. In addition due to phasing of system, each commissioning requires a separate occurrence for each one.				
62	02 41 19 13-0192	IN		3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$6,254.80	
			Quantity	Unit Price	Factor	Total
			Installation	3,294.00 x \$2.01	x 0.9447 =	\$6,254.80
		User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed, 1464 anchors installed for the 3/4" conduit hangers running to RDMC 10-4, 1464 anchors x 2.25" depth each = 3294 IN Total				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Electrical								
63	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$1,767.83			
				Quantity	Unit Price	Factor	Total	
				Installation	931.00 x	\$2.01 x	0.9447 =	\$1,767.83
				User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed. 414 anchors installed for the 3/4" conduit hangers running to RDMC 2-4. 414 anchors x 2.25" depth each = 931 IN Total				
64	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$1,186.78			
				Quantity	Unit Price	Factor	Total	
				Installation	625.00 x	\$2.01 x	0.9447 =	\$1,186.78
				User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed. 278 anchors installed for the 1-1/4" conduit hangers running to RDMC 2-4. 278 anchors x 2.25" depth each = 625 IN Total				
65	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$1,306.41			
				Quantity	Unit Price	Factor	Total	
				Installation	688.00 x	\$2.01 x	0.9447 =	\$1,306.41
				User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed. 306 anchors installed for the 3/4" conduit hangers running to RDMC 3-4. 306 anchors x 2.25" depth each = 688 IN Total				
66	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$1,315.90			
				Quantity	Unit Price	Factor	Total	
				Installation	693.00 x	\$2.01 x	0.9447 =	\$1,315.90
				User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed. 308 anchors installed for the 1-1/4" conduit hangers running to RDMC 10-4. 308 anchors x 2.25" depth each = 693 IN Total				
67	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$1,093.74			
				Quantity	Unit Price	Factor	Total	
				Installation	576.00 x	\$2.01 x	0.9447 =	\$1,093.74
				User Note: Drilling required prior to the installation of the wedge anchors used to mount the conduit hanger system to the concrete decking. 2.25" drilling per wedge anchor installed. 256 anchors installed for the 1-1/4" conduit hangers running to RDMC 3-4. 256 anchors x 2.25" depth each = 576 IN Total				
68	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$2,594.98			
				Quantity	Unit Price	Factor	Total	
				Installation	256.00 x	\$10.73 x	0.9447 =	\$2,594.98
				User Note: Two (2) wedge anchors installed per 1-1/4" conduit hanger system running to RDMC 3-4. 128 hangers installed x 2 anchors per hanger = 256 anchors total. Quantity calculation from contract drawings as well as a review of all existing conditions.				
69	05 05 23 00-0124	0039		For >100, Deduct	-\$493.36			
				Quantity	Unit Price	Factor	Total	
				Installation	256.00 x	\$-2.04 x	0.9447 =	-\$493.36
70	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$3,122.08			
				Quantity	Unit Price	Factor	Total	
				Installation	308.00 x	\$10.73 x	0.9447 =	\$3,122.08
				User Note: Two (2) wedge anchors installed per 1-1/4" conduit hanger system running to RDMC 10-4. 154 hangers installed x 2 anchors per hanger = 308 anchors total				
71	05 05 23 00-0124	0039		For >100, Deduct	-\$593.57			
				Quantity	Unit Price	Factor	Total	
				Installation	308.00 x	\$-2.04 x	0.9447 =	-\$593.57

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Electrical							
72	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$2,817.98		
				Quantity	Unit Price	Factor	Total
			Installation	278.00	x \$10.73	x 0.9447 =	\$2,817.98
			User Note:	Two (2) wedge anchors installed per 1-1/4" conduit hanger system running to RDMC 2-4. 139 hangers installed x 2 anchors per hanger = 278 anchors total. Quantity calculation from contract drawings as well as a review of all existing site conditions.			
73	05 05 23 00-0124	0039		For >100, Deduct	-\$535.76		
				Quantity	Unit Price	Factor	Total
			Installation	278.00	x \$-2.04	x 0.9447 =	-\$535.76
74	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$4,196.57		
				Quantity	Unit Price	Factor	Total
			Installation	414.00	x \$10.73	x 0.9447 =	\$4,196.57
			User Note:	Two (2) wedge anchors installed per 3/4" conduit hanger system running to RDMC 2-4. 207 hangers installed x 2 anchors per hanger = 414 anchors total			
75	05 05 23 00-0124	0039		For >100, Deduct	-\$797.86		
				Quantity	Unit Price	Factor	Total
			Installation	414.00	x \$-2.04	x 0.9447 =	-\$797.86
76	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$14,840.03		
				Quantity	Unit Price	Factor	Total
			Installation	1,464.00	x \$10.73	x 0.9447 =	\$14,840.03
			User Note:	Two (2) wedge anchors installed per 3/4" conduit hanger system running to RDMC 10-4. 732 hangers installed x 2 anchors per hanger = 1464 anchors total			
77	05 05 23 00-0124	0039		For >100, Deduct	-\$2,821.40		
				Quantity	Unit Price	Factor	Total
			Installation	1,464.00	x \$-2.04	x 0.9447 =	-\$2,821.40
78	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$3,101.81		
				Quantity	Unit Price	Factor	Total
			Installation	306.00	x \$10.73	x 0.9447 =	\$3,101.81
			User Note:	Two (2) wedge anchors installed per 3/4" conduit hanger system running to RDMC 3-4. 153 hangers installed x 2 anchors per hanger = 306 anchors total			
79	05 05 23 00-0124	0039		For >100, Deduct	-\$589.72		
				Quantity	Unit Price	Factor	Total
			Installation	306.00	x \$-2.04	x 0.9447 =	-\$589.72
80	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$3,543.42		
				Quantity	Unit Price	Factor	Total
			Installation	828.00	x \$4.53	x 0.9447 =	\$3,543.42
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 3/4" conduit runs to RDMC 2-4. 207 hangers x 2 pieces of rod x 2' length each = 828 LF of Rod			
81	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$2,636.17		
				Quantity	Unit Price	Factor	Total
			Installation	616.00	x \$4.53	x 0.9447 =	\$2,636.17
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 1-1/4" conduit runs to RDMC 10-4. 154 hangers x 2 pieces of rod x 2' length each = 616 LF of Rod. Quantity calculation from contract drawings as well as a review of all existing conditions.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Electrical							
82	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$2,379.40		
				Quantity	Unit Price	Factor	Total
			Installation	558.00	x \$4.53	x 0.9447	= \$2,379.40
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 1-1/4" conduit runs to RDMC 2-4. 139 hangers x 2 pieces of rod x 2' length each = 556 LF of Rod			
83	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$2,619.05		
				Quantity	Unit Price	Factor	Total
			Installation	612.00	x \$4.53	x 0.9447	= \$2,619.05
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 3/4" conduit runs to RDMC 3-4. 153 hangers x 2 pieces of rod x 2' length each = 612 LF of Rod			
84	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$2,191.10		
				Quantity	Unit Price	Factor	Total
			Installation	512.00	x \$4.53	x 0.9447	= \$2,191.10
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 1-1/4" conduit runs to RDMC 3-4. 128 hangers x 2 pieces of rod x 2' length each = 512 LF of Rod. Quantity calculation from contract drawings as well as a review of all existing conditions.			
85	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$12,530.35		
				Quantity	Unit Price	Factor	Total
			Installation	2,928.00	x \$4.53	x 0.9447	= \$12,530.35
			User Note:	Two (2) pieces of 3/8" threaded rod at 2' lengths each to be provided for each hanger assembly installed to support the 3/4" conduit runs to RDMC 10-4. 732 hangers x 2 pieces of rod x 2' length each = 2928 LF of Rod			
86	26 05 19 16-0525		MLF	#4 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$3,897.48		
				Quantity	Unit Price	Factor	Total
			Installation	2.30	x \$1,793.75	x 0.9447	= \$3,897.48
			User Note:	#4 AWG cable required to run power to the four (4) parallel scroll compressors located in RDMC 3-4.			
				No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.			
87	26 05 19 16-0525		MLF	#4 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$5,253.12		
				Quantity	Unit Price	Factor	Total
			Installation	3.10	x \$1,793.75	x 0.9447	= \$5,253.12
			User Note:	#4 AWG cable required to run power to the four (4) parallel scroll compressors located in RDMC 10-4.			
				No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.			
88	26 05 19 16-0525		MLF	#4 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$3,558.57		
				Quantity	Unit Price	Factor	Total
			Installation	2.10	x \$1,793.75	x 0.9447	= \$3,558.57
			User Note:	#4 AWG cable required to run power to the (4) parallel scroll compressors located in RDMC 2-4.			
				No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Electrical							
89	28 05 19 16-0527		MLF	#2 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$1,190.34		
				Quantity	Unit Price	Factor	Total
			Installation	0.49 x	\$2,571.47 x	0.9447 =	\$1,190.34
			User Note: #2 AWG cable installed to ground the motor term to 600V as required for RDMC 3-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
90	28 05 19 16-0527		MLF	#2 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$5,587.32		
				Quantity	Unit Price	Factor	Total
			Installation	2.30 x	\$2,571.47 x	0.9447 =	\$5,587.32
			User Note: #2 AWG cable installed to ground the motor term to 600V as required for RDMC 10-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. quantity calculation from contract drawings as well as a review of all existing conditions.				
91	28 05 19 16-0527		MLF	#2 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$1,627.61		
				Quantity	Unit Price	Factor	Total
			Installation	0.67 x	\$2,571.47 x	0.9447 =	\$1,627.61
			User Note: #2 AWG cable installed to ground the motor term to 600V as required for RDMC 2-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
92	28 05 19 16-0535		MLF	350 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$3,818.26		
				Quantity	Unit Price	Factor	Total
			Installation	0.45 x	\$8,981.70 x	0.9447 =	\$3,818.26
			User Note: 350 MCM cable installed as required to ground the 100 Amp main fused disconnect on RDMC 10-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
93	28 05 19 16-0535		MLF	350 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$2,800.05		
				Quantity	Unit Price	Factor	Total
			Installation	0.33 x	\$8,981.70 x	0.9447 =	\$2,800.05
			User Note: 350 MCM cable installed as required to ground the 100 Amp main fused disconnect on RDMC 2-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
94	28 05 19 16-0535		MLF	350 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$2,036.40		
				Quantity	Unit Price	Factor	Total
			Installation	0.24 x	\$8,981.70 x	0.9447 =	\$2,036.40
			User Note: 350 MCM cable installed as required to ground the 100 Amp main fused disconnect on RDMC 3-4.				
			No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. quantity calculation from contract drawings as well as a review of all existing conditions.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UCM	Description	Line Total								
Category - Electrical													
95	26 05 19 16-0537		MLF	500 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$9,859.91								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 0.87 x</td> <td>\$11,996.65 x</td> <td>0.9447 =</td> <td>\$9,859.91</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 0.87 x	\$11,996.65 x	0.9447 =	\$9,859.91	
Quantity	Unit Price	Factor	Total										
Installation 0.87 x	\$11,996.65 x	0.9447 =	\$9,859.91										
			User Note:	500 MCM cable required to run power from the supply to the 100 Amp main fused disconnect on RDMC 3-4, 500 MCM cable used for power feed, 350 MCM cable used for grounding. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.									
96	26 05 19 16-0537		MLF	500 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$9,746.58								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 0.86 x</td> <td>\$11,996.65 x</td> <td>0.9447 =</td> <td>\$9,746.58</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 0.86 x	\$11,996.65 x	0.9447 =	\$9,746.58	
Quantity	Unit Price	Factor	Total										
Installation 0.86 x	\$11,996.65 x	0.9447 =	\$9,746.58										
			User Note:	500 MCM cable required to run power from the supply to the 100 Amp main fused disconnect on RDMC 2-4, 500 MCM cable used for power feed, 350 MCM cable used for grounding. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.									
97	26 05 19 16-0537		MLF	500 MCM Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$10,313.24								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 0.91 x</td> <td>\$11,996.65 x</td> <td>0.9447 =</td> <td>\$10,313.24</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 0.91 x	\$11,996.65 x	0.9447 =	\$10,313.24	
Quantity	Unit Price	Factor	Total										
Installation 0.91 x	\$11,996.65 x	0.9447 =	\$10,313.24										
			User Note:	500 MCM cable required to run power from the supply to the 400 Amp main fused disconnect on RDMC 10-4, 500 MCM cable used for power feed, 350 MCM cable used for grounding. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. quantity calculation from contract drawings as well as a review of all existing conditions.									
98	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$1,470.41								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 128.00 x</td> <td>\$12.16 x</td> <td>0.9447 =</td> <td>\$1,470.41</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 128.00 x	\$12.16 x	0.9447 =	\$1,470.41	
Quantity	Unit Price	Factor	Total										
Installation 128.00 x	\$12.16 x	0.9447 =	\$1,470.41										
			User Note:	Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 816 LF of 1-1/4" conduit being installed along the ceilings for RDMC 3-4 supported every 5 ft = 128 hangers required, 1 LF of unistrut used for each hanger = 128 LF of unistrut.									
99	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$6,408.89								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 732.00 x</td> <td>\$12.16 x</td> <td>0.9447 =</td> <td>\$6,408.89</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 732.00 x	\$12.16 x	0.9447 =	\$6,408.89	
Quantity	Unit Price	Factor	Total										
Installation 732.00 x	\$12.16 x	0.9447 =	\$6,408.89										
			User Note:	Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 3658 LF of 3/4" conduit being installed along the ceilings for RDMC 10-4 supported every 5 ft = 732 hangers required, 1 LF of unistrut used for each hanger = 732 LF of unistrut.									
100	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$1,757.60								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 153.00 x</td> <td>\$12.16 x</td> <td>0.9447 =</td> <td>\$1,757.60</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 153.00 x	\$12.16 x	0.9447 =	\$1,757.60	
Quantity	Unit Price	Factor	Total										
Installation 153.00 x	\$12.16 x	0.9447 =	\$1,757.60										
			User Note:	Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 764 LF of 3/4" conduit being installed along the ceilings for RDMC 3-4 supported every 5 ft = 153 hangers required, 1 LF of unistrut used for each hanger = 153 LF of unistrut.									
101	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$2,377.92								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 207.00 x</td> <td>\$12.16 x</td> <td>0.9447 =</td> <td>\$2,377.92</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 207.00 x	\$12.16 x	0.9447 =	\$2,377.92	
Quantity	Unit Price	Factor	Total										
Installation 207.00 x	\$12.16 x	0.9447 =	\$2,377.92										
			User Note:	Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 1037 LF of 3/4" conduit being installed along the ceilings for RDMC 2-4 supported every 5 ft = 207 hangers required, 1 LF of unistrut used for each hanger = 207 LF of unistrut.									

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Electrical						
102	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$1,596.77	
			Quantity	Unit Price	Factor	Total
			Installation	139.00 x \$12.16 x	0.9447 =	\$1,596.77
			User Note: Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 990 LF of 1-1/4" conduit being installed along the ceilings for RDMC 2-4 supported every 5 ft = 139 hangers required. 1 LF of unistrut used for each hanger = 139 LF of unistrut.			
103	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$1,769.08	
			Quantity	Unit Price	Factor	Total
			Installation	154.00 x \$12.16 x	0.9447 =	\$1,769.08
			User Note: Unistrut installed as required to build the hanger system necessary to properly mount the horizontally running conduit along the ceilings. 1100 LF of 1-1/4" conduit being installed along the ceilings for RDMC 10-4 supported every 5 ft = 154 hangers required. 1 LF of unistrut used for each hanger = 154 LF of unistrut.			
104	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$2,389.90	
			Quantity	Unit Price	Factor	Total
			Installation	278.00 x \$9.10 x	0.9447 =	\$2,389.90
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 139 hangers installed for the 1-1/4" conduit running to RDMC 2-4 as required. 139 hangers x 2 caps for each end = 278 Total			
105	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$2,200.77	
			Quantity	Unit Price	Factor	Total
			Installation	256.00 x \$9.10 x	0.9447 =	\$2,200.77
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 128 hangers installed for the 1-1/4" conduit running to RDMC 3-4 as required. 128 hangers x 2 caps for each end = 256 Total			
106	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$3,559.06	
			Quantity	Unit Price	Factor	Total
			Installation	414.00 x \$9.10 x	0.9447 =	\$3,559.06
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 207 hangers installed for the 3/4" conduit running to RDMC 2-4 as required. 207 hangers x 2 caps for each end = 414 Total			
107	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$12,585.67	
			Quantity	Unit Price	Factor	Total
			Installation	1,464.00 x \$9.10 x	0.9447 =	\$12,585.67
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 732 hangers installed for the 3/4" conduit running to RDMC 10-4 as required. 732 hangers x 2 caps for each end = 1464 Total			
108	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$2,647.81	
			Quantity	Unit Price	Factor	Total
			Installation	308.00 x \$9.10 x	0.9447 =	\$2,647.81
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 154 hangers installed for the 1-1/4" conduit running to RDMC 10-4 as required. 154 hangers x 2 caps for each end = 308 Total			
109	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$2,630.61	
			Quantity	Unit Price	Factor	Total
			Installation	306.00 x \$9.10 x	0.9447 =	\$2,630.61
			User Note: End caps for unistrut channel installed on each end of the unistrut used in the hanger assembly. 2 ends for each hanger provided. 153 hangers installed for the 3/4" conduit running to RDMC 3-4 as required. 153 hangers x 2 caps for each end = 306 Total			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Electrical								
110	26 05 29 00-0031		EA	3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$462.53			
				Quantity	Unit Price	Factor	Total	
				Installation	153.00 x	\$3.20 x	0.9447 =	\$462.53
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 3/4" run of conduit to RDMC 3-4. 153 hangers = 153 clamps				
111	26 05 29 00-0031		EA	3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$2,212.87			
				Quantity	Unit Price	Factor	Total	
				Installation	732.00 x	\$3.20 x	0.9447 =	\$2,212.87
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 3/4" run of conduit to RDMC 10-4. 732 hangers = 732 clamps				
112	26 05 29 00-0031		EA	3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$625.77			
				Quantity	Unit Price	Factor	Total	
				Installation	207.00 x	\$3.20 x	0.9447 =	\$625.77
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 3/4" run of conduit to RDMC 2-4. 207 hangers = 207 clamps				
113	26 05 29 00-0033		EA	1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$544.95			
				Quantity	Unit Price	Factor	Total	
				Installation	139.00 x	\$4.15 x	0.9447 =	\$544.95
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 1-1/4" run of conduit to RDMC 2-4. 139 hangers = 139 clamps				
114	26 05 29 00-0033		EA	1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$501.82			
				Quantity	Unit Price	Factor	Total	
				Installation	128.00 x	\$4.15 x	0.9447 =	\$501.82
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 1-1/4" run of conduit to RDMC 3-4. 128 hangers = 128 clamps				
115	26 05 29 00-0033		EA	1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	\$603.76			
				Quantity	Unit Price	Factor	Total	
				Installation	154.00 x	\$4.15 x	0.9447 =	\$603.76
				User Note: Conduit clamp for unistrut channel installed at each hanger provided for the 1-1/4" run of conduit to RDMC 10-4. 154 hangers = 154 clamps				
116	26 05 33 13-0007		CLF	3/4" EMT With 3 #12 THHN/THWN Assembly Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$8,760.50			
				Quantity	Unit Price	Factor	Total	
				Installation	14.82 x	\$625.73 x	0.9447 =	\$8,760.50
				User Note: New 3/4" conduit installed to run wire to the new RDMC 2-4 to the new evaporator coils installed as required to provide power, controls to the defrost panels, and to run fan cycles. Quantity calculation from contract drawings as well as a review of all existing conditions.				
117	26 05 33 13-0007	0018		For Work in Restricted Working Space, Add	\$2,291.03			
				Quantity	Unit Price	Factor	Total	
				Installation	14.82 x	\$163.64 x	0.9447 =	\$2,291.03
118	26 05 33 13-0007		CLF	3/4" EMT With 3 #12 THHN/THWN Assembly Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$30,892.30			
				Quantity	Unit Price	Factor	Total	
				Installation	52.26 x	\$625.73 x	0.9447 =	\$30,892.30
				User Note: New 3/4" conduit installed to run wire to the new RDMC 10-4 to the new evaporator coils installed as required to provide power, controls to the defrost panels, and to run fan cycles. Quantity calculation from contract drawings as well as a review of all existing conditions.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Electrical							
119	26 05 33 13-0007	0018		For Work In Restricted Working Space, Add	\$8,078.91		
				Quantity	Unit Price	Factor	Total
			Installation	52.28 x	\$163.64 x	0.9447 =	\$8,078.91
120	26 05 33 13-0007		CLF	3/4" EMT With 3 #12 THHN/THWN Assembly/Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$6,455.11		
				Quantity	Unit Price	Factor	Total
			Installation	10.92 x	\$625.73 x	0.9447 =	\$6,455.11
			User Note:	New 3/4" conduit installed to run wire to the new RDMC 3-4 to the new evaporator coils installed as required to provide power, controls to the defrost panels, and to run fan cycles. Quantity calculation from contract drawings as well as a review of all existing conditions.			
121	26 05 33 13-0007	0018		For Work In Restricted Working Space, Add	\$1,688.13		
				Quantity	Unit Price	Factor	Total
			Installation	10.92 x	\$163.64 x	0.9447 =	\$1,688.13
122	26 05 33 13-0286		LF	1-1/4" EMT Conduit	\$5,489.94		
				Quantity	Unit Price	Factor	Total
			Installation	990.00 x	\$5.87 x	0.9447 =	\$5,489.94
			User Note:	1-1/4" installed to run wire as required to bring power to the compressors and motors associated with RDMC 2-4. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.			
123	26 05 33 13-0286	0027		For > 500 To 1000, Deduct	-\$308.63		
				Quantity	Unit Price	Factor	Total
			Installation	990.00 x	\$-0.33 x	0.9447 =	-\$308.63
124	26 05 33 13-0286	0032		For Work In Restricted Working Space, Add	\$883.81		
				Quantity	Unit Price	Factor	Total
			Installation	683.00 x	\$1.35 x	0.9447 =	\$883.81
125	26 05 33 13-0286	0033		For Installation Above 14', Add	\$445.18		
				Quantity	Unit Price	Factor	Total
			Installation	693.00 x	\$0.68 x	0.9447 =	\$445.18
126	26 05 33 13-0286		LF	1-1/4" EMT Conduit	\$6,099.93		
				Quantity	Unit Price	Factor	Total
			Installation	1,100.00 x	\$5.87 x	0.9447 =	\$6,099.93
			User Note:	1-1/4" installed to run wire as required to bring power to the compressors and motors associated with RDMC 10-4. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.			
127	26 05 33 13-0286	0028		For > 1000, Deduct	-\$488.41		
				Quantity	Unit Price	Factor	Total
			Installation	1,100.00 x	\$-0.47 x	0.9447 =	-\$488.41
128	26 05 33 13-0286	0032		For Work In Restricted Working Space, Add	\$982.02		
				Quantity	Unit Price	Factor	Total
			Installation	770.00 x	\$1.35 x	0.9447 =	\$982.02
129	26 05 33 13-0286	0033		For Installation Above 14', Add	\$494.64		
				Quantity	Unit Price	Factor	Total
			Installation	770.00 x	\$0.68 x	0.9447 =	\$494.64

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Electrical							
130	26 05 33 13-0286		LF	1-1/4" EMT Conduit	\$5,079.56		
			Quantity	Unit Price	Factor	Total	
			Installation	916.00 x	\$5.87 x	0.9447 =	\$5,079.56
			User Note: 1-1/4" installed to run wire as required to bring power to the compressors and motors associated with RDMC 3-4. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
131	26 05 33 13-0286	0027		For > 500 To 1000, Deduct	-\$285.56		
			Quantity	Unit Price	Factor	Total	
			Installation	916.00 x	-\$0.33 x	0.9447 =	-\$285.56
132	26 05 33 13-0286	0032		For Work In Restricted Working Space, Add	\$817.50		
			Quantity	Unit Price	Factor	Total	
			Installation	641.00 x	\$1.35 x	0.9447 =	\$817.50
133	26 05 33 13-0286	0033		For Installation Above 14', Add	\$411.78		
			Quantity	Unit Price	Factor	Total	
			Installation	641.00 x	\$0.66 x	0.9447 =	\$411.78
134	26 05 33 13-0292		LF	4" EMT Conduit	\$5,608.12		
			Quantity	Unit Price	Factor	Total	
			Installation	170.00 x	\$34.92 x	0.9447 =	\$5,608.12
			User Note: 4" EMT conduit installed to run the power from the supply to the main fused disconnect on RDMC 3-4. Quantity calculation from contract drawings as well as a review of all existing conditions.				
135	26 05 33 13-0292		LF	4" EMT Conduit	\$5,278.23		
			Quantity	Unit Price	Factor	Total	
			Installation	160.00 x	\$34.92 x	0.9447 =	\$5,278.23
			User Note: 4" EMT conduit installed to run the power from the supply to the main fused disconnect on RDMC 2-4. No appropriate conduit assembly available as there no 1-1/4" or 4" conduit assemblies available in the CTC. Quantity calculation from contract drawings as well as a review of all existing conditions.				
136	26 05 33 13-0292		LF	4" EMT Conduit	\$6,267.90		
			Quantity	Unit Price	Factor	Total	
			Installation	190.00 x	\$34.92 x	0.9447 =	\$6,267.90
			User Note: 4" EMT conduit installed to run the power from the supply to the main fused disconnect on RDMC 10-4. Quantity calculation from contract drawings as well as a review of all existing conditions.				
137	26 05 33 13-0297		EA	1-1/4" EMT 90 Degree Elbow	\$282.86		
			Quantity	Unit Price	Factor	Total	
			Installation	22.00 x	\$13.61 x	0.9447 =	\$282.86
			User Note: 1-1/4" EMT 90 degree elbows required to install all 3/4" conduit to their appropriate location.				
138	26 05 33 13-0297	0032		For Work In Restricted Working Space, Add	\$46.34		
			Quantity	Unit Price	Factor	Total	
			Installation	15.00 x	\$3.27 x	0.9447 =	\$46.34
139	26 05 33 13-0297	0033		For Installation Above 14', Add	\$23.24		
			Quantity	Unit Price	Factor	Total	
			Installation	15.00 x	\$1.64 x	0.9447 =	\$23.24

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Electrical								
140	26 05 33 13-0303		EA	4" EMT 90 Degree Elbow	\$548.17			
				Quantity	Unit Price	Factor	Total	
				Installation	6.00 x	\$96.71 x	0.9447 =	\$548.17
				User Note: 4" EMT 90 degree elbows required to install all 3/4" conduit to their appropriate location.				
141	26 05 33 13-0319		EA	1-1/4" EMT Compression Coupling	\$2,612.59			
				Quantity	Unit Price	Factor	Total	
				Installation	276.00 x	\$10.02 x	0.9447 =	\$2,612.59
				User Note: 1-1/4" EMT compression couplings installed every 10 LF of 1-1/4" conduit as required.				
142	26 05 33 13-0319	0032		For Work in Restricted Working Space, Add	\$477.70			
				Quantity	Unit Price	Factor	Total	
				Installation	193.00 x	\$2.62 x	0.9447 =	\$477.70
143	26 05 33 13-0319	0035		For Installation Above 14', Add	\$238.85			
				Quantity	Unit Price	Factor	Total	
				Installation	193.00 x	\$1.31 x	0.9447 =	\$238.85
144	26 05 33 13-0325		EA	4" EMT Compression Coupling	\$2,328.27			
				Quantity	Unit Price	Factor	Total	
				Installation	54.00 x	\$45.64 x	0.9447 =	\$2,328.27
				User Note: 4" EMT compression couplings installed every 10 LF of 4" conduit as required, quantity calculation from contract drawings as well as a review of all existing conditions.				
145	26 05 33 13-0352		EA	1-1/4" EMT Box Compression Connector	\$243.17			
				Quantity	Unit Price	Factor	Total	
				Installation	18.00 x	\$14.30 x	0.9447 =	\$243.17
				User Note: 1-1/4" compression connectors installed at each connection point between 1-1/4" conduit and the associated box/equipment.				
146	26 05 33 13-0352	0032		For Work in Restricted Working Space, Add	\$14.85			
				Quantity	Unit Price	Factor	Total	
				Installation	6.00 x	\$2.62 x	0.9447 =	\$14.85
147	26 05 33 13-0352	0033		For Installation Above 14', Add	\$7.43			
				Quantity	Unit Price	Factor	Total	
				Installation	6.00 x	\$1.31 x	0.9447 =	\$7.43
148	26 05 33 13-0358		EA	4" EMT Box Compression Connector	\$637.16			
				Quantity	Unit Price	Factor	Total	
				Installation	6.00 x	\$112.41 x	0.9447 =	\$637.16
				User Note: 4" compression connectors installed at each connection point between 4" conduit and the associated box/equipment.				
149	26 28 16 00-0166		EA	100 A Fused Disconnect Switch, NEMA 3R, Heavy Duty, With Fuses, 600 V, 1 Phase	\$2,078.23			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x	\$1,099.94 x	0.9447 =	\$2,078.23
				User Note: Install one (1) 100 Amp fused disconnect on RDMC 2-4 and one (1) on RDMC 3-4.				
150	26 28 16 00-0168		EA	400 A Fused Disconnect Switch, NEMA 3R, Heavy Duty, With Fuses, 600 V, 1 Phase	\$3,147.89			
				Quantity	Unit Price	Factor	Total	
				Installation	1.00 x	\$3,332.16 x	0.9447 =	\$3,147.89
				User Note: Install one (1) 400 Amp fused disconnect switch on RDMC 10-4.				

Subtotal for Category - Electrical:

\$312,811.71

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total								
Category - Engineering													
151	01 22 16 00-0002		EA	Reimbursable Fees Reimbursable fees will be paid to the contractor for the Lump Sum cost, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$16,500.00								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 16,500.00</td> <td>x \$1.00</td> <td>x 1.0000</td> <td>= \$16,500.00</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 16,500.00	x \$1.00	x 1.0000	= \$16,500.00	
Quantity	Unit Price	Factor	Total										
Installation 16,500.00	x \$1.00	x 1.0000	= \$16,500.00										
	User Note: Engineering fees to provide permitting and administrative services.												
Subtotal for Category - Engineering:					\$16,500.00								
Category - Mechanical													
152	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$404.71								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 8.00</td> <td>x \$53.55</td> <td>x 0.9447</td> <td>= \$404.71</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 8.00	x \$53.55	x 0.9447	= \$404.71	
Quantity	Unit Price	Factor	Total										
Installation 8.00	x \$53.55	x 0.9447	= \$404.71										
	User Note: Truck driver required to deliver mechanical materials and equipment associated with RDMC 2-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 2 days of delivery x 4 hours per day = 8 hours.												
153	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$607.06								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 12.00</td> <td>x \$53.55</td> <td>x 0.9447</td> <td>= \$607.06</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 12.00	x \$53.55	x 0.9447	= \$607.06	
Quantity	Unit Price	Factor	Total										
Installation 12.00	x \$53.55	x 0.9447	= \$607.06										
	User Note: Truck driver required to deliver mechanical materials and equipment associated with RDMC 3-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 3 days of delivery x 4 hours per day = 12 hours.												
154	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$1,011.77								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 20.00</td> <td>x \$53.55</td> <td>x 0.9447</td> <td>= \$1,011.77</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 20.00	x \$53.55	x 0.9447	= \$1,011.77	
Quantity	Unit Price	Factor	Total										
Installation 20.00	x \$53.55	x 0.9447	= \$1,011.77										
	User Note: Truck driver required to deliver mechanical materials and equipment associated with RDMC 10-4 in flatbed truck to account for additional handling requirements in order to ship all materials and equipment from the supplier to the subcontractor's warehouse and then from the warehouse to the project site as required to meet specific project site security requirements. 10 days of delivery x 4 hours per day = 40 hours.												
155	01 22 23 00-0054		MO	30' Electric, Scissor Platform Lift	\$6,681.73								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 6.00</td> <td>x \$1,178.81</td> <td>x 0.9447</td> <td>= \$6,681.73</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 6.00	x \$1,178.81	x 0.9447	= \$6,681.73	
Quantity	Unit Price	Factor	Total										
Installation 6.00	x \$1,178.81	x 0.9447	= \$6,681.73										
	User Note: Scissor platform lift utilized for the mechanical contractor as required to reach ceilings that at many locations are over 20' high. 3 lifts total; 1 lift x 4 months for evaporation coils associated with RDMC 10-4 HT, 1 lift x 1 month for evaporation coils associated with RDMC 3-4 LT, and 1 lift x 1 month for evaporation coil associated with RDMC 2-4 MT.												

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total															
Category - Mechanical																				
156	01 22 23 00-0155		MO	2,400 LB Capacity, 72" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$55,441.26															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>3.00</td> <td>x</td> <td>\$19,562.21</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$55,441.26</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	3.00	x	\$19,562.21	x	0.9447	=	\$55,441.26
	Quantity		Unit Price		Factor		Total													
Installation	3.00	x	\$19,562.21	x	0.9447	=	\$55,441.26													
				<p>User Note: Provide bobcat/forklift for offloading and delivering as well as during installation of all interior mechanical equipment including local evaporator coils, piping, hangers, supports, insulation, conduit wiring, supports etc. throughout the mechanical and electrical installations. Bobcat/forklift required for 1 month per phase x 3 phases = 3 month total duration for elevated equipment, piping and conduit installation.</p>																
157	01 22 23 00-0161		MO	Forklift Attachment For Skid-Steer Loaders	\$753.25															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>3.00</td> <td>x</td> <td>\$265.78</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$753.25</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	3.00	x	\$265.78	x	0.9447	=	\$753.25
	Quantity		Unit Price		Factor		Total													
Installation	3.00	x	\$265.78	x	0.9447	=	\$753.25													
				<p>User Note: Provide forklift attachment for offloading and delivering as well as during installation of all interior mechanical equipment including local evaporator coils, piping, hangers, supports, insulation, conduit wiring, supports etc. throughout the mechanical and electrical installations. Bobcat/forklift required for 1 month per phase x 3 phases = 3 month total duration for elevated equipment, piping and conduit installation.</p>																
158	01 22 23 00-0603		DAY	70 To 75 Ton Lift Hydraulic Crane With Full-Time Operator	\$6,397.24															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>3.00</td> <td>x</td> <td>\$2,257.24</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$6,397.24</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	3.00	x	\$2,257.24	x	0.9447	=	\$6,397.24
	Quantity		Unit Price		Factor		Total													
Installation	3.00	x	\$2,257.24	x	0.9447	=	\$6,397.24													
				<p>User Note: Provide crane required for off loading and placing work associated with all exterior rack mounted condensing units including RDMC 3-4, RDMC 2-4 and RDMC 10-4. Work is phased for facility operation. 1 day per rack mounted system = 3 days total.</p>																
159	01 31 33 00-0004		EA	Minimum Labor Cost, 3 Person Crew Size	\$13,749.84															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>16.00</td> <td>x</td> <td>\$909.67</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$13,749.84</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	16.00	x	\$909.67	x	0.9447	=	\$13,749.84
	Quantity		Unit Price		Factor		Total													
Installation	16.00	x	\$909.67	x	0.9447	=	\$13,749.84													
				<p>User Note: This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/2 hour per man per day. Line item for RDMC 2-4 MT, RDMC 10-4 HT, and RDMC 3-4 LT work not associated with specific labor hours. 3 men x 15 days = 45 days x 1/2 hour = 22 hours total. 6 men x 45 days = 270 days x 1/2 hour = 135 hours total. 3 men x 25 days = 75 days x 1/2 hour = 37 hours total. 22 Hours + 135 Hours + 37 Hours = 194 Hours Total 194 Total Hours / 12 Hours (3 Person Man Crew x 4 Hours) = 16.17 ~ 16 EA</p>																
160	01 71 13 00-0009		EA	75 Ton Lift Move On/Off Cost, Mechanical CraneIncludes delivery and pickup.	\$1,909.22															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>3.00</td> <td>x</td> <td>\$673.66</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$1,909.22</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	3.00	x	\$673.66	x	0.9447	=	\$1,909.22
	Quantity		Unit Price		Factor		Total													
Installation	3.00	x	\$673.66	x	0.9447	=	\$1,909.22													
				<p>User Note: Mobilize and demobilize crane three (3) times as required per phasing and as required for off loading and placing work associated with RDMC 3-4, RDMC 2-4 and RDMC 10-4. Work is phased for facility operation.</p>																
161	01 91 13 00-0004		HR	Commissioning - HVAC/Mechanical Systems	\$6,277.08															
				<table border="0"> <tr> <td></td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td></td> <td>Total</td> </tr> <tr> <td>Installation</td> <td>36.00</td> <td>x</td> <td>\$184.57</td> <td>x</td> <td>0.9447</td> <td>=</td> <td>\$6,277.08</td> </tr> </table>		Quantity		Unit Price		Factor		Total	Installation	36.00	x	\$184.57	x	0.9447	=	\$6,277.08
	Quantity		Unit Price		Factor		Total													
Installation	36.00	x	\$184.57	x	0.9447	=	\$6,277.08													
				<p>User Note: Provide commissioning of all new mechanical system for walk-in coolers, unit RDMC 3-4 LT and associated interior units, 2 people x 6 hours for exterior condensing unit = 16 hours total. 2 people x 2 hours x 5 interior evaporator coils = 20 hours total. 16 hours + 20 hours = 36 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 3-4 includes: (4) 15hp LT Parallel Scroll Comps, (1) 10.5 RLA Condenser Fan Motor, & (5) Evaporator Coils.</p>																

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Mechanical						
162	01 91 13 00-0004		HR	Commissioning - HVAC/Mechanical Systems	\$19,528.69	
			Quantity	Unit Price	Factor	Total
			Installation	112.00 x \$184.57 x	0.9447 =	\$19,528.69
			User Note: Provide commissioning of all new mechanical system for walk-in coolers, unit RDMC 10-4 and associated interior units. 2 people x 8 hours for exterior condensing unit = 16 hours total. 2 people x 2 hours x 24 interior evaporator coils = 96 hours total. 16 hours + 96 hours = 112 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 10-4 includes: (10) 12hp to 18hp LT Parallel Scroll Comps, (1) 35.0 RLA Condenser Fan Motor, & (24) Evaporator Coils.			
163	01 91 13 00-0004		HR	Commissioning - HVAC/Mechanical Systems	\$7,671.98	
			Quantity	Unit Price	Factor	Total
			Installation	44.00 x \$184.57 x	0.9447 =	\$7,671.98
			User Note: Provide commissioning of all new mechanical system for walk-in coolers, unit RDMC 2-4 MT and associated interior units. 2 people x 8 hours for exterior condensing unit = 16 hours total, 2 people x 2 hours x 7 interior evaporator coils = 28 hours total. 16 hours + 28 hours = 44 hours total. Project requires three separate phases which requires independent commissioning of systems. Each phase will require multiple visits. Variance in commissioning hours between RDMC units due to the size and amount of equipment included in the unit. RDMC 2-4 includes: (4) 5hp LT Parallel Scroll Comps, (1) 7.0 RLA Condenser Fan Motor, & (7) Evaporator Coils.			
164	02 41 19 13-0192		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$4,880.04	
			Quantity	Unit Price	Factor	Total
			Installation	2,570.00 x \$2.01 x	0.9447 =	\$4,880.04
			User Note: Drilling required prior to the installation of the wedge anchors utilized in the mechanical system. 571 hangers x 2 anchors per hanger x 2.25" depth of drilling = 2570 IN Total.			
165	05 05 23 00-0124		EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	\$11,576.03	
			Quantity	Unit Price	Factor	Total
			Installation	1,142.00 x \$10.73 x	0.9447 =	\$11,576.03
			User Note: Two wedge anchors required for each hanger being installed to support the mechanical piping, 571 hanger x 2 wedge anchors per hanger = 1142 Total.			
166	05 05 23 00-0124	0039		For >100, Deduct	-\$2,200.85	
			Quantity	Unit Price	Factor	Total
			Installation	1,142.00 x \$-2.04 x	0.9447 =	-\$2,200.85
167	05 05 23 00-1494		LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	\$9,774.36	
			Quantity	Unit Price	Factor	Total
			Installation	2,284.00 x \$4.53 x	0.9447 =	\$9,774.36
			User Note: Threaded rod required in the mechanical hanger system. Two pieces of threaded rod installed for each hanger at 2 LF each, 571 hangers x 2 pieces of rod each x 2 LF each = 2284 LF Total.			
168	22 07 19 00-0455		LF	1/2" Pipe, (5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$5,338.59	
			Quantity	Unit Price	Factor	Total
			Installation	945.00 x \$5.98 x	0.9447 =	\$5,338.59
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
169	22 07 19 00-0456		LF	3/4" Pipe, (7/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$4,717.64	
			Quantity	Unit Price	Factor	Total
			Installation	820.00 x \$6.09 x	0.9447 =	\$4,717.64
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Mechanical						
170	22 07 19 00-0457		LF	1" Pipe, (1-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$3,696.14	
				Quantity	Unit Price	
				Factor	Total	
			Installation	625.00 x	\$6.28 x 0.9447 =	\$3,696.14
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
171	22 07 19 00-0458		LF	1-1/4" Pipe, (1-3/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$7,774.50	
				Quantity	Unit Price	
				Factor	Total	
			Installation	1,270.00 x	\$6.48 x 0.9447 =	\$7,774.50
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
172	22 07 19 00-0459		LF	1-1/2" Pipe, (1-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$16,425.03	
				Quantity	Unit Price	
				Factor	Total	
			Installation	2,595.00 x	\$6.70 x 0.9447 =	\$16,425.03
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
173	22 07 19 00-0460		LF	2" Pipe, (2-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$849.85	
				Quantity	Unit Price	
				Factor	Total	
			Installation	130.00 x	\$6.92 x 0.9447 =	\$849.85
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
174	22 07 19 00-0461		LF	2-1/2" Pipe, (2-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$456.24	
				Quantity	Unit Price	
				Factor	Total	
			Installation	65.00 x	\$7.43 x 0.9447 =	\$456.24
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
175	22 07 19 00-0462		LF	3" Pipe, (3-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$221.91	
				Quantity	Unit Price	
				Factor	Total	
			Installation	30.00 x	\$7.83 x 0.9447 =	\$221.91
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
176	22 07 19 00-0464		LF	4" Pipe, (4-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$366.02	
				Quantity	Unit Price	
				Factor	Total	
			Installation	45.00 x	\$8.61 x 0.9447 =	\$366.02
			User Note: Provide insulation for refrigerant piping as required per Note 3 on Drawing Sheets 28, 29 and 30.			
177	23 01 10 00-0003		HR	Walk-In Cooler Mechanical Equipment	\$674,625.00	
				Quantity	Unit Price	
				Factor	Total	
			Installation	1.00 x	\$642,500.00 x 1.0500 =	\$674,625.00
			User Note: Walk-in cooler mechanical equipment.			
178	23 01 20 00-0015		LF	Disinfection/Flush/Testing, 1/2" To 1" Diameter Pipe	\$3,625.00	
				Quantity	Unit Price	
				Factor	Total	
			Installation	2,120.00 x	\$1.81 x 0.9447 =	\$3,625.00
			User Note: Flush and test existing piping to remain associated with RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
179	23 01 20 00-0015		LF	Disinfection/Flush/Testing, 1/2" To 1" Diameter Pipe	\$2,000.59	
				Quantity	Unit Price	
				Factor	Total	
			Installation	1,170.00 x	\$1.81 x 0.9447 =	\$2,000.59
			User Note: Flush and test existing piping to remain associated with RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Mechanical								
180	23 01 20 00-0015		LF	Disinfection/Flush/Testing, 1/2" To 1" Diameter Pipe	\$9,011.21			
				Quantity	Unit Price	Factor	Total	
				Installation	5,270.00 x	\$1.81 x	0.9447 =	\$9,011.21
				User Note: Flush and test existing piping to remain associated with RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
181	23 01 20 00-0016		LF	Disinfection/Flush/Testing, 1-1/4" To 2" Diameter Pipe	\$2,721.59			
				Quantity	Unit Price	Factor	Total	
				Installation	970.00 x	\$2.97 x	0.9447 =	\$2,721.59
				User Note: Flush and test existing piping to remain associated with RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
182	23 01 20 00-0016		LF	Disinfection/Flush/Testing, 1-1/4" To 2" Diameter Pipe	\$3,703.60			
				Quantity	Unit Price	Factor	Total	
				Installation	1,320.00 x	\$2.97 x	0.9447 =	\$3,703.60
				User Note: Flush and test existing piping to remain associated with RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
183	23 01 20 00-0016		LF	Disinfection/Flush/Testing, 1-1/4" To 2" Diameter Pipe	\$11,335.27			
				Quantity	Unit Price	Factor	Total	
				Installation	4,040.00 x	\$2.97 x	0.9447 =	\$11,335.27
				User Note: Flush and test existing piping to remain associated with RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
184	23 01 60 00-0002		LB	Recovery Of Refrigerant	\$10,430.39			
				Quantity	Unit Price	Factor	Total	
				Installation	1,696.00 x	\$6.51 x	0.9447 =	\$10,430.39
				User Note: Used to remove and properly dispose of the outdated refrigerant in the existing system. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
185	23 23 13 00-0004		EA	1/2" Refrigeration Ball Valve, Sweated	\$57.34			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x	\$30.35 x	0.9447 =	\$57.34
				User Note: Provide new refrigerant piping ball valve to control system for RDMC 3-4 as required.				
186	23 23 13 00-0004		EA	1/2" Refrigeration Ball Valve, Sweated	\$688.12			
				Quantity	Unit Price	Factor	Total	
				Installation	24.00 x	\$30.35 x	0.9447 =	\$688.12
				User Note: Provide new refrigerant piping ball valve to control system for RDMC 10-4 HT as required.				
187	23 23 13 00-0005		EA	5/8" Refrigeration Ball Valve, Sweated	\$343.59			
				Quantity	Unit Price	Factor	Total	
				Installation	10.00 x	\$36.37 x	0.9447 =	\$343.59
				User Note: Provide new refrigerant piping ball valve to control system for RDMC 10-4 HT as required.				
188	23 23 13 00-0005		EA	5/8" Refrigeration Ball Valve, Sweated	\$137.44			
				Quantity	Unit Price	Factor	Total	
				Installation	4.00 x	\$36.37 x	0.9447 =	\$137.43
				User Note: Provide new refrigerant piping ball valve to control system for RDMC 3-4 as required.				
189	23 23 13 00-0006		EA	7/8" Refrigeration Ball Valve, Sweated	\$92.22			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x	\$46.81 x	0.9447 =	\$92.22
				User Note: Provide new refrigerant piping ball valve to control system for RDMC 2-4 MT as required.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Mechanical						
190	23 23 13 00-0006	EA		7/8" Refrigeration Ball Valve, Sweated	\$276.66	
			Quantity	Unit Price	Factor	Total
			Installation	6.00 x \$48.81 x	0.9447 =	\$276.66
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 3-4 as required.				
191	23 23 13 00-0006	EA		7/8" Refrigeration Ball Valve, Sweated	\$737.77	
			Quantity	Unit Price	Factor	Total
			Installation	16.00 x \$48.81 x	0.9447 =	\$737.77
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 10-4 HT as required.				
192	23 23 13 00-0007	EA		1-1/8" Refrigeration Ball Valve, Sweated	\$861.13	
			Quantity	Unit Price	Factor	Total
			Installation	14.00 x \$65.11 x	0.9447 =	\$861.13
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 10-4 HT as required.				
193	23 23 13 00-0007	EA		1-1/8" Refrigeration Ball Valve, Sweated	\$246.04	
			Quantity	Unit Price	Factor	Total
			Installation	4.00 x \$65.11 x	0.9447 =	\$246.04
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 2-4 MT as required.				
194	23 23 13 00-0007	EA		1-1/8" Refrigeration Ball Valve, Sweated	\$246.04	
			Quantity	Unit Price	Factor	Total
			Installation	4.00 x \$65.11 x	0.9447 =	\$246.04
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 3-4 as required.				
195	23 23 13 00-0008	EA		1-5/8" Refrigeration Ball Valve, Sweated	\$1,938.15	
			Quantity	Unit Price	Factor	Total
			Installation	20.00 x \$102.58 x	0.9447 =	\$1,938.15
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 10-4 HT as required.				
196	23 23 13 00-0008	EA		1-5/8" Refrigeration Ball Valve, Sweated	\$581.44	
			Quantity	Unit Price	Factor	Total
			Installation	6.00 x \$102.58 x	0.9447 =	\$581.44
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 2-4 MT as required.				
197	23 23 13 00-0008	EA		1-5/8" Refrigeration Ball Valve, Sweated	\$387.63	
			Quantity	Unit Price	Factor	Total
			Installation	4.00 x \$102.58 x	0.9447 =	\$387.63
		User Note: Provide new refrigerant piping ball valve to control system for RDMC 3-4 as required.				
198	23 23 16 00-0078	LF		3/8" Outside Diameter ACR Copper Tubing, Annealed	\$1,063.64	
			Quantity	Unit Price	Factor	Total
			Installation	270.00 x \$4.17 x	0.9447 =	\$1,063.64
		User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
199	23 23 16 00-0079	LF		1/2" Outside Diameter ACR Copper Tubing, Annealed	\$191.73	
			Quantity	Unit Price	Factor	Total
			Installation	45.00 x \$4.51 x	0.9447 =	\$191.73
		User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				
200	23 23 16 00-0079	LF		1/2" Outside Diameter ACR Copper Tubing, Annealed	\$2,300.72	
			Quantity	Unit Price	Factor	Total
			Installation	540.00 x \$4.51 x	0.9447 =	\$2,300.72
		User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Category - Mechanical					
201	23 23 16 00-0080		LF	5/8" Outside Diameter ACR Copper Tubing, Annealed	\$407.26
				Quantity Unit Price Factor Total	
				Installation 90.00 x \$4.79 x 0.9447 = \$407.26	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
202	23 23 16 00-0081		LF	3/4" Outside Diameter ACR Copper Tubing, Annealed	\$1,767.63
				Quantity Unit Price Factor Total	
				Installation 270.00 x \$6.93 x 0.9447 = \$1,767.63	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
203	23 23 16 00-0081		LF	3/4" Outside Diameter ACR Copper Tubing, Annealed	\$589.21
				Quantity Unit Price Factor Total	
				Installation 90.00 x \$6.93 x 0.9447 = \$589.21	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
204	23 23 16 00-0082		LF	7/8" Outside Diameter ACR Copper Tubing, Annealed	\$397.48
				Quantity Unit Price Factor Total	
				Installation 55.00 x \$7.65 x 0.9447 = \$397.48	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
205	23 23 16 00-0082		LF	7/8" Outside Diameter ACR Copper Tubing, Annealed	\$2,601.70
				Quantity Unit Price Factor Total	
				Installation 360.00 x \$7.65 x 0.9447 = \$2,601.70	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
206	23 23 16 00-0082		LF	7/8" Outside Diameter ACR Copper Tubing, Annealed	\$325.21
				Quantity Unit Price Factor Total	
				Installation 45.00 x \$7.65 x 0.9447 = \$325.21	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
207	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$242.03
				Quantity Unit Price Factor Total	
				Installation 30.00 x \$8.54 x 0.9447 = \$242.03	
				User Note: Provide header piping as required to accept feeder lines for all equipment RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
208	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$726.10
				Quantity Unit Price Factor Total	
				Installation 90.00 x \$8.54 x 0.9447 = \$726.10	
				User Note: Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	
209	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$282.37
				Quantity Unit Price Factor Total	
				Installation 35.00 x \$8.54 x 0.9447 = \$282.37	
				User Note: Provide header piping as required to accept feeder lines for all equipment RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.	

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Mechanical							
210	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$2,904.39		
				Quantity	Unit Price	Factor	Total
			Installation	360.00 x	\$8.54 x	0.9447 =	\$2,904.39
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
211	23 23 16 00-0083		LF	1-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$887.45		
				Quantity	Unit Price	Factor	Total
			Installation	110.00 x	\$8.54 x	0.9447 =	\$887.45
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
212	23 23 16 00-0084		LF	1-3/8" Outside Diameter ACR Copper Tubing, Annealed	\$12,681.56		
				Quantity	Unit Price	Factor	Total
			Installation	1,270.00 x	\$10.57 x	0.9447 =	\$12,681.56
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
213	23 23 16 00-0085		LF	1-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$1,067.89		
				Quantity	Unit Price	Factor	Total
			Installation	90.00 x	\$12.56 x	0.9447 =	\$1,067.89
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
214	23 23 16 00-0085		LF	1-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$652.60		
				Quantity	Unit Price	Factor	Total
			Installation	55.00 x	\$12.56 x	0.9447 =	\$652.60
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
215	23 23 16 00-0085		LF	1-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$29,070.31		
				Quantity	Unit Price	Factor	Total
			Installation	2,450.00 x	\$12.56 x	0.9447 =	\$29,070.31
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
216	23 23 16 00-0086		LF	2-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$496.25		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	\$17.51 x	0.8447 =	\$496.25
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
217	23 23 16 00-0086		LF	2-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$744.38		
				Quantity	Unit Price	Factor	Total
			Installation	45.00 x	\$17.51 x	0.9447 =	\$744.38
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
218	23 23 16 00-0086		LF	2-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$909.79		
				Quantity	Unit Price	Factor	Total
			Installation	55.00 x	\$17.51 x	0.9447 =	\$909.79
			User Note:	Provide all refrigerant piping required to connect existing piping to new equipment as required for RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Mechanical							
219	23 23 16 00-0087		LF	2-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$850.42		
				Quantity	Unit Price	Factor	Total
			Installation	35.00 x	\$25.72 x	0.9447 =	\$850.42
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
220	23 23 16 00-0087		LF	2-5/8" Outside Diameter ACR Copper Tubing, Annealed	\$728.93		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	\$25.72 x	0.9447 =	\$728.93
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 2-4 MT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
221	23 23 16 00-0088		LF	3-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$949.71		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	\$33.51 x	0.9447 =	\$949.71
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 3-4 LT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
222	23 23 16 00-0090		LF	4-1/8" Outside Diameter ACR Copper Tubing, Annealed	\$2,178.71		
				Quantity	Unit Price	Factor	Total
			Installation	45.00 x	\$51.25 x	0.9447 =	\$2,178.71
			User Note:	Provide header piping as required to accept feeder lines for all equipment RDMC 10-4 HT. Quantity calculation derived from contract drawings as well as a review of all existing site conditions.			
223	23 23 16 00-0104		EA	5/8" Short Radius 90 Degree Elbow, ACR	\$89.60		
				Quantity	Unit Price	Factor	Total
			Installation	5.00 x	\$18.97 x	0.9447 =	\$89.60
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
224	23 23 16 00-0104		EA	5/8" Short Radius 90 Degree Elbow, ACR	\$845.15		
				Quantity	Unit Price	Factor	Total
			Installation	36.00 x	\$18.97 x	0.9447 =	\$845.15
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
225	23 23 16 00-0105		EA	3/4" Short Radius 90 Degree Elbow, ACR	\$270.37		
				Quantity	Unit Price	Factor	Total
			Installation	12.00 x	\$23.85 x	0.9447 =	\$270.37
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
226	23 23 16 00-0105		EA	3/4" Short Radius 90 Degree Elbow, ACR	\$112.66		
				Quantity	Unit Price	Factor	Total
			Installation	5.00 x	\$23.85 x	0.9447 =	\$112.66
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
227	23 23 16 00-0106		EA	7/8" Short Radius 90 Degree Elbow, ACR	\$387.55		
				Quantity	Unit Price	Factor	Total
			Installation	16.00 x	\$25.64 x	0.9447 =	\$387.55
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
228	23 23 16 00-0106		EA	7/8" Short Radius 90 Degree Elbow, ACR	\$48.44		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	\$25.84 x	0.9447 =	\$48.44
			User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Mechanical								
229	23 23 16 00-0106		EA	7/8" Short Radius 90 Degree Elbow, ACR	\$121.11			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x \$25.84	x 0.9447 =	\$121.11	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			
230	23 23 16 00-0107		EA	1-1/8" Short Radius 90 Degree Elbow, ACR	\$313.07			
				Quantity	Unit Price	Factor	Total	
				Installation	10.00 x \$33.14	x 0.9447 =	\$313.07	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			
231	23 23 16 00-0107		EA	1-1/8" Short Radius 90 Degree Elbow, ACR	\$500.92			
				Quantity	Unit Price	Factor	Total	
				Installation	16.00 x \$33.14	x 0.9447 =	\$500.92	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
232	23 23 16 00-0107		EA	1-1/8" Short Radius 90 Degree Elbow, ACR	\$156.54			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x \$33.14	x 0.9447 =	\$156.54	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
233	23 23 16 00-0108		EA	1 3/8" Short Radius 90 Degree Elbow, ACR	\$540.07			
				Quantity	Unit Price	Factor	Total	
				Installation	12.00 x \$47.64	x 0.9447 =	\$540.07	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
234	23 23 16 00-0109		EA	1-5/8" Short Radius 90 Degree Elbow, ACR	\$809.99			
				Quantity	Unit Price	Factor	Total	
				Installation	15.00 x \$57.16	x 0.9447 =	\$809.99	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
235	23 23 16 00-0109		EA	1-5/8" Short Radius 90 Degree Elbow, ACR	\$6,479.89			
				Quantity	Unit Price	Factor	Total	
				Installation	120.00 x \$57.16	x 0.9447 =	\$6,479.89	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
236	23 23 16 00-0109		EA	1-5/8" Short Radius 90 Degree Elbow, ACR	\$809.99			
				Quantity	Unit Price	Factor	Total	
				Installation	15.00 x \$57.16	x 0.9447 =	\$809.99	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			
237	23 23 16 00-0110		EA	2-1/8" Short Radius 90 Degree Elbow, ACR	\$150.93			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x \$79.88	x 0.9447 =	\$150.93	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
238	23 23 16 00-0110		EA	2-1/8" Short Radius 90 Degree Elbow, ACR	\$377.31			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x \$79.88	x 0.9447 =	\$377.31	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			
239	23 23 16 00-0111		EA	2-5/8" Short Radius 90 Degree Elbow, ACR	\$686.94			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x \$145.43	x 0.9447 =	\$686.94	
				User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Category - Mechanical						
240	23 23 16 00-0112	EA		3-1/8" Short Radius 90 Degree Elbow, ACR	\$375.99	
			Quantity	Unit Price	Factor	Total
			Installation	2.00 x \$199.00 x	0.9447 =	\$375.99
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
241	23 23 16 00-0115	EA		5/8" Coupling Copper Sweat, ACR	\$506.74	
			Quantity	Unit Price	Factor	Total
			Installation	36.00 x \$14.90 x	0.9447 =	\$506.74
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
242	23 23 16 00-0115	EA		5/8" Coupling Copper Sweat, ACR	\$70.38	
			Quantity	Unit Price	Factor	Total
			Installation	5.00 x \$14.90 x	0.9447 =	\$70.38
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
243	23 23 16 00-0116	EA		3/4" Coupling Copper Sweat, ACR	\$235.46	
			Quantity	Unit Price	Factor	Total
			Installation	12.00 x \$20.77 x	0.9447 =	\$235.46
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
244	23 23 16 00-0116	EA		3/4" Coupling Copper Sweat, ACR	\$98.11	
			Quantity	Unit Price	Factor	Total
			Installation	5.00 x \$20.77 x	0.9447 =	\$98.11
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
245	23 23 16 00-0117	EA		7/8" Coupling Copper Sweat, ACR	\$38.68	
			Quantity	Unit Price	Factor	Total
			Installation	2.00 x \$20.47 x	0.9447 =	\$38.68
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
246	23 23 16 00-0117	EA		7/8" Coupling Copper Sweat, ACR	\$96.69	
			Quantity	Unit Price	Factor	Total
			Installation	5.00 x \$20.47 x	0.9447 =	\$96.69
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			
247	23 23 16 00-0117	EA		7/8" Coupling Copper Sweat, ACR	\$309.41	
			Quantity	Unit Price	Factor	Total
			Installation	16.00 x \$20.47 x	0.9447 =	\$309.41
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
248	23 23 16 00-0118	EA		1-1/8" Coupling Copper Sweat, ACR	\$125.55	
			Quantity	Unit Price	Factor	Total
			Installation	5.00 x \$26.58 x	0.9447 =	\$125.55
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.			
249	23 23 16 00-0118	EA		1-1/8" Coupling Copper Sweat, ACR	\$401.76	
			Quantity	Unit Price	Factor	Total
			Installation	16.00 x \$26.58 x	0.9447 =	\$401.76
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.			
250	23 23 16 00-0118	EA		1-1/8" Coupling Copper Sweat, ACR	\$251.10	
			Quantity	Unit Price	Factor	Total
			Installation	10.00 x \$26.58 x	0.9447 =	\$251.10
		User Note:	Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.			

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
Category - Mechanical								
251	23 23 16 00-0119		EA	1 3/8" Coupling Copper Sweat, ACR	\$425.91			
				Quantity	Unit Price	Factor	Total	
				Installation	12.00 x	\$37.57 x	0.9447 =	\$425.91
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.				
252	23 23 16 00-0120		EA	1-5/8" Coupling Copper Sweat, ACR	\$636.40			
				Quantity	Unit Price	Factor	Total	
				Installation	15.00 x	\$44.91 x	0.9447 =	\$636.40
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.				
253	23 23 16 00-0120		EA	1-5/8" Coupling Copper Sweat, ACR	\$5,091.18			
				Quantity	Unit Price	Factor	Total	
				Installation	120.00 x	\$44.91 x	0.9447 =	\$5,091.18
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 10-4 HT.				
254	23 23 16 00-0120		EA	1-5/8" Coupling Copper Sweat, ACR	\$636.40			
				Quantity	Unit Price	Factor	Total	
				Installation	15.00 x	\$44.91 x	0.9447 =	\$636.40
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.				
255	23 23 16 00-0121		EA	2-1/8" Coupling Copper Sweat, ACR	\$265.79			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x	\$56.27 x	0.9447 =	\$265.79
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.				
256	23 23 16 00-0121		EA	2-1/8" Coupling Copper Sweat, ACR	\$106.32			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x	\$56.27 x	0.9447 =	\$106.32
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.				
257	23 23 16 00-0122		EA	2-5/8" Coupling Copper Sweat, ACR	\$417.18			
				Quantity	Unit Price	Factor	Total	
				Installation	5.00 x	\$88.32 x	0.9447 =	\$417.18
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 2-4 MT.				
258	23 23 16 00-0123		EA	3-1/8" Coupling Copper Sweat, ACR	\$237.82			
				Quantity	Unit Price	Factor	Total	
				Installation	2.00 x	\$125.87 x	0.9447 =	\$237.82
				User Note: Provide all fittings associated with refrigerant piping as required for RDMC 3-4 LT.				
259	23 23 16 00-0198		EA	Refrigerant Monitor With Sensors	\$5,225.28			
				Quantity	Unit Price	Factor	Total	
				Installation	1.00 x	\$5,531.15 x	0.9447 =	\$5,225.28
				User Note: Provide a refrigerant monitor sensor as required in order to provide feedback to operations as required for a complete design and as indicated on the drawings for RDMC 10-4 HT.				
260	23 23 16 00-0198		EA	Refrigerant Monitor With Sensors	\$5,225.28			
				Quantity	Unit Price	Factor	Total	
				Installation	1.00 x	\$5,531.15 x	0.9447 =	\$5,225.28
				User Note: Provide a refrigerant monitor sensor as required in order to provide feedback to operations as required for a complete design and as indicated on the drawings for RDMC 2-4 MT.				
261	23 23 16 00-0198		EA	Refrigerant Monitor With Sensors	\$5,225.28			
				Quantity	Unit Price	Factor	Total	
				Installation	1.00 x	\$5,531.15 x	0.9447 =	\$5,225.28
				User Note: Provide a refrigerant monitor sensor as required in order to provide feedback to operations as required for a complete design and as indicated on the drawings for RDMC 3-4 LT.				

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Category - Mechanical					
262	23 23 23 00-0005		LB	Refrigerant R-410A	\$4,544.65
				Quantity	Unit Price
				Installation	Factor
				483.00 x	\$9.96 x
				0.9447 =	\$4,544.65
				User Note: Refrigerant provided for RDMC 2-4.	
263	23 23 23 00-0005		LB	Refrigerant R-410A	\$4,356.47
				Quantity	Unit Price
				Installation	Factor
				483.00 x	\$9.96 x
				0.9447 =	\$4,356.47
				User Note: Refrigerant provided for RDMC 3-4.	
264	23 23 23 00-0005		LB	Refrigerant R-410A	\$7,056.91
				Quantity	Unit Price
				Installation	Factor
				750.00 x	\$9.96 x
				0.9447 =	\$7,056.91
				User Note: Refrigerant provided for RDMC 10-4	
265	26 05 29 00-0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$6,559.39
				Quantity	Unit Price
				Installation	Factor
				571.00 x	\$12.16 x
				0.9447 =	\$6,559.39
				User Note: Unistrut installed in the hanger system for the 4568 LF of mechanical piping required to be properly supported. 4568 LF of mechanical pipe / 8' spacing on supports = 571 hangers. Each hanger requires 1 LF of unistrut = 571 LF.	
266	26 05 29 00-0012		EA	End Cap For Unistrut Channel	\$9,817.51
				Quantity	Unit Price
				Installation	Factor
				1,142.00 x	\$9.10 x
				0.9447 =	\$9,817.51
				User Note: Unistrut channel caps installed on each end of the unistrut installed for the mechanical piping support. 571 hangers required x 2 caps per hanger = 1142 Total.	
Subtotal for Category - Mechanical:					\$1,044,211.19
Category - Mechanical Maintenance					
267	22 07 19 00-0455		LF	1/2" Pipe, (5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$790.90
				Quantity	Unit Price
				Installation	Factor
				140.00 x	\$5.98 x
				0.9447 =	\$790.90
				User Note: Remove and reinstall 20 LF of insulation per solenoid valve.	
				Replace (5) 1/2" valves and (2) 3/4" valves.	
				(5 + 2) x 20 LF each = 140 LF Total.	
268	22 07 19 00-0456		LF	3/4" Pipe, (7/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$345.19
				Quantity	Unit Price
				Installation	Factor
				60.00 x	\$6.09 x
				0.9447 =	\$345.19
				User Note: Remove and reinstall 20 LF of insulation per solenoid valve. Replace (3) 7/8" solenoid valves 3 x 20 LF each = 60 LF Total. Quantity calculation from contract drawings as well as a review of all existing conditions.	
269	22 07 19 00-0457		LF	1" Pipe, (1-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$591.38
				Quantity	Unit Price
				Installation	Factor
				100.00 x	\$6.26 x
				0.9447 =	\$591.38
				User Note: Remove and reinstall 20 LF of insulation per solenoid valve.	
				Replace (5) 1-1/8" solenoid valves.	
				5 x 20 LF each = 100 LF Total.	

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Mechanical Maintenance							
270	22 07 19 00-0458		LF	1-1/4" Pipe, (1-3/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$1,346.76		
				Quantity	Unit Price	Factor	Total
			Installation	220.00	x \$6.48	x 0.9447	= \$1,346.76
			User Note: Remove and reinstall 20 LF of insulation per solenoid valve. Replace (11) 1-3/8" solenoid valves. 11 x 20 LF each = 220 LF Total. Quantity calculation from contract drawings as well as a review of all existing conditions.				
271	22 07 19 00-0459		LF	1-1/2" Pipe, (1-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	\$2,658.39		
				Quantity	Unit Price	Factor	Total
			Installation	420.00	x \$6.70	x 0.9447	= \$2,658.39
			User Note: Remove and reinstall 20 LF of insulation per solenoid valve. Replace (21) 1-5/8" solenoid valves. 21 x 20 LF each = 420 LF Total.				
272	23 23 13 00-0033		EA	1/2" Solenoid Valve, Refrigeration	\$401.59		
				Quantity	Unit Price	Factor	Total
			Installation	5.00	x \$85.02	x 0.9447	= \$401.59
			User Note: Replace five (5) 1/2" solenoid valves per the field review of the existing piping.				
273	23 23 13 00-0035		EA	3/4" Solenoid Valve, Refrigeration	\$205.62		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x \$108.83	x 0.9447	= \$205.62
			User Note: Replace two (2) 3/4" solenoid valves per the field review of the existing piping.				
274	23 23 13 00-0036		EA	7/8" Solenoid Valve, Refrigeration	\$308.44		
				Quantity	Unit Price	Factor	Total
			Installation	3.00	x \$108.83	x 0.9447	= \$308.44
			User Note: Replace three (3) 7/8" solenoid valves per the field review of the existing piping.				
275	23 23 13 00-0037		EA	1-1/8" Solenoid Valve, Refrigeration	\$702.20		
				Quantity	Unit Price	Factor	Total
			Installation	5.00	x \$148.88	x 0.9447	= \$702.20
			User Note: Replace five (5) 1-1/8" solenoid valves per the field review of the existing piping.				
276	23 23 13 00-0038		EA	1 3/8" Solenoid Valve, Refrigeration	\$2,395.91		
				Quantity	Unit Price	Factor	Total
			Installation	11.00	x \$230.56	x 0.9447	= \$2,395.91
			User Note: Replace eleven (11) 1-3/8" solenoid valves per the field review of the existing piping.				
277	23 23 13 00-0039		EA	1-5/8" Solenoid Valve, Refrigeration	\$8,008.68		
				Quantity	Unit Price	Factor	Total
			Installation	21.00	x \$403.89	x 0.9447	= \$8,008.68
			User Note: Replace twenty-one (21) 1-5/8" solenoid valves per the field review of the existing piping.				
Subtotal for Category - Mechanical Maintenance:					\$17,755.06		
Category - Phase 1							

Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total								
Category - Phase 1													
278	01 22 20 00-0010		HR	ElectricianTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$894.44								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 12.00 x</td> <td>\$78.90 x</td> <td>0.9447 =</td> <td>\$894.44</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 12.00 x	\$78.90 x	0.9447 =	\$894.44	
Quantity	Unit Price	Factor	Total										
Installation 12.00 x	\$78.90 x	0.9447 =	\$894.44										
			User Note:	Electrician required to turn power off, isolate power and turn power back on to existing door motors as required through duration of project. One electrical foreman and one journeyman for 6 hours each, 12 hours total.									
279	01 22 20 00-0036		HR	Truck Driver, LightTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$202.35								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 4.00 x</td> <td>\$53.55 x</td> <td>0.9447 =</td> <td>\$202.35</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 4.00 x	\$53.55 x	0.9447 =	\$202.35	
Quantity	Unit Price	Factor	Total										
Installation 4.00 x	\$53.55 x	0.9447 =	\$202.35										
			User Note:	Delivery truck required for balance of cold storage door and hardware delivery. Delivery required from contractors shop as materials can not be delivered directly to DOC. Delivery truck utilized for replacement doors only. 1 day x 4 hours = 4 hours total.									
280	01 22 23 00-0148		WK	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$3,561.39								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 1.00 x</td> <td>\$3,769.86 x</td> <td>0.9447 =</td> <td>\$3,561.39</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 1.00 x	\$3,769.86 x	0.9447 =	\$3,561.39	
Quantity	Unit Price	Factor	Total										
Installation 1.00 x	\$3,769.86 x	0.9447 =	\$3,561.39										
			User Note:	This line item represents the actual heavy equipment that will be onsite to assist in loading, off-loading, moving and installing all materials as required to complete the required scope of work. Heavy equipment (bobcat) required to off load, locate in storage area and place new doors for installation. Two week duration with operator, one week duration without operator.									
281	01 22 23 00-0180		WK	Forklift Attachment For Skid-Steer Loaders	\$88.85								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 1.00 x</td> <td>\$94.05 x</td> <td>0.9447 =</td> <td>\$88.85</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 1.00 x	\$94.05 x	0.9447 =	\$88.85	
Quantity	Unit Price	Factor	Total										
Installation 1.00 x	\$94.05 x	0.9447 =	\$88.85										
			User Note:	Forklift attachment for bobcat required for installation of cold storage doors.									
282	01 31 33 00-0003		EA	Minimum Labor Cost, 2 Person Crew Size	\$585.92								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 1.00 x</td> <td>\$620.22 x</td> <td>0.9447 =</td> <td>\$585.92</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 1.00 x	\$620.22 x	0.9447 =	\$585.92	
Quantity	Unit Price	Factor	Total										
Installation 1.00 x	\$620.22 x	0.9447 =	\$585.92										
			User Note:	This line item is required specifically because of the security requirements at this Cook County facility. This line item is to account for additional daily security requirements required for working at the Department of Corrections including entering and leaving the facility daily, moving tools, equipment and materials from secured area to working area daily and tool and material list procedures as required. Downtime of 1/2 hour per man per day. Project requires one two (2) man crew for 5 days for electrical from balance of work on original project. 2 men x 5 days = 10 days x 1/2 hour = 5 hours total. 2 person crew x 4 hour = 8; 5 hours / 8 = .625 ~ 1 EA									
283	01 31 33 00-0004		EA	Minimum Labor Cost, 3 Person Crew Size	\$859.37								
				<table border="1"> <thead> <tr> <th>Quantity</th> <th>Unit Price</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Installation 1.00 x</td> <td>\$909.67 x</td> <td>0.9447 =</td> <td>\$859.37</td> </tr> </tbody> </table>	Quantity	Unit Price	Factor	Total	Installation 1.00 x	\$909.67 x	0.9447 =	\$859.37	
Quantity	Unit Price	Factor	Total										
Installation 1.00 x	\$909.67 x	0.9447 =	\$859.37										
			User Note:	Electrician required to turn power off, isolate power and turn power back on to existing door motors as required through duration of project. One electrical foreman and one journeyman for 6 hours each, 12 hours total. 3 person crew x 4 hours = 12; 12 hours / 12 = 1 EA									

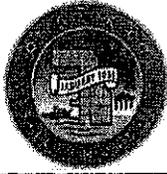
Price Proposal Detail - Category Continues..

Job Order Number: 031000.00
 Job Order Title: DOC Central Kitchen Condensing Units

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Category - Phase 1							
284	01 71 13 00-0003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes delivery and pickup. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$380.36		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x \$402.63	x 0.9447 =	\$380.36
			User Note: Mobilization and demobilization of bobcat and forklift attachment.				
285	01 74 19 00-0016		EA	20 CY Dumpster (3 Ton) "Construction Debris"Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$473.60		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x \$501.32	x 0.9447 =	\$473.60
			User Note: Dumpsters for disposal of cooler doors, associated demolition debris, and packaging materials from new doors.				
286	08 34 13 00-0003		EA	7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" F.I.P. Polyurethane	\$7,168.78		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x \$7,588.42	x 0.9447 =	\$7,168.78
			User Note: Provide new door for deep chiller room to replace existing non-functioning door as required.				
Subtotal for Category - Phase 1:					\$14,215.06		
Proposal Total					\$1,605,484.28		

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 42.02%



Cook County
Office of Planning & Policy
69 W Washington
Chicago, IL 60602

Job Order Contract

Cook County Office of Planning & Policy

Contractor: Paschen Autumn Joint Venture

Work Order Number: 031000.00

Date: 17 December 2015

Work Order Title: DOC Central Kitchen Condensing Units

Detailed Scope of Work			
Project Scope Status:	<input type="checkbox"/> Preliminary	<input type="checkbox"/> Revised	<input checked="" type="checkbox"/> Final

10/23/2015

Following is the scope of work for the above Project Number. All requirements necessary to accomplish the work tasks set forth below shall be considered part of this scope of work.

Perform all kitchen condenser unit upgrades, as indicated within the DuSable design drawing, dated 10/24/2014. *Remove and replace forty-seven (47) solenoid valves throughout system. *Remove and replace 940 lineal feet of refrigerant piping insulation throughout the system. *Engineering fees to provide permitting and administrative services. *Provide the following door work as required: WALK-IN DOOR ROOM 145 *Remove one (1) existing door and frame *Furnish and install one (1) 84"H x 60"W x 4"D swinging walk-in door and frame. *Furnish and install all new door accessories which include but are not limited to: lock and strike, door closer, gaskets and hardware, kick plate, etc. WALK-IN DOOR ROOM 144 *Remove one (1) existing door and frame *Furnish and install one (1) 84"H x 60"W x 4"D swinging walk-in door and frame. *Furnish and install all new door accessories which include but are not limited to: lock and strike, door closer, gaskets and hardware, kick plate, etc. *Repair/replacement of panels around door WALK-IN DOOR ROOM 119 INTO FREEZER *Remove one (1) existing door and frame *Furnish and install one (1) 102"H x 84"W x 4"D automatic lift door and motor. *Furnish and install all new door accessories which include but are not limited to: frame, lock and strike, gaskets and hardware, kick plate, etc. WALK-IN DOOR ROOM 120 *Remove one (1) existing sliding door *Furnish and install one (1) 120"H x 96"W x 4"D automatic sliding door *Repair damaged wall near room 120 CLARIFICATIONS *All work to be performed during normal working hours *All work not specifically listed above is excluded from this proposal *Permitting costs will be billed for using a supplemental work order

Brief Scope of Work:

Central Kitchen Condensing Unit Upgrades

Specific Submittals Required:

Sketches and Drawings:

Material Submittals:

Scheduling Requirements:

Price Proposal Due Date: 11/20/2015
Estimated Construction Start: No Date Input
Estimated Construction Completion: No Date Input

Special Conditions: Liquidated Damages will not apply

Special Instructions:

Comments:

Estimated Project Duration: 5 Months

Detailed Scope of work Report Continues

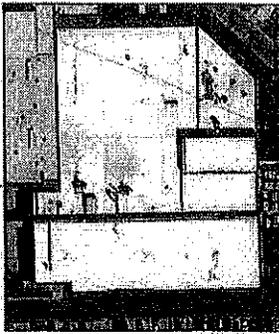
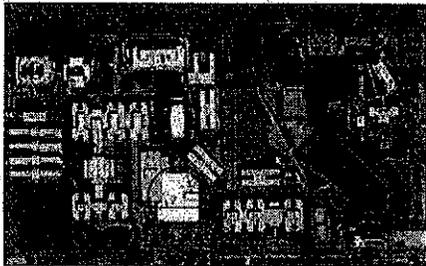
Work Order Number: 031000.00

Work Order Title: DOC Central Kitchen Condensing Units

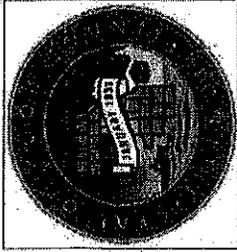
Snackin 12/1/15
Project Manager Date:

Frank Wilson 12/8/15
Paschen Autumn Joint Venture Date:

* To be signed by Contractor if Final Scope of Work



PROJECT LOCATION
COOK COUNTY DEPARTMENT OF CORRECTIONS
2700 SOUTH CALIFORNIA
CHICAGO, ILLINOIS 60606



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLER UPGRADE
JOB No. 16462.00

JOHN COOKE, DIRECTOR
BUREAU OF ECONOMIC DEVELOPMENT
OFFICE OF CAPITAL PLANNING AND POLICY
89 WEST WASHINGTON SUITE 3000
CHICAGO, ILLINOIS 60602
CURTIS FLORENCE, PROJECT DIRECTOR

DRAWING LIST

- 01 G100 -- COVER SHEET
- 02 M001 -- SYMBOLS, NOTES and SCHEDULES
- 03 M002 -- PLAN VIEW -- COMPLETE SITE
- 04 M101 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA A
- 05 M102 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA B
- 06 M103 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA C
- 07 M104 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA D
- 08 M105 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA E
- 09 M106 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA F
- 10 M107 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA G
- 11 M108 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA H
- 12 M109 -- PARTIAL MECHANICAL DEMOLITION PLAN AREA I
- 13 M110 -- PARTIAL MECHANICAL DEMOLITION PLAN HVAC PAD
- 14 M111 -- PARTIAL MECHANICAL NEW WORK PLAN AREA A
- 15 M112 -- PARTIAL MECHANICAL NEW WORK PLAN AREA B
- 16 M113 -- PARTIAL MECHANICAL NEW WORK PLAN AREA C
- 17 M114 -- PARTIAL MECHANICAL NEW WORK PLAN AREA D
- 18 M115 -- PARTIAL MECHANICAL NEW WORK PLAN AREA E
- 19 M116 -- PARTIAL MECHANICAL NEW WORK PLAN AREA F
- 20 M117 -- PARTIAL MECHANICAL NEW WORK PLAN AREA G
- 21 M118 -- PARTIAL MECHANICAL NEW WORK PLAN AREA H
- 22 M119 -- PARTIAL MECHANICAL NEW WORK PLAN AREA I
- 23 M120 -- PARTIAL MECHANICAL NEW WORK PLAN HVAC PAD
- 24 M121 -- NEW WORK EQUIPMENT SCHEDULE
- 25 M122 -- REFERENCE DRAWING #1
- 26 M123 -- REFERENCE DRAWING #2
- 27 M124 -- REFERENCE DRAWING #3
- 28 M125 -- LOW TEMPERATURE RACK REFRIGERATION PIPING
- 29 M126 -- MEDIUM TEMPERATURE RACK REFRIGERATION PIPING
- 30 M127 -- HIGH TEMPERATURE RACK REFRIGERATION PIPING



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

ISSUED FOR BID - REVIEW
DATE: 10/23/14
SHEET TITLE: DESCRIPTION

0001
COVER SHEET

SHEET No: 1 of 30



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

SYMBOLS, NOTES, AND
ABBREVIATIONS

SHEET No: 2 of 30

HVAC PIPING SYMBOLS (CONTINUED)

—HU—	WACUP WATER
—HNS—	HOT WATER SUPPLY
—HNR—	HOT WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—CWR—	CONDENSER WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—RDS—	REFRIGERANT DISCHARGE
—RS—	REFRIGERANT SUCTION
—RL—	REFRIGERANT LIQUID
—CS—	COLD WATER SUPPLY
—CR—	COLD WATER RETURN
—X—	PIPE ANCHOR
—EJ—	EXPANSION JOINT
—EL—	EXPANSION LOOP
—R—	REDUCER, CONCENTRIC
—R—	REDUCER, ECCENTRIC
—M—	MANUAL VALVE
—A—	AUTOMATIC VALVE
—P—	PRESSURE & TEMPERATURE TAP
—T—	STEAM TRAP

PLUMBING PIPING SYMBOLS

—H—	POTABLE HOT WATER
—HR—	POTABLE HOT WATER RETURN
—CW—	POTABLE COLD WATER
—V—	SANITARY VENT
—SD—	SANITARY DRAIN
—ST—	STORM PIPING
—S—	SENSOR
—F—	FLOOR CLEANOUT
—FC—	FLOOR CLEANOUT
—FD—	FLOOR DRAIN
—RD—	ROOF DRAIN
—M—	WATER METER
—F—	FIRE SUPPLY PIPING

FIRE PROTECTION PIPING SYMBOLS

—F—	FIRE SUPPLY PIPING
-----	--------------------

GENERAL MECHANICAL SYMBOLS

①	1. IDENTIFY NUMBER 1, 2, 3, 4. DEMONSTRATE KEMATE LETTER A, B, C.
②	MECHANICAL EQUIPMENT TYPE 1. MECHANICAL EQUIPMENT TYPE 2. EQUIPMENT NUMBER
③	SERIAL NO. 1. SERIAL NUMBER 2. SHEET NUMBER
④	SECTION USE 1. SECTION NUMBER 2. SHEET NUMBER

HVAC PIPING SYMBOLS

—	GATE VALVE (OR OTHER TYPE VALUE WHERE SPECIFIED)
—	GLOBE VALVE
—	CHECK VALVE
—	3-WAY VALVE
—	3-WAY PNEUMATIC CONTROL VALVE
—	2-WAY PNEUMATIC CONTROL VALVE WITH MOTOR
—	4-WAY VALVE
—	RELIEF VALVE
—	PRESSURE REDUCING VALVE
—	CONTROL VALVE—ELECTRIC
—	CONTROL VALVE—SOLENOID
—	STRAINER
—	THERMISTOR & SEPARABLE SOCKET
—	PRESSURE GAUGE W/ GAUGE CRK
—	DIAPHRAGM VALVE
—	ANGLE VALVE—VERTICAL
—	ANGLE VALVE—HORIZONTAL
—	UNION
—	BALANCING VALVE
—	CIRCUIT BREAKER
—	PLUG VALVE
—	NEEDLE VALVE
—	BIDENTITY VALVE
—	BELL VALVE

GENERAL NOTES:

1. PANEL SHALL BE LOCATED PER COOK COUNTY SPECIFICATION.
2. EACH FAN COIL SHALL HAVE KEZ.
3. REFRIGERATION PIPING SHALL BE TYPE K COPPER WITH BRAZED JOINTS CONTINUOUS THROUGH THE OPTION TO PROVIDE AIR TUBES.

AC	AIR CONDITION (—ED, —ER, —NS)	AC	CONDENSER AIR
AD	AIR COOLER CONDENSER UNIT	AD	LEAVING AIR TEMPERATURE
AF	AIR FILTER	AF	RETURN AIR TEMPERATURE
AG	AIR COOLER FLOOR	AG	ROOM AIR TEMPERATURE
AI	AIR INLET	AI	MAXIMUM ROOM AIR TEMPERATURE
AL	AIR LOCK	AL	MINIMUM ROOM AIR TEMPERATURE
AO	AIR OUTLET	AO	ROOM AIR TEMPERATURE DIFFERENCE
AP	AIR PANEL	AP	ROOM AIR TEMPERATURE DIFFERENCE
AR	AIR REGISTER	AR	ROOM AIR TEMPERATURE DIFFERENCE
AS	AIR SUPPLY	AS	ROOM AIR TEMPERATURE DIFFERENCE
AT	AIR TREATMENT UNIT	AT	ROOM AIR TEMPERATURE DIFFERENCE
AV	AIR VENT	AV	ROOM AIR TEMPERATURE DIFFERENCE
AW	AIR WASH	AW	ROOM AIR TEMPERATURE DIFFERENCE
AX	AIR WASH	AX	ROOM AIR TEMPERATURE DIFFERENCE
AY	AIR WASH	AY	ROOM AIR TEMPERATURE DIFFERENCE
AZ	AIR WASH	AZ	ROOM AIR TEMPERATURE DIFFERENCE
BA	BALANCING AIR	BA	BALANCING AIR
BB	BALANCING AIR	BB	BALANCING AIR
BC	BALANCING AIR	BC	BALANCING AIR
BD	BALANCING AIR	BD	BALANCING AIR
BE	BALANCING AIR	BE	BALANCING AIR
BF	BALANCING AIR	BF	BALANCING AIR
BG	BALANCING AIR	BG	BALANCING AIR
BH	BALANCING AIR	BH	BALANCING AIR
BI	BALANCING AIR	BI	BALANCING AIR
BJ	BALANCING AIR	BJ	BALANCING AIR
BK	BALANCING AIR	BK	BALANCING AIR
BL	BALANCING AIR	BL	BALANCING AIR
BM	BALANCING AIR	BM	BALANCING AIR
BN	BALANCING AIR	BN	BALANCING AIR
BO	BALANCING AIR	BO	BALANCING AIR
BP	BALANCING AIR	BP	BALANCING AIR
BQ	BALANCING AIR	BQ	BALANCING AIR
BR	BALANCING AIR	BR	BALANCING AIR
BS	BALANCING AIR	BS	BALANCING AIR
BT	BALANCING AIR	BT	BALANCING AIR
BU	BALANCING AIR	BU	BALANCING AIR
BV	BALANCING AIR	BV	BALANCING AIR
BW	BALANCING AIR	BW	BALANCING AIR
BX	BALANCING AIR	BX	BALANCING AIR
BY	BALANCING AIR	BY	BALANCING AIR
BZ	BALANCING AIR	BZ	BALANCING AIR
CA	COMPRESSOR	CA	CONDENSER AIR
CB	COMPRESSOR	CB	CONDENSER AIR
CC	COMPRESSOR	CC	CONDENSER AIR
CD	COMPRESSOR	CD	CONDENSER AIR
CE	COMPRESSOR	CE	CONDENSER AIR
CF	COMPRESSOR	CF	CONDENSER AIR
CG	COMPRESSOR	CG	CONDENSER AIR
CH	COMPRESSOR	CH	CONDENSER AIR
CI	COMPRESSOR	CI	CONDENSER AIR
CJ	COMPRESSOR	CJ	CONDENSER AIR
CK	COMPRESSOR	CK	CONDENSER AIR
CL	COMPRESSOR	CL	CONDENSER AIR
CM	COMPRESSOR	CM	CONDENSER AIR
CN	COMPRESSOR	CN	CONDENSER AIR
CO	COMPRESSOR	CO	CONDENSER AIR
CP	COMPRESSOR	CP	CONDENSER AIR
CQ	COMPRESSOR	CQ	CONDENSER AIR
CR	COMPRESSOR	CR	CONDENSER AIR
CS	COMPRESSOR	CS	CONDENSER AIR
CT	COMPRESSOR	CT	CONDENSER AIR
CU	COMPRESSOR	CU	CONDENSER AIR
CV	COMPRESSOR	CV	CONDENSER AIR
CW	COMPRESSOR	CW	CONDENSER AIR
CX	COMPRESSOR	CX	CONDENSER AIR
CY	COMPRESSOR	CY	CONDENSER AIR
CZ	COMPRESSOR	CZ	CONDENSER AIR
DA	DAMPENING AIR	DA	DAMPENING AIR
DB	DAMPENING AIR	DB	DAMPENING AIR
DC	DAMPENING AIR	DC	DAMPENING AIR
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DK	DAMPENING AIR	DK	DAMPENING AIR
DL	DAMPENING AIR	DL	DAMPENING AIR
DM	DAMPENING AIR	DM	DAMPENING AIR
DN	DAMPENING AIR	DN	DAMPENING AIR
DO	DAMPENING AIR	DO	DAMPENING AIR
DP	DAMPENING AIR	DP	DAMPENING AIR
DQ	DAMPENING AIR	DQ	DAMPENING AIR
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EO	ELECTRIC AIR HEATER	EO	ELECTRIC AIR HEATER
EP	ELECTRIC AIR HEATER	EP	ELECTRIC AIR HEATER
EQ	ELECTRIC AIR HEATER	EQ	ELECTRIC AIR HEATER
ER	ELECTRIC AIR HEATER	ER	ELECTRIC AIR HEATER
ES	ELECTRIC AIR HEATER	ES	ELECTRIC AIR HEATER
ET	ELECTRIC AIR HEATER	ET	ELECTRIC AIR HEATER
EU	ELECTRIC AIR HEATER	EU	ELECTRIC AIR HEATER
EV	ELECTRIC AIR HEATER	EV	ELECTRIC AIR HEATER
EW	ELECTRIC AIR HEATER	EW	ELECTRIC AIR HEATER
EX	ELECTRIC AIR HEATER	EX	ELECTRIC AIR HEATER
EY	ELECTRIC AIR HEATER	EY	ELECTRIC AIR HEATER
EZ	ELECTRIC AIR HEATER	EZ	ELECTRIC AIR HEATER
FA	FAN	FA	FAN
FB	FAN	FB	FAN
FC	FAN	FC	FAN
FD	FAN	FD	FAN
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GA	GAS	GA	GAS
GB	GAS	GB	GAS
GC	GAS	GC	GAS
GD	GAS	GD	GAS
GE	GAS	GE	GAS
GF	GAS	GF	GAS
GG	GAS	GG	GAS
GH	GAS	GH	GAS
GI	GAS	GI	GAS
GJ	GAS	GJ	GAS
GK	GAS	GK	GAS
GL	GAS	GL	GAS
GM	GAS	GM	GAS
GN	GAS	GN	GAS
GO	GAS	GO	GAS
GP	GAS	GP	GAS
GQ	GAS	GQ	GAS
GR	GAS	GR	GAS
GS	GAS	GS	GAS
GT	GAS	GT	GAS
GU	GAS	GU	GAS
GV	GAS	GV	GAS
GW	GAS	GW	GAS
GX	GAS	GX	GAS
GY	GAS	GY	GAS
GZ	GAS	GZ	GAS
HA	HEAT EXCHANGER	HA	HEAT EXCHANGER
HB	HEAT EXCHANGER	HB	HEAT EXCHANGER
HC	HEAT EXCHANGER	HC	HEAT EXCHANGER
HD	HEAT EXCHANGER	HD	HEAT EXCHANGER
HE	HEAT EXCHANGER	HE	HEAT EXCHANGER
HF	HEAT EXCHANGER	HF	HEAT EXCHANGER
HG	HEAT EXCHANGER	HG	HEAT EXCHANGER
HH	HEAT EXCHANGER	HH	HEAT EXCHANGER
HI	HEAT EXCHANGER	HI	HEAT EXCHANGER
HJ	HEAT EXCHANGER	HJ	HEAT EXCHANGER
HK	HEAT EXCHANGER	HK	HEAT EXCHANGER
HL	HEAT EXCHANGER	HL	HEAT EXCHANGER
HM	HEAT EXCHANGER	HM	HEAT EXCHANGER
HN	HEAT EXCHANGER	HN	HEAT EXCHANGER
HO	HEAT EXCHANGER	HO	HEAT EXCHANGER
HP	HEAT EXCHANGER	HP	HEAT EXCHANGER
HQ	HEAT EXCHANGER	HQ	HEAT EXCHANGER
HR	HEAT EXCHANGER	HR	HEAT EXCHANGER
HS	HEAT EXCHANGER	HS	HEAT EXCHANGER
HT	HEAT EXCHANGER	HT	HEAT EXCHANGER
HU	HEAT EXCHANGER	HU	HEAT EXCHANGER
HV	HEAT EXCHANGER	HV	HEAT EXCHANGER
HW	HEAT EXCHANGER	HW	HEAT EXCHANGER
HX	HEAT EXCHANGER	HX	HEAT EXCHANGER
HY	HEAT EXCHANGER	HY	HEAT EXCHANGER
HZ	HEAT EXCHANGER	HZ	HEAT EXCHANGER
IA	INSULATION	IA	INSULATION
IB	INSULATION	IB	INSULATION
IC	INSULATION	IC	INSULATION
ID	INSULATION	ID	INSULATION
IE	INSULATION	IE	INSULATION
IF	INSULATION	IF	INSULATION
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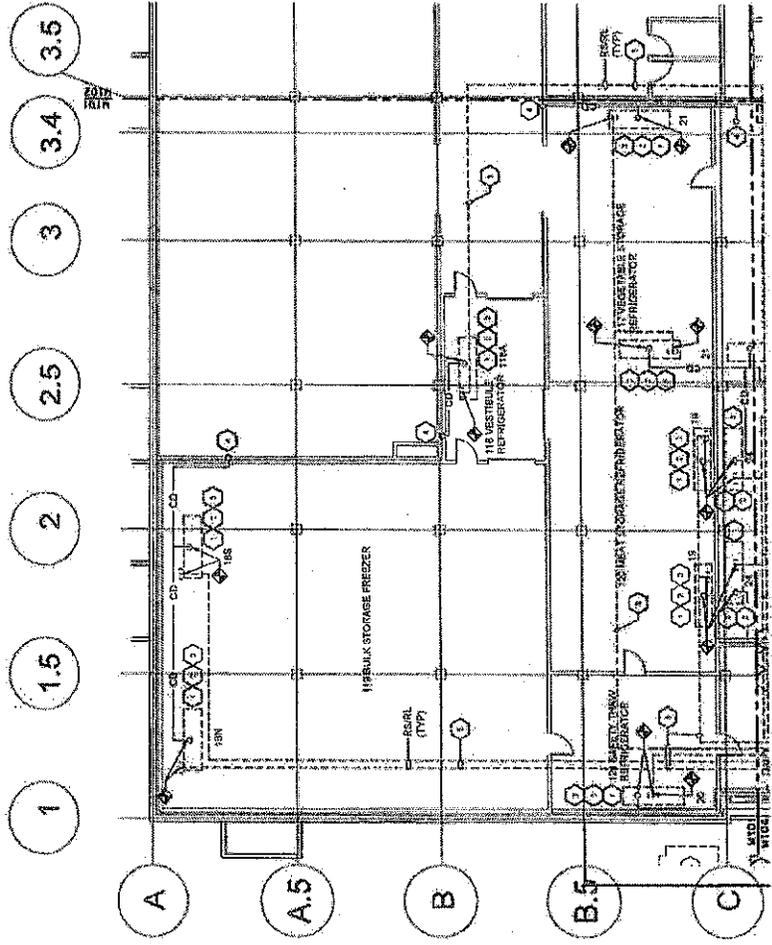
COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

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W191
PARTIAL MECHANICAL
DEMOLITION PLAN AREA A

SHEET No: 4 of 30

- DEMOLITION - KEYED NOTES:**
- ① REMOVE EXISTING REFRIGERATOR COIL. ALL REFRIGERANT SHALL BE RECOVERED/RECYCLED. CONDENSATE DRAIN & REFRIGERATION LINES.
 - ② CAP EXISTING CONDENSATE DRAIN IN REFRIGERATION FOR THE CONNECTION TO THE NEW EVAPORATOR.
 - ③ EXISTING OPENINGS THRU COOLER/FREEZER SHALL BE PLUGGED/SEALED IF NOT REUSED.
 - ④ EXISTING INDIRECT WASTE TO REMAIN.
 - ⑤ REFRIGERATION LINES TO REMAIN.



1 PARTIAL MECHANICAL DEMOLITION PLAN AREA A North



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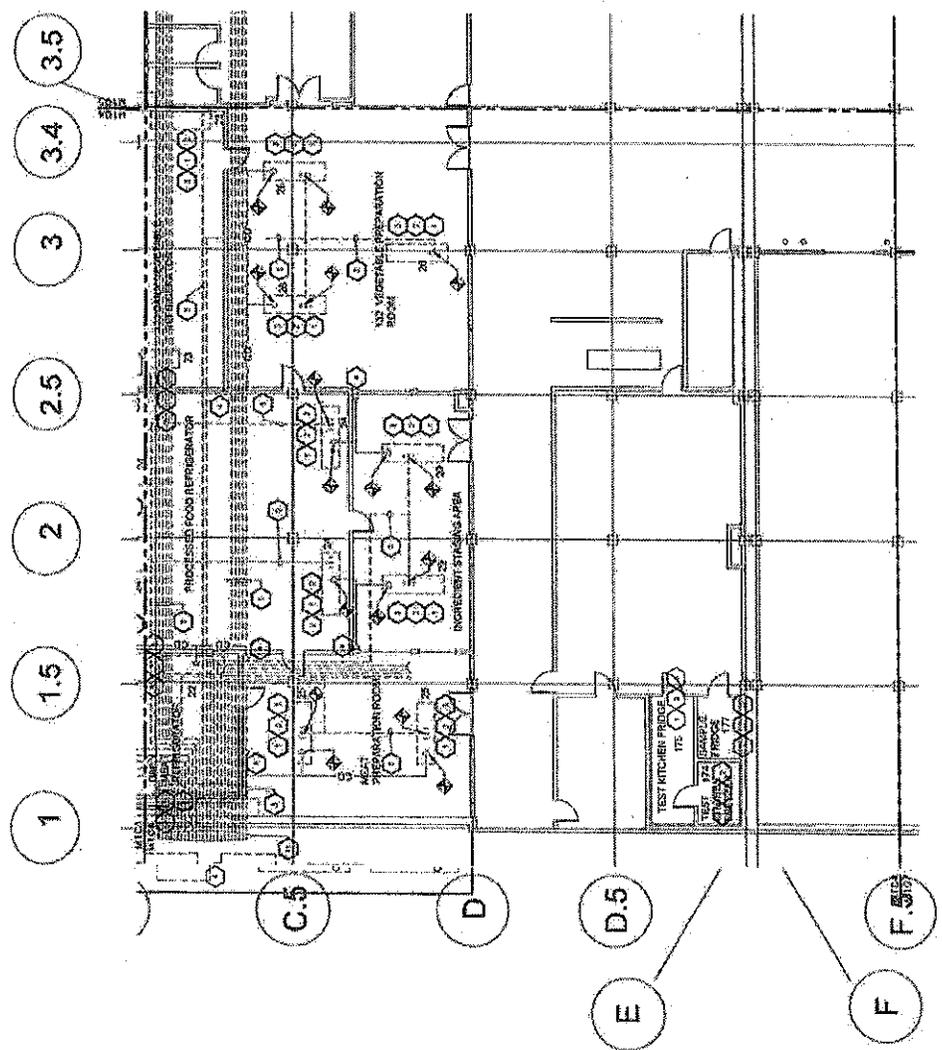
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SHEET NO: []

M154
PARTIAL MECHANICAL
DEMOLITION PLAN AREA D

SHEET No: 7 of 30

- DEMOLITION - KEVED NOTES:**
- ① REMOVE EXISTING REFRIGERATOR COIL, ALL APPURTENANCES IN ITS EXISTING CONDENSATE DRAIN & REFRIGERATION LINES
 - ② CAP EXISTING CONDENSATE DRAIN IN PREPARATION FOR THE CONNECTION TO THE NEW COMPARTOR.
 - ③ EXISTING OPENINGS THRU COILS/FREEZER SHALL BE PLUGGED/SEAL IF NOT REUSED.
 - ④ EXISTING INCORRECT WASTE TO REMAIN.
 - ⑤ REFRIGERATION LINES TO REMAIN.



1 PARTIAL MECHANICAL DEMOLITION PLAN AREA D North



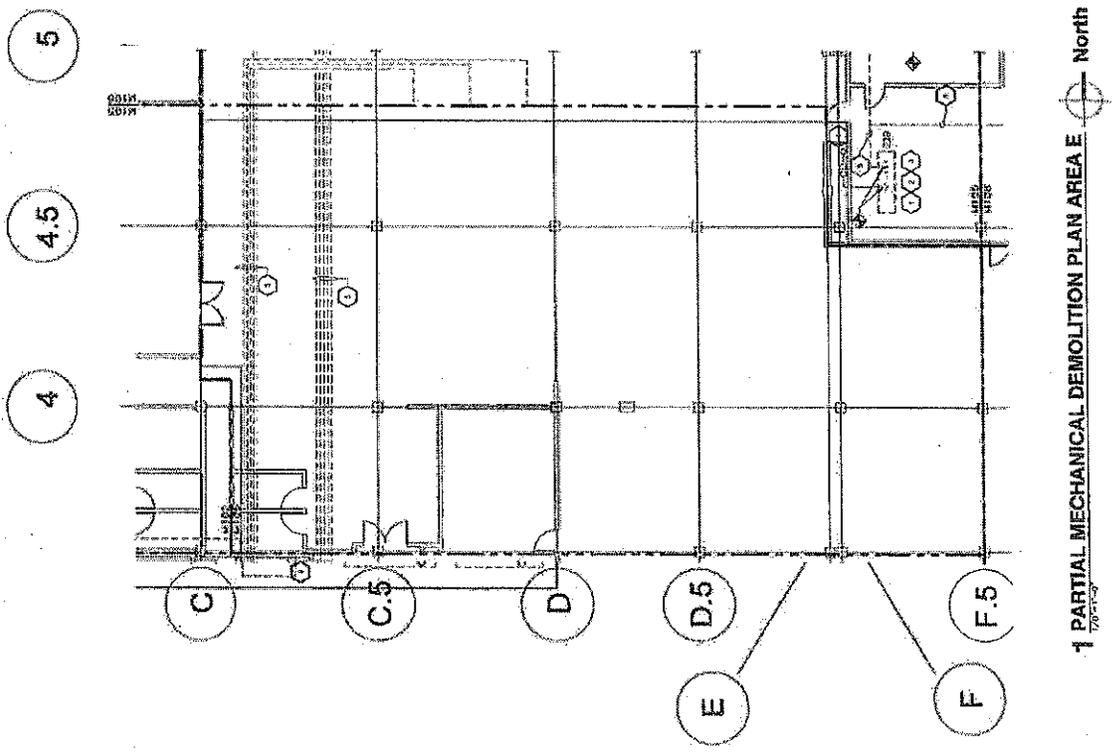
COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

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DATE		
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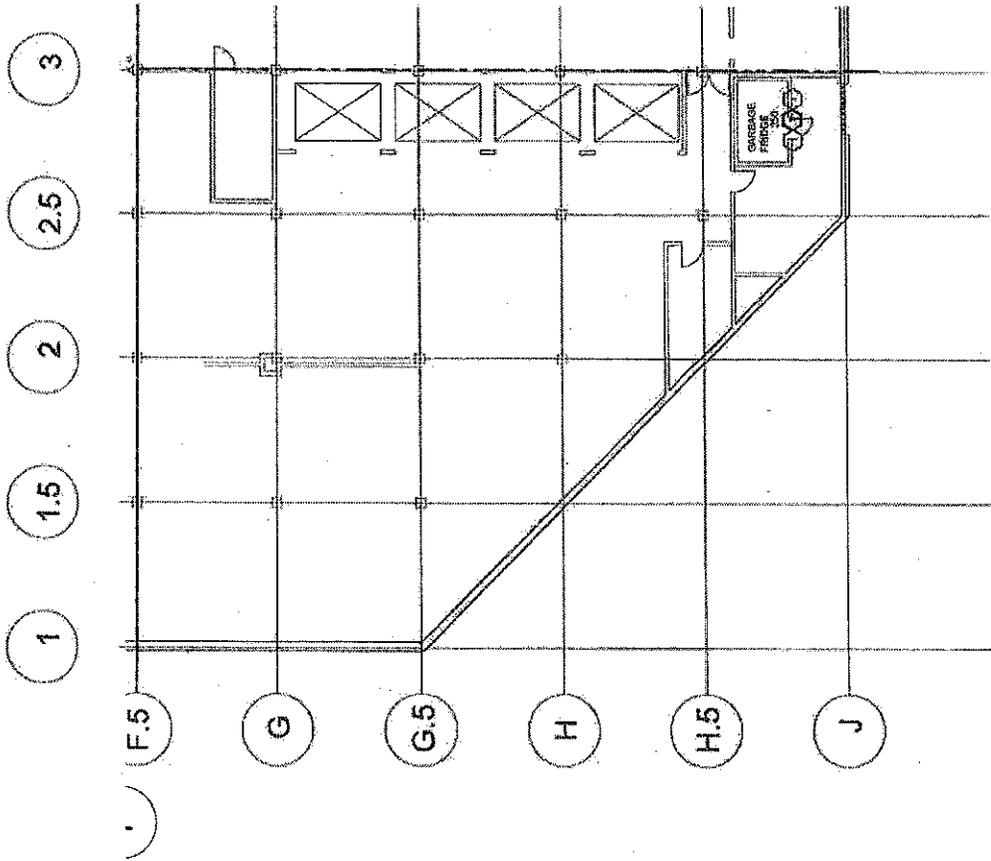
M205
PARTIAL MECHANICAL
DEMOLITION PLAN AREA E

SHEET No: 8 of 30

- DEMOLITION - KEYED NOTES:**
- ① REMOVE EXISTING EVAPORATOR COIL, ALL APPLIANCES IN ITS ENTIRETY, EXCEPT CONDENSATE DRAIN & REFRIGERATION LINES.
 - ② C/F EXISTING CONDENSATE DRAIN IN PREPARATION FOR THE CONNECTION TO THE NEW EVAPORATOR.
 - ③ EXISTING OPENINGS THRU COOLER/PREEZER SHALL BE PLUGGED/SEAL, IF NOT REUSED.
 - ④ EXISTING INDIRECT WASTE TO REMAIN.
 - ⑤ REFRIGERATION LINES TO REMAIN.



1 PARTIAL MECHANICAL DEMOLITION PLAN AREA E North



1 PARTIAL MECHANICAL DEMOLITION PLAN AREA G North



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1	10/24/14 ISSUED FOR 810 - REVISION

M107
PARTIAL MECHANICAL
DEMOLITION PLAN AREA G

SHEET No: 10 of 30



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

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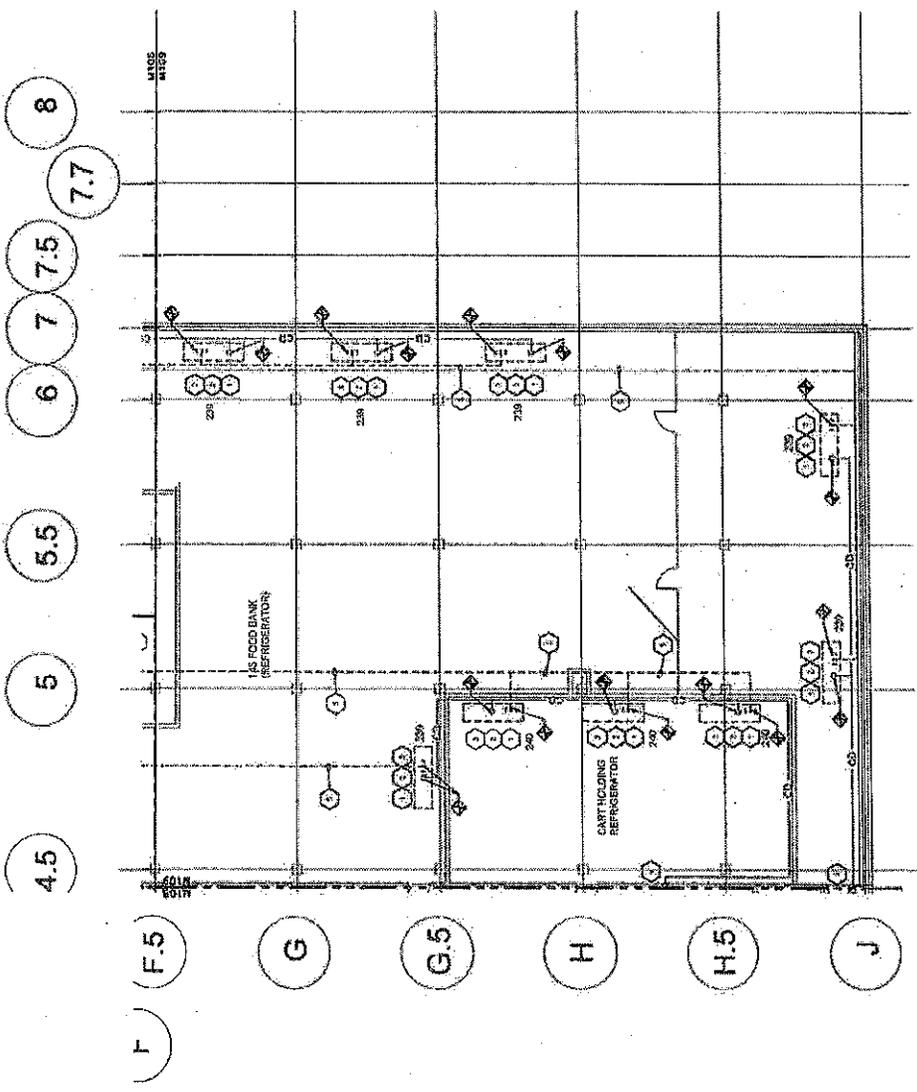
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M1199
PARTIAL MECHANICAL
DEMOLITION PLAN AREA 1

SHEET No: 12 of 30

DEMOLITION - KEYED NOTES:

- 1 REMOVE EXISTING EVAPORATOR COIL, ALL APPURTENANCES IN ITS ENTIRETY EXCEPT CONDENSATE DRAIN & REFRIGERATION LINES
- 2 CAP EXISTING CONDENSATE DRAIN IN PREPARATION FOR THE CONNECTION TO THE NEW EVAPORATOR.
- 3 EXISTING COPPING TRIM, COOLER/FREEZER SHALL BE PLUGGED/SEAL & NOT REUSED.
- 4 EXISTING INDIRECT WASTE TO REMAIN.
- 5 REFRIGERATION LINES TO REMAIN.



1 PARTIAL MECHANICAL DEMOLITION PLAN AREA 1



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CHILLERS

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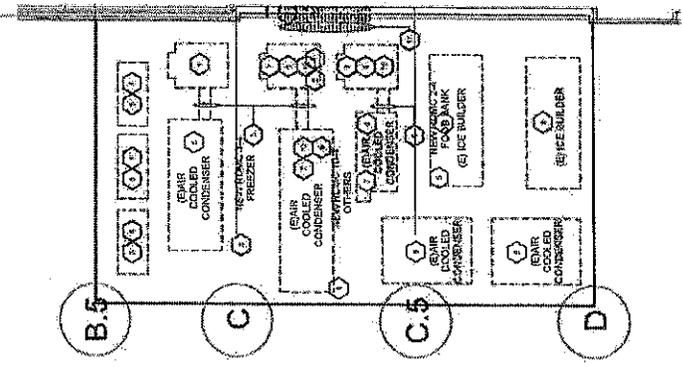
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PARTIAL MECHANICAL
DEMOLITION PLANS-HVAC-PAD

SHEET No: 13 of 30

DEMOLITION - KEYED NOTES:

- 1) NOT USED
- 2) NOT USED
- 3) NOT USED
- 4) NOT USED
- 5) REMOVE EXISTING COMPRESSOR/REFRIGERATION MACHINE INCLUDING REFRIGERATION LINES, DISCONNECT POWER AND CAP ALL UTILITIES AT MARK.
- 6) REMOVE EXISTING AIR COOLED CONDENSER REFRIGERATION BETWEEN COMPRESSOR AND CONDENSER UNIT. DISCONNECT, DISCONNECT POWER AND CAP AT MARK.
- 7) EXISTING CONCRETE PAD UNDER SHALL BE REMOVED.
- 8) THESE UNITS ARE NOT IN SERVICE. THESE UNITS MUST BE REMOVED AND DISPOSED AS INSTRUCTED BY COUNTY.
- 9) EXISTING COLD WATER & ICE WATER SUPPLY AND RETURN, AIR-LINE MUST BE REMOVED IN THIS EXTERIOR. CAP OPENING IN WALL TO MATCH EXISTING.
- 10) BEFORE REMOVING THIS EQUIPMENT, IDENTIFY ALL EVAPORATOR NOT IN SCOPE THAT WILL BE AFFECTED BY REMOVAL OF THE COMPRESSOR/ AIR COOLED CONDENSER.
- 11) CAP EXISTING REFRIGERATION LINES AT WALL. REMOVE REFRIGERATION LINES BEYOND THIS POINT.

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1 PARTIAL MECHANICAL DEMOLITION PLAN
North



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

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M113
PARTIAL MECHANICAL
NEW WORK PLAN AREA C

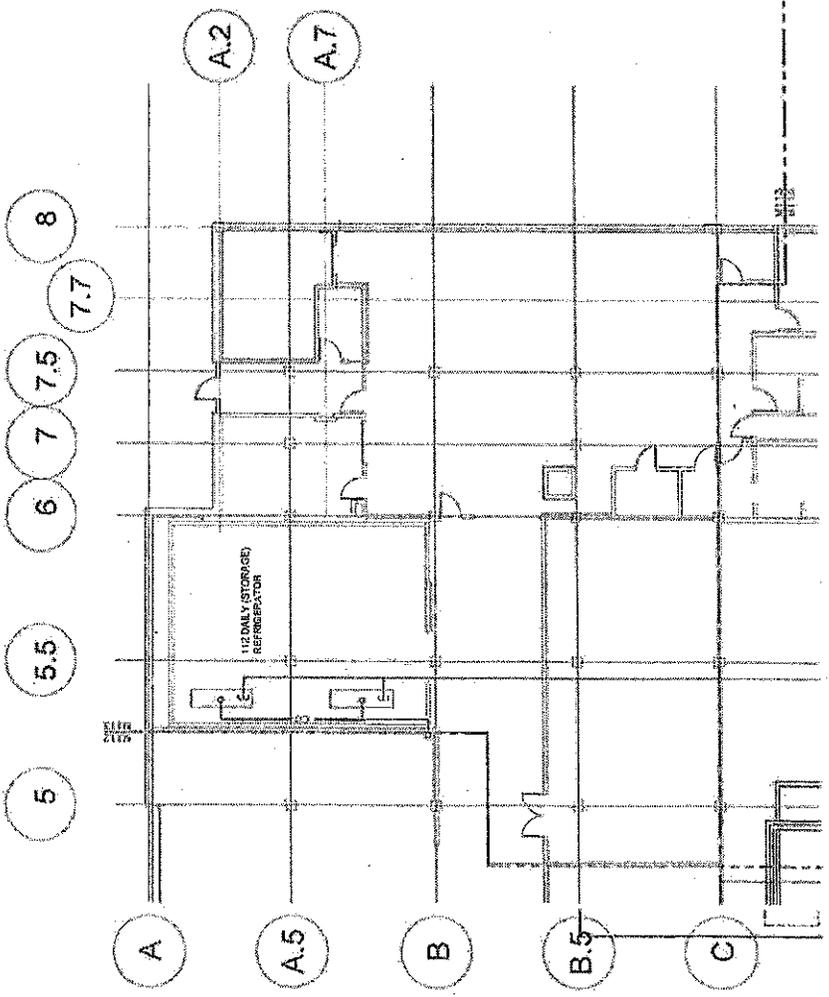
SHEET No: 16 of 30

NEW WORK - SHEET NOTES:

- EXISTING REFRIGERANT SUCTION & LIQUOR LINE SYSTEMS TO BE REMOVED AND REPLACED WITH NEW SYSTEMS. NO REMAINS OF EXISTING REFRIGERANT REMAINS.
- EXTEND EXISTING REFRIGERANT PIPING TO NEW EVAPORATOR COIL COOLER/FREEZERS BELOW CEILING. ALL PIPING TO BE DONE WITHIN EXISTING CONDENSATE DRAIN TO NEW EVAPORATOR COIL.
- VERIFY ELECTRICAL REQUIREMENT FOR NEW EVAPORATOR COIL.

NEW WORK - KEYED NOTES:

- NEW EVAPORATOR COIL SUSPEND NEW COIL IN APPROXIMATELY IN THE SAME LOCATION AS EXISTING EQUIPMENT.
- REFER TO COMPLETE EQUIPMENT SCHEDULE.
- 17: BME-450 CONNECTED TO RDIC 10-4



1 PARTIAL MECHANICAL NEW WORK PLAN AREA C North



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

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PROJECT NO
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M114
PARTIAL MECHANICAL
NEW WORK PLAN AREA D

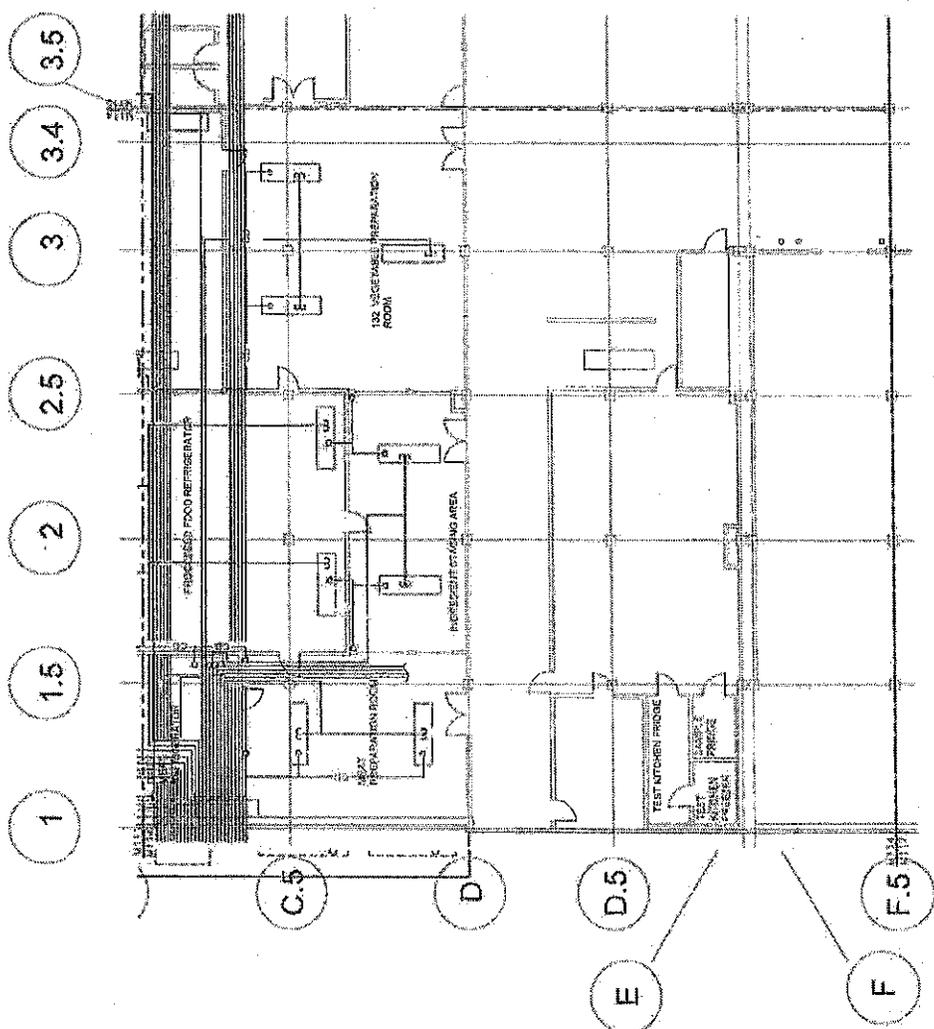
SHEET No: 17 of 30

NEW WORK - SHEET NOTES:

- EXISTING REFRIGERANT SUCTION & LIQUOR LINE SHALL BE REMOVED. ALL PIPING TO BE REMOVED SHALL BE CAPPED OR DESTROYED. EXISTING REFRIGERANT REMAINS.
- EXTEND EXISTING REFRIGERANT PIPING TO NEW EVAPORATOR COIL. ALL PIPING TO BE DONE WITHIN COOLER/FREEZERS BELOW CEILING.
- EXTEND EXISTING CONDENSATE DRAIN TO NEW EVAPORATOR COIL.
- VERIFY ELECTRICAL REQUIREMENT AND EXTEND SERVICE TO NEW EVAPORATOR COIL.

NEW WORK - KEYED NOTES:

- NEW EVAPORATOR COIL, SUPPLY NEW CONDENSATE DRAIN IN THE SAME LOCATION AS EXISTING.
SEE M121 FOR COMPLETE EQUIPMENT
- 22: AOT-090 CONNECTED TO RDMC 10-4
 - 23: AOT-156 CONNECTED TO RDMC 10-4
 - 24: AOT-156 CONNECTED TO RDMC 10-4
 - 25: AOT-156 CONNECTED TO RDMC 10-4
 - 26: LOD-185 CONNECTED TO RDMC 10-4
 - 27: LOD-125 CONNECTED TO RDMC 10-4
 - 174: LET-085 CONNECTED TO RDMC 3-4
 - 175: AOT-085 CONNECTED TO RDMC 10-4
 - 177: LOD-125 CONNECTED TO RDMC 10-4



1 PARTIAL MECHANICAL NEW WORK PLAN AREA D North



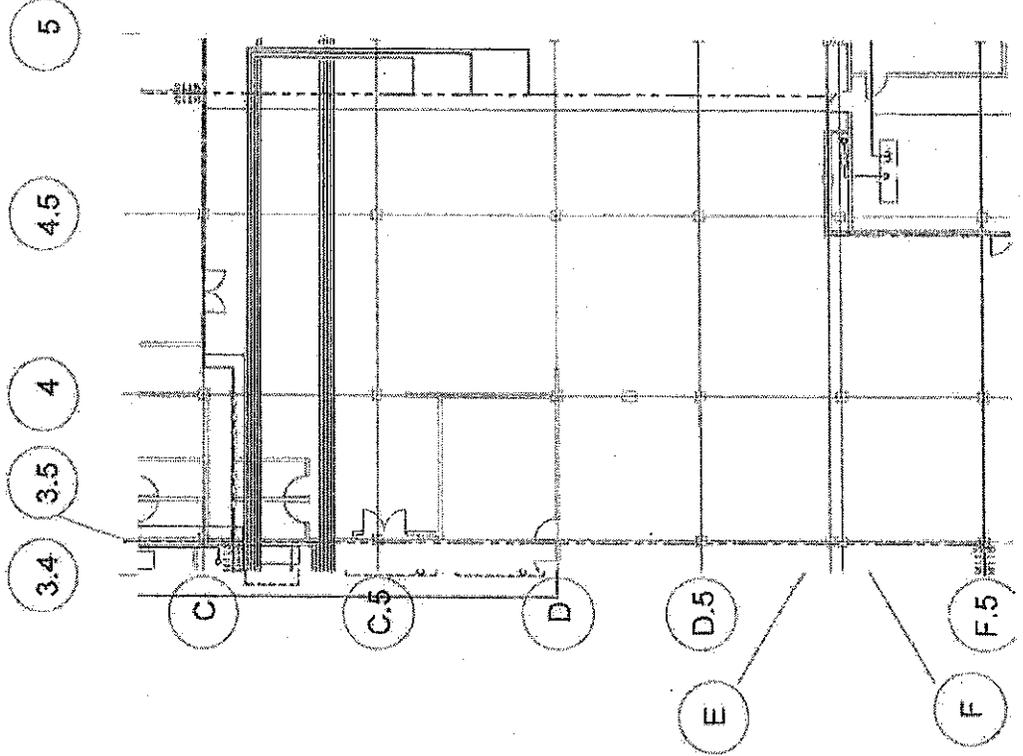
COOK COUNTY DOC
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M.T.T.S.
PARTIAL MECHANICAL
NEW WORK PLAN AREA E

SHEET No: 1B of 30

NEW WORK - KEYED NOTES:
 NEW EMPIRATOR COIL SUSPEND
 NEW COIL BY APPROXIMATELY IN THE
 SAME LOCATION AS EXISTING.
 SEE M121 FOR COMPLETE EQUIPMENT
 SCHEDULE
 239: BHM-24S CONNECTED TO RMC 2-4



1 PARTIAL MECHANICAL NEW WORK PLAN AREA E North



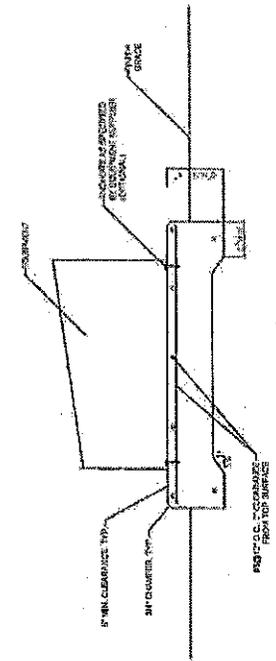
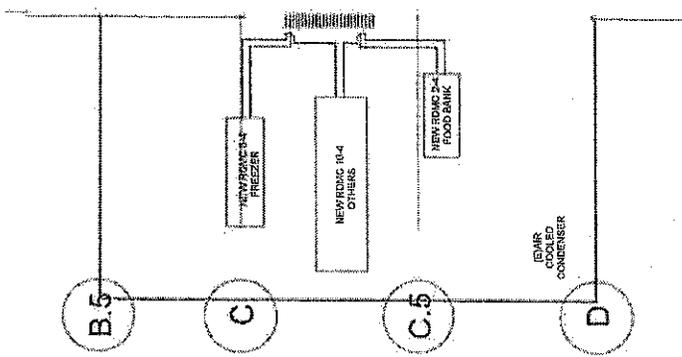
NEW WORK - SHEET NOTES:

1. PROVIDE NEW CONCRETE PAD. SEE DETAIL THIS SHEET.
2. NEW REFRIGERANT SUCTION AND R/L LINE CONNECT TO EXISTING.
3. RECOVER EXISTING REFRIGERANT, FLUSH & CLEAN REFRIGERANT LINE FROM EXISTING NEW WORK CONDENSING UNIT TO EXISTING CONDENSING UNIT. REMOVE EXISTING CONDENSING UNIT TO EXISTING CONDENSING UNIT.
4. NEW REFRIGERATION HEADER SEE SCHEDULE FOR PIPE SIZE.
5. PROVIDE BALL VALVE AT EACH BRANCH REFRIGERANT LINE.

NEW WORK - KEYED NOTES:

1. CONNECT TO EXISTING REFRIGERATION SYSTEM TAKE OFF.
2. EXTEND EXISTING R/S AND R/L TO NEW CONDENSING UNIT. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER. TRACE, TEST AND VERIFY SIZE OF EXISTING PIPING. REMOVE EXISTING PIPING AND INSURE ALL LINES FROM BUILDING EXTERIOR WALL BACK TO EACH SWAPRATOR COIL TAG LINES AT BRANCH LOCATION WITH REFRIGERATION EQUIPMENT MANUFACTURER AND CONNECT TO EXISTING REFRIGERATION SYSTEM AND BUILD BRANCH LINES TO NEW EQUIPMENT REFRIGERATION HEADERS, UNLESS OTHERWISE NOTED.
3. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE.
4. REMOVE 100A FEED. PROVIDE 3/8" O.D. 1/4" O.D. 303/304 STAINLESS STEEL PIPE. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE. FIELD VERIFY THAT EXISTING 100A FEED IS SUITABLE FOR CONTINUED USE. IF REQUIRED, REPLACE WITH 3/4" 1/2" O.D. 303/304 STAINLESS STEEL PIPE.
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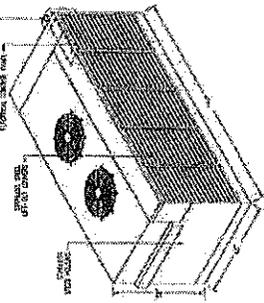


1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
2. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE SLEEVES SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. THE SLEEVES SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. THE SLEEVES SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED.
3. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED.
4. ANCHOR BOLT SLEEVES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
5. AT CONCRECTOR'S OPTION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR SUPPORTING SLAB.
6. ANCHOR BOLTS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB.
7. ANCHOR BOLTS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB.
8. ANCHOR BOLTS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB.
9. ANCHOR BOLTS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB.
10. ANCHOR BOLTS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB.



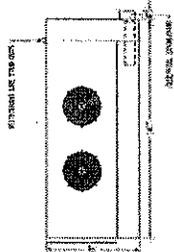
1 PARTIAL MECHANICAL NEW WORK PLAN

COOK COUNTY DOC CENTRAL KITCHEN CHILLERS	
APPROVED BY	
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DATE	04/11/13
PROJECT NO.	13-000000
FILE NAME	
NO. OF SHEETS	30
SHEET NO.	23 OF 30
MARK DATE	04/11/13
DESCRIPTION	M120
PARTIAL MECHANICAL NEW WORK PLAN - HVAC PAD	

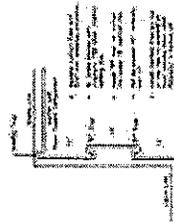


- 1. CONDENSER COILS ARE COATED WITH AN ANTI-CORROSION COATING.
- 2. CONDENSER COILS ARE MADE OF COPPER.
- 3. CONDENSER COILS ARE MADE OF COPPER.
- 4. CONDENSER COILS ARE MADE OF COPPER.
- 5. CONDENSER COILS ARE MADE OF COPPER.

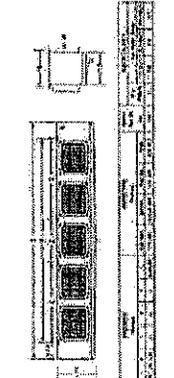
FRONT VIEW



REFRIGERANT COMPRESSOR



CONDENSER COILS



REFRIGERANT COMPRESSOR

ENGINEERING SUMMARY

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CHILLER UNIT	1	EA	
2	CONDENSER COILS	1	EA	
3	REFRIGERANT COMPRESSOR	1	EA	
4	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
5	CONDENSER COILS	1	EA	
6	REFRIGERANT COMPRESSOR	1	EA	
7	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
8	CONDENSER COILS	1	EA	
9	REFRIGERANT COMPRESSOR	1	EA	
10	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
11	CONDENSER COILS	1	EA	
12	REFRIGERANT COMPRESSOR	1	EA	
13	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
14	CONDENSER COILS	1	EA	
15	REFRIGERANT COMPRESSOR	1	EA	
16	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
17	CONDENSER COILS	1	EA	
18	REFRIGERANT COMPRESSOR	1	EA	
19	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
20	CONDENSER COILS	1	EA	
21	REFRIGERANT COMPRESSOR	1	EA	
22	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
23	CONDENSER COILS	1	EA	
24	REFRIGERANT COMPRESSOR	1	EA	
25	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
26	CONDENSER COILS	1	EA	
27	REFRIGERANT COMPRESSOR	1	EA	
28	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
29	CONDENSER COILS	1	EA	
30	REFRIGERANT COMPRESSOR	1	EA	
31	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
32	CONDENSER COILS	1	EA	
33	REFRIGERANT COMPRESSOR	1	EA	
34	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
35	CONDENSER COILS	1	EA	
36	REFRIGERANT COMPRESSOR	1	EA	
37	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
38	CONDENSER COILS	1	EA	
39	REFRIGERANT COMPRESSOR	1	EA	
40	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
41	CONDENSER COILS	1	EA	
42	REFRIGERANT COMPRESSOR	1	EA	
43	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
44	CONDENSER COILS	1	EA	
45	REFRIGERANT COMPRESSOR	1	EA	
46	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
47	CONDENSER COILS	1	EA	
48	REFRIGERANT COMPRESSOR	1	EA	
49	FANS	2	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
50	CONDENSER COILS	1	EA	
51	REFRIGERANT COMPRESSOR	1	EA	
52	FANS	2	EA	



COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CONDENSER COILS	1	EA	
2	REFRIGERANT COMPRESSOR	1	EA	
3	FANS	2	EA	

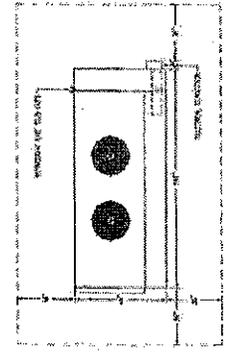
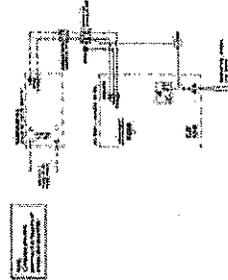
M122
REFERENCE DRAWING #1

SHEET No: 25 of 30

Cook County
Detention Center
Chicago, IL

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CONDENSER COILS	1	EA	
2	REFRIGERANT COMPRESSOR	1	EA	
3	FANS	2	EA	

GENERAL NOTES:
1. CHILLER UNIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
2. CONDENSER COILS SHALL BE MADE OF COPPER.
3. REFRIGERANT COMPRESSOR SHALL BE MADE OF COPPER.
4. FANS SHALL BE MADE OF COPPER.
5. CHILLER UNIT SHALL BE MADE OF COPPER.
6. CHILLER UNIT SHALL BE MADE OF COPPER.
7. CHILLER UNIT SHALL BE MADE OF COPPER.
8. CHILLER UNIT SHALL BE MADE OF COPPER.
9. CHILLER UNIT SHALL BE MADE OF COPPER.
10. CHILLER UNIT SHALL BE MADE OF COPPER.



Pitt
Pittsburgh, PA

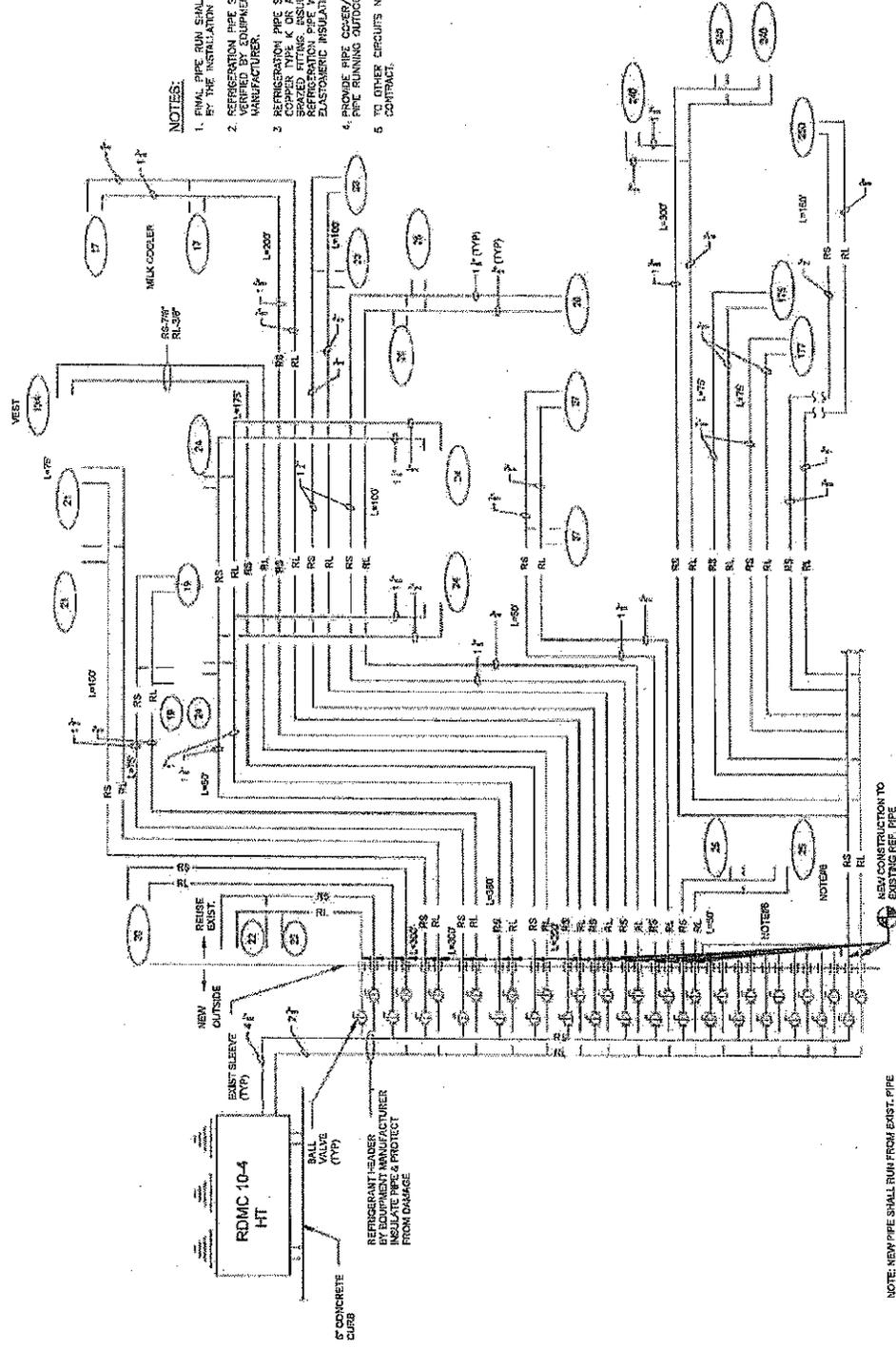


COOK COUNTY DOC
CENTRAL KITCHEN
CHILLERS

DESIGNED BY	
CHECKED BY	
DESIGNED BY	
DATE	EM
PROJECT NO	
FILE NAME	
ISSUED FOR BID - REVIEW	
MARK DATE	
DESCRIPTION	

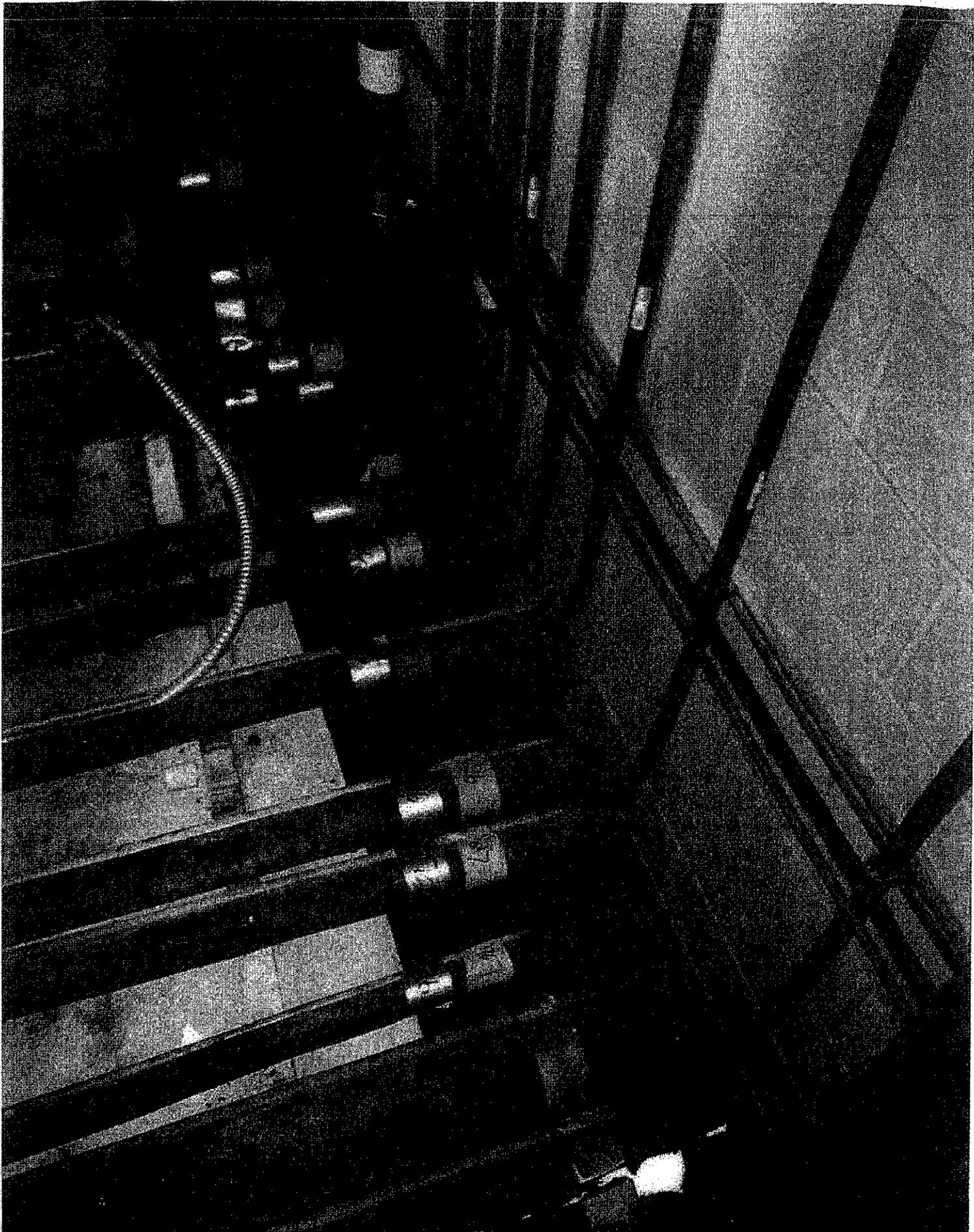
M127
HIGH TEMPERATURE RACK
REFRIGERATION PIPING
SHEET No: 30 of 30

- NOTES:**
1. FINAL PIPE RUN SHALL BE VERIFIED BY THE INSTALLATION CONTRACTOR.
 2. REFRIGERATION PIPE SIZE SHALL BE VERIFIED BY EQUIPMENT MANUFACTURER.
 3. REFRIGERATION PIPE SHALL BE COPPER TYPE K OR ACK WITH SOLDERED JOINTS. ALL PIPING SHALL BE ELASTOMERIC INSULATION.
 4. PROVIDE PIPE COVERS/JACKET OVER PIPE RUNNING OUTDOORS.
 5. TO OTHER CIRCUITS NOT IN THE CONTRACT.

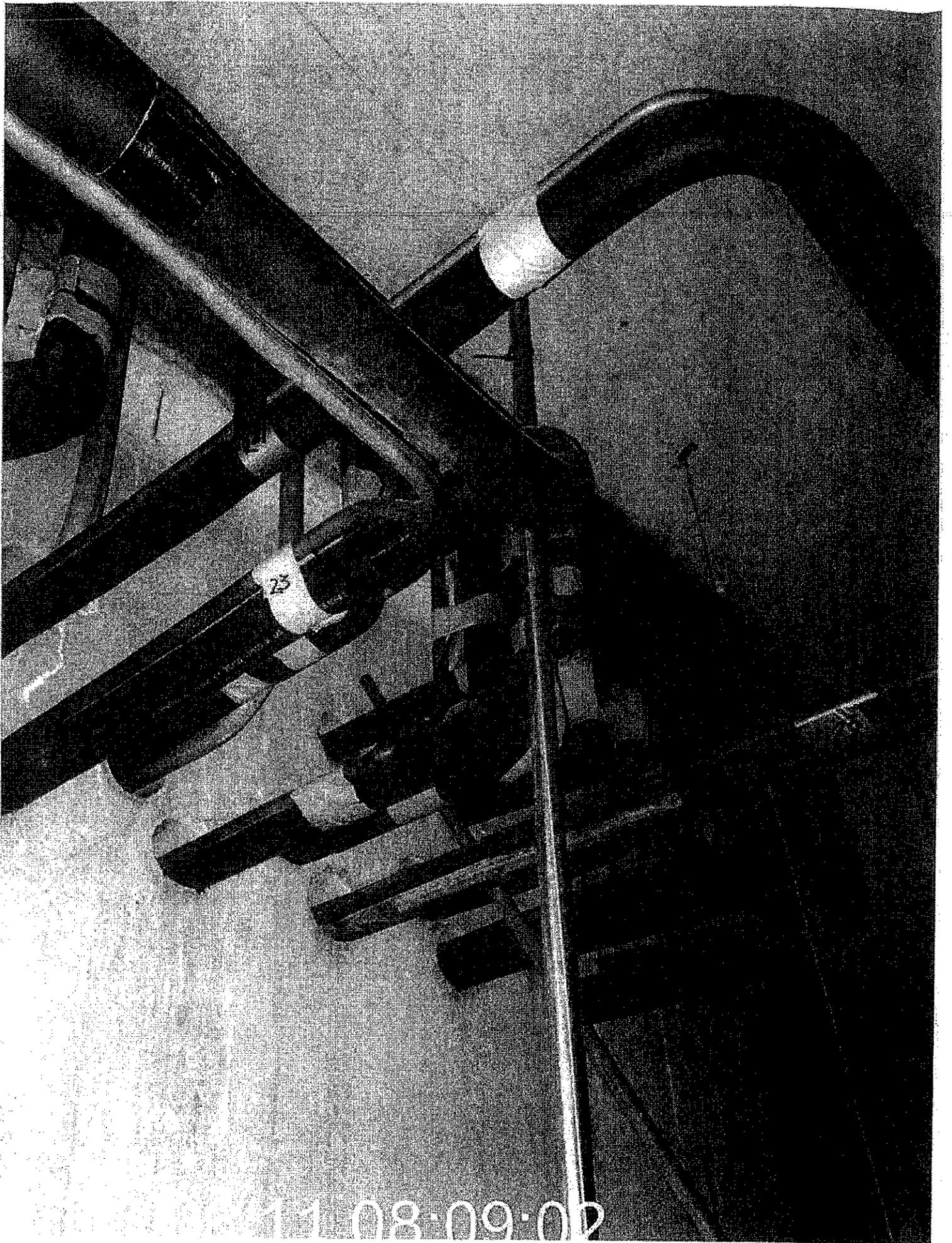


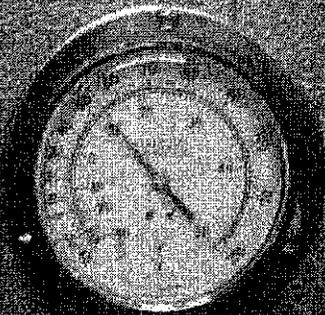
1 HIGH TEMPERATURE RACK REFRIGERATION PIPING

NOTE: NEW PIPE SHALL RUN FROM EAST PIPE SLEEVE.



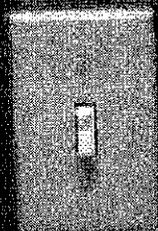
2015/06/11 08:21:10





133

DAILY VEG.
REFRIGERATOR



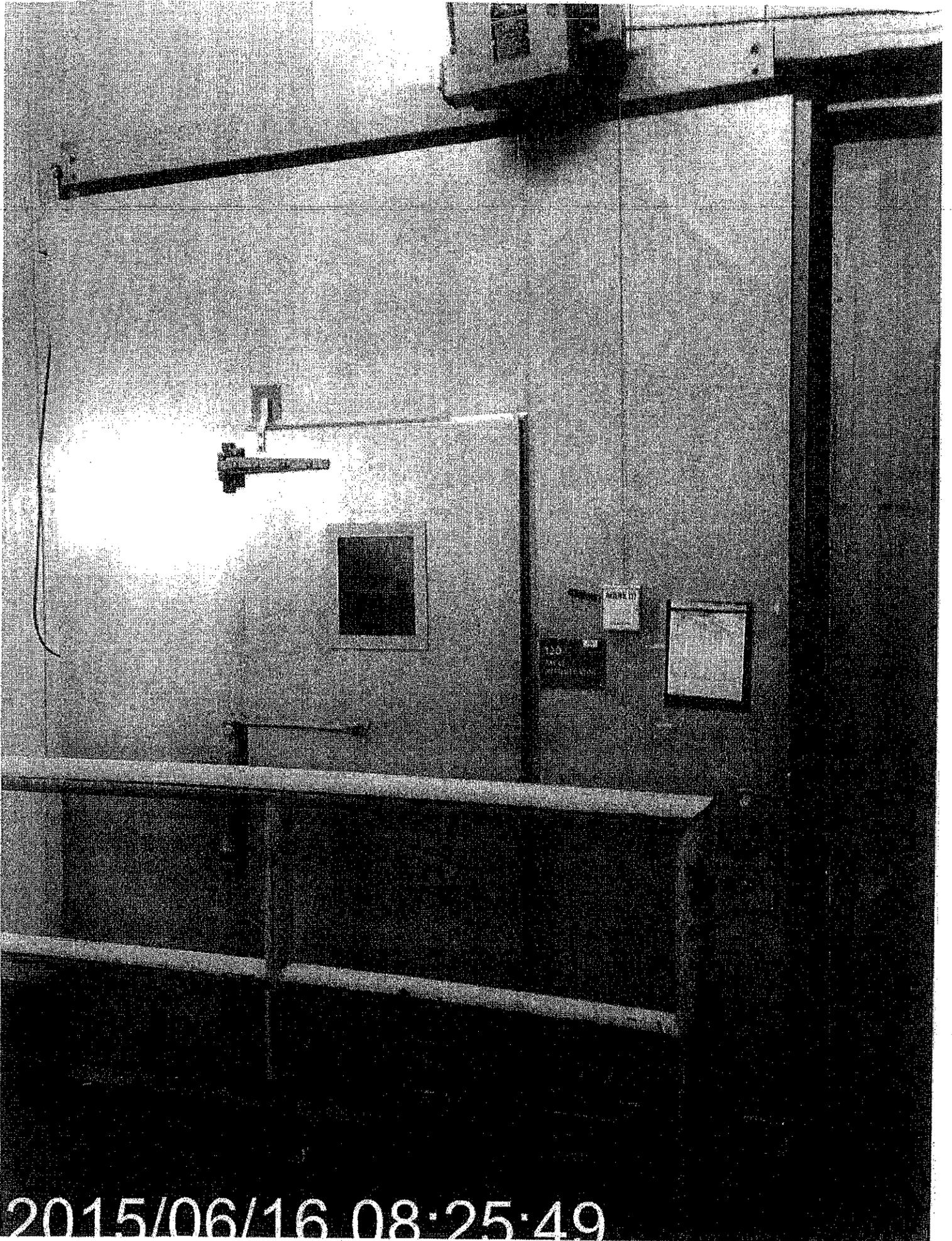
2015/06/11 08:33:47



2015/06/16 08:30:25



2015/06/16 08:30:18



2015/06/16 08:25:49

Work Order Number: 031000.00

Contractor: Cook County - F.H. Paschen

Work Order Title: DOC Central Kitchen Condensing Units

Date: December 08, 2015

Subcontractor and M/WBE Estimate

Following is the proposed list of minority owned, woman owned and non-minority subcontractors and material suppliers proposed for the above Work Order. This estimate is submitted with our final Work Order Proposal in the amount of \$1,605,484.28.

Contractor	Duties	Trade	M/W/SBE Status	Total \$	M/W/SBE \$	% of Project
Autumn Construction	Mechanical Contractor	S	W	\$283,490.00	\$283,490.00	17.66%
CSI 3000	Concrete Contractor	S	M	\$26,900.00	\$26,900.00	1.68%
Galaxy Environmental	Demolition Contractor	S	M	\$26,000.00	\$26,000.00	1.62%
Omelas Construction Company	Mechanical Contractor	S	M	\$359,010.00	\$359,010.00	22.36%
				\$695,400.00	\$695,400.00	43.31%

Trades - S: Subcontractor; M: Material Supplier

M/WBE's - M: Minority; W: Women; N: Non M/WBE

Total MBE Subcontractor Participation Scheduled	\$411,910.00	25.66%	}	\$411,910.00	MBE Total
Total MBE Supplier Participation Scheduled	\$0.00	0.00%		25.66%	
Total WBE Subcontractor Participation Scheduled	\$283,490.00	17.66%	}	\$283,490.00	WBE Total
Total WBE Supplier Participation Scheduled	\$0.00	0.00%		17.66%	
Total M/WBE Participation Scheduled	\$695,400.00	43.31%			


 (Contractor) Project Manager



Cook County
Office of Planning & Policy
69 W Washington
Chicago, IL 60602

Date: December 08, 2015

Sub-Order Total: \$1,605,484.28

Disclosure of Retained Parties

A. Definitions and Disclosure Requirements

- As used herein, the term "Contractor" means a person or entity who has any contract lease with the County of Cook.
- Pursant to Executive Order 07-1, every city contract and lease must be accompanied by a disclosure statement Providing certain information and attorneys, lobbyists, accountants, consultants, subcontractors, and other persons
- The Contractor is not required to disclose employees who are paid solely through the Contractor's regular payroll.
- "Lobbyist" means any person (a) who for compensation or on behalf of any person other than himself undertakes to influence any legislative or administration action, or (b) any part or whose duties as an employee of another includes undertaking to influence any legislative or administrative action.

B. Certification

Contractor hereby certifies as follows:

- This Disclosure relates to the following transaction:
- Project name: 031000.00 DOC Central Kitchen Condensing Units
- Name of Contractor: Cook County - F.H. Paschen

EACH AND EVERY attorney, lobbyist, accountant, consultant, subcontractor, or other person retained or anticipated to be retained by the Contractor with respect to or in connection with the contract or lease is listed below (attach additional pages if necessary):

Name	BUSINESS ADDRESS	MBE WBE or Non	Relationship (attorney, lobbyist, subcontractor, etc.)	FEE (Indicate whether paid or estimated)
Ornelas Construction Company		MBE	Subcontractor	\$359,010.00 Est.
CSI 3000		MBE	Subcontractor	\$25,900.00 Est.
Galaxy Environmental		MBE	Subcontractor	\$25,000.00 Est.
Autumn Construction		WBE	Subcontractor	\$283,490.00 Est.

CHECK HERE IF NO SUCH PERSONS HAVE BEEN RETAINED OR ARE ANTICIPATED TO BE RETAINED.

- The Contractor Understands and agrees that the city may rely on the information provided herein and that providing any false incomplete or inaccurate information shall constitute default under the contract and may result in termination of the contract or lease
- The Contractor understands and agrees that in any case in which the Contractor is uncertain whether a disclosure is required under the Executive order, the Contractor must either ask the city whether disclosure is required or make the disclosure.

Under the Penalties of perjury, I certify that I am authorized to execute this Disclosure on behalf of the Contractor that the information disclosed herein is true and complete, and that no relevant information has been withheld.

Signature

12/18/15
Date

Anthony Dzzi
Name (Type or Print)

General Manager
Title

Subscribed and sworn to before me
this 8th day of Dec 20 15

Notary Public Signature



MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions – Section 19.

I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)

- Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
- Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit – available online at www.cookcountyil.gov/contractcompliance)
- Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent – Form 2).

II. Direct Participation of MBE/WBE Firms Indirect Participation of MBE/WBE Firms

NOTE: Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: Autumn Construction Services, Inc.
Address: 449 Eisenhower Lane South Lombard, IL 60148
E-mail: susan.nelson@autumnconstruction.com
Contact Person: Ms. Susan Nelson Phone: 630-588-9585
Dollar Amount Participation: \$ 283,490.00
Percent Amount of Participation: 17.66 %
*Letter of Intent attached? Yes X No _____
*Current Letter of Certification attached? Yes X No _____

MBE/WBE Firm: CSI 3000, Inc.
Address: 3466 S. Archer Avenue Chicago, IL 60608
E-mail: rivera@csi3000.com
Contact Person: Reymondo Rivera Phone: 312-470-6547
Dollar Amount Participation: \$ 26,900.00
Percent Amount of Participation: 01.68 %
*Letter of Intent attached? Yes X No _____
*Current Letter of Certification attached? Yes X No _____

Attach additional sheets as needed.

* Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.

MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions – Section 19.

I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)

- Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
- Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit – available online at www.cookcountvill.gov/contractcompliance)
- Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent – Form 2).

II. Direct Participation of MBE/WBE Firms Indirect Participation of MBE/WBE Firms

NOTE: Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: Galaxy Environmental, Inc.
Address: 3565 N. Milwaukee Ave Chicago, IL 60641
E-mail: mchagoya@geigc.com
Contact Person: Michael Chagoya Phone: 773-427-2980
Dollar Amount Participation: \$ 26,000.00
Percent Amount of Participation: 01.62 %
*Letter of Intent attached? Yes X No _____
*Current Letter of Certification attached? Yes X No _____

MBE/WBE Firm: Ornelas Construction Company
Address: 12520 W. Horseshoe Dr. New Lenox, IL 60451-2388
E-mail: jimmornelas@ornelasconstruction.com
Contact Person: Jaime Ornelas Phone: 815-462-7600
Dollar Amount Participation: \$ 359,010.00
Percent Amount of Participation: 22.36 %
*Letter of Intent attached? Yes X No _____
*Current Letter of Certification attached? Yes X No _____

Attach additional sheets as needed.

*** Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.**

COOK COUNTY GOVERNMENT LETTER OF INTENT (SECTION 2)

MWBE Firm: Autumn Construction Services, Inc.

Certifying Agency: City of Chicago

Address: 449 Eisenhower Lane South

Certification Expiration Date: 10/15/2017

City/State: Lombard, IL Zip: 60148

FEIN #: 36-4035882

Phone: 630-588-9585 Fax: 630-588-9586

Contact Person: Susan Nelson

Email: susan.nelson@autumnconstruction.com

Contract #: _____

Participation: Direct Indirect

Will the MWBE firm be subcontracting any of the performance of this contract to another firm?

No Yes - Please attach explanation. Proposed Subcontractor: _____

The undersigned MWBE is prepared to provide the following Commodities/Services for the above named Project/ Contract:

Mechanical Contracting

Indicate the Dollar Amount, or Percentage, and the Terms of Payment for the above-described Commodities/ Services:

\$283,490.00

(If more space is needed to fully describe MWBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Susan Nelson
Signature (MWBE)

Susan Nelson
Print Name

Autumn Construction Services, Inc.
Firm Name

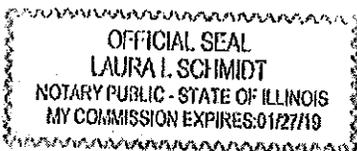
12-07-2015
Date

Subscribed and sworn before me

this 7th day of December, 2015.

Notary Public Laura I. Schmidt

SEAL



[Signature]
Signature (Prime Bidder/Proposer)

Anthony Perri
Print Name

Perri / Autumn JV
Firm Name

12/8/15
Date

Subscribed and sworn before me

this 8th day of December, 2015

Notary Public [Signature]

SEAL





DEPARTMENT OF PROCUREMENT SERVICES

CITY OF CHICAGO

JAN 7 2014

Susan Nelson
Autumn Construction Services, Inc.
1400 E. Touhy Avenue, Suite 477
Des Plaines, IL 60018

Dear Ms. Nelson:

We are pleased to inform you that Autumn Construction Services, Inc. has been recertified as a Women Business Enterprise ("WBE") by the City of Chicago ("City"). This WBE certification is valid until 10/15/2017; however your firm's certification must be revalidated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your annual No-Change Affidavit 60 days before your annual anniversary date.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification during the five year period stated above, you must file an annual No-Change Affidavit. Your firm's annual No-Change Affidavit is due by 10/15/2014, 10/15/2015, and 10/15/2016. Please remember, you have an affirmative duty to file your No-Change Affidavit 60 days prior to the date of expiration. Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

Your firm's five year certification will expire on 08/15/2017. You have an affirmative duty to file for recertification 60 days prior to the date of the five year anniversary date. Therefore, you must file for recertification by 10/15/2017.

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification within 10 days of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note - you shall be deemed to have had your certification lapse and will be ineligible to participate as a WBE if you fail to:

- File your annual No-Change Affidavit within the required time period;
- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification within 10 days of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining a contract with the City by falsely representing the individual or entity, or the individual or entity assisted is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months, or a fine of not less than \$5,000 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

NAICS Code(s):

236220 - Construction Management, Commercial and Institutional Building

238220 - Mechanical Contractors

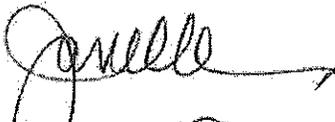
541330 - Engineering Design Services

541620 - Environmental Consulting Services

Your firm's participation on City contracts will be credited only toward Women Business Enterprise goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority and Women-Owned Business Enterprise (MBE/WBE) Program.

Sincerely,



Jamie L. Rhee
Chief Procurement Officer

JLR/si

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: CSI 3000 Inc

Certifying Agency: City of Chicago

Contact Person: Rey Rivera

Certification Expiration Date: 7/1/2016

Address: 3466 S Archer Ave

Ethnicity: Hispanic

City/State: Chicago, IL Zip: 60608

Bid/Proposal/Contract #: _____

Phone: (312) 470-6547 Fax: (312) 470-6569

FEIN #: 27-0178736

Email: rivera@csi3000.com

Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

No Yes - Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: (If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

Construction

Indicate the Dollar Amount, Percentage, and the Terms of Payment for the above-described Commodities/ Services:

\$26,900.00

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

[Signature]
Signature (M/WBE)

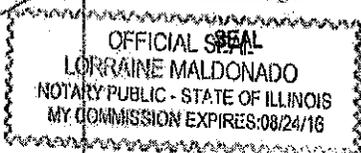
Rey Rivera
Print Name

CSI 3000 Inc
Firm Name

12/7/2015
Date

Subscribed and sworn before me
this 7th day of December, 2015

Notary Public [Signature]



[Signature]
Signature (Prime Bidder/Proposer)

Anthony Jizzi
Print Name

Pascher / Autumn JV
Firm Name

12/8/15
Date

Subscribed and sworn before me
this 8th day of Dec, 2015

Notary Public [Signature]





DEPARTMENT OF PROCUREMENT SERVICES

CITY OF CHICAGO

AUG 03 2015

Reymondo Rivera
CSI 3000, Inc.
3466 S. Archer Avenue
Chicago, IL 60608

RE: Revised Certification Letter – Expansion of Specialty Area(s)

Dear Reymondo Rivera:

We are pleased to inform you that **CSI 3000, Inc.** continues to be certified as a **Minority - Owned Business Enterprise ("MBE")** by the City of Chicago ("City"). This MBE certification is valid until **07/01/2016**; however your firm's certification must be revalidated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your **annual No-Change Affidavit 60 days** before your annual anniversary date.

Your firm's five year certification will expire on **07/01/2016**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five year anniversary date. Therefore, you must file for recertification by **05/01/2016**.

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification **within 10 days** of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note – you shall be deemed to have had your certification lapse and will be ineligible to participate as a **MBE** if you fail to:

- File your annual No-Change Affidavit within the required time period;
- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification **within 10 days** of such change; or
- File your recertification within the required time period

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or **866-IG-TIPLINE (866-448-4754)**.

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining a contract with the City by falsely representing the individual or entity, or the individual or entity assisted is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months, or a fine of not less than \$5,000 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

NAICS Code(s):

NAICS 236115	Construction management, single-family building
NAICS 236116	Construction management, multifamily building
NAICS 236118	Building, residential, addition, alteration and renovation
NAICS 237110	Water and Sewer Line and Related Structures Construction
NAICS 237310	Highway, Street and Bridge Construction
NAICS 238110	Poured Concrete Foundation and Structure Contractors
NAICS 238120	Concrete product (e.g., structural precast, structural prestressed) installation
NAICS 238130	Carpentry Contractors
NAICS 238190	Other Foundation, Structure and Building Exterior Contractors
NAICS 238320	Painting and wallpapering
NAICS 238330	Flooring Contractors
NAICS 238350	Finish carpentry
NAICS 238390	Other Building Finishing Contractors
NAICS 238910	Excavation contractors
NAICS 238990	Cleaning building interiors during and immediately after construction
NAICS 561730	Landscaping Services

Your firm's participation on City contracts will be credited only toward **Minority - Owned Business Enterprise** goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority - Owned Business Enterprise (MBE) Program.

Sincerely,



Jamie L. Rhee
Chief Procurement Officer

JLR/ab

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: Galaxy Environmental, Inc.

Certifying Agency: City of Chicago

Contact Person: Michael Chagoya

Certification Expiration Date: 07/01/2018

Address: 3565 N. Milwaukee Avenue

Ethnicity: Hispanic

City/State: Chicago, IL Zip: 60641

Bid/Proposal/Contract #: _____

Phone: 773.427.2980 Fax: 773.427.2982

FEIN #: 36-4233423

Email: mchagoya@geigc.com

Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

No Yes - Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: (if more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

Demolition

Indicate the Dollar Amount, Percentage, and the Terms of Payment for the above-described Commodities/ Services:

Net 30 \$26,000

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Michael Chagoya
Signature (M/WBE)

Michael Chagoya
Print Name

Galaxy Environmental, Inc.
Firm Name

December 8, 2015
Date

Subscribed and sworn before me

this 8th day of December, 2015

Rosalva Rios
OFFICIAL SEAL
ROSALVA RIOS
Notary Public, State of Illinois
My Commission Expires Nov. 03, 2018
Commission No. 810769

Anthony Dow
Signature (Prime Bidder/Proposer)

Anthony Dow
Print Name

Paschen / Autumn JV
Firm Name

12/8/15
Date

Subscribed and sworn before me

this 8th day of Dec, 2015

Anthony Dow
Notary Public

OFFICIAL SEAL
DAWN L. CAPONALE
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 05/07/19
1/29/14



DEPARTMENT OF PROCUREMENT SERVICES

CITY OF CHICAGO

JUL 16 2013

George Salinas
Galaxy Environmental
3565 N. Milwaukee Ave
Chicago, IL 60641

Dear Mr. Salinas:

We are pleased to inform you that Galaxy Environmental, Inc. has been re-certified as a **Minority Business Enterprise ("MBE")** by the City of Chicago ("City"). This (MBE) certification is valid until **July 1, 2018**; however your firm's certification must be re-validated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your **annual No-Change Affidavit 60 days** before your annual anniversary date.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification during the five-year period stated above, you must file an annual No-Change Affidavit. Your firm's **annual No-Change Affidavit** is due by **07/01/2014, 07/01/2015, 07/01/2016, 07/01/2017**. Please remember, you have an affirmative duty to file your **No-Change Affidavit 60 days** prior to the date of expiration. Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

Your firm's five year certification will expire on **07/01/2018**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five year anniversary date. Therefore, you must file for recertification by **05/01/2018**.

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification **within 10 days** of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note – you shall be deemed to have had your certification lapse and will be ineligible to participate as a **MBE** if you fail to:

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D.W.

- File your annual No-Change Affidavit within the required time period;
- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification within 10 days of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining, a contract with the City by falsely representing the individual or entity, or the individual or entity assisted, is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months or a fine of not less than \$5,000 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

- NAICS Code – 562910 – Remediation Services
- NAICS Code – 238910 – Site Preparation Contractors
- NAICS Code – 238990 – All Other Specialty Trade Contractors
- NAICS Code – 562111 – Solid Waste Collection
- NAICS Code – 561730 – Landscaping Services

Your firm's participation on City contracts will be credited only toward Minority Business Enterprise goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority and Women-Owned Business Enterprise (MBE/WBE) Program.

Sincerely,



Jamie L. Rhee
Chief Procurement Officer

JLR/jea

COOK COUNTY GOVERNMENT LETTER OF INTENT (SECTION 2)

M/WBE Firm: Ornelas Construction Co.

Certifying Agency: City of Chicago

Address: 12520 W. Horseshoe Drive

Certification Expiration Date: 10/01/2018

City/State: New Lenox, IL Zip: 60451

FEIN #: 36-3614792

Phone: (815) 462-7600 Fax: (815) 462-7601

Contact Person: James Ornelas

Email: jcurran@ornelasconstruction.com

Contract #: _____

Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the performance of this contract to another firm?

No Yes -- Please attach explanation. Proposed Subcontractor: _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract:

Mechanical Refrigeration Work

Indicate the Dollar Amount, or Percentage, and the Terms of Payment for the above-described Commodities/ Services:

Three hundred fifty-nine thousand ten dollars and no cents (\$359,010.00)

(If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

Signature (M/WBE) _____

Signature (Prime Bidder/Proposer) _____

James Ornelas

Anthony Ezzi

Print Name

Print Name

Ornelas Construction Company

Paschen / Autman JV

Firm Name

Firm Name

12/07/2015

12/8/15

Date

Date

Subscribed and sworn before me

Subscribed and sworn before me

this 7th day of December 20 15

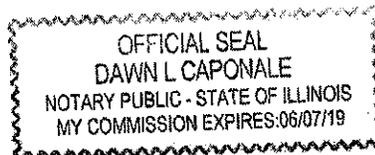
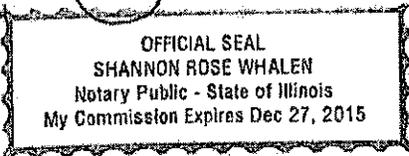
this 8th day of Dec 20 15

Notary Public _____

Notary Public _____

SEAL

SEAL





DEPARTMENT OF PROCUREMENT SERVICES
CITY OF CHICAGO

JUL 11 2013

Jaime Ornelas
Ornelas Construction Company
12520 W. Horseshoe Drive
New Lenox, IL 60451

Dear Mr. Ornelas:

We are pleased to inform you that Ornelas Construction Company has been re-certified as a **Minority Business Enterprise ("MBE")** by the City of Chicago ("City"). This MBE certification is valid until **10/01/2018**; however your firm's certification must be re-validated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your annual **No-Change Affidavit 60 days** before your annual anniversary date.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification during the five-year period stated above, you must file an annual No-Change Affidavit. Your firm's annual **No-Change Affidavit** is due by **10/01/2014, 10/01/2015, 10/01/2016, and 10/01/2017**. Please remember, you have an affirmative duty to file your ~~No-Change Affidavit 60 days prior to the date of expiration.~~ Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

Your firm's five year certification will expire on **10/01/2018**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five year anniversary date. Therefore, you must file for recertification by **08/01/2018**.

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification **within 10 days** of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note - you shall be deemed to have had your certification lapse and will be ineligible to participate as a MBE if you fail to:

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D.W.

- File your annual No-Change Affidavit within the required time period;
- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification **within 10 days** of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining a contract with the City by falsely representing the individual or entity, or the individual or entity assisted is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months, or a fine of not less than \$5,000 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

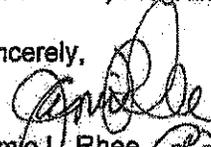
NAICS Code(s):

- 236210 – Industrial Building Construction
- 236220 – Commercial and Institutional Building Construction
- 237110 – Water and Sewer Line and Related Structures Construction
- 237120 – Oil and Gas Pipeline and Related Structures Construction
- 238110 – Poured Concrete Foundation and Structure Contractors
- 238130 – Framing Contractors
- 238160 – Roofing Contractors
- ~~238190 – Other Foundation, Structure, and Building Exterior Contractors~~
- 238220 – Plumbing, Heating, and Air-Conditioning Contractors
- 238310 – Drywall and Insulation Contractors
- 238330 – Flooring Contractors
- 238350 – Finish Carpentry Contractors
- 238390 – Other Building Finishing Contractors
- 238910 – Site Preparation Contractors
- 238990 – All Other Specialty Trade Contractors

Your firm's participation on City contracts will be credited only toward **Minority Business Enterprise** goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority and Women-Owned Business Enterprise (MBE/WBE) Program.

Sincerely,


Jamie L. Rhee
Chief Procurement Officer

JLR/dw

**Job Order Contract
Non Pre-Priced Worksheet**

Date: December 07, 2015
 Contract Number: 12-28-340-MC.10
 Job Order Number: 031000.00
 Job Order Title: DOC-Central-Kitchen-Condensing-Units
 Contractor: Paschen Autumn Joint Venture

CSI Number	UOM	DESCRIPTION	Unit Price:	
23 01 10 00 0003	HR	Walk-In Cooler Mechanical Equipment		
Factor:	1.0500		Unit Price:	\$674,625.00
Quantity:	1.00		Line Item Total:	\$674,625.00
Proposal Total:	\$1,605,484.28		% of Job Order Total:	42.02%

NON PRE-PRICED WORKSHEET

- A. _____ Direct Labor Costs (Up through the foreman level and including fringe benefits)
- B. _____ Direct Material Costs (Supported by Quotes)
- C. _____ Direct Equipment Costs (Supported by equipment amortization date)
- D. 642,500.00 Subcontractor Costs (Supported by Quotes)
- E. _____ Allowable Over Head Costs = A x 55%
- F. _____ Allowable Profit = (A + B + C) x 10%
- G. _____ Subcontractor Allowance = D x 10%

Total Cost of Non Pre-Priced Task = A + B + C + D + E + F + G

* A, B, C, E and F only apply to work self-performed by the Contractor.

* D and G only apply to work self-performed by the Subcontractor.

Quotes

(Attach quotes from listed suppliers/subcontractors. A Justification Letter must be attached if 3 quotes are not furnished.)

<u>1. AUTUMN CONSTRUCTION</u>	<u>\$ 283,490.00</u>	} <u>642,500.00</u>
<u>2. ORNELAS CONSTRUCTION</u>	<u>\$ 359,010.00</u>	
<u>3. ATOMATIC MECHANICAL</u>	<u>\$ 673,880.00</u>	
<u>4. ZONE COMFORT SYSTEMS</u>	<u>\$ 701,000.00</u>	

AUTUMN
CONSTRUCTION SERVICES, INC.

October 27, 2014

Mr. Frank Nelson

fnelson@fhpaschen.com

Project Manager

F.H. Paschen S.N. Nielsen

5515 N. East River Road, Chicago, IL 60656

**RE: Central Kitchen Chillers
Division 5 - Cook County Department of Corrections**

Dear Frank:

BREAKOUT PRICING: Furnish and install new refrigeration equipment as manufactured by Refrigeration Design Technologies, Inc, (RDT) as detailed on bid documents and make final connections for this equipment.....\$283,490.00

Our proposal includes the following:

- In coolers/freezers: remove and replace (41) evaporator coils. The nine (9) existing evaporator coils and piping, located in basement areas will remain in place but disconnected from refrigeration system. Piping to be cut and capped as necessary, These evaporator coils will not be replaced;

Our proposal excludes the following:

- Temporary chiller for project phasing (See Option #1 and note below);
- Cutting, penetrations and patching of existing coolers and freezers walls and ceilings. All piping work by Autumn will be within the cooler/freezers below the ceiling;
- Concrete removal and replacement;
- Refrigerant piping, drain piping and associated insulation;
- Site work such as fence removal and replacement, etc. as required to access the refrigeration equipment yard;
- Code compliance of existing systems:
- Premium Time
- Building Permit
- Payment and/or performance bond

OPTION #1: If necessary for freezer work, we will provide a temporary portable chiller (20 Tons) for a duration of 10 days, to keep freezers cold while removing and replacing new refrigeration equipment and systems. Temporary chiller will be staged outside near chiller yard ADD \$32,000

1400 E. Touhy Avenue, Suite 477, Des Plaines, Illinois 60018

Tel: 630.588.9585 | Fax: 630.588.9586 | www.autumnconstruction.com



AUTUMN

CONSTRUCTION SERVICES, INC.

Central Kitchen Chillers
Cook County DOC

Page 2 of 2
10/27/2014

Note: For cooler work: no temporary cooling is included as per our conversations with DOC staff regarding their ability to move food product as necessary to allow individual coolers to be out of service on a temporary basis;

Please contact me or Mike Terry if you have any questions or require additional information. Thank you for the opportunity to present this proposal. We are looking forward to working on your team for this project.

Regards,
AUTUMN CONSTRUCTION SERVICES, INC.

Susan Nelson

Susan Nelson
President

cc: Mike Terry





October 27, 2014

Mr. Frank Nelson
Project Manager
F.H. Paschen, S.N. Nielsen
5515 N. East River Road
Chicago, IL 60656

fnelson@fhpaschen.com

RE: **Central Kitchen Chillers**
Division 5 - Cook County Department of Corrections

Dear Mr. Nelson:

We are pleased to present our proposal in the amount of: Three hundred fifty-nine thousand ten dollars and no cents (\$359,010.00) to provide the mechanical refrigeration work for the above-referenced project in accordance with the Dusable drawings, dated 10/24/14 as prepared by Dusable and as detailed below.

Our proposal includes the following:

- Furnish and assist with installation of kitchen refrigeration equipment based on equipment as manufactured by Refrigeration Design Technologies, Inc. (RDT).
- Equipment shall be as follows:
 - Rack A includes: (1) RDMC2-4 Digital Parallel Outdoor Air Cooled Refrigeration System, (1) BNHDO4A021 Outdoor Air Cooled Multi Circuited Condenser.
 - Rack B includes: (1) RDMC4-4 ECO-COOL Digital Parallel Outdoor Air Cooled Refrigeration System, (1) BNHDO4A029 Outdoor Air Cooled Multi Circuited Condenser.
 - Rack C includes: (1) RDMC10-4 Digital Parallel Outdoor Air Cooled Refrigeration System, (1) BNHDO8A068 Outdoor Air Cooled Multi Circuited Condenser.
- All equipment includes factory provided 5 year compressor parts warranty.

Our proposal excludes the following:

- Cranes or hoisting of equipment
- Concrete removal and replacement
- Site work such as fence removal and replacement, etc. as required to access the refrigeration equipment yard
- Demolition or removal of existing equipment
- Premium time
- Electrical work
- Sales and other taxes
- Building permit and/or permit fees
- Payment and/or performance bond
- Retention

I hope the above meets your approval. If you should have any questions, please feel free to contact me.

Sincerely
ORNELAS CONSTRUCTION COMPANY

Roger Curran
Vice President

January 9, 2015

F.H. Paschen, S.N. Nielsen
5515 N East River Road
Chicago, IL 60656

Project: Cook County DOC Air Cooled CU and Evaporator Replacement

Attn: Frank Nelson

Plans & Spec's Dated: 6/18/14
Addendum's NA

Dear Frank,

We are pleased to provide a proposal to furnish and install the fan-coils and condensing units for the Cook County DOC Central Kitchen Chillers. This scope of work only includes the installation for the refrigeration equipment. Start-up, removal of existing equipment, insulation, refrigerant removal or installation of refrigerant, refrigerant piping, condensate drain piping is not included. For a complete understanding of this proposal please review the exclusions and clarifications listed below.

The following items and services are included in our scope of work:

- Furnish and install (3) condensing units
- Furnish and install the following evaporator sections (piping work not included)
 - Bulk Freezer (1), Food Bank Freezer (2), Test Kitchen Freezer (2)
 - Food Bank Cooler (7)
 - Mile Cooler (2), Vestibule (1), Meat Storage (2), Safety Thaw (2), Vegetable Storage (2), Daily Meat (2), Daily Vegetable (1), Process Food (4), Meat Prep (2), Vegetable Prep (3), Ingredient Staging (2), Test Kitchen (1), Cart Holding (3), Garbage Room (1), Sample Fridge (1)
- Crane and trucking for condensing unit installation

Total Price Base Bid

\$ 673,880

The following items and services are Not included in any of the below pricing:

- Furnishing or installing kitchen equipment.
- Piping disconnections or reconnections
- Capturing refrigerant
- Furnishing new refrigerant
- Electrical Power/Control wiring and conduit
- Gas piping
- Architectural Access Panels
- Plumbing of any kind
- Fire Alarm
- Fire Protection
- Painting
- Seismic Bracing and Support
- Sales Tax
- Overtime
- Design Drawings
- Support pads for new condensing units



- Control wiring and conduit is provided by the electrical subcontractor and therefore not included in this proposal.

Clarifications

- Refrigerant piping, start-up, condensate drain piping is not included in this proposal
- This proposal assumes normal work hours between 6am and 2pm.
- Proposal is good for 60 days and contingent upon receiving a mutually agreeable schedule and contract
- Current pipe installation is not entirely exposed so the refrigerant piping is assumed to be properly installed with trapping as required. Should existing pipe not meet the requirements of the new equipment walls, ceilings, cooler walls and cooler ceilings may need to be removed and replaced for the access. This work is not included in this proposal.
- Refrigerant dump valves and piping are assumed to be existing and not included in this proposal.

If you have any questions please don't hesitate to contact me. I can be reached at 847-652-0114

Sincerely,

Automatic Mechanical Services

Glen Swider

Glen Swider
Sales Engineer



12539 S Holliday Drive, Alsip, IL 60803
(p) 708.305.4735 (f) 708.388.3501

January 9th, 2015

Frank Nelson
FH Paschen
5515 N. East River Rd
Chicago, IL 60650

Re: Cook County Detention Center - REVISED

Dear Frank:

We offer to provide and install a replacement refrigeration system for the various walk-in coolers and freezers at the Cook County Jail Central Kitchen. Our pricing is based upon the drawings presented and prepared by DuSable and dated 6-18-14. This will include:

- Reclaim refrigerant from all systems and dispose of per EPA regulations
- Disconnect, remove and haul away all outdoor condensing units
- Set 3 RDT rack style package condensing units outside in the fenced area
- Replace each of 41 evaporator coils per locations on the drawings
- Pressurize each system and leak check
- Pull vacuum on each system
- Add individual controls for each walk in
- Charge each system with R-404A
- Perform start up
- One year warranty on parts and labor with a 5 year compressor warranty

Cost for condensing units and evaporators, with installation.....\$701,000.00

***This price includes \$408,000.00 in minority participation**

Excludes: refrigerant piping, electrical, concrete work, permits, design guarantees, overtime labor, temporary refrigeration storage units (can be provided at additional cost).

The goal is to work with the facility to minimize downtime while the various systems will be installed. Zone will work with you to "value engineer" the current design to get the best possible price, provide the best design for the facility's requirements and also to minimize downtime during the installation of the systems.

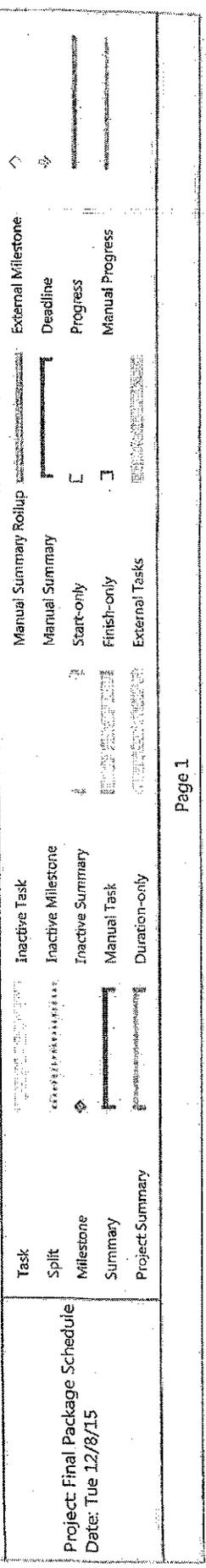
We welcome the opportunity to meet with you to further discuss some of these ideas.

References of similar projects are available upon request.

Sincerely,

Mark Torphy
Zone Mechanical
Zone Comfort Systems

ID	Task Name	Predecessor	Duration
1	Construction Start		0 days
2	Demolish Existing Abandoned Equipment	1	3 days
3	RDMC 2-4 Frame/Pour New Concrete Equipment Pad	2	2 days
4	RDMC 2-4 Concrete Cure Time	3	3 days
5	RDMC 2-4 Set Exterior Condensing Equipment	4	1 day
6	RDMC 2-4 Demolish Exterior Refrigerant Piping	5	2 days
7	RDMC 2-4 Demolish Exterior Power	6	1 day
8	RDMC 2-4 Demolish Interior Refrigerant Piping	6	1 day
9	RDMC 2-4 Demolish Interior Refrigerant Evaporator Coils	8	1 day
10	RDMC 2-4 Demolish Interior Power	7	3 days
11	RDMC 2-4 Test Existing Refrigerant Piping	8,6,9	2 days
12	RDMC 2-4 Install Interior Evaporator Coils	11	10 days
13	RDMC 2-4 Install Exterior/Interior Refrigerant Piping	12	2 days
14	RDMC 2-4 Install Exterior/Interior Power	13	1 day
15	RDMC 2-4 Charge Refrigerant Piping	14	1 day
16	Demolish Existing Equipment in Use (Phase 1)	15	3 days
17	RDMC 10-4 Frame/Pour New Concrete Equipment Pad	16	2 days
18	RDMC 10-4 Concrete Cure Time	17	3 days
19	RDMC 10-4 Set Exterior Condensing Equipment	18	1 day
20	RDMC 10-4 Demolish Exterior Refrigerant Piping	19	4 days
21	RDMC 10-4 Demolish Exterior Power	20	1 day
22	RDMC 10-4 Demolish Interior Refrigerant Piping	20	2 days
23	RDMC 10-4 Demolish Interior Evaporator Coils	22	2 days
24	RDMC 10-4 Demolish Interior Power	21	3 days
25	RDMC 10-4 Test Existing Refrigerant Piping	20,22,23	2 days

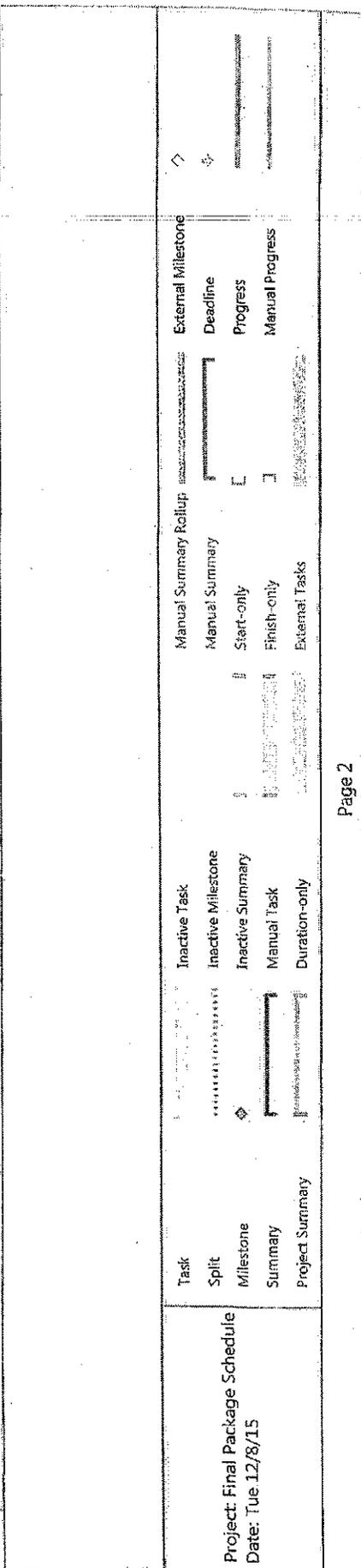


Project: Final Package Schedule
 Date: Tue 12/8/15

Task: Inactive Task
 Split: Inactive Milestone
 Milestone: Inactive Summary
 Summary: Manual Task
 Project Summary: Duration-only

Manual Summary Rollup: External Milestone
 Manual Summary: Deadline
 Start-only: Progress
 Finish-only: Manual Progress
 External Tasks

ID	Task Name	Predecessor	Duration
26	RDMC 10-4 Install Interior Evaporator Coils	25	15 days
27	RDMC 10-4 Install Exterior/Interior Refrigerant Piping	26	4 days
28	RDMC 10-4 Install Exterior/Interior Power	27	2 days
29	RDMC 10-4 Charge Refrigerant Piping	28	1 day
30	Demolish Existing Equipment In Use (Phase 2)	29	3 days
31	RDMC 3-4 Frame/Pour New Concrete Equipment Pad	30	2 days
32	RDMC 3-4 Concrete Cure Time	31	3 days
33	RDMC 3-4 Set Exterior Condensing Equipment	32	1 day
34	RDMC 3-4 Demolish Exterior Refrigerant Piping	33	2 days
35	RDMC 3-4 Demolish Exterior Power	34	1 day
36	RDMC 3-4 Demolish Interior Refrigerant Piping	34	1 day
37	RDMC 3-4 Demolish Interior Evaporator Coils	36	1 day
38	RDMC 3-4 Demolish Interior Power	35	3 days
39	RDMC 3-4 Test Existing Refrigerant Piping	34,36,37	2 days
40	RDMC 3-4 Install Interior Evaporator Coils	39	12 days
41	RDMC 3-4 Install Exterior/Interior Refrigerant Piping	40	3 days
42	RDMC 3-4 Install Exterior/Interior Power	41	1 day
43	RDMC 3-4 Charge Refrigerant Piping	42	1 day
44	Demolish Existing Equipment In Use (Phase 3)	43	5 days
45	Punch List	44	10 days
46	Final Acceptance	45	0 days



Task	Manual Summary Rollup	External Milestone
Task Split	Manual Summary	Deadline
Milestone Summary	Start-only	Progress
Project Summary	Finish-only	Manual Progress
	External Tasks	
	Duration-only	

Jacqueline Taylor (Procurement)

From: CC Prodagio (Procurement)
Sent: Thursday, January 14, 2016 10:15 AM
To: Jacqueline Taylor (Procurement)
Cc: Donna Williams (Procurement); Danuta Rusin (Procurement); Cho Ng (Procurement)
Subject: FW: New Requisition Package Document Uploaded (SD-046584)

Please assign requisition #122279 to Donna as an NCR.

From: Cho Ng (Procurement)
Sent: Wednesday, January 13, 2016 12:36 PM
To: CC Prodagio (Procurement)
Cc: Danuta Rusin (Procurement)
Subject: RE: New Requisition Package Document Uploaded (SD-046584)

Please assign this to Donna.

From: CC Prodagio (Procurement)
Sent: Wednesday, January 13, 2016 10:29 AM
To: Cho Ng (Procurement)
Subject: FW: New Requisition Package Document Uploaded (SD-046584)

Please review requisition #122279 (NCR) and let me know who to assign it to.

From: no-reply-1022@prodagiocloud.com [mailto:no-reply-1022@prodagiocloud.com]
Sent: Wednesday, January 13, 2016 10:22 AM
To: CC Prodagio (Procurement)
Subject: New Requisition Package Document Uploaded (SD-046584)

Prodagio Notification

A new requisition package document has been uploaded for contract number SD-046584.

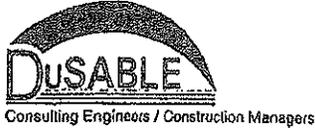
Document Name: SD-046584 - Requisition Package - Req. Pkg. DOC central Kitchen Condensing Units Req. #122279

[View Document Dashboard in Prodagio](#)

Jacket Properties:

Prodagio Document Number	: 15210
Document Title	: 122279
Category	: TBD
Status	: Created
Requisition #	: 122279
PO #	:
CC Contract #	:
Rebid?	:
Buyer Name	:
Fiscal Year + Buyer Number	: 0
Lead Department	: Capital Planning and Policy - 031
Using Department(s)	:
Description	: DOC CENTRAL KITCHEN CONDENSIN
Vendor Number	: 845783

Vendor Name	: PASCHEN AUTUMN JOINT VENTURE
Auto Update From PO Data	:
Contract Original Amount	: 1,677,731
Contract Start Date	:
Contract End Date	:
Fiscal Year	:
# Of Renewal Options	:
Cost Savings	: 0
Total Contract Amount	: 0
Total Contract Term Start	:
Total Contract Term End	:
Priority	: 4 ? Normal, Routine Request
Status Updates	:
Additional Status Updates	:
Requisition Entered in JDE	: Jan 8, 2016
Receipt of New Project	:
Assigned To Buyer	:
MWDBE Goals Request Compliance	:
MWDBE Goals Received Compliance	:
Specification Approved	:
Advertise Date	:
Bid/Proposal Open Date	:
Evaluation Complete	:
To Compliance	:
Compliance Approval	:
Receive Letter Of Recommendation	:
Utilization PIn To Compliance Eval	:
Utilization PIn Receive From Compliance	:
Contract Docs Sent To Vendor	:
Receive Contract Docs From Vendor	:
Background Check - Start Date	:
Background Check - Complete Date	:
Deputy Approval	:
Board Contract Approval	:
CPO Final Signature	:
Contract Award And Release	:
Cancelled Date	:
Requestor Name	:
Requestor Phone	:
Requestor E-Mail	:
EDS Signed Date + 1 Year	:
Insurance Expiration Date - General Liability	:
Insurance Expiration Date - Professional Liability	:
Insurance Expiration Date - Auto	:
Insurance Expiration Date - Railroad	:



DuSABLE, Inc.
300 West Adams Street, Suite 612
Chicago, Illinois 60606
312-360-9300 / Fax 312-360-9390
dusable@dusable.com

July 13, 2015

Frank Nelson

Project Manager/ JOC

5515 N. East River Road

Chicago, IL 60656

DUS-260: Cook County / DOC Central Kitchen Refrigeration Project —Phase II
Request for FEE for Phase II Services as discussed with Sheila Atkins

Dear Mr. Nelson:

As per the Original Agreement and the Phase II kick off meeting held on May 13, 2015, the following balances and fees are to be applied to Phase II:

Permitting Phase II Drawings:	\$2,000
Construction Administration Fee:	\$4,500
Pipe testing review, phasing meetings, RFI's:	\$10,000

Please include the above amounts totaling \$16,500 as part of overall package to the Cook County for the above project.

Thank You

Regards,
DuSABLE, Inc.

R. Murty Yedavalli, PE.
President

Danuta Rusin (Procurement)

From: Quintin Rembert <Q.Rembert@thegordiangroup.com>
Sent: Tuesday, January 26, 2016 4:06 PM
To: Danuta Rusin (Procurement)
Cc: Sheila Atkins (Capital Planning); Michael Batchman; Cho Ng (Procurement)
Subject: RE: Work Order 31000 - DOC Central Kitchen Condensing Units
Attachments: NOPA and PO Checklist.pdf; Dusable Proposal_20150713.pdf

Good afternoon Donna,

Here are the answers to your questions and supporting documentation.

NOPA (PDF pg 2) – Location needs to be revised to reflect DOC location
Revised NOPA is attached.

Checklist (PDF pg 3) – Location need to be revised to reflect DOC location
Revised checklist is attached.

Contractor Evaluation (PDF pg 4) – Project Director gave a poor evaluation for the contractor, what is being done about poor evaluations?

We (The Gordian Group) will discuss with DCCP to determine what they would like to do moving forward.

Price Proposal Summary (PDF pg 8) – Category – Phase 1, how many phases are part of this project?

- There line items within the proposal that state 3 phases – does the Board approval support the entire project?
- What does RDMC refer to?

Refrigeration Design Multi-Circuit

Price Proposal Detail Line 151 (PDF pg 28) – Please provide proposal/invoice for engineering fee
Invoice is attached

Price Proposal Category – Phase I (PDF pg 42 - 43) – Can you explain this category to me? Wouldn't some of the tasks be included in other categories – would like some clarification on how this proposal was put together.

Upon departure of the original Cook County Project Director, this project was reassigned, re-scoped and funded under a different board approval because the name of the project did not match the board approval. The newly assigned Project Director postponed the balance of Phase I and included it in the DOC Central Kitchen Condensing Units project.

Dusable Central Kitchen Drawings (PDF pg 46) – Reference Job Order 16462, was this work previously submitted under a different work order? Please explain.

Job order 16462 is DOC Central Kitchen Compressor Upgrade. Original job order had design fees of \$42,200. The original job order captured the necessary design and the current job order has A & E related construction administration services.

NPP Back up Info. – Why is it that Autumn's and Ornelas Construction's proposal amounts were so much lower than Automatic Mechanical and Zone Comfort Systems? Why couldn't Autumn get the job, they are a JV on this contract with Paschen. Were each of the vendors given the same information to bid? Please explain why the quotes are so different and why some are being linked together.

The numbers are lower because each Autumn and Ornelas are each doing a portion of the NPP task in question. FHP did in this manner in efforts to meet their MWBE goals.

Quintin Rembert

Account Manager

a: 30 Patewood Drive, Suite 350 Greenville, SC 29615

m: (312) 995-2872

e: q.rembert@TheGordianGroup.com

w: www.TheGordianGroup.com



From: Danuta Rusin (Procurement) [mailto:Danuta.Rusin@cookcountyil.gov]

Sent: Monday, January 25, 2016 12:20 PM

To: Quintin Rembert <Q.Rembert@thegordiangroup.com>

Cc: Sheila Atkins (Capital Planning) <sheila.atkins@cookcountyil.gov>; Michael Batchman <m.batchman@thegordiangroup.com>; Cho Ng (Procurement) <Cho.Ng@cookcountyil.gov>

Subject: Work Order 31000 - DOC Central Kitchen

Hi Quintin,

I was reviewing the subject work order and have a couple of suggested revision and comments/questions.

NOPA (PDF pg 2) – Location needs to be revised to reflect DOC location

JOC checklist (PDF pg 3) – Location need to be revised to reflect DOC location

Contractor Evaluation (PDF pg 4) – Project Director gave a poor evaluation for the contractor, what is being done about poor evaluations?

Price Proposal Summary (PDF pg 8) – Category – Phase 1, how many phases are part of this project?

- There line items within the proposal that state 3 phases – does the Board approval support the entire project?
- What does RDMC refer to?

Price Proposal Detail Line 151 (PDF pg 28) – Please provide proposal/invoice for engineering fee

Price Proposal Category – Phase I (PDF pg 42 - 43) – Can you explain this category to me? Wouldn't some of the tasks be included in other categories – would like some clarification on how this proposal was put together.

Dusable Central Kitchen Drawings (PDF pg 46) – Reference Job Order 16462, was this work previously submitted under a different work order? Please explain.

NPP Back up Info. – Why is it that Autumn's and Orlenas Construction's proposal amounts were so much lower than Automatic Mechanical and Zone Comfort Systems? Why couldn't Autumn get the job, they are a JV on this contract with Paschen. Were each of the vendors given the same information to bid? Please explain why the quotes are so different and why some are being linked together.

Thanks,

Donna

Danuta 'Donna' Rusin

Sr. Contract Negotiator

Cook County

Office of the Chief Procurement Officer

118 N. Clark Street, Room 1018

Chicago, IL 60602

Danuta Rusin (Procurement)

From: Frank Nelson <fnelson@FHPaschen.com>
Sent: Thursday, January 28, 2016 5:58 PM
To: Danuta Rusin (Procurement)
Cc: Quintin Rembert; Anthony Izzi; Susan Nelson
Subject: DOC Central Kitchen Condensing Units

Donna,

Thank you for taking the time to discuss the questions you have regarding the DOC Central Kitchen Condensing Units project with Anthony and myself.

As discussed on the phone yesterday there are several determining factors in selecting the Subcontractor's for each project. For this particular project the Paschen Autumn JV jointly decided it would benefit all parties to split the Mechanical work between Autumn Construction and Ornelas Construction. This decision was arrived at to limit the risk and burden for any one Subcontractor in addition to taking into consideration the MBE and WBE goals set forth in the contract.

Also as discussed, in order to correctly compare all non pre-priced proposals, it is necessary to combine the scope of work being quoted by Autumn Construction and Ornelas Construction to that of either Atomatic Mechanical or Zone Comfort Systems.

We also reviewed our overall MBE and WBE participation under this contract. Based on our records, we have current estimated commitment levels of 25.97% MBE participation and 15.51% WBE participation. Please note, these numbers do not include this most current work order and may be slightly different than what Cook County and The Gordian Group records show as participation amounts must be continuously reconciled.

Thank you and feel free to let us know if you have any additional questions or concerns.

Frank Nelson | F.H. Paschen, S.N. Nielsen
Project Manager | Job Order Contracts
5515 N. East River Road, Chicago, IL 60656
Tel/Direct (773) 444-1577 | Fax (773) 714-0957
FNelson@fhpaschen.com | www.fhpaschen.com

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An Equal Opportunity Employer*

Danuta Rusin (Procurement)

From: Quintin Rembert <Q.Rembert@thegordiangroup.com>
Sent: Wednesday, January 27, 2016 12:11 PM
To: Danuta Rusin (Procurement)
Cc: Michael Batchman
Subject: DOC Central Kitchen Condensing Units Job order #31000.00

Good afternoon Donna,

I talked to Michael Batchman and he asked me to provide a breakdown of the JOC projects that were approved on September 11, 2013. Please see the breakdown below.

1. Oak Forest UPS System \$241,267.37
2. Oak Forest Condensing Unit \$283,605.77
3. DOC Central Kitchen Condensing Units \$ 1,677,731.07

Total \$2,202,604.21

Also, I talked to Frank Nelson at FHP and requested him to send you an email explaining the NPP page in reference to the use Autumn Construction and Ornelas Construction.

Quintin Rembert

Account Manager

a: 30 Patewood Drive, Suite 350 Greenville, SC 29615

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e: q.rembert@TheGordianGroup.com

w: www.TheGordianGroup.com

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