

6790 N. West Avenue Fresno, California 93711 Tel: 559.448.8051 Fax: 559.446.1765

www.dardenarchitects.com

ADDENDUM NO. 2

DATE: 08/17/23

PROJECT:

Thomas Jefferson Middle School Kitchen Remodel Madera, CA 93637 Client Bid No: 031623

OWNER:

Madera Unified School District 1205 South Madera Avenue Madera, CA 93637

ARCHITECT:

DARDEN ARCHITECTS, INC. Attention: 6790 N. West Avenue Fresno, California 93711 T. (559) 448-8051

- T. (559) 448-8051
- F. (559) 446-1765

DARDEN PROJECT NO. 2212 DSA File No. 20-30 DSA APPL. NO. 02-120517

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

A R C H I T E C T U R E P L A N N I N G I N T E R I O R S

Robert L. Petithomme AIA LEED' AP Antonio J. Avila AIA LEED' AP BD+C DeDe Darnell ASID IDA LEED' AP Grant E. Dodson AIA Michael K. Fennacy AIA Andrew Corral AIA LEED AP Leslie Rau^{IIDA LEED^{*} AP Matthew Heiss ^{AIA} William Brandle ^{AIA}} Martin A. Ilić Sean P. Mendoza ^{Ala} Michael J. Nelson Gerardo Padron

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CHANGES TO SPECIFICATIONS	AD2-SP01 THRU AD2-SP04
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CHANGES TO SHEETS: ARCHITECTURAL MECHANICAL	AD2-A01 THRU AD2-A08 AD2-M01

ATTACHMENTS:

DOCUMENTS OR SPECIFICATIONS:

114000 FOOD SERVICE EQUIPMENT	(Pages 1 thru 37)
HAZARDOUS MATERIALS REPORT	(Pages 1 thru 10)
022600 HAZARDOUS MATERIALS	(Pages 1 thru 8)
321919 ORNAMENTAL METAL	(Pages 1 thru 11)
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SHEETS:

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PROJECT MANUAL:

BIDDING AND CONTRACT REQUIREMENTS:

CHANGES TO CONDITIONS OF THE CONTRACT:

AD2-CCC01 Refer to Specification Section 0800, SPECIAL CONDITIONS:

- 1. Refer to Paragraph E. Contractor Coordination and revise as shown below.
- **E. Contractor Coordination.** District has contracted with a solar provider to install a set of solar arrays adjacent to the area of work for this project. The Solar Contractor is responsible for providing an ADA accessible pathway to their array, west of the cafeteria. The successful bidder for this project will be required to coordinate their work with the work of the solar contractor to ensure there is adequate access to both projects.

AD2-CCC02 Refer to Specification Section 0800, SPECIAL CONDITIONS:

- 1. Refer to Paragraph F. Schedule Phases and revise as shown below.
- F. Schedule Phases. There will be two phases for this project. The first phase will commence immediately upon contract signing anticipated September 22, 2023 and will run until December 26, 2023. During this phase Contractor shall focus on subcontracting with all subcontractors, gaining approval of all submittals and ordering materials, starting with long lead items and materials that will need to be installed first. The second phase will be for the actual demolition and construction on-site. This phase will commence on December 27, 2023 and run through May 20, 2024.

AD2-CCC03 Refer to Specification Section 0800, SPECIAL CONDITIONS:

1. Refer to Paragraph G. Students and Staff on Campus and revise as shown below.

- G. Students and Staff on Campus. The school is scheduled to be in session from 08/07/23 to 12/22/23 and from 01/16/24 to 06/06/24. During this time all school facilities and access to them must be maintained for students and staff (with the exception of the restroom and kitchen upgrades shown in the plans). The following items will therefore be required of the Contractor:
 - i. Work in and around the restrooms may proceed during school however, Contractor shall be responsible for providing an ADA Accessible Pathway to all adjacent areas of the campus. A Pathway Plan shall be submitted to and approved by the District prior to implementation. All other school facilities

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(excluding the cafeteria) must remain accessible and operational for students/staff during school. Demolition and noisy work shall take place between 12/27/23 and 1/16/24.

- ii. The demolition and removal of the metal building shown to be removed, shall take place between 12/27/23 and 1/16/24.
- iii. Any utility shut-downs must take place outside of school hours and, if possible, between 12/27/23 and 01/16/24.
- iv. Contractors will not be allowed to park in the main parking lot on the east side of the campus. Contractors shall park on the street.
- v. During any time when students are on campus, tools may be dropped off and picked up before and after school hours respectively however, personal and work vehicles will be required to be parked off campus unless work cannot be accomplished without the vehicle being parked in the vicinity of the work (for example, a truck with a welder attached to it would be allowed for welding operations).
- vi. Laydown Area The small parking lot in front of the school and nearest the cafeteria will be provided for a Contractor laydown area. Contractor may also use the remainder of the cafeteria for laydown however, Contractor will be responsible for protection of all surfaces and for restoring this area to the condition it was in (or better) prior to construction. Any fees associated with off-site storage shall be included in Contractor's bid.

AD2-CCC04 Refer to Specification Section 0500, CONTRACT: 1. Revise Article 2 as follows:

"ARTICLE 2. TIME FOR COMPLETION. The Work shall be commenced on the date stated in the District's Notice to Proceed. The Contractor shall complete all Work required by the Contract Documents within one-hundred forty-five (145) calendar days from the commencement date stated in the Notice to Proceed. By its signature hereunder, Contractor agrees the time for completion set forth above is adequate and reasonable to complete the Work."

SPECIFICATIONS:

CHANGES TO SPECIFICATIONS:

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	1. Refer to Specification Section 114000 and replace with herein attached section. Changes are shown in clouded area(s).
AD2-SP02	 Refer to HAZARDOUS MATERIAL REPORT: 1. Refer to attached Asbestos Report. No known asbestos or hazardous materials are present on site. However, if during construction it is suspected that hazardous materials are discovered, contractor to follow procedures as outlined in Spec Section 024919 SELECTIVE DEMOLITION and the attached specification section 022600 HAZARDOUS MATERIALS PROCEDURES
AD2-SP03	Refer to project manual 1. Insert the following specification sections: 022600 HAZARDOUS MATERIALS 321919 ORNAMENTAL METAL 323113 CHAIN LINK

AD2-SP04 Refer to Specification Section 0800, BUILT-UP ROOFING:

1. Refer to Section 1.4, Paragraph A, item 5, a. add the following sub item as indicated below:

"C) NOTE - Roof patching scope is to be folded into existing roof warranty. All workmanship must comply with manufacturer's requirements for adding new roof patch sections to existing warranty."

SHEETS:

CHANGES TO SHEETS:

ARCHITECT	URAL:
AD2-A01	 Refer to Sheet SD/A102: Demolition Plan and Site Plan 1. Refer to SD/A102 and revise as shown per the attached AD2-AX01. Lay down Area indicated. Contractor may also utilize space inside the multipurpose building cafeteria room so long as the floor and finishes are protected from damage.
AD2-A02	Refer to sheet SD/A102, Drawing A11 1. Replace sheet with attached exhibit AD2-AX02. Site gates identified on site plan.

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AD2-A03	 Refer to Sheet C/A101: Floor Plan and Reflected Ceiling Plan 1. Refer to C/A101 and revise as shown per AD2-AX03, Partial Floor Plan. Flooring to be replaced at Walk-in Room 105 and 106.
AD2-A04	 Refer to Sheet D/A101: Floor and Reflected Ceiling Plan 1. Replace Sheet D/A101 with the attached drawing AD2-AX04. Changes are shown in clouded area(s). Restroom Signage revised.
AD2-A05	 Refer to below note regarding Existing Banners at Student Restrooms. 1. Banners in the Student Restrooms to be removed and stored by Owner prior to start of work.
AD2-A06	 Refer to the below notes and images for Existing Metal Building information. Owner will remove and retain all light fixtures on the interior and exterior of the metal building. Owner will remove and retain the roll-up door on the metal building. Owner will empty the metal building of all weight equipment and rubber flooring.

- 4. Existing Metal Building Electrical meter only serves the Metal Building. Owner will coordinate with PG&E to disconnect and remove the meter. Contractor will be responsible for removal of all electrical downstream of meter.
- 5. Existing Metal Building is a medium gauge metal building.

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AD2-A07 Refer to Sheet SD/X302

Replace sheet with attached drawing AD2-AX05

 At detail J7, revise note at rails from "typ of 3" to read "typ of 2" Two rail
 Ornamental fencing is to be provided in bid
 Details N1, P8, P14, and E7 added clarifying gate hardware scope and detailing.

AD2-A08 Refer to the below images for Items to be removed and stored by Owner:

1. (1) Large Rational Combi Oven, (1) Small Rational Combi Oven, (1) Ice Maker, and (1) SS Mobile Work Table identified. Item disconnect removal, and disposal shall not be included in bid. Items will be removed before start of construction.







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MECHANICAL

AD2-M01 Refer to Sheet X/M101

- 1. See Package Air Conditioning Schedule, line "Manufacturer":
 - i. Revise Manufacturer of units HC1 and HC2 from "Daikin" to read "Daikin or Aaon"
 - 1. Aaon an approved alternate manufacturer for units HC1 and HC2

END OF ADDENDUM NO. 2

Leon Environmental Services

Richard "Danny" Leon CAC # 04-3708 Tommy Leon CAC # 05-3882

February 28, 2022

Domingo Mora Madera Unified School District 1902 Howard Rd, Madera, CA 93637 Email: <u>domingomora@maderausd.org</u>

Re: Asbestos Bulk Sample Report Thomas Jefferson Middle School Kitchen Renovation 1407 Sunset Ave, Madera, CA 93637 LES Job No. B41-22

Dear Domingo

Attached are the asbestos sampling results for the above referenced building. This report includes conclusions, recommendations and bulk analysis results. If you have any questions or need additional information, please do not hesitate to call.

Thank you for using Leon Environmental Services. We look forward to working with you in the future.

Respectfully,

Richard "Danny" Leon Certified Asbestos Consultant Certification No. 04-3708

<u>Leon Environmental Services</u> Asbestos Bulk Sample Report B41-22 TJMS Kitchen, 1407 Sunset Ave, Madera, CA

ASBESTOS ANALYSIS RESULTS

Twenty samples of suspect ACM were collected from the **Thomas Jefferson Middle School Kitchen at 1407 Sunset Ave, Madera, CA** on February 18, 2022 by Leon Environmental Services. The sample collection areas at this site were determined by the information given to Leon Environmental Services by Domingo Mora of Madera Unified School District about the impending renovation work that is planned for this building. All bulk samples of suspect ACM were taken in accordance with US EPA Guidelines and accepted industry standards. McCall and Spero Environmental, Inc., a NVLAP accredited laboratory performed a total of 33 analyses from the 20 samples of suspect ACM collected from this site. The full list of all samples taken is on the following pages.

COMMENTS AND RECOMMENDATIONS

All samples collected were NEGATIVE for Asbestos.

CONCLUSIONS AND REGULATIONS

US EPA NESHAP 40 CFR Part 61

Based on our inspection, sampling and subsequent laboratory analysis, in addition to regulatory guidelines affecting this site, **NO ACM was identified**. ACM's require removal (in most cases) prior to demolition and/or renovation procedures to comply with local, state and federal agencies. The US EPA NESHAP (40 CFR Part 61 – November 20, 1990) requires materials containing greater than one percent asbestos be removed prior to renovation or demolition. If those materials are friable or likely to become friable due to the forces expected to act upon them during renovation or demolition, they become a regulated asbestos containing material (RACM) and require a 10-day notification to the local Air Pollution Control District prior to abatement.

CAL OSHA------Construction Industry-----8CCR, 1529

The construction industry standard covers employees engaged in demolition, construction and the following related activities likely to involve asbestos exposure: removal, encapsulation, alteration, repair, maintenance, insulation, spill emergency cleanup, transportation, disposal and storage of ACM. CAL OSHA worker health and safety regulations apply during any disturbance of ACM by a person while in the employ of another. This is true regardless of friability or quantity disturbed. If there is greater than 100 square feet of ACM which will be affected by the demolition, a California Licensed Contractor who is registered with CAL OSHA for asbestos is required. The regulations regarding asbestos are found in Title 8 CCR Section 1529, and also include formal notification requirements to CAL OSHA at least 24 hours prior to removal.

<u>Leon Environmental Services</u> Asbestos Bulk Sample Report B41-22 TJMS Kitchen, 1407 Sunset Ave, Madera, CA

LIMITATIONS OF LIABILITY

The nature of demolition and asbestos abatement is such that materials can be uncovered which previously were unknown to exist. Therefore, Leon Environmental Services cannot be responsible for materials not previously detected due to lack of accessibility or concealment, although every effort was made during the inspection to detect all suspect materials. If any materials other than those included herein are discovered during renovation or demolition, it must be assumed that the materials are asbestos containing and should be treated accordingly until further testing and analysis is performed.

The data interpretations and recommendations are based solely on information available to Leon Environmental Services at the time of our inspection. The customer recognizes that site conditions or accessibility may vary from those encountered at the time of our inspection and sample collection. Varying conditions or access could result in additional information that would lead us to revise conclusions and recommendations.

Leon Environmental Services will not be responsible for the interpretation or use by others of information contained within this report. Conclusions and recommendations presented in this report are qualitative judgments based on the prevailing regulations and accepted industry standards at the time of the report issuance. Leon Environmental Services provides no other guarantees, either expressed or implied.

Richard "Danny" Leon Certified Asbestos Consultant Certification No. 04-3708

Date

*Abbreviation Key:

Asbestos Containing Material – ACM (Contains greater than 1% asbestos by weight) Asbestos Containing Construction Material – ACCM (Contains less than 1% asbestos by weight) Vinyl Asbestos Tile – VAT No Asbestos Detected – N.A.D or N.D. Homogeneous – H Not Sampled – NS

Leon Environmental Services

Richard "Danny" Leon CAC Certification No. 04-3708 Tommy Leon CAC Certification No. 05-3882

<u>Job B41-22 Sample Location Diagram</u> <u>Thomas Jefferson Middle School - Kitchen/ 1902 Howard Rd, Madera, CA 93637</u> <u>Domingo Mora / Madera Unified School District</u> <u>Drawing not to Scale</u>



Y = Exterior Samples X = Interior Samples R = Roof Samples



E-mail: customerservice@mselabs.com . Website: www.mselabs.com

Date:	February 28, 2022
Attention:	Tommy Leon Leon Environmental Services
Subject:	Analysis of bulk samples for asbestos mineral fibers by Polarized Light Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)
RE:	MSE-P2232LEO.2 Domingo Mora - Madera Unified School District - Thomas Jefferson Middle School: 1407 Sunset Ave; Madera, CA Project LEO# B41-22

Dear Mr. Leon:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on February 23, 2027. These samples represent the bulk samples from the Domingo Mora - Madera Unified School District - Thomas Jefferson Middle School: 1407 Sunset Ave; Madera, CA Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the thirty-three (33) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Amber D. Schultz, B.A. Senior Analyst



SUMMARY OF PLM BULK ANALYSIS RESULTS

Page 1

Project Name: Domingo Mora - Madera Unified School District - Thomas Jefferson Middle School: 1407 Sunset Ave; Madera, CA Project

McCall & Spero Environmental Project No. MSE-P2232LEO.2

MSE # P2232LEO.2	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
001 (A)	01 (A) Linoleum	ND	Cellulose / 15%	85%	Gray
001 (B)	01 (B) Adhesive	ND	Cellulose / 4%	96%	Yellow
002 (A)	02 (A) Base Cove Mastic	ND	Cellulose / 3%	97%	Yellow
002 (B)	02 (B) Base Cove Mastic	ND	Cellulose / 2%	98%	Brown
003	03 Texture	ND	Cellulose / 3%	97%	White
004 (A)	04 (A) Joint Compound	ND	Cellulose / 2%	98%	White
004 (B)	04 (B) Sheetrock	ND	Cellulose / 15%	85%	White
005	05 Texture	ND	Cellulose / 3%	97%	White
006 (A)	06 (A) Joint Compound	ND	Cellulose / 2%	98%	White
006 (B)	06 (B) Sheetrock	ND	Cellulose / 15%	85%	White
007 (A)	07 (A) 1x1 Acoustic Ceiling Tile	ND	Cellulose / 35% Glass / 30%	35%	White
007 (B)	07 (B) Mastic	ND	Cellulose / 2%	98%	Dark Brown
008	08 Wall Panel Adhesive	ND	Cellulose / 3%	97%	Brown
009 (A)	09 (A) Finish Coat	ND	Cellulose / 2%	98%	White

McCall & Spero Environmental, Inc.

SUMMARY OF PLM BULK ANALYSIS RESULTS

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MSE # P2232LEO.2	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
009 (B)	09 (B) Plaster	ND	Cellulose / 3%	97%	Gray
010	10 Texture	ND	Cellulose / 2%	98%	White
011 (A)	11 (A) Joint Compound	ND	Cellulose / 3%	97%	White
011 (B)	11 (B) Sheetrock	ND	Cellulose / 15%	85%	White
012 (A)	12 (A) Finish Coat	ND	Cellulose / 2%	98%	White
012 (B)	12 (B) Plaster	ND	Cellulose / 5%	95%	Gray
013	13 Sheetrock Button Board	ND	Cellulose / 15%	85%	White
014 (A)	14 (A) 1x1 Acoustic Ceiling Tile	ND	Cellulose / 90%	10%	Brown
014 (B)	14 (B) Mastic	ND	Cellulose / 5%	95%	Brown
015	15 Sheetrock	ND	Cellulose / 15%	85%	White
016	16 Texture	ND	Cellulose / 2%	98%	White
017 (A)	17 (A) Joint Compound	ND	Cellulose / 3%	97%	White
017 (B)	17 (B) Sheetrock	ND	Cellulose / 15%	85%	White
018 (A)	18 (A) Joint Compound	ND	Cellulose / 3%	97%	White
018 (B)	18 (B) Sheetrock	ND	Cellulose / 15%	85%	White

McCall & Spero Environmental, Inc.

SUMMARY OF PLM BULK ANALYSIS RESULTS

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MSE # P2232LEO.2	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	19(4)				COLOR
019 (A)	Joint Compound	ND	Cellulose / 3%	97%	White
	19 (B)				
019 (B)	Sheetrock	ND	Cellulose / 15%	85%	White
	20 (A)				
020 (A)	Joint Compound	ND	Cellulose / 3%	97%	White
	20 (B)				
020 (B)	Sheetrock	ND	Cellulose / 15%	85%	White

NOTES:

ND = None Detected	CH = Chrysotile	A = Amosite	AC = Actinolite
CR = Crocidolite	AN = Anthophyllite	TR = Tremolite	

For samples consisting of separate components, each component is analyzed and reported separately.

Results apply only to items tested. Quantification is accurate to within \pm 10%. Results from this report must not be reproduced, except in full, with the approval of McCall & Spero Environmental, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

** EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by polarized light microscopy that fall into one of five dominantly nonfriable categories be reanalyzed by an additional method, such as transmission electron microscopy. (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/ R-93/ 116).

Analyst: Amber D. Schultz, B.A.

T	Leon Envire	атто	ntal Services	
	4545 N. Brawley Ave., Suite 104, Fresno, CA 93722 Ph	one: (559) 274-92	200 Fax: (559) 274-9240 Email: Leonenviro@comcast.net	
Customer:	Domingo Mora	Company:	Madera Unified School District	
Date:	February 18, 2022	Job No:	B41-22	
Analysis:	PLM	Turn Around	d: RUSH Same Day Next Day 2-3 Days	4-5 Days
Inspection	Site: Thomas Jefferson Middle School, 1407 Sunset Ave, N	Madera, CA		
Sample No.	Location		Material	Quantity
		Color	Type	
	Cafeteria Building			
01	Snack Bar Wall	Grey	Linoleum	
	Snack Bar Wall		Adhesive	
02	Snack Bar Wall	Light	Base Cove Mastic	
	Snack Bar Wall	Dark	Base Cove Mastic	
03	Snack Bar Wall		Texture	
04	Snack Bar Wall		Joint Compound	
	Snack Bar Wall		Sheetrock	
05	Snack Bar Wall		Texture	
90	Snack Bar Wall		Joint Compound	
	Snack Bar Wall		Sheetrock	
07	Snack Bar Ceiling		1x1 Acoustic Ceiling Tile	
	Snack Bar Ceiling	Dark Brown	Mastic	
08	Wash Area Wall		Wall Panel Adhesive	
60	Wash Area Wall		Finish Coat	
	Wash Area Wall		Plaster	
10	Kitchen Wall		Texture	
11	Kitchen Wall		Joint Compound	
	Kitchen Wall		Sheetrock	
12	Kitchen Wall		Finish Coat	
	Kitchen Wall		Plaster	
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	Leon Envir	латно.	ital Ser	vices	
	4545 N. Brawley Ave., Suite 104, Fresno, CA 93722 Ph	hone: (559) 274-92	00 Fax: (559) 274-92	40 Email: Leonenviro@comcast.net	
Customer:	Domingo Mora	Company:	Madera Unified Scl	nool District	
Date:	February 18, 2022	Job No:	B41-22		
Analysis:	PLM	Turn Around	: RUSH	Same Day Next Day 2-3 Days	4-5 Days
Inspection	Site: Thomas Jefferson Middle School, 1407 Sunset Ave,	Madera, CA			
Sample No.	Location	Color		Material Tune	Quantity
13	Kitchen Wall			Sheetrock Button Board	
14	Cafeteria Wall			1x1 Acoustic Ceiling Tile	
	Cafeteria Wall	Brown		Mastic	
15	Cafeteria Wall			Sheetrock	
16	Hallway Wall			Texture	
17	Hallway Wall			Joint Compound	
	Hallway Wall			Sheetrock	
18	Locker Room Wall			Joint Compound	
	Locker Room Wall			Sheetrock (No Texture)	
19	Restroom Wall			Joint Compound	
	Restroom Wall			Sheetrock (No Texture)	
20	Breakroom Ceiling			Joint Compound	
	Breakroom Ceiling			Sheetrock (No Texture)	
			4	¢	
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SECTION 11 40 00- FOODSERVICE EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This section includes of furnishing all labor and material required to provide and deliver all food service equipment herein specified into the building, uncrate, assemble, set-in-place, level and completely install, exclusive of final utility connections.
- B. Furnish all material and labor required to completely provide, deliver, and install all Food Service Equipment as specified herein and as shown on the drawings. This work shall be in strict accordance with the plans and specifications with all dimensions verified in the field prior to any fabrication.
 - 1. Coordinate the Food Service Equipment work with the respective trades performing preparatory work for the installation of the Food Service Equipment.
 - 2. Comply with all Federal, State and Municipal regulations which bear on the execution of this project. Food service aisles shall be a minimum of 36" wide and tray slides shall be mounted at 34" maximum above the finished floor. Food service equipment required to be accessible shall conform to all reach requirements in CDC 1104B-5, 1104B-6 and figures 11B-16 and 11B-17.
- C. Work Includes:
 - 1. Materials shown on the Food Service Equipment Schedule.
 - 2. Piping, valves, and plumbing accessories that is integral within the equipment.
 - 3. Furnishing control devices such as solenoid valves that are not integral with the equipment, for installation by Mechanical division 15 and/or Electrical Division 16.
 - 4. Wiring, wiring devices, controls and mechanical accessories that are integral in the equipment.
 - 5. Ventilating ducts, flues, controls, and mechanical accessories that are integral in the equipment.
 - 6. Anchors, fasteners, fillers, and sealants for mounting equipment securely in place.
 - 7. Cooperation with all other contractors on the job including the furnishing of information in the form of drawings, wiring diagrams and other data.
 - 8. Touch-up painting after the installation of the food service equipment.
- D. Related Sections include the following:

- 1. Division 15 Mechanical
- 2. Division 16 Electrical

1.3 QUALITY ASSURANCE

A. QUALIFICATIONS:

1. Installer: Regularly engaged in providing food service equipment from manufacturers of this type of equipment a minimum of 5 years with at least 5 installations of this size and type that are at least each 3 years old.

B. STANDARD OF MANUFACTURE

- Food service equipment that is specified as "custom" having no manufacture name or model number shall be manufactured by a Food Service Equipment Fabricator with at least five (5) years' experience with engineering, design, and fabrication of food service equipment. The manufacture shall be subject to the review of the Architect and/or Consultant and shall be approved by the National Sanitation Foundation. All Fabricated equipment shall be constructed in strict compliance with the latest standards of the National Sanitation Foundation and shall bear the mark of the National Sanitation Foundation in full compliance with all applicable codes and ordinances.
- 2. All electrically heated or operated equipment shall bear the seal of approval of the Underwriters Laboratories and shall comply with the National Electrical Code and all local Codes and Ordinances.
- 3. All food service equipment that is specified as "buy-out" having a specific manufacture name and model number shall comply with the latest editions of the National Sanitation Foundation.
- 4. All Gas heated, or operated equipment shall be the seal of approval of the American Gas Association (AGA)
- 5. All Steam heated, or operated equipment shall conform to the standard of the American Society of Mechanical Engineers (ASME) and shall be ASME approved.
- 6. Food shields and Sneeze guards shall meet all the requirements of National Sanitation Foundation (NSF) Standard 2.

1.4 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.

B. SHOP DRAWINGS / EQUIPMENT BROCHURES

 No ordering or fabrication of equipment shall take place until such time as the equipment brochures and shop drawings have been reviewed in writing by the Architect and/or Consultant. Receipt of this review shall not relieve the Contractor from the responsibility of verifying all quantities and related dimensions, maintaining the specified quality of equipment, and verifying conditions of the job site.

- 2. Equipment Brochures; within twenty (20) calendar days after award of the contract, six (6) brochures containing manufacturers specification sheets, dimensioned drawings and/or other pertinent data describing all items of standard manufacture shall be submitted for review by the Architect and/or Consultant. Sheets with the notation "Fabricated Item" and name of the fabricated item, as well as any required mechanical, plumbing or electrical requirements shall be inserted between the manufacturer's specification sheets describing the "buy-out" equipment; thus, giving a complete brochure with all times accounted for. These brochures shall have hard white covers with clear transparent overlays and locking rings. The name of the Contractor, Architect, Consultant, and project clearly identified in large readable type. Failure to provide brochures in the manner as described above will be cause for rejection of said brochures.
- 3. Rough-in and Equipment Location Drawings; within thirty (20) calendar days after award of the contract, six (6) sets of bond prints of complete rough-in and details for electrical and plumbing services with both vertical and horizontal dimensions, from column centerlines or exterior walls for location said connection points and rough-in locations shall be submitted for review by the Architect and/or Consultant. Equipment location plans shall be drawn to scale of not less than 1/4" = 1'-0" and include a schedule of equipment clearly identifying all items. Minimum drawings size shall be 24"x 36".
- 4. Shop Drawings; within thirty (30) calendar days after award of the contract, six (6) sets of bond prints of shop fabrication drawings shall be submitted for review by the Architect and/or Consultant. Plans shall be drawn to scale of not less than 1/2"=1'-0". Additional plan views, elevations, and sections at 3/4"=1'-0" shall be supplied of all counters and tables with complete dimensions. All shop practices regarding joints, gussets, bracing, tie-downs, supports, etc. shall be clearly defined as well as gauges and quality of metals and brands and model numbers of all miscellaneous fittings, plumbing and electrical trim. The drawings shall also show locations of blocking (supplied under another sections) for all wall and ceiling mounted Food Service Equipment. Minimum drawings size shall be 24"x36".
- C. SAMPLES
 - 1. Provide all samples if specification requested.

D. SUBSTITUTIONS:

- 1. Manufacturer's listed in this section are used as standards for quality. All Substitutions shall be approved by the Architect and/or Consultant prior to installation.
- 2. Refer to Division 1 General Requirements for procedures governing substitutions
- 3. Only one substitution for each item will be considered.
- 4. Installation of any qualified substituted equipment is the Food Service Equipment Contractor's responsibility. Including any mechanical, electrical, structural changes required for the installation of qualified substitution shall be without additional cost to the Owner.

1.5 DISCREPANCIES:

A. In the event of discrepancies within the Contract Documents, the Architect and/or Consultant shall be so notified in sufficient time prior to bid opening, ten (10) days to allow issuance of an addendum.

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B. In the event that time does not permit notification or clarification of discrepancies prior to the bid opening, following shall apply: The drawings and drawing schedules shall govern in matters of quantity; the specifications in matter of quality. In the event of conflict within drawings involving quantities, or within the specifications involving quality, the greater quantity and high quality shall apply. Such discrepancies shall be noted and clarified in the contractors bid. No additional allowances will be made because of errors, ambiguities, or omissions which reasonable should have been discovered during the preparation of the bid.

1.6 **RESPONSIBILITY**:

- A. The work as specified in this division shall include assuring that all required submittals conform to the intent and meaning of the documents, conditions at the job site, and all local codes and ordinances.
- B. Visit the job site to field check actual wall dimensions and utility rough-ins. Be responsible for furnishing, fabricating, and installing the equipment in accordance with the available space and utility services as they exist on the job site.
- C. Check all door openings, passageways, elevators, etc., to verify that the equipment can be transported to its proper location within the building. If necessary, check the possibility with the General Contractor of holding wall erection, placement of doorjambs, window, etc. for the purpose of moving equipment to its proper location.
- D. Notify the Architect and/or Consultant of any discrepancies between the plans and specification prior to fabrication of any equipment, to actual condition on the job.
- E. If any special hoisting equipment and operators are required, include cost as part of the bid for this work.

1.7 DELIVERY AND STORAGE

- A. All equipment specified herein shall be delivered to the job site; received and handled by the Contractor or his authorized agent. The Owner shall in no way be expected to store or handle any such equipment.
- B. All equipment shall be delivered in such a manner as to protect it against dirt, water, chemical or mechanical injury.
- C. Throughout the progress of the work, the Contractor shall keep the working area free of debris of all types resulting from his work.
- D. All packing material shall be removed from the project location by the Contractor.

1.8 COORDINATION

A. Coordinate work with mechanical, electrical, plumbing, interiors, and other trades whose work is in conjunction with equipment specified herein.

1.9 MEASUREMENTS

A. Verify all dimensions shown on the drawings by taking field measurements at the job site prior to fabrication of equipment or ordering equipment. Proper fit and attachment of all parts is required and is

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the sole responsibility of the Food Service Contractor. If necessary, all equipment shall be fabricated so that it may be handled through finished door openings.

1.10 GUARANTEE / WARRANTY

- A. All work shall be guaranteed by the Foodservice Equipment Contractor against all defects for a term of one (1) year from the date of notice of completion. This guarantee shall cover replacement of defective material at the Foodservice Equipment Contractor expense, including transportation and labor. This guarantee will not cover any cost for replacement of parts or work made necessary by carelessness or misuse of the equipment by others.
- B. The Food Service Equipment Contractor shall provide at his own expense the installation, start-up and service for one (1) year from the date of recording the notice of completion of the project; the replacement of all condensing units and other refrigeration devices supplied under this contract. In addition to this one (1) year free service, the condensing units shall have a five (5) year compressor warranty; said warranty commencing at the date of completion.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Metal for construction purposes, where entirely concealed, shall be steel of wrought iron sections galvanized by the hot-drip process after fabrication. Bolts, screws, rivets, and similar attachments to this galvanized work shall be galvanized or brass. Exposed screw and rivet work shall be finished to match adjacent surfaces, flush and buffed smooth. Finished work shall be free of tool or construction marks, dents, or other imperfections; and at the completion of the work, all metal shall be gone over with a portable machine and buffed and dressed to perfect surfaces.
- B. All materials shall be new and of first grade. All gauges specified herein shall be minimum and shall be minimum and shall be established after polishing. They shall refer to:
 - 1. U.S. Standard Gauge for sheets and plates.
 - 2. Stainless steel shall be manufactured by one of the following: Allegheny Ludlum Steel Corporation, American Rolling Mills, U.S. Steel Corporation.
- C. The Contractor will be required to furnish a certified copy of the mill analysis of materials to the Architect and/or Consultant.
- D. Stainless steel sheets shall conform to ASTM A240, Type 304 Condition A, 18-8 having a No. 4 finish. No.2B finish shall be acceptable on surfaces of equipment not exposed to view. All sheets shall be uniform throughout in color, finish and appearance.
- E. Stainless steel tubing and pipe shall be Type 304, 18-8, having a No. 4 finish, and shall conform to either ASTM A213 if seamless or ASTM A249 if welded.
- F. Galvanized steel shall be approved grade of copper-bearing steel sheets with a minimum copper content of 20%. All sheets to be commercial quality, stretcher leveled, bonderized and re-rolled to insure smooth surface. Galvanized steel shall not be allowed in the construction and fabrication of any "Fabricated Assembly" items.

- G. All millwork materials shall be free from defect impairing strength, durability, or appearance; straight and free from warpage; and the best grade for their particular function. All wood shall be well seasoned and kiln dried and shall have an average moisture content of 8%, a maximum of 10%, and a minimum of 5%.
- H. Plywood and other woodwork of treatable species, where required by code, shall be fire-retardant treated to result in a flame spread rating of 25 or less with no evidence of significant progressive combustion when tested for 30 minutes duration under ASTM E-84 and shall bear the testing laboratory mark on the surface to be concealed.
- I. Concealed softwood or hardwood lumber shall be of poplar, Douglas fir, basswood, red oak, birch, maple, beech or other stable wood and shall be select or better grade, unselected for color and grain, surfaced four sides, square-edged, and straight. Basswood may be used where fire-retardant treated materials are required.
- J. Face veneers shall be matched for color and grain to produce balance and continuity of character. Mineral streaks and other discolorations, wormholes, ruptured grain, loose texture, doze or shake will not be permitted. Face veneer leaves on each surface shall be full-length, book matched, center matched, and sequence matched. Surfaces shall be sequenced, and blueprint matched. Veneers not otherwise indicated shall be plain sliced. Backing veneers for concealed surfaces shall be of a species and thickness to balance the pull of the face veneers.
- K. Hardwood plywood for painted surfaces shall conform to U.S. Product Standard PS -51-71, Type I, and shall have sound birch, maple or other approved close grain hardwood faces suitable for paint finish.
- L. Plastic laminate surfaces shall be laminated with thermosetting decorative sheets in the color, pattern and style as selected by the Architect. Horizontal surfaces shall be laminated with sheets conforming to Federal Specifications L-P-508F, Style D, Type I (general purpose), Grade HP, Class I, 1/16" thick, satin finish with rough sanded backs. Vertical surfaces shall be laminated with sheets conforming to Federal Specification L-P-598F, Style D, Type II (vertical surface), Grade HP, Class I, conforming, satin finish, 1/32" thick or heavier. Balance sheets for backs in concealed locations shall be .020" thick laminate backing sheets conforming to Federal Specification L-P-00508E, Style ND, Type V (backing sheet), Grade HP.
- M. Adhesive for application of plastic laminate to wood surfaces of counter tops shall be phonetic, resorcinol or melamine adhesive conforming to Federal Specification MMM-A-181C and producing a waterproof bond. Adhesive for applying plastic laminate to vertical surfaces shall be either a waterproof type or a water-resistant type such as a modified urea formaldehyde resin liquid glue conforming to Federal Specification MMM-A-188C. Contact adhesive will not be acceptable.
- N. Plate glass shall be 1/2" thick safety glass with polished edges.
- O. Sealant shall be equal to that manufactured by General Electric. Silicone construction 1200 sealant; in either clear or approved color to match surrounding surfaces.
- P. Sound deadening material shall be equal to that manufactured by H.W. Mortell Co., Kankakee, Illinois, and shall be sprayed by use of a mechanical device to a thickness of not less than 1/8" thick.
- 2.2 FINISHES

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- A. Paint and coatings shall be of an NSF approved type suitable for use in conjunction with food service equipment. Such paint or coating shall be durable, non-toxic, non-dusting, non-flaking and mildew resistant, shall comply with all governing regulations and shall be applied in accordance with the recommendations of the manufacturer.
- B. All exterior, galvanized parts, exposed members of framework where specified to be painted shall be cleaned, properly primed with rust inhibiting primer, degreased, and finished with two (2) coats of epoxy-based grey hammertone paint, unless otherwise specified.
- C. Stainless steel, where exposed, shall be polished to a #4 commercial finish. Were unexposed, finish shall be #2B. The grain of polishing shall run in the same direction wherever possible. Where surfaces are disturbed by the fabricating process, such surfaces shall be refinished to match adjacent undisturbed surfaces.

2.3 SHOP FABRICATED EQUIPMENT CONSTRUCTION

- A. Leg stands for open base tables or dish tables shall be constructed of 1-5/8" dia. 16-gauge stainless steel tubing, with stringer and cross braces of the same material. Joints between legs and cross braces shall be welded and ground smooth. Flattened ends on tube stretchers are not permitted. Mechanical fittings are also not permitted.
 - 1. Stainless Steel Leg Sockets: Component Hardware Group, Inc. model A18-0206, or accepted equal; weld to underside of countertop framing or at bottom of enclosed cabinet unit and fastened with flush set screw locking device.
 - 2. Sanitary Type Stainless Adjustable Foot: Component Hardware Group, Inc. model A10-0851, or accepted equal
- B. Tabletops shall be 14-gauge stainless steel unless otherwise noted, with all shop seams and corners welded, ground smooth and polished. Tops of closed base fixtures shall be reinforced on the underside with a framework of 1-1/2" angles or 16-gauge stainless steel hat section; and on open pipe frames with a 4" channel at each pair of legs. The leg sockets shall be welded to this channel. The channel in turn stud welded to the top. Tops shall be reinforced so that there will be any noticeable deflection. Unless otherwise shown on the detail drawings, metal tops shall be turned down 2", and back at 15-degree angle, with 1-1/8" turn-under, except were adjacent to walls or other pieces of equipment. The wall side shall be turned up 10" and back 2" at a 45-degree angle. Ends of this splash are to be closed. Free corner of tops shall be spherical. All tops shall have 1/8" of sound-deadening material applied to the underside by use of spray equipment in an oven, smooth application for ease in cleaning.
- C. Enclosed bases or cabinet bodies shall be of the material and gauge hereinafter specified. They shall be enclosed on the ends and sides as required. The bases shall be reinforced at the top with a framework of 1-1/2" x 1-1/2" x 1/8" stainless steel angles fully welded to the base with the stainless-steel angles 36" on center (maximum), with all corners of said framework mitered and fully welded. All vertical joints of the bases shall be fully welded, ground and polished. All free corners of enclosed bases or cabinet bodies and all corners against walls and other fixtures shall be square. In the case of fixtures fitting against or between walls, the bodies shall be set in 1" from the wall line, but the tops shall be extended back to the wall line to permit adjustment to wall irregularities. A flush fitting vertical trim strip (extension of the vertical end mullion without vertical seam of the same material as the body shall be provided at each end of the body and shall extend 1" to the wall line). These fixtures shall be constructed to set on bases or legs as hereinafter specified and shall be set in a vermin-proof manner.

- D. Shelves, mullions, and aprons shall be fabricated flush with the cabinet body, welded, ground, and polished. Butt joints are not acceptable.
- E. Drawers, to be furnished with stainless steel flush pull, Component Hardware Group Inc., model number P63-1012 or equal installed into the 18-gauge double-pan drawer front panel.
 - 1. Stainless steel locks, Component Hardware Group, Inc., model number P30-4781 or equal for each drawer. All drawers are to be keyed alike.
 - Stainless Steel full extension slides, Component Hardware Group, Inc., model no S52-0024 or equal. Provide two (2) per drawer. Slides to be installed so drawer will roll closed when released.
 - 3. Stainless steel removable drawer pan, Component Hardware Group, Inc., model number, S81-1520 or equal one (1) per drawer set loosely in a channel frame so it can be easily lifted out for cleaning. This supporting frame shall be welded stainless steel channel.
 - 4. Drawer face panel to be constructed of 18-gauge stainless steel double pan construction. (Single metal thickness drawer faces are not expectable.)
- F. Hinged doors in base cabinets shall be of double pan construction, insulated and constructed of 18-gauge stainless steel. Doors shall have wire type pull Component Hardware Group Inc., model number P46-1010 or equal installed as shown in elevations. Door pulls to be NSF and ADA compliant.
- G. Interior shelves shall be solid, non-removable 16-gauge stainless steel, with ends and backs provided with a 1-1/2" high turn-up against the body of the fixture and welded to the same. Front edge is to be turned down 1-1/2" and under 1/2", at the bottom shelf, beyond the edge of the base to prevent sagging and vermin collection.
- H. Under shelves on open tables shall be constructed of 16-gauge stainless steel, flanged down 90 degrees $\frac{1}{2}$ ". The corners shall be welded to the legs. Under shelves shall be 10" from the floor. Backs shall be turned up 2".
- I. Elevated shelves shall be constructed of 16 gauges stainless steel with edges turned down in a square edge, and back 1/8"; except where shelves are adjacent to walls or other fixtures, where they shall be turned up 2". Corners shall be spherical, mounted on 14-gauge stainless steel support brackets.
- J. Sinks and drain boards shall be constructed of 14-gauge stainless steel. The working edge of the sink shall be provided with 5/8" radius sanitary rolled edge in one piece with rounded corners. The drain boards shall be made as an integral part of the sink; all vertical and horizontal corners shall be rounded with 5/8" radius; and the working front edges shall be maintained at one level, taking up the pitch of the drain boards by dropping the sink to allow for same. Depth of sink bowl shall be determined from the top bowl. Sinks shall be provided with back and end splashes with top edge flanged back 2-1/4" at 45-degree angle and attached to the building wall with "zee" clips. Splash back of sinks and drain boards shall be grained in the same direction. Suitable openings shall be cut for hot and cold-water supplies and waste outlets. All surface plumbing trim as called for on the drawings and herein specified shall be provided. Bottom of each sink bowl with center drain connection shall be fitted with a 2" lever type action waste valve mounted into the sink and made watertight. Sink bowls and drain boards shall have 1/8" of sound-deadening material underneath, spray-applied.

- K. Rivets, bolts, and screws shall not be permitted in any exposed location.
- L. All welding shall be of the heliarc method with welding rod of the same composition as the parts welded. Welds shall be complete, strong, and ductile with excess metal ground off and joints finished smooth to match adjoining surfaces. Welds shall be free of mechanical imperfections and shall be continuously welded so that the fixture shall appear as one-piece construction. Butt welds made by spot solder and finished by grinding are not acceptable.
- M. All exposed joints shall be ground flush with adjoining material and finished to harmonize therein. Whenever material has been sunk or depressed by welding operation, such depressions shall be suitably hammered and peened flush with the adjoining surface and, if necessary, again ground to eliminate low spots. In all cases, the grain of rough grinding shall be removed by successive fine polishing operations.
- N. All exposed welded joints in stainless steel construction shall be suitably coated with an approved metallic-based paint.
- O. After galvanized steel members have been welded, all welds and areas where galvanizing has been damaged shall have a zinc dust coating applied.
- P. Seams shall be continuous welds flush and ground smooth.
 - 1. Field Joints: Flush welded, ground smooth and polished on the job, solder or rivets not allowed.
 - 2. Counter Tops: Field joints in stainless steel counter tops and drain boards butt welded with welds ground flush and smooth and polished to match original finish.
 - 3. Pass windows: Provide a complete all welded seamless counter from inside area to the outside ledge at each pass window location. Mechanical joints, butt joints or lap joints will not be accepted.

2.4 ELECTRICAL REQUIREMENTS

- A. Standard UL listed materials, devices and components shall be selected and installed in accordance with NEMA Standards and recommendations and as required for safe and efficient use and operation of the Food Service Equipment without objectionable noise, vibration, and sanitation problems.
- B. Motors up to and including ½ HP are to be wired for 120-volt, single phase. Fixtures totaling more than 1000 watts are to be wired for 208-volt, single phase. Fixtures having multiple number of heating elements, can be wired for three phase with the load balanced as equally as possible within the fixture.
- C. Heating elements having a connected load of up to and including 1000 watts are to be wired for 120-volt, single phase. Fixtures totaling more then 1000 watts are to be wired for 208-volt, single phase. Fixtures having multiple number of heating elements can be wired for three phase with the load balanced as equally as possible within the fixture.
- D. Equipment where applicable shall be furnished with three-wire cord and plug.
- 2.5 PLUMBING TRIM, SINKS

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- A. All vegetable and pot washing sinks or other 14" deep sinks shall have Fisher Mfg. Co. Model 22209 series (2" drain size) quick opening drain. Fisher Mfg. Co. Model 60100 splash mounted faucet shall be mounted over each partition as shown on the drawings.
- B. All cook sinks, pantry sinks or other 10" or 12" deep sinks shall have Fisher Mfg. Co. Model 22209 series (2" drain size or as shown on the drawings) quick opening drain. Fisher Mfg Co. Model 57649 faucets mounted as shown on the drawings.
- C. All Fisher Mfg., Co. faucets to be furnished as stainless steel to comply with AD1953 Standards and conform to NSF 61 Standard 9.
- D. Provide gas pressure regulators for installation by the Plumbing Contractor.
- E. FIRE SUPPRESSION GAS SHUT/OFF VALVE: Gas valve to be furnished by the Foodservice Equipment Contractor and furnished to the Plumbing Contractor for installation. Foodservice Equipment Contractor is to verify with plumbing division for gas line size. Valve to be located in an accessible location and if necessary, with access panel.

2.6 HARDWARE

- A. Elevated shelf brackets shall be as shown on the Drawings.
- B. Drawer and door handles shall be as shown on the Drawings.
- C. Hinges for all metal doors shall be Klein Hardware Co. 7870 series, finished in satin chrome.

PART 3 INSTALLATION

3.1 POSITIONING OF EQUIPMENT

- A. Installation procedure, details and scheduling shall be so arranged that the work of other contractors may progress without unnecessary delay, interference, or damage.
- B. The Contractor shall do all fitting, joining, fastening, scribing, caulking, and adjusting necessary to install any fixed item of equipment in its designated location; and shall locate and/or store portable, non-fixed items as directed by the Architect and/or Consultant with due regard for the security and protection from damage of the items involved.

3.2 WORKMANSHIP

- A. Commencement of work shall constitute agreement with and acceptance of all conditions as found.
- B. Equipment shall be installed as shown on the plans. Where abutting, curved or irregularly shaped angles or projecting corners of walls occur, equipment shall be made to conform. Where several pieces of equipment are to be assembled in a group, the group shall be complete as whole, with all necessary filler or connecting pieces as may be required to make a complete, sanitary, and vermin-proof group.
- C. Welded parts shall be non-porous and free of imperfections. Welds on galvanized metal shall be ground smooth, sandblasted, and sprayed with molten zinc or 1200 degrees F to a thickness of .004". Tinning of

welds will not be acceptable. Welds of stainless steel shall be ground and polished to the original finish and all grained in the same direction.

D. All fixtures, unless made of stainless steel, shall be finished in sprayed lacquer in color as chosen by the architect; or if specifically stated, in "plastic laminate"; in pattern and/or color as selected by the Architect.

3.3 POST INSTALLATION PROCEDURES

- A. Prior to being offered for final acceptance, all equipment shall be thoroughly cleaned. This shall include removal of all stains, paint spots, protective wrapping and coatings, tapes, grease, oil, plaster, dust, polishing compounds, etc. and cleaning of floors in food service areas (broom clean) and signed off by the General Contractor with a copy to the Architect and/or Consultant.
- B. After installation at least ten (10) days prior to offering for acceptance, all equipment shall undergo a "Start-up" procedure by a Factory Authorized service dealer. Equipment is to be inspected, tested, calibrated, and adjusted for normal operation conditions. If inspection or testing indicated defects, such defects shall be corrected and the inspection and test repeated to insure a perfect operation of all equipment, prior to final acceptance and for a period ninety days after final acceptance.
- C. Upon completion of the project, the Contractor shall furnish the Owner two (2) sets of dimensional prints, data sheets, spare parts lists and operating manuals for each piece of mechanical equipment; each set shall be neatly bound in a loose-leaf binder, each set shall be complete with and index of equipment and with a complete list of service contracts with said agencies to perform these services. In addition to this list. The contractor shall submit for review of the Architect and/or Contractor and submittal to the Owner for his files, copies of service contracts with said agencies to perform these services. It shall be the responsibility of this contractor to fill out forward and all warranty forms as required.
- D. This contractor shall arrange demonstrations of the operation and maintenance of all buy-out" equipment by competent instructors. These demonstrations to take place within ten (10) days prior to the acceptance of the kitchen. All instruction periods shall be scheduled with the Architect and/or Consultant fourteen (14) days prior to commencement of same, and at times convenient to the Architect and/or consultant and Owner.

PART 4 ITIMIZED EQUIPMENT SCHEDULE

4.1 FOOD SERVICE EQUIPMENT LIST AND DESCRIPTION

- A. Fabricated Equipment: Wherever the term "Fabricated Assembly" is used within the list noted below and description of Food Service Equipment, it shall be presumed to be followed by the phrase, "constructed to the configuration, dimension, detail and design as shown on the drawings and specifications and with workmanship and materials as specified above" and shall meet the fabrication detail requirements of the latest edition of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA), and National Sanitation Foundation (NSF Standard 2).
- B. All food service equipment shall be installed per the "Guidelines for Seismic Restraints of Kitchen Equipment" by the Sheet Metal and Air Conditioning Contractors National Association (SMACNA).

- C. All food service equipment shall comply with the standards of The California Administration Code, Title 24, Part No. 2.
- D. All food service equipment shall comply with the current California Energy Commission Appliance Efficiency Regulations.
- E. Equipment in the following schedule is listed by Item Numbers shown on Drawings.
- F. OFCI- Owner Furnished Equipment / Contractor to install OFOI- Owner Furnished Equipment / Owner to install CFCI- Contractor Furnished Equipment / Contractor to install

4.2 SCHEDULED ITEMS:

ITEM #1 AIR CURTAIN

Quantity: One (1) Manufacturer: Berner (or equal) Model: SLC07-1048AABK Stat: CFCI

Sanitation Series Low Profile Air Curtain, 48"L, unheated, (1) 1/5 hp motor, for doors up to 7' high, aluminized steel cabinet, baked-on electrostatic black powdered coated aluminum steel cabinet, interior or exterior mounting, UL, cULus, UL EPH, MADE IN USA

Accessories:

- 1 ea. Five-year parts warranty (unheated units)
- 1 ea. Model 9503SD020-P Automatic Door Switch, plunger type, activates air door when door opens, single phase only & max. amp draw of 20 amps, 120-240V
- 1 ea. Black powder coat exterior finish standard

ITEM #2 AIR CURTAIN

Quantity: Five (5) Manufacturer: Berner (or equal) Model: SLC07-1036A BK Stat: CFCI

Sanitation Series Low Profile Air Curtain, 36"L, unheated, (1) 1/5 hp motor, for doors up to 7' high, aluminized steel cabinet, baked-on electrostatic black powdered coated aluminum steel cabinet, interior or exterior mounting, UL, cULus, UL EPH, MADE IN USA

Accessories:

- 5 ea. Five year parts warranty (unheated units)
- 5 ea. Model 9503SD020-P Automatic Door Switch, plunger type, activates air door when door opens, single phase only & max. amp draw of 20 amps, 120-240V
- 5 ea. Black powder coat exterior finish standard
ITEM #3.1 SHELVING UNIT, PLASTIC WITH POLY EXTERIOR STEEL POSTS

Quantity: Six (6) Manufacturer: Cambro (or equal) Model: CPU244864 VS4480 Stat: CFCI

Premium Starter Unit, 24"W x 48"L x 64"H, 4-tier, withstands temperature $-36^{\circ}F$ ($-38^{\circ}C$) to 190°F ($88^{\circ}C$), includes: (3) vented and (1) solid polypropylene shelf plates with CamguardTM antimicrobial protection, (2) preassembled post kits (posts constructed of steel with polypropylene exterior), (8) traverses & molded-in dovetails, 800 lbs. capacity per shelf /2,000 lbs. max capacity, speckled gray, NSF. Shelving to be 4-tier units with the bottom shelf at a minimum of 12" above finished floor. Provide post clamps to adjacent shelving unit two at front and two at back. Provide wall mounting angle brackets at top of shelving as shown.

Accessories:

- 24 ea. Model CSFF Camshelving® Accessory, 6-1/2" x 1-1/2" x 3-1/2", Seismic Foot, includes: (1) stainless steel floor bracket & (1) stainless steel leveling foot, to bolt a post to the floor, silver
- 24 ea. Model CSWF Wall Fastener, silver

ITEM #3.2 DUNNAGE RACK

Quantity: One (1) Manufacturer: Cambre (or equal) Model: DRS480480 Stat: CFCI

S-Series Dunnage Rack, slotted top, 3000 lb. load capacity, 21"D x 48"W x 12"H, polypropylene, one-piece, seamless double wall construction, includes (1) Camlink®, 4" square legs, speckled gray, NSF

ITEM #3.3 SHELVING UNIT, PLASTIC WITH POLY EXTERIOR STEEL POSTS

Quantity: Three (3) Manufacturer: Cambre (or equal) Model: CPU244264V5480 Stat: CFCI

Camshelving[®] Premium Starter Unit, 24"W x 42"L x 64"H, 5-tier, withstands temperature -36°F (-38°C) to 190°F (88°C), includes: (5) vented polypropylene shelf plates with CamguardTM antimicrobial protection, (2) preassembled post kits (posts constructed of steel with polypropylene exterior), (10) traverses & molded-in dovetails, 800 lbs. capacity per shelf /2,000 lbs. max capacity, speckled gray, NSF. Shelving to be 4-tier units with the bottom shelf at a minimum of 12" above finished floor. Provide post clamps to adjacent shelving unit two at front and two at back. Provide wall mounting angle brackets at top of shelving as shown.

Accessories:

- 12 ea. Model CSFF Camshelving® Accessory, 6-1/2" x 1-1/2" x 3-1/2", Seismic Foot, includes: (1) stainless steel floor bracket & (1) stainless steel leveling foot, to bolt a post to the floor, silver
- 12 ea. Model CSWF Wall Fastener, silver

ITEM #3.4 SHELVING UNIT, PLASTIC WITH POLY EXTERIOR STEEL POSTS

Quantity: Two (2) Manufacturer: Cambro (or equal) Model: CPU246064VS4480 Stat: CFCI Camshelving[®] Premium Starter Unit, 24"W x 60"L x 64"H, 4-tier, withstands temperature $-36^{\circ}F$ ($-38^{\circ}C$) to 190°F (88°C), includes: (3) vented and (1) solid polypropylene shelf plates with CamguardTM antimicrobial protection, (2) pre-assembled post kits (posts constructed of steel with polypropylene exterior), (8) traverses & molded-in dovetails, 800 lbs. capacity per shelf /2,000 lbs. max capacity, speckled gray, NSF. Shelving to be 4-tier units with the bottom shelf at a minimum of 12" above finished floor. Provide post clamps to adjacent shelving unit two at front and two at back. Provide wall mounting angle brackets at top of shelving as shown.

Accessories:

- 8 ea. Model CSFF Camshelving® Accessory, 6-1/2" x 1-1/2" x 3-1/2", Seismic Foot, includes: (1) stainless steel floor bracket & (1) stainless steel leveling foot, to bolt a post to the floor, silver
- 8 ea. Model CSWF Wall Fastener, silver

ITEM #4 HAND SINK

Quantity: Two (2) Manufacturer: Eagle Group (or equal) Model: HSAP-14-ADA-FW Stat: CFCI

Hand Sink, wall mount, 14" wide x 16" front-to-back x 5" deep bowl, 16/304 stainless steel construction, splash mount gooseneck faucet with wrist handles & mixer valve, marine edge on front & sides, 1/2" NPS water inlet, chrome-plated P-trap, wrist handles, soap dispenser, basket drain, skirt assembly & paper towel dispenser, PHYSICALLY CHALLENGED, NSF

Accessories:

- 2 ea. Model 313305 T&S Extra Heavy Duty Gooseneck Faucet, wrist handles, splash mount 4" OC, NSF
- 2 ea. Model -LRS Left & right side splashes

ITEM #5 FOOD PACKAGING MACHINE

Quantity: One (1) Manufacturer: Henkelman Ine (or equal) Model: BOXER 52II COMBIVAC Stat: CFCI

Vacuum Packaging Machine, countertop, 20-1/2"W x 16"D x 7"H chamber, (2) removable 16"W double wire seal bars (left and right), CombiVac sensor controls with (20) program presets & pump maintenance cycle, 889 cf/h (25 m³/h) capacity Busch vacuum pump, automatic transparent lid, USB port, includes filler plates, stainless steel construction, 1.34 HP, 110-120v/60/1-ph, 16.0 amps, NEMA 5-20P, 6ft. cord, ETL-Sanitation, cETLus, CE

Accessories:

- 1 ea. 1 year labor & 3 year parts warranty, standard
- 1 ea. (2) Seal bar left & right, standard
- 1 ea. Double seal, standard
- 1 ea. Model SERVICE KIT Service Kit, for standard maintenance
- 1 ea. Liquid control sensor with inclined insert plate

ITEM #6 SPARE

ITEM #7 WALL MOUNTED OVER SHELF

Quantity: One (1) Manufacturer: Custom (or equal) Model: FABRICATED ITEM Stat: CFCI

- A. To be 16-gauge stainless steel construction, 1 1/2" turn down in front and 2" turn up at back and right end and left ends. Provide 14-gauge stainless steel wall brackets as shown.
- B. Approximate Size: (1) ea.12" deep x length as shown.

ITEM #8 PREP SINK

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash at back 2" thick with a 45-degree top edge to wall, turn down ½" to "Z Clip" at back and right side. Top to be constructed with a "rolled" or marine edge as shown. Drainboards are to slope per NSF guidelines to sinks.
- B. Two (2) 14-gauge stainless steel formed and welded sinks, refer to drawings for bowl dimensional requirements. (Diecast sink bowls are not acceptable).
- C. Provide 16-gauge stainless steel undershelf with 1 ½" turn down at front and 2" turn up at back.
- D. Legs to be 16-gauge stainless steel tubular, stainless steel welded leg sockets, stainless steel adjustable feet, and stainless-steel cross rail bracing. Provide 16-gauge stainless steel undershelf as shown.
- E. Approximate size: 30" deep x length as shown.
- F. Twist waste valve to have support bracket installed as part of fabrication with a minimum of 4" clearance from twist handle.
- G. Provide adjustable seismic flanged feet. Refer to drawings for configuration and quantity. Accessories:
 - 2 ea. Fisher Model 22209 DrainKing Waste Valve, with flat strainer, 12 GPM drain rate, dual Teflon seals, stainless steel ball, cast red brass body
 - 1 ea. Fisher Model 60917 Faucet, backsplash mount, 8" centers, 10" swing spout, lever handles with color-coded indexes, 1/2" NPT male inlets, with elbows, stainless steel, CSA, ADA Compliant
 - 2 ea. Fisher Model 5000-2103 Close Elbow, 3/4" female, rough chrome

ITEM #9 PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET

Quantity: One (1) Manufacturer: Fisher (or equal) Model: 34452 Stat: CFCI Pre-Rinse Unit, spring style, backsplash mount, 8" centers, 16" riser, 36" hose, 1.15 GPM Ultra-Spray[™] PLUS spray valve with built-in spray handle clip & dish guard bumper, lever handles with color coded indexes, add-on faucet with 10" swing spout, includes wall bracket, 1/2" NPT male inlets, brass, ADA Compliant

Accessories:

2 ea. Model 5000-2103 Close Elbow, 3/4" female, rough chrome

ITEM #10 WALL MOUNTED OVER SHELF

Quantity: One (1) Manufacturer: Custom (or equal) Model: FABRICATED ITEM Stat: CFCI

- A. To be 16-gauge stainless steel construction, 1 1/2" turn down in front and 2" turn up at back and right end and left ends. Provide 14-gauge stainless steel wall brackets as shown.
- B. Approximate Size: (1) ea.12" deep x length as shown.

ITEM #11 PLASTIC SHELVING UNIT

Quantity: Three (3) Manufacturer: Cambro (or equal) Model: EMU244878V5580

Stat: CFCI

Camshelving® Elements Mobile Unit, 24"W x 48"L x 78-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) mobile traverses & (5) bags of 8 count dovetails (20 each A & B), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, brushed graphite, NSF. Shelving to be 4-tier units with the bottom shelf at a minimum of 12" above finished floor. Provide post clamps to adjacent shelving unit two at front and two at back. Provide wall mounting angle brackets at top of shelving as shown.

Accessories:

- 3 ea. Lifetime warranty against corrosion and rust
- 3 ea. Model EMTR48580 Camshelving® Elements Traverse, for mobile units, 48"L, brushed granite, NSF
- 3 ea. Model EMTR482PK580 Camshelving® Elements Traverse, for mobile units, 48"L, includes (1) bag of 8 mobile traverse dovetails (4 each A & B), brushed graphite, NSF (2 per pack)

ITEM #12 PRE-RINSE FAUCET ASSEMBLY

Quantity: One (1) Manufacturer: Fisher (or equal) Model: 13390

Stat: CFCI

Pre-Rinse Unit, spring style, backsplash mount, 8" centers, 21" riser, 36" hose, 1.15 GPM Ultra-Spray[™] PLUS spray valve with built-in spray handle clip & dish guard bumper, lever handles with color coded indexes, includes wall bracket, 1/2" NPT male inlets, brass, ADA Compliant

Accessories:

1 ea. Model 64211 Elbows, (2) 1/2", brass

ITEM #13 THREE COMPARTMENT POT WASH SINK

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash at back 2" thick with a 45-degree top edge to wall, turn down ½" at back and right side to Z-clips. Top to be constructed with a rolled edge as shown. Drainboards are to slope per NSF guidelines to sinks.
- B. Three (3) 14-gauge stainless steel formed and welded integral sinks, refer to drawings for bowl dimensional requirements. (Diecast sink bows are not acceptable).
- C. Provide and install 16-gauge stainless steel tubular legs, stainless steel welded leg sockets, and stainless-steel cross rail bracing.
- D. Provide 16-gauge stainless steel undershelf with 1 ¹/₂" turn down at front and 2" turn up at back.
- E. Provide adjustable seismic flanged feet. Refer to drawings for configuration and quantity.
- F. Twist waste valve to have support bracket installed as part of fabrication with a minimum of 4" clearance from twist handle. Accessories:
- 3 ea. Fisher Model 22209 DrainKing Waste Valve, with flat strainer, 12 GPM drain rate, dual Teflon seals, stainless steel ball, cast red brass body
- 2 ea. Fisher Model 60100 Faucet, 3/4", 8" backsplash, with 10" swing spout & elbows, stainless steel
- 4 ea. Fisher Model 5000-2103 Close Elbow, 3/4" female, rough chrome

ITEM #TACKEAN DISH TABLE

Quantity: Two (2) Manufacture: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI Fabricated assembly in length and configuration as show

Fabricated assembly in length and configuration as shown on the drawings and shall include the following: To be fabricated of 14-gauge stainless steel.

- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash 2" thick with a 45degree top edge to wall, turn down ½" at back and right side to Z-Clips. Top to be constructed with a "rolled" edge as shown. Drainboards are to slope per NSF guidelines to sinks.
- B. Provide adjustable seismic flanged feet. Refer to drawings for configuration and quantity.
- C. Provide and install 16-gauge stainless steel tubular legs, stainless steel welded leg sockets, stainless steel adjustable feet and 16 gauge welded tubular stainless undershelf.
- D. Approximate size: 30" deep x as shown. This item to be a part of item 13 Three Compartment Sink

ITEM #14.1 SOILED DISH TABLE

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

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- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash 2" thick with a 45degree top edge to wall, turn down ½" at back and right side to Z-Clips. Top to be constructed with a "rolled" edge as shown. Drain boards are to slope per NSF guidelines to dishwasher Item #14.2.
- B. Provide and install 16-gauge stainless steel tubular legs, stainless steel welded leg sockets, stainless steel adjustable feet and 16-gauge welded tubular stainless undershelf.
- C. Provide adjustable seismic flanged feet. Refer to drawings for configuration and quantity.
- D. Approximate size: 30" deep x as shown. This item to be a part of item 13 Three Compartment Sink

ITEM #14.2 DISHWASHER, DOOR TYPE, VENTLESS

Quantity: One (1) Manufacturer: Champion (or equal)

Model: DH-6000T-VHR

Status: CFCI

Genesis Dishwasher, door type, extended hood (27" opening for trays), ventless heat recovery, high temperature sanitizing with built-in stainless steel electric booster for (40°-70° rise), (40) racks/hour capacity, auto start, single point electrical connection, door interlock switch, on-board service diagnostics, Rinse Sentry feature, auto-fill, detergent & chemical connections, interchangeable upper & lower spray arms, automatic drain valve, vent fan control, bottom mounted HMI controls, mounted water PRV, stainless steel construction, electric tank heat, peg rack, flat rack, 2 HP self draining pump, NSF, cULus, ENERGY STAR®

Accessories:

- 1 ea. Fuel Surcharge
- 1 ea. 1 year parts & labor warranty, standard
- 1 ea. Extended warranty (consult factory for price)
- 1 ea. Complimentary factory authorized performance test included, upon equipment start-up. Consult local Champion sales representative for coordination of the start-up. If customer is beyond 60 miles from Champion authorized service agent, consult factory.
- 1 ea. Single-point electrical connection, standard
- 1 ea. 208-240v/60/3-ph
- 1 ea. Straight-through design application
- 1 ea. Model 117084 Drain water tempering kit, shipped loose (unmounted)
- 1 ea. Flanged feet
- 1 ea. Champion ION scale prevention system, shipped un-mounted
- 1 ea. Model 101273 Flat Bottom Dishrack, 20" x 20", additional
- 1 ea. Model 101285 Peg Dishrack, 20" x 20", additional
- 1 ea. Model 114356 Sheet pan rack
- Near Model 1154/2 Insulated Tray/Steam Table pan rack
- 1 ea. Set of 4 seismic flanged feet.
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ITEM #15 BLAST CHILLER/SHOCK FREEZER, REACH-IN

Quantity: One (1) Manufacturer: Irinox North America (or equal) Model: MULTIFRESH MF 70.1L RLVS Status: CFCI

MultiFresh® Blast Chiller/Shock Freezer PLUS version, Reach-in: high cabinet, (14) 18" x 26" full size sheet pans or (28) 12" x 20" x 2-1/2", 155lbs. blast chill/freeze capacity from finished cooked temperature 194°F to 37°F in approximately 90 minutes or from finished cooked temperature 194°F to 0°F in approximately 4 hours on average, door hinged left, touch pad controls, (4) standard chilling and freezing cycles, an additional (122) dynamic chef designed, icon-controlled product specific cycles, able to customize and record replicable cycles,

favorites menu, WIFI or USB for data transfer to HACCP software, low temperature cooking & automatic chill, freeze, or hot hold (cook & hold), thawing, proofing, regeneration, holding, dehydration, pasteurization, and chocolate melting cycles, Temperature range 185° F to -40°F*, multi-sensor temperature probe, automatic SANIGEN® sanitation system, 304 grade stainless steel construction, Self contained efficient, IRINOX BALANCE SYSTEM® air-cooled condensing unit, (4) hp compressor rating, 6" stainless steel adjustable legs w/seismic flanged feet, installation not included, cULus, UL EPH Classified (compliant with NSF standards)

- Accessories:
 - 1 ea. (2) year parts and labor warranty, standard
 - 1 ea. (5) year compressor warranty, standard
 - 1 ea. With 6 racks, standard
 - 1 ea. Self-contained, air-cooled energy efficient condensing unit, standard
 - 1 ea. 208v/60/3-ph, 6.7 kW, 26.8 amps (NOTE: This unit requires a dedicated 30 amps circuit)
 - 1 ea. Opposite door hanging (hinge on the right)
 - 1 ea. Sous-vide probe
 - 1 ea. Additional core probe
 - 1 ea. Core probe holder for liquids
 - 1 ea. Additional angle slides, set of 2

ITEM #16/HEATED CABINET, INTERMEDIATE HEIGHT

Quantity: Five (5) Manufacturer: Cres Cor (or equal) Model: H137SUA9D

Status: CFCI

Cabinet, Mobile Heated, intermediate height, insulated, top-mount heater assembly, magnetic latch, recessed push/pull handles, (9) sets of chrome plated wire universal angle slides on 4-1/2" centers adjustable 1-1/2" centers, solid state electronic control, LED digital display, field reversible doors, (4) heavy duty 5" swivel casters (2) braked, anti-microbial latches, stainless steel exterior & interior, NSF, cCSAus, ENERGY STAR®

Accessories:

- 4 ea. Standard Warranty: 1 year labor with 3 year parts warranty
- 4 ea. 120v/60/1-ph, 1.5 kW, 12 amp, 10 ft. power cord, standard
- 4 ea. Model 1056 002 Corner Bumpers, add 2" to OA dimensions, non-marking, gray
- 4 ea. Model 1265 000 SIDE Bail Handle Kit, side mounted (4 per kit)

ITEM #17 COMBI OVEN, GAS

Quantity: Three (3) Manufacturer: RATIONAL (or equal)

Manufacturer: RATIONAL (or equal) Model: ICP 20-FULL NG 208/240* 1 PH (LM100GG)

Status: CFCI

Model ICP 20-FULL NG 208/240V 1 PH (LM100GG) (CG1GRRA.0000245) iCombi Pro® 20-Full Size Combi Oven, natural gas, (20) 18" x 26" sheet pan or (40) 12" x 20" steam pan or (20) 2/1 GN pan capacity, mobile oven rack & (10) stainless steel grids included, intelligent cooking system with (4) assistants; iDensityControl, iCookingSuite, iProductionManager, & iCareSystem, (6) operating modes, (5) cooking methods, (3) manual operating modes, 85° to 572°F temperature range, quick clean, care control, eco mode, 6-point core temperature probe, retractable hand shower, Ethernet interface, Wi-Fi enabled, includes (1) bucket of Active Green Cleaner & (1) bucket of Care Tabs, 303,500 BTU, 208/240v/60/1-ph, 6 ft. cord, 2.2 kW, IPX5, cCSAus, NSF, ENERGY STAR-®

Accessories:

3 ea. 2 years parts and labor, 5 years steam generator warranty

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- 3 ea. Model CAP Chef Assistance Program, a RATIONAL certified Chef conducts 4 hours/location specialized application training with personnel, no charge
- 3 ea. Model 1900.1150US Water Filtration Double Cartridge System, for full-size Combi-Duos or if used for more than (2) units, includes: (1) double head with pressure gauge, (2) R95H filter & (1) filter installation kit (for each additional unit add (1) additional head & additional cartridge. Maximum (4) cartridges)
- 3 ea. NOTE: The RATIONAL Water Filtration Systems helps provide consistent high quality water to your RATIONAL cooking systems. The patented carbon block technology reduces the effects of

sediment, chloramipes, and chlorine while providing the required flow rates

3 ea. Set of 4 seismic flanged feet.

ITEM #18 FLOOR TROUGH

Quantity: Two (2) Manufacturer: Eagle Group (or equal)

Model: FT-1896-SG

Floor Trough, 96"W x 18"D, stainless steel subway-style grating, 4" deep trough pan with built-in pitch toward drain, accommodates up to 4" drain pipe, stainless steel removable perforated basket, 1" outer flange for mounting, all-welded 14/304 stainless steel construction, NSF

Accessories:

2 ea. ADA-compliant grating

ITEM #19 EXHAUST HOOD AND S/S WALL LINING

Quantity: One (1) Manufacturer: CAPTIVE AIRE (or equal) Model: 6024-ND-2-PSP-F Status: CFCI

To be stainless steel type I exhaust hood. Hood to be 18-gauge stainless steel with removable Captrate Solo Filter cartridges. See drawings for dimensions. The exhaust hood is to have 3" air space at back. Provide 200-watt lights pre-wired to one (1) point of connection as the configuration is shown on the drawings.

- A. 18-gauge stainless steel wall panels (minimum length to be 36") per California Mechanical Code Chapter
 5. Wall lining to be applied with Dow Corning #995 adhesive. "Liquid Nails" are not acceptable.
- B. Wall panels shall be installed horizontally and fluted vertically every 6" from top of floor base to bottom lip of the hood
- C. Wall lining shall be installed without exposed screws and bolts.
- D. Provide stainless steel "tees" and/or "ells" at each panel on both sides, bottom and top.
- E. The stainless-steel wall lining shall extend the full length of the exhaust hood Item including the fire system cabinet on the end of the hood.
- F. Insulated wall lining shall meet the requirements of NFPA-96 and all local codes and ordinances.
- G. Provide 18-gauge stainless steel closure skirting from top of the hood to finish ceiling.
- H. Provide all hanging information to the Contractor including the total weight of the hood.
- I. Furnish all necessary materials to support this assembly from the building structure. Assembly shall meet the requirements of NFPA-96 and the latest edition of the California Mechanical Code.
- J. 18-gauge stainless steel wall lining with a 1-inch mineral wool blanket and wire mesh backing or ceramic fiber and backing spaced out 1-inch on non-combustible spacers per California Mechanical Code 2019 Chapter 5.
- K. Current exhaust hood configuration, DCV set up to provide 0-10v speed signal and does not include VFDs for the fans. Refer to foodservice equipment exhaust hood details.

ITEM #19.1 FIRE SYSTEM

Quantity: One (1) Manufacturer: CAPTIVE AIRE / ANSUL (or equal) Model: R-102 Status: CFCI

Complete with a stainless-steel control panel, remote pull station, all shut/down electric contractors. This assembly to be in compliance with NFPA 96 and UL-300.

- A. All exposed piping, fittings, nozzles, and trim shall be stainless steel or chrome plated finish.
- B. All conduit piping and boxes are to be concealed in the building wall or ventilator. Verify with contractors to coordinate installation in the wall areas.
- C. Furnish a mechanical gas shut-off valve of proper size to the Plumbing Contractor for installation. Verify with Electrical Contractor what type of electrical panel will be furnished, either for shunt trips or contactors, and provide all necessary information regarding the inter-lock conduit and wiring between this electrical panel and the fire suppression panel. This electrical work and all material to be supplied by the Electrical Contractor.
- D. Coordinate with the hood manufacturer to supply the proper access into the hood area for the fire suppression linkage and nozzle locations.
- E. Before installation of the fire suppression system is started, approved drawings and fitting lists must be approved by the Office of Regulation Services. Once the installation is completed a field test must be performed in the presence of the inspecting authority.

ITEM #20 TILTING SKILLET BRAISING PAN, ELECTRIC

Quantity: One (1) Manufacturer: RATIONAL (or equal)

Model: IVARIOPRO L 208/240V 3PH (LMX100CE)

Status: CFCI

Model IVARIOPRO L 208/240V 3PH (LMX100CE) (WX9ENRA.0002215) iVario Pro L Multifunctional Cooking Center, (1) 26 gallon pan,integrated iVarioBoost energy management system, 85° to 480°F temperature range, iZoneControl with up to (4) individually controlled heating zones, iCookingSuite intelligent cooking system, 6-point sensor core temperature probe, AutoLift (baskets and arm required for use), portioned water dispenser, retractable hand shower, Ethernet interface, WiFi enabled, includes stand with plastic feet, 208/240v/60/3-ph, 23.0 kw, CE, ETL, NSF, IPX5

Accessories:

- Model 1900.1154US Water Filtration Single Cartridge System, for any iVario, single Combi model, or XS or half-size Combi-Duos, includes: (1) single head with pressure gauge, R95H filter & filter installation kit
- 1 ea. NOTE: The RATIONAL Water Filtration Systems helps provide consistent high quality water to your RATIONAL cooking systems. The patented carbon block technology reduces the effects of sediment, chloramines and chlorine while providing the required flow rates
- 1 ea. NOTE: All public water systems using surface water and most ground water systems treat with either chlorine/chloramine or chlorine dioxide (EPA will allow levels as high as 4ppm safe for drinking water, exceeding our maximum level of .2ppm.
- 1 ea. Model 60.72.905 Unit anchoring kit, for size L and XL

ITEM #21 SPARE

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ITEM #22140BILE WORKTABLE WITH UTENSIL DRAWER

Quantity Two (2) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI Fabricated assembly in length and configuration as shown on

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Work area top to be 14-gauge stainless steel with 2" turn down on all four sides.
- B. Provide and install 16-gauge stainless steel tubular legs, stainless steel welded leg sockets, and fully welded stainless-steel cross rail bracing. Provide 16-gauge stainless steel undershelf as shown.
- C. Provide swivel expanding stem casters Component Hardware Group, Inc. (4) ea. Model CMS4- 4GBN brake model.
- D. Provide (2) ea. utensil drawer Component Hardware Group, Inc. Model S90-0020N drawer mounted to the underside of mobile worktable Item No. 15. Provide all necessary hardware mounting angles etc. for a complete installation. Slides to be installed so drawer will roll closed when released.

ITEM #23 BUN / SHEET PAN RACK

Quantity: Three (3) Manufacturer: Cambro (or equal) Model: UPR1826FA40580 Status: CFCI

Camshelving® Ultimate Sheet Pan Rack, 25-1/2W x 32-1/6"L x 71-7/8"H, full size unit, 1-1/2" rail spacing, molded positioning ribs, (40) full-size Camtray® (1826) or (80) half-size Camtray® (1318) capacity, temperature range -36°F (-38°C) to 190°F (88°C), 55 lbs. per shelf/350 lbs. per rack, (2) locking (2) non-locking 5" center-stem non-marking metal swivel casters, composite plastic, brushed graphite (ships fully assembled)

- Accessories:
- 3 ea. 1 yr standard warranty
- 3 ea. Lifetime warranty against rust and corrosion for frame and rail panels only
- 3 ea. Model GBIRC272162110 GoBag® Rack Cover, 27" x 21" x 62", insulated, nylon, black

ITEM #24 PASS-THRU HEATED CABINET

Quantity: One (1) Manufacturer: Traulsen (or equal) Model: RHF232WP-HHG Status: CFCI

Spec-Line Heated Cabinet, Pass-thru, two-section, stainless steel exterior and interior, standard depth cabinet, half-height glass door or doors with Santoprene® EZ-Clean Gaskets, (3) clear coated adjustable shelves per section, microprocessor controls, 6" adjustable stainless steel legs, NSF, UL rated

Accessories:

- 1 ea. 208/115v/60/1-ph, 15.5 amps, standard
- 1 ea. 3 year service/labor warranty, standard
- 1 ea. Thermometer side: Left door hinged left/right hinged right, standard
- 1 ea. Rear: Left door hinged left/right hinged right, standard
- 1 ea. Fluorescent lights with exterior switch
- 1 ea. Stainless Steel flanged feet, 6" high (set of 4)

≻ Qu	antity: One	(1)	く		
Manufacturer: Traulsen (or equal)					
Mo	del: RHT13	32WPUT-FHG	Z		
Sta	tus: CFCI				
Ref	frigerator, F	'ass-thru Display, one-section, self-contained refrigeration, StayClear™ Condenser, stainless steel)		
> ext	* exterior and interior, standard depth, wide full-height glass door on both sides with EZ-Clean Gaskets, interior				
🖌 ligł	hts, (3) adju	stable wire shelves per section, microprocessor controls, 6" adjustable stainless steel legs, 1/3 hp,	く		
≻ cU]	Lus, NSF		イ		
<u>۲</u>		Accessories:	く		
~	1 ea.	115v/60/1-ph, 8.3 amps, with cord & NEMA 5-15P, standard	く		
~	1 ea.	3 year service/labor, 5 year compressor warranty, standard	く		
	1 ea.	Standard refrigerant, standard	ر ک		
	1 ea.	Non-control side full height glass door, control side full height solid door)		
×	1 ea.	Thermometer side door: hinged on right, standard)		
~	1 ea.	Rear door hinged on right, standard	5		
7	1 ea.	Stainless Steel Flanged legs, 6" high (set of 4)	イ		

ITEM #26 HAND SINK

Quantity: One (1) Manufacturer: Advance Tabce (or equal) Model: 7-PS-68

Status: CFCI

Hand Sink, wall mounted, 14" wide x 10" front-to-back x 5" deep bowl, 20 gauge 304 stainless steel, with splash mounted gooseneck faucet with wrist blades, basket drain, wall bracket, NSF, cCSAus

Accessories:

- 1 ea. Model 7-PS-10 P-trap, heavy duty, 1-1/2", 17 gauge
- 1 ea. Model 7-PS-15 Welded Side Splash, 12"H (installed height), both sides, for hand sinks with 14" wide x 10" front-to-back bowl, splash mounted faucets

ITEM #27 DISPLAY MERCHANDISER, HEATED, FOR MULTI-PRODUCT

Quantity: Two (2)

Manufacturer: Hatco (or equal)

- Model: GRSDS-36D
- Status: CFCI

Merchandising Warmer, countertop, 36" long, (14) rods, pass thru design, with (2) shelves, forward-slanted shelves, pre-focused infrared top heat, tempered glass sides, stainless steel & aluminum construction, 4" legs, 1810 watts, cULus, UL EPH Classified, Made in USA

Accessories:

- 1 ea. NOTE: Includes 24/7 parts & service assistance, call 414-671-6350
- 1 ea. One year on-site parts & labor warranty, plus one additional year parts only warranty on all Glo-Ray metal sheathed elements
- 1 ea. 120v/60/1-ph, 1810 watts, 15.1 amps, NEMA 5-20P (domestic voltage), standard
- 1 ea. Model BLACK Black, designer housing color (available at time of purchase only)
- 1 ea. The color selected is not the default Glossy Gray & is considered custom & is NOT returnable
- 1 ea. Model GRSD36BP 5" Sneeze guard on customer side on 36" wide models, upper shelf, (available at time of purchase only)

1 ea. Model GRSD36BP 5" Sneeze guard on customer side on 36" wide models, lower shelf, (available at time of purchase only) **ITEM #28 SPARE ITEM #29 SPARE** ITEM #30 OPEN DISPLAY MERCHANDISER Ouantity: Three (3) Manufacturer: MVP Group LLC (or equal) Model: KGL-RM-40-S Status: CFCI Grab-N-Go Open Merchandiser, 41"W x 36"D x 65"H, digital temperature, (2) locking rear loading doors, key locking manual front shutter, (2) adjustable shelves, LED lighting in canopy & under all shelves, tempered side glass, black foamed polystyrene end panels, gray PVC coated steel interior & exterior, black steel kick plate, levelling feet, self-contained refrigeration, 5/8 HP, ETL-Sanitation, cETLus Accessories: 1 ea. 1 Year Parts & Labor, 4 additional years on compressor (self-contained units only), standard 1 ea. 120v/60/1-ph, 16.8 amps, cord with NEMA 5-20P standard Silver PVC coated steel front panel, black foamed polystyrene end panels, black steel kick plate, 1 ea. standard Stainless steel interior finish 1 ea. × **ITEM #31.1 CASHIER STATION** Quantity: One (1) Manufacturer: Duke Manufacturing (or equal) Model: TST-46SS Status. CFCI Furnish and set in place per manufacturer's standard specifications and the following: Thurmaduke[™] Solid Top Unit, "Cashier Stand" utility counter, 14ga stainless steel welded frame & 1. supports, 20ga stainless steel body & undershelves, NSF 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 4" on student's side & 2" on operator's side, 33.5" high, 36" deep, water fall edge on cashier's left and right Round cutout with grommet, in counter top for cord pass 4. 5. ADA compliant, open base, wheel chair accessible Millwork style décor panel, Formica (or equal) HPL laminate finish, continuous style over adjacent item, 6. cutout for back light, LED light panel insert mounted & wired to remote switch 7. Raised acrylic décor panel, back lighted, on stainless steel barrel stand offs Electric outlet, mounted in base, with galvanized junction box, duplex receptacle & stainless steel cover, 8. GFCI Duplex NEMA #5-15R 9 6 ft. cord & plug Stainless steel fillers on front & end, angled filler one end, veneer plastic laminate, close gap with item 10. #30 11. Kick Plate on front, back & end, stainless steel, recessed, screw attached

12. Modified length unit

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ITEM #32 SERVING COUNTER

Quantity: One (1) Manufacturer: Duke Manufacturing (or equal) Model: TST-46SS Status: CFCI

Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates.

Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all trayslide bracket locations and additional galvanized channel supports as per detail shown below.

All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control.

Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners

All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty.

- 1. Thurmaduke[™] Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga stainless steel body & undershelves, NSF
- 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
- 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 4" on student's side & 2" on operator's side, 33.5" high, 36" deep, waterfall edge on operator's right end
- 4. Round cutout with grommet, in counter top for cord pass
- Millwork style décor panel, Formica (or equal) HPL laminate finish, cutout for back light, LED light
 panel insert mounted & wired to remote switch
- 6. Raised acrylic décor panel, back lighted, on stainless steel barrel stand offs
- 7. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (2) NEMA #5-15R for item #27
 - (1) NEMA #5-30R for item #30
 - (1) NEMA #5-15R for LED decor lighting
- 8. Kick Plate on front & end, stainless steel, recessed, screw attached
- ✓ 9. Modified length unit

ITEM #32.1A SERVING LINE

Quantity	y: One (1)
Manufa	crurer: Duke Manufacturing (or equal)
Model.	TST-60SS
Status	
> Furnish	and set in place per manufacturer's standard specifications and the following:
1.	Thurmaduke™ Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga
	stainless steel body & undershelves, NSF
2.	6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
3.	Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood
(backer, 1-1/2" eased edge profile, extended 4" on student's side & 2" on operator's side, 33.5" high, 36"
7	deep
4 .	Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit
> 5.	Millwork style décor panel, Formica (or equal) HPL laminate finish, cutout for back light, LED light
>	panel insert mounted & wired to remote switch
6.	Raised acrylic décor panel, back lighted, on stainless steel barrel stand offs
7.	Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (1)
(NEMA #14-20R for item #39
((1) NEMA #5-15R for item #39A
8.	Kick Plate on front, stainless steel, recessed, screw attached
9 .	Install drop-in item #39, mount & wire switch in stainless steel bracket
10.	Fill faucet, single pantry valve & swivel spout
Lu	

ITEM #32.1B SERVING LINE

Quantity: One (1)

Manufacturer: Duke Manufacturing (or equal)

Moder: TST-60SS

Status Check Status Sta

- \cdot 1. ThurmadukeTM Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga
- stainless steel body & undershelves, NSF
- . 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
- 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 4" on student's side & 2" on operator's side, 33.5" high, 36" deep
- 4. Quartz riser, end splash for countertop at wall, 6" high 2CM stone
- 5. Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit
- 6. Millwork style décor panel, Formica (or equal) HPL laminate finish, cutout for back light, LED light panel insert mounted & wired to remote switch
- 7. Raised acrylic décor panel, back lighted, on stainless steel barrel stand offs
- 8. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (1) NEMA #5-15R for item #44
 - (1) NEMA #5-15R for item #43L
 - (1) NEMA #5-15R for LED decor light
- 9. Kick Plate on front, stainless steel, recessed, screw attached
- 10. Install drop-in item #44, mount & wire switch in stainless steel bracket
- Electric Load Center, panel box & cover, circuit breakers, stainless steel wire chase & removable covers, and receptacles wired to panel box

ITEM #33 WORK COUNTER

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: Fabricated Item Status: CFCI Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash at back 2" thick with a 45-degree top edge to wall, turn down ½" at back.
- B. Top to be constructed with square edge 2" turn down at front edge with 1" return back.
- C. Legs to be 16-gauge stainless steel tubular, stainless steel welded leg sockets, stainless steel adjustable feet and stainless-steel cross rail bracing. Provide 16-gauge stainless steel under shelf as shown.
- D. Approximate size: 30" deep x Length as shown.

ITEM #34 WALL MOUNTED OVER SHELF

Quantity: One (1) Manufacturer: Custom (or equal) Model: FABRICATED ITEM Stat: CFCI

- A. To be 16-gauge stainless steel construction, 1 1/2" turn down in front and 2" turn up at back and right end and left ends. Provide 14-gauge stainless steel wall brackets as shown.
- B. Approximate Size: (1) ea.12" deep x length as shown.

ITEM #35 REACH-IN REFRIGERATOR

Quantity: One (1)

Manufacturer: True Mfg. - General Foodservice

Model: STG2R-2G-HC

Stat: CFCI

SPEC SERIES® Refrigerator, reach-in, two-section, (2) glass doors with locks, cam-lift hinges, digital temperature control, (6) gray shelves, LED interior lights, stainless steel front, aluminum sides, aluminum interior, 5" castors, R290 Hydrocarbon refrigerant, 1/2 HP, 115v/60/1-ph, 5.9 amps, NEMA 5-15P, cULus, UL EPH Classified, Made in USA, ENERGY STAR®

Accessories:

- 1 ea. Warranty 7 year compressor (self-contained only), please visit www.Truemfg.com for specifics
- 1 ea. Warranty 3 year parts and labor, please visit www.Truemfg.com for specifics
- 1 ea. Left door hinged left, right door hinged right standard
- 1 ea. (3) vinyl shelves and shelf supports standard per section
- 1 ea. Seismic/flanged legs, 6", set of 4

ITEM #36 WORK COUNTER

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: Fabricated Item

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Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Work area top to be 14-gauge stainless steel with a 14-gauge stainless steel backsplash at back 2" thick with a 45-degree top edge to wall, turn down ½" at back.
- B. Top to be constructed with square edge 2" turn down at front edge with 1" return back.
- C. Legs to be 16-gauge stainless steel tubular, stainless steel welded leg sockets, stainless steel adjustable feet and stainless-steel cross rail bracing. Provide 16-gauge stainless steel under shelf as shown.
- D. Approximate size: 30" deep x Length as shown.

ITEM #37 WALL MOUNTED OVER SHELF

Quantity: One (1) Manufacturer: Custom (or equal) Model: FABRICATED ITEM Stat: CFCI

- A. To be 16-gauge stainless steel construction, 1 1/2" turn down in front and 2" turn up at back and right end and left ends. Provide 14-gauge stainless steel wall brackets as shown.
- B. Approximate Size: (1) ea.12" deep x length as shown.

ITEM #38 PREP SINK

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. One (1) 14-gauge stainless steel formed and welded integral sink, refer to drawings for bowl dimensional requirements. (Diecast sink bows are not acceptable). Sink to be fully welded into counter top of Item #36 Work Counter
- B. Twist waste valve to have support bracket installed as part of fabrication with a minimum of 4" clearance from twist handle.
 Accessories:
- 1 ea. Fisher Model 22209 DrainKing Waste Valve, with flat strainer, 12 GPM drain rate, dual Teflon seals, stainless steel ball, cast red brass body
- 1 ea. Fisher Model 60917 Faucet, backsplash mount, 8" centers, 10" swing spout, lever handles with color-coded indexes, 1/2" NPT male inlets, with elbows, stainless steel, CSA, ADA Compliant
- 2 ea. Fisher Model 5000-2103 Close Elbow, 3/4" female, rough chrome

ITEM #39/HOT / COLD FOOD WELL UNIT, DROP-IN, ELECTRIC

Quantity: 6 (six) Manufacturer: Low Temp Industries (or equal) Model: DI-QSCHP-3 Status: CFCI Hot/Cold/Freeze Food Well, drop-in, 49-1/2"W x 26-3/4"D x 21-16/25"H, 14ga stainless steel top, accommodates (3) 12" x 20" pan size, wired remote, individual wired remote digital controls for hot or cold operation, manifold drain, stainless steel top & wells, galvanized exterior, cULus, ANSI/NSF 4, ANSI/NSF 7

Accessories:

1 ea. 120/208v/60/1-ph, 12.0 amps, NEMA 14-20P

ITEM #40 SNEEZE GUARD W/ LIGHTS

Quantity: Six (6)

Manufacturer: Duke Manufacturing

Modely BGA-1-60

Status: CFCF

Furnish and set in place per manufacturer's standard specifications and the following:

- 1. Food Shield Unit, self serve/full serve adjustable guard one side only, single shelf, 3/8" glass shelf & guard, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners
- 2. LED light under shelf & wired to remote switch in base

ITEM #40A SNEEZE GUARD, STATIONARY

Quantity: One (1)

Manufacturer: Duke Manufacturing (or equal)

Model: BGA-1-60

Status: CFCI

Furnish and set in place per manufacturer's standard specifications and the following:

- 1.Food Shield Unit, self serve/full serve adjustable guard one side only, single shelf, 3/8" glass shelf &
guard, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass
has polished edges & rounded corners
- 2. LED light under shelf & wired to remote switch in base,
- . 3. Radiant Heater, under shelf & wired to remote control in base

ITEM #41.1 SERVING COUNTER, UTILITY

Quantity: One (1)

Manufacturer: Duke Manufacturing

Model: TST-60SS

Status: CFCI

Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates.

Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all trayslide bracket locations and additional galvanized channel supports as per detail shown below.

All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies

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with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control.

Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners

All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty.

Furnish and set in place per manufacturer's standard specifications and the following:

- 1. Thurmaduke[™] Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga stainless steel body & undershelves, NSF
- 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
- 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 4" on student's side & 2" on operator's side, 33.5" high, 36" deep
- 4. Quartz riser, end splash for countertop at wall, 6" high 2CM stone
- 5. Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit
- Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover,
 (1) NEMA #5-15R for item #44
 - (1) NEMA #5-15R for item #43
- 7. Install drop-in item #44, mount & wire switch in stainless steel bracket
- 8. Electric Load Center, panel box & cover, circuit breakers, stainless steel wire chase & removable covers, and receptacles wired to panel box
- 9. Hinged Doors on open side, stainless steel, lift-off hinges, & recessed pulls
- 10. FSEC to coordinate engineered stone color selection with Architect/Owner.

ITEM #41.2 SERVING COUNTER, UTILITY

Quantity: One (1)

Manufacturer: Duke Manufacturing (or equal)

Model: TST-60SS

Status: CFCI

Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates.

Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all trayslide bracket locations and additional galvanized channel supports as per detail shown below.

All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control.

Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners

All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty.

Furnish and set in place per manufacturer's standard specifications and the following:

Furnish and set in place per manufacturer's standard specifications and the following:

- 1. Thurmaduke[™] Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga stainless steel body & undershelves, NSF
- 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
- 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 12" on student's side & 2" on operator's side, 33.5" high, 44" deep
- 4. Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit
- 5. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (1) NEMA #5-15R for item #44
 - (1) NEMA #5-15R for item #43
- 6. Install drop-in item #44, mount & wire switch in stainless steel bracket
- 7. Hinged Doors on open side, stainless steel, lift-off hinges, & recessed pulls
- 8. FSEC to coordinate engineered stone color selection with Architect/Owner.

ITEM #41.3 SERVING COUNTER, UTILITY

Quantity: One (1) Manufacturer: Duke Manufacturing (or equal) Model: TST-46SS Status: CFCI

Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates.

Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all trayslide bracket locations and additional galvanized channel supports as per detail shown below.

All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control.

Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners

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All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing
Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty.
Furnish and set in place per manufacturer's standard specifications and the following:
Furnish and set in place per manufacturer's standard specifications and the following:
1. Thurmaduke[™] Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports,

- 20ga stainless steel body & undershelves, NSF
- 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet
- 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 12" on student's side & 2" on operator's side, 33.5" high, 44" deep
- 4. Round cutout with grommet, in counter top for cord pass
- 5. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (1) NEMA #5-15R for item #42
- 6. Hinged Doors on open side, stainless steel, lift-off hinges, & recessed pulls
- 7. FSEC to coordinate engineered stone color selection with Architect/Owner.

Quantity: One (1)

Manufacturer: Duke Manufacturing (or equal)

Model: TST-60SS

Status: CFCI

Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates.

Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all trayslide bracket locations and additional galvanized channel supports as per detail shown below.

All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control.

Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners

All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty. Furnish and set in place per manufacturer's standard specifications and the following: Furnish and set in place per manufacturer's standard specifications and the following:

Thurmaduke[™] Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 1. 20ga stainless steel body & undershelves, NSF 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet 2. 3. Engineered Stone Countertop, 2cm Silestone (or equal) quartz composite on 3/4" exterior grade wood backer, 1-1/2" eased edge profile, extended 12" on student's side & 2" on operator's side, 33.5" high, 44" deep 4. Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit 5. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover, (1) NEMA #5-15R for item #39 (1) NEMA #5-15R for item #40 Install drop-in item #39, mount & wire switch in stainless steel bracket 6. Fill faucet, single pantry valve & swivel spout 7. 8. Hinged Doors on open side, stainless steel, lift-off hinges, & recessed pulls 9. FSEC to coordinate engineered stone color selection with Architect/Owner. ITEM #41.5 SERVING COUNTER, UTILITY Quantity: One (1) Manufacturer: Duke Manufacturing (or equal) Model: TST-60SS Status: CFCI Thurmaduke Serving Systems cafeteria food service units are provided per item details with engineered stone or 14ga 300 series stainless steel (S.S.) tops with a 2" straight turndown on all sides, corners welded and polished. Tops to be attached to the cabinet body so that no spot weld marks appear. Bodies are constructed of heavy gauge S.S., welded interior channel supports and frame members. Units have matching S.S. bottom and, as specified, intermediate shelves with utility access holes at each end. Bodies are mounted on 6" high S.S. legs with adjustable feet and covered by S.S. kickplates. Body: 30" wide, minimum, cabinet bodies are 20 gauge 300 series S.S. panelized construction with 14 Ga. 300 series S.S. vertical channel supports at all travslide bracket locations and additional galvanized channel supports as per detail shown below. All units include a 20 gauge 300 series S.S. built-in under-shelf with utility access holes and black grommets. 20 gauge 300 series S.S. intermediate shelves where required are welded in position. Cabinets have unitized bodies with stitch welded assembly & enclosed cavities for a vermen proof design. Casters are secured to a 2" x 4" x 2" 12 gauge galvanized inverted channel that runs front to back. Any powder coat painting must be conducted inhouse at the approved manufacturer's facility to ensure quality control. Thurmaduke Serving Systems food shields are tempered 3/8" glass mounted in S.S. adjustable brackets, self serve/full serve adjustable guard one side only, 3/8" glass single shelf, 1-1/4" square stainless steel posts & highlight edges, 1/4" glass end enclosures, tempered glass has polished edges & rounded corners All equipment is to be built to the standards of Thurmaduke Serving Systems as made by Duke Manufacturing Company. All equipment for K-12th grade schools include 2 year limited parts and labor warranty. Furnish and set in place per manufacturer's standard specifications and the following: Furnish and set in place per manufacturer's standard specifications and the following: Furnish and set in place per manufacturer's standard specifications and the following: Thurmaduke™ Solid Top Unit, utility counter, 14ga stainless steel welded frame & supports, 20ga 1. stainless steel body & undershelves, NSF 2. 6" high stainless steel legs, stainless steel adjustable foot, & Flanged Feet © DARDEN ARCHITECTS, INC. 11 40 00 - 33 5/10/2023

- Building and a state of the sta
- 4. Stainless steel riser, end splash for countertop at wall, 6" high
- 5. Countertop cutout, isolation trim ring, stainless steel control panel, and prep to accept drop-in unit
 6. Electric outlet, mounted in base, with galvanized junction box, receptacle & stainless steel cover,
 - (1) NEMA #5-15R for item #39
 - (1) NEMA #5-15R for item #40
- 7. Install drop-in item #39, mount & wire switch in stainless steel bracket
- 8. Fill faucet, single pantry valve & swivel spout
- 9. Hinged Doors on open side, stainless steel, lift-off hinges, & recessed pulls
- 10. FSEC to coordinate engineered stone color selection with Architect/Owner.



TPEM #44/HEATED SHELF FOOD WARMER

Quantity: One (1)

Manufacturer: Hatco (or equal)

Model: HBGB-4818 Status: CFCI

Heated Base Glass Shelf, built-in, 48"L, ceramic glass surface, uniform heat, 100° - 200°F thermostatic control with lighted on/off rocker switch, choice of frame finish, cULus, UL EPH Classified

Accessories:

- 1 ea. XNOTE: Includes 24/7 parts & service assistance, call 800-558-0607
- · 1 ea. 1-Yr Warranty on Blanket Heating Elements against burnout, standard
- 1 ea. 120v/60/1-ph, 850 watts, 7.1 amps, NEMA 5-15P (domestic voltage), standard
- 1 ea. NOTE: Recommended for use in metallic countertop, verify that the material is suitable for temperatures up to 200°F
- 1 ea. Model HBGB-GLASS-BLK Black finished ceramic glass, standard
- 1 ea. Model HBGB-TRIM-BLK Designer Black powder coated trim ring
 - 1 ea. The color selected is considered custom & is NOT returnable
- 1 ea. Model HBGB-BEZEL-BLK Designer black finished bezel, for control box
- 1 ea. The color selected is considered custom & is NOT returnable
- 1 ea. \checkmark Flat top surface, standard
- 1 ea. Thermostat control with lighted rocker switch, standard

ITEM #45 SPARE Spare

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ITEM #46 POS CART

Quantity: One (1) Manufacturer: Serv Smart (or equal) Model: DF-21

ITEM #47 THREE STACK UTENSIL DRAWER UNIT

Quantity: Two (2) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI Fabricated assembly in length and configuration as show

Fabricated assembly in length and configuration as shown on the drawings and shall include the following: To be fabricated of 16-gauge stainless steel complete with the following hardware items. This item to be a part of Item #48 Chefs Counter

- A. Provide stainless steel flush pull, Component Hardware Group, Inc., model no. P63-1012, installed into the 18-gauge double-pan drawer front panel.
- B. Provide stainless steel locks, Component Hardware Group, Inc., model no P30-4781 for each drawer. All drawers are to be keyed alike.
- C. Provide stainless steel full extension slides, Component Hardware Group, Inc., model No. S52-0024. Provide two (2) per drawer. Slides to be installed so drawer will roll closed when released.
- D. Provide stainless steel removable drawer pan. Provide Component Hardware Group, Inc., model No. S81-1520 one (1) per drawer. Pan should be easily lifted out of drawer frame for cleaning.
- E. Drawer face panel to be constructed of 16-gauge stainless steel double pan construction. Single metal drawer faces are not acceptable.

ITEM #48 CHEFS SINK

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. Sink to be one (1), 14-gauge stainless-steel formed and welded sink, refer to drawings for bowl dimensional requirements. (Diecast sink bows are not acceptable). Sink to be fully welded into countertop Item #50.
- B. This item is to be included as part of the fabrication of Item #50. Accessories:
- 1 ea. Fisher Model 57657 Faucet, deck mount, 8" centers, 10" swing spout, lever handles with color coded indexes, 1/2" male inlets, stainless steel, ADA Compliant
- 1 ea. Fisher Model 22209 DrainKing Waste Valve, with flat strainer, 12 GPM drain rate, dual Teflon seals, stainless steel ball, cast red brass body
- 1 ea. Fisher 5-year warranty against defects in materials or workmanship, standard
- 2 ea. Fisher Model 5000-2103 Close Elbow, 3/4" female, rough chrome

• <u>ITEM #49 MOBILE WORKTABLE</u>

Quantity: Qng (1) 1 1 1 1 1 1 1 1

Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

A. Work area top to be 14-gauge stainless steel with 2" turn down on all four sides.

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B. Provide and install 16-gauge stainless steel tubular legs, stainless steel welded leg sockets, and fully welded stainless-steel cross rail bracing. Provide 16-gauge stainless steel undershelf as shown.

C.	Provide swivel expanding stem casters Component Hardware Group, Inc. (4) ea. Model CMS4- 4G	βN
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ITEM #50 CHEF'S COUNTER

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: FABRICATED ITEM Status: CFCI

Fabricated assembly in length and configuration as shown on the drawings and shall include the following: To be constructed of 14-gauge stainless steel complete with stainless steel finished ends and back. Provide accessible work area as shown.

- A. Top to be 14-gauge stainless steel complete with 2" turn downs on 4 sides and a working height of 2'-10".
- B. Base section to be 16-gauge stainless steel formed metal construction complete with 16-gauge stainless steel bottom and mid shelves. Provide accessible work area as shown.
- C. Provide 1 5/8" dia. Stainless steel tube legs with Component Hardware Group, Inc. A10-0851 adjustable foot insert.
- D. Provide (2) Component Hardware Group, Inc., model No. R58-1020 double-faced pedestal type electrical outlets with model No. R71-0721 stainless steel face plates. All electrical outlets to be provided with empty conduit all interconnected to one point connection at end of counter.
- E. Items to be included as part of this are items 47, 51, and 52.
- F. Provide adjustable seismic flanged feet. Refer to drawings for configuration and quantity.

ITEM #51 DOUBLE TABLE MOUNTED OVER SHELF

Quantity: One (1) Manufacturer: American Stainless-Steel Corp. (or equal) Model: Fabricated Item Status: CFCI Fabricated assembly in length and configuration as shown on the drawings and shall include the following:

- A. 16-gauge stainless steel shelves mounted on 1 5/8" dia. 16-gauge stainless steel tubular uprights anchored to bottom of base cabinet Item No. 50.
- B. Shelf is to be two tiered and have 1¹/₂" turned-down edge on all sides. Countertop of Item #50 to be coved up around the tubular uprights where the uprights penetrate the top.

ITEM #52 POT RACK

Quantity: One (1) Manufacturer: Eagle Group (or equal) Model: TM60PR Status: CFCI

Pot Rack, table mount, 52"W x 20"D, triple-bar design with tubular table supports, constructed of 3/16" x 2" stainless steel flat bar, includes (15) double-pronged pot hooks, for 60"W table, NSF. Pot rack to extend to base

of item #50 and be fully welded. Countertop of Item #50 to be coved up around the tubular uprights where the uprights penetrate the top.

Accessories:

25 ea. Model 300696 Pot Hook, stainless steel

ITEM #53 PIZZA PREPARATION REFRIGERATOR

Quantity: One (1) Manufacturer: True Mfg. (or equal) Model: TPP-AT-60-HC Status: CFCI

Pizza Prep, 33 - 41°F pan rail, stainless steel cover, 19-1/2"D cutting board, (2) full doors, (4) PVC coated adjustable wire shelves, includes: (8) 1/3 size clear polycarbonate insert pans (top), stainless steel front, top & sides, aluminum interior with stainless steel floor, 5" castors, front breathing, R290 Hydrocarbon refrigerant, 1/4 HP, 115v/60/1-ph, 3.9 amps, NEMA 5-15P, UL EPH Classified, cULus, CE, Made in USA

Accessories:

1 ea. Self-contained refrigeration standard

1 ea. Warranty - 7 year compressor (self-contained only), please visit www.Truemfg.com for specifics

1 ea. Set of four (four) seismic flanged feet.

END OF SECTION

HAZARDOUS MATERIALS PROCEDURES

SECTION 022600 – HAZARDOUS MATERIALS PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Provide all material, labor, equipment and services necessary to provide Hazardous Materials Procedures, accessories and other related items necessary to complete the Project as indicated by the Owner provided Testing Reports and Abatement Procedures.
 - a. Refer to the Appendix that contains Testing Reports and Abatement Procedures for materials, location, and scope of the Work.
 - 2. Testing Reports and Abatement Procedures have been prepared by the Owner and incorporated into the Project Manual. The Architect and Architect's consultants have no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials in any form at the Project Site.
 - a. The Contractor and all subcontractors shall agree to bring no claim for negligence, breach of contract, indemnity or otherwise against the Architect (principals and employees), agents and consultants if such claim in any way involves or is related to any hazardous materials in the Project.
- B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
 - 1. ALL DIVISION 00 SPECIFICATION SECTIONS.
 - 2. ALL DIVISION 01 SPECIFICATION SECTIONS.
 - 3. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
 - 4. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 REFERENCES

- A. Standards:
 - 1. In accordance with the following standards:
 - a. CAL-OSHA California Occupational Safety and Health Act.
 - b. DOSH Department of Occupational Safety and Health.
 - c. EPA Environmental Protection Agency

1.3 SUBMITTALS

- A. Submit in accordance with Specification Section SUBMITTAL PROCEDURES:
 - 1. Quality Assurance/Control Submittals:
 - a. Provide to the Owner the following requirements:
 - 1) Provide a copy of California Contractor License, and current registration with CAL-OSHA (DOSH) for Asbestos related roof work.
 - 2) Hazardous Material Removal Subcontractor shall provide proof of Workers Compensation, General Liability (\$1,000,000.00 minimum), and professional liability Insurance Certificates which specifically state the insurance will cover Asbestos Abatement.

- 2. Pre-Construction Requirements submittal to the Owner's Representative prior to construction:
 - a. CAL-OSHA Plan of Action per DOSH Registration.
 - b. Illness and Injury Prevention Program.
 - c. Code of Safe Working Practice.
 - d. Hazard Communication Program.
 - e. List of Hazardous Materials Your Company uses.
 - f. Material Safety Data Sheets (MSDS) of All Material required for Project.
 - g. Copy of Project Notices to CAL-OSHA and County EPA office. Post all information at the Project Site.
 - h. Copy of all CAL-OSHA and EPA Citations, (if any) for Asbestos removal during the last 24 months.
- 3. Closeout Submittals in accordance with the following:
 - a. Project Completion Documentation submittal to the Owner's Representative prior to final approval:
 - 1) Daily Air Monitoring reports.
 - 2) Dump Receipts and Notaries Letters.

1.4 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Hazardous Material Removal Subcontractor's Qualifications:
 - a. Engage an experienced Hazardous Material Removal Subcontractor who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
- B. Regulatory Requirements:
 - 1. In accordance with Specification Section REGULATORY REQUIREMENTS, and the following:
 - a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the project is located.
 - b. Other applicable City, County, State and Federal Requirements where the Project is located.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Provide all materials as required to complete the work as indicated by the Owner's Testing Reports and Abatement Procedures.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:

HAZARDOUS MATERIALS PROCEDURES

- 1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual which affect the execution of work under this specification section.
- 2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
- 3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:

- 1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.
- 2. Contractors shall cooperate with other contractors and the Owner in the use of the site facilities and shall adjust their operations to maintain harmonious relations and uninterrupted progress of the Work.

B. Protection:

- 1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.
- 2. Install and maintain shelter as may be necessary to protect completed Work and existing structures from damage and disfigurement by the elements and other natural causes.
 - a. Any portion of Work (or existing facilities) damaged or disfigured prior to final acceptance of the abatement, shall be properly, neatly and satisfactorily reconstructed or repaired and the Project left without defects at final acceptance.

3.3 FIELD QUALITY CONTROL

- A. Provide the Owner's Representative (prior to final acceptance) the following:
 - 1. Provide copies of Daily Air Monitoring of both personal and work areas, completed and tested by an Independent Testing Laboratory.
 - 2. Provide copies of Dump Receipts and Notaries Letter confirming site and amount of debris dumped.
 - a. Burning of combustible materials from demolished work will not be permitted on site.
 - b. Transport materials removed from the work and dispose of off site at legally designated hazardous material dumps.

3.4 CLEANING

A. The Contractor shall at all times keep the premises free from accumulations of waste materials or rubbish caused by its employees or Work, and at the completion of the Work the Contractor shall remove all rubbish from and about the building and all tools, scaffolding and surplus materials and shall leave work "broom clean" (or its equivalent), or in accordance with code requirements (which ever is most restrictive).

END OF SECTION

SECTION 321919 – ORNAMENTAL METAL

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Provide all material, labor, equipment and services necessary to completely install all Ornamental Metal materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.
- B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
 - 1. ALL DIVISION 00 SPECIFICATION SECTIONS.
 - 2. ALL DIVISION 01 SPECIFICATION SECTIONS.
 - 3. 03 30 00 CAST-IN-PLACE CONCRETE
 - 4. 09 91 00 PAINTING
 - 5. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
 - 6. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 REFERENCES

- A. Standards:
 - 1. In accordance with the following standards:
 - a. ASTM American Society of Testing Materials
 - b. AWS American Welding Society
 - c. NAAMM National Association Of Architectural Metal Manufacturers
 - d. NFPA National Fire Protection Association
 - e. UL Underwriters laboratories

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: It is the intention of this section and the drawings to form a guide for a complete and operable system. Any items not specifically noted but necessary for a complete and operable system shall be provided under this section.
 - 1. Lightning Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.
 - 2. Gate system: engineer gate system according to opening width.

1.4 SUBMITTALS

- A. Submit in accordance with Specification Section SUBMITTAL PROCEDURES:
 - 1. Product Data.
 - a. Submit manufacturer's full color range (including any standard, premium and custom colors) for selection by the Architect.
 - 2. Shop Drawings.

ORNAMENTAL METAL

- a. Submit shop drawings showing fabrication and installation of the work of this section including plans, elevations, sections, details of components, and attachments to other units of work.
- b. Provide wiring diagrams for power, signal and control wiring.
- c. Layout of fence and gates with dimensions, details, and finishes of component accessories and post foundations.
- 3. Samples.
 - a. Provide 3 inch square sample of each color selected.
 - b. Provide 12 inch lineal samples of each lineal piece of trim material specified.
- 4. Quality Assurance/Control Submittals:
 - a. Manufacturer's Written Instructions:
 - 1) Submit three (3) copies of manufacturer's written instructions.
- 5. Closeout Submittals in accordance with the following:
 - a. Maintenance Data in accordance with Specification Section PROJECT CLOSEOUT.
 - 1) For gate operators to include in maintenance manuals.
 - b. Operation Data in accordance with Specification Section PROJECT CLOSEOUT.
 - c. Record Documents in accordance with Specification Section RECORD DOCUMENTS.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Material Qualifications:
 - a. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 - b. UL Standard: Provide gate operators that comply with UL 325.
 - 2. Installer Qualifications:
 - a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
 - 3. Manufacturer/Supplier Qualifications:
 - a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.
- B. Regulatory Requirements:
 - 1. In accordance with Specification Section REGULATORY REQUIREMENTS, and the following:
 - a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the project is located.
 - b. Emergency Access Requirements: Comply with requirements of authorities having jurisdiction for automatic gate operators on gates that must provide emergency access.

1.6 PROJECT CONDITIONS

A. Existing Conditions:

ORNAMENTAL METAL

- 1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.
- 2. Conduct work so as not to interfere unnecessarily with adjacent roads, streets, drives and walks.

1.7 OWNER'S INSTRUCTIONS

- A. Provide the services of a factory-authorized service representative to provide start-up service and to demonstrate and train the Owner's maintenance personnel as specified below:
 - 1. Test and adjust controls and any safeties. Replace damaged or malfunctioning controls and equipment.
 - a. Upon project completion and acceptance, the subcontractor shall issue Owner a warranty against defective workmanship and materials.

1.8 WARRANTY

- A. Contractor's General Warranty:
 - 1. In accordance with Specification Section WARRANTIES.
- B. Manufacturer's Warranty:
 - 1. In accordance with manufacturer's written standard warranty that includes language indicating the products will be free from cracking, peeling, blistering and corroding as indicated for the Warranty Period:
 - a. Warranty Period Fifteen (15) Years.
- C. Installer's Warranty:
 - 1. In accordance with the terms of the Specification Section WARRANTIES:
 - a. Warranty period One (1) Year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers and substitutions must still comply with the requirements of this project and the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed or substitutions are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
 - 1. Specified product manufacturer, or approved equivalent:
 - a. BUILDERS FENCE COMPANY.
 - b. Acceptable alternative manufacturers:
 - 1) AMERISTAR.
 - 2) MASTER HALCO.
 - 2. Specified hinge product manufacturer, or approved equivalent:
 - a. McMASTER-CARR.

B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

- A. Steel and Iron, typical:
 - 1. Plates, Shapes, and Bars: ASTM A 36 "Standard Specification for Carbon Structural Steel."
 - 2. Bars (Pickets): Hot-rolled, carbon steel complying with ASTM A 29 "Specification for Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for," Grade 1010.
 - 3. Tubing:
 - a. Galvanized-Steel Sheet: ASTM A 653 "Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot-Dip Process," structural quality, Grade 50, with G90 coating.
 - 1) Posts zinc coated outside and painted inside, are unacceptable.
 - 4. Steel Sheet:
 - a. Galvanized-Steel Sheet: ASTM A 653 "Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot-Dip Process," structural quality, Grade 50, with G90 coating.
 - b. Uncoated Steel Sheet:
 - Hot-Rolled Steel Sheet, ASTM A 1011 "Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength," Structural Steel, Grade 45.
 - Cold-Rolled Steel Sheet, ASTM A 1008 "Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable," Structural Steel, Grade 50.
 - 5. Bars: Hot-rolled steel strip, ASTM A 1011 "Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength," Commercial Steel, Type B.
 - 6. Castings: Either gray or malleable iron unless otherwise indicated.
 - a. Gray Iron: ASTM A 48 "Specification for Gray Iron Castings," Class 30.
 - b. Malleable Iron: ASTM A 47 "Specification for Ferritic Malleable Iron Castings."

2.3 COMPONENTS

- A. Fence:
 - 1. Posts (Line, End, Corner, and Gate):
 - a. Provide Square Tubing.
 - b. Metal shall be Steel Sheet, hot-dip galvanized after fabrication.
 - c. Size shall be per drawings.
 - d. Cap top of posts with flat style formed galvanized metal, weather tight closures. Weld to posts.
 - 2. Rails (Top, Intermediate, and Bottom):
 - a. Provide Square Tubing.
 - b. Metal shall be Steel Sheet, hot-dip galvanized after fabrication.
 - c. Size shall be per drawings.
 - 3. Pickets:
 - a. Provide Square Tubing.
 - b. Metal shall be Steel Sheet, hot-dip galvanized after fabrication.

- c. Size shall be per drawings.
- d. Cap top and bottom of pickets with flat style formed galvanized metal, weather tight closures. Weld to pickets.
- B. Gates:
 - 1. Frames for man-gates and service gates:
 - a. Provide Square Tubing.
 - b. Metal shall be Steel Sheet, hot-dip galvanized after fabrication.
 - c. Size shall be per drawings.
 - d. Miter cut and weld gate frames.
 - 2. Truss:
 - a. Provide galvanized 5/8" round diagonal tie-rod and turnbuckle at service gate frames.
 - b. Weld to gate frame
 - 3. Hardware:
 - a. Hinges shall be hot-dipped galvanized with stainless steel pins. Weld hinges to gate post and gate frame. Size and locate hinges to support load of gate plus 400 lbs.
 - 1) At man gates, provide a minimum of 3 heavy-duty butt hinges per leaf.
 - 2) At service gates, provide a minimum of 4 load-rated heavy-duty butt hinges per leaf.
 - b. Closers:
 - 1) Coordinate with Specification Section HARDWARE.
 - c. Exit Device:

1) Coordinate with Specification Section – HARDWARE.

- d. Locksets:
 - 1) Coordinate with Specification Section HARDWARE.
- e. Padlocks:
 - 1) Coordinate with Specification Section HARDWARE.
- f. Drop-Rods:
 - 1) Provide hot-dipped galvanized drop-rod assembly comprised of a minimum of two weld-on guides, two weld-on lock tabs for padlock, two drop-rod ground sleeves, and drop-rod for each service gate leaf.
 - 2) Length of drop-rod as shown on the drawings.
- g. Lockboxes:
 - Provide weldable hot-dipped galvanized steel lockboxes that coordinate with locksets and cylinders as specified in Specification Section -HARDWARE for size.
- h. Strike Strap:
 - 1) Provide weldable hot-dipped galvanized strike strap for each leaf of each gate.

2.4 ACCESSORIES

- A. Accessories:
 - 1. Metal Panels:
 - a. Provide galvanized, perforated metal panels of 16 gage with 3/16" round perforations, staggered at 1/4" centers creating 50% open area. Dimensions as indicated on the drawings.
 - 2. Fasteners:

b.

2.5 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Concrete: Coordinate with Specification Section CAST-IN-PLACE CONCRETE.
- C. Nonshrink Grout: Coordinate with Specification Section CAST-IN-PLACE CONCRETE.

2.6 FINISHES

- A. Galvanized Finish: Clean welds, mechanical connections, and abraded areas and repair galvanizing to comply with ASTM A 780 "Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings."
 - 1. Provide an EM-2 Finish in color as selected by the Architect. Coordinate with Specification Section PAINTING.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Site verification of conditions:
 - 1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual which, affect the execution of work under this specification section.
 - 2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
 - 3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

- A. Coordination:
 - 1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.
- B. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.
- C. Protection:
 - 1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.
- D. Surface preparation:

1. Prepare surface in accordance with manufacturer's written instructions and recommendations.

3.3 INSTALLATION

- A. General:
 - 1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
 - 2. In accordance with approved submittals.
 - 3. In accordance with Regulatory Requirements.
 - 4. Set plumb, level, and square.
- B. Layout:
 - 1. Lines shall be straight and true.
- C. General:
 - 1. Install fence in accordance with manufacturer's written instructions.
 - 2. Space posts uniformly at 8'-0" maximum o.c. unless otherwise indicated.
 - 3. Concrete Set Posts:
 - a. Drill hole in firm, undisturbed or compacted soil.
 - b. Holes shall have diameter 4 times greater than nominal outside dimension of post, and depths approximately 6" deeper than post bottom.
 - c. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads.
 - d. Set post bottom 36" (914 mm) below surface when in firm, undisturbed soil.
 - e. Place concrete around post in a continuous pour.
 - f. Vibrate or tamp for consolidation.
 - g. Protect aboveground portion of posts from concrete splatter.
 - h. Trowel finish around posts and slope to direct water away from posts.
 - i. Gate Posts and Hardware: Set keepers, stops, sleeves and other accessories into concrete.
- D. Weld Installation:
 - 1. Align fence panels between posts. Attach rails to posts by welding. Miter cut rails to fit orientation of posts. Posts shall remain plumb.
 - 2. Weld pickets to rails and gate frames. Spacing per drawings.
 - 3. Pickets and posts shall be plumb. The top of pickets and posts shall be level.
 - 4. Cut bottom of pickets to adjust to walk/ground contour as indicated on the drawings.
 - a. Replug bottoms when cutting to conform to ground/contours.
 - 5. Install gates plumb, level, and secure for full opening without interference.
 - 6. Pickets on gate frame shall be level to fence panels.
 - 7. Install gates to meet swing directions as indicated on the drawings.
 - 8. Attach gate hardware by means, which will prevent unauthorized removal.
 - 9. Adjust gate hardware form smooth operation.
 - 10. Clean welds and grind smooth. Apply galvanizing repair paint. Field paint per paragraph in Part 2 titled FINISHES within this specification section.
- E. Bolt Installation:
 - 1. Check each post for vertical and top alignment, and maintain in position during placement and finishing operation.
 - 2. Align fence panels between posts. Firmly attach rail brackets to posts with 1/4" (6 mm) bolt and lock nut, ensuring panels and posts remain plumb.
 - 3. Do not field-weld.

F. Gate Installation

- 1. Install gates plumb, level and secure for full opening without interference.
- 2. Attach hardware by means, which will prevent unauthorized removal.
- 3. Adjust hardware for smooth operation.

3.4 ADJUSTING

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware, gate operators, and other moving parts.

END OF SECTION
SECTION 323113 - CHAIN LINK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Provide all material, labor, equipment and services necessary to furnish and install Chain Link Fencing, Gates, Fittings and Accessories necessary to complete the Project as indicated by the Contract Documents.
- B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
 - 1. ALL DIVISION 00 SPECIFICATION SECTIONS.
 - 2. ALL DIVISION 01 SPECIFICATION SECTIONS.
 - 3. 03 30 00 CAST-IN-PLACE CONCRETE
 - 4. 31 20 00 EARTHWORK
 - 5. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 **REFERENCES**

- A. Standards:
 - 1. In accordance with the following standards:
 - a. CLFMI Chain Link Fence Manufacturer's Institute

1.3 SYSTEM DESCRIPTION

- A. Fencing Requirements at Preschool and Pre-Kindergarten facilities:
 - 1. General: Fence installation shall eliminate pinch points and sharp elements.
 - 2. Cut all bolt threads flush, maximum two threads exposed.
 - 3. Smooth all rough edges or burrs within fenced play area.
 - 4. Provide plastic caps over all fence fabric edges and wires.

1.4 SUBMITTALS

- A. Submit in accordance with Specification Section SUBMITTAL PROCEDURES:
 - 1. Product Data:
 - a. Posts, Rails, and Fittings.
 - b. Chain link Fabric, Reinforcements, and Attachments.
 - c. Gates, Hardware and Fittings.
 - d. Privacy Slats.
 - 2. Shop Drawings:
 - a. Includes dimension plans, elevations, sections, details, and attachments to other work. Show accessories, hardware, gate operation, operational clearances and footings.
 - b. Include coordination of the work in this section with that of related work of other sections for proper interface of the completed work.

- 1) Coordinate and obtain approvals from the work of other related sections prior to submitting to the Architect.
- 2) Furnish to contractor as noted under Specification Section -CAST-IN-PLACE CONCRETE for installation of:
 - a) Hook Bolts.
 - b) Drop Rod Receiver.
- 3. Quality Assurance:
 - a. Certificates:
 - 1) Materials Certification.
 - 2) Installer's Certification.
- 4. Closeout Submittals in accordance with the following:
 - a. Maintenance Data in accordance with Specification Section PROJECT CLOSEOUT.
 - b. Project Record Documents in accordance with Specification Section PROJECT RECORD Documents.
 - c. Warranty in accordance with Specification Section WARRANTIES.

1.5 QUALITY ASSURANCE

A. Qualifications:

1.

- Manufacturer/Supplier Qualifications:
 - a. Company operating in the United States, having U.S. Manufacturing facility/facilities, experienced in successfully producing/supplying products similar to that indicated for this Project for a minimum of five (5) years and with sufficient production/supply capacity to produce/supply required units without causing delay in the work.
- 2. Installer Qualifications:
 - a. Company with successful experience installing similar projects and products in accordance with ASTM F 567 "Practice for Installation of Chain-Link Fence," and have at least five (5) years of experience.
- B. Regulatory Requirements:
 - 1. In accordance with Specification Section REGULATORY REQUIREMENTS, and the following:
 - a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB)and the Environmental Protection Agency (EPA), in the area where the project is located.
 - b. CBC General Requirements:
 - 1) All gates within the Path of Travel (POT) shall meet all applicable accessible requirement specifications for doors, as defined by DSA/ACS and CBC Requirements.
- C. Certifications:
 - 1. Materials Certification: Complying with current ASTM specifications for all manufacturerer's materials.
 - 2. Installer's Certification: certified in writing by the manufacturer listed herein as qualified to install manufacturer's product (or system) in accordance with manufacturer's warranty requirements.
- D. Preinstallation Meeting
 - 1. Conduct meeting at Project Site.
 - 2. Review coordination of work specified in the Section and elsewhere.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 - 1. Deliver fabric, posts, rails, and other manufactured items so as not to be damaged or deformed. Package materials for protection during transportation and handling.
 - 2. Each length of chain-link fabric shall be tightly rolled and firmly tied.
 - 3. Each roll shall carry a tag showing the class of coating, the specified sire size, the mesh size, the length and height of fabric in the roll, ASTM A 392 "Specification for Zinc-Coated Steel Chain-Link Fence Fabric" and the name of mark of the manufacturer.
- B. Handling:
 - 1. Unload, and store materials in a manner to prevent bending, warping, twisting, and surface damage.
- C. Storage:
 - 1. Stack materials on platforms or pallets, covered with suitable weather tight and ventilated covering to ensure dryness. Do not store materials in contact with other materials that might cause staining, denting, or other surface damage.

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify layout information for chain-link fences, and gates shown on the Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.8 WARRANTY

- A. Contractor's General Warranty:
 - 1. In accordance with Specification Section WARRANTIES.
- B. Manufacturer's Warranty:
 - 1. In accordance with manufacturer's written standard warranty
 - 2. Manufacturer's standard form in which manufacturer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within the specified warranty period.
 - a. Failures include, but are not limited to, deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - b. Installer shall have manufacturers signed Certified Installer Agreement as a rider to the warranty.
 - c. Warranty Period from date of Substantial Completions: Five (5) Years.
- C. Installer's Warranty:
 - 1. In accordance with the terms of the Specification Section WARRANTIES:
 - a. Warranty period Five (5) Years.

PART 2 - PRODUCTS

2.1 **MATERIALS**

- A. Fence:
 - 1. Fabric:
 - a. General: Steel Wire Fabric shall comply with ASTM A 392 "Specification for Zinc-Coated Steel Chain-Link Fence Fabric" and CLFMI Product Manual and with requirements indicated.
 - Steel wire helically wound and interwoven in such a as to provide a 1) continuous mesh without knots or ties.
 - 2) Fabric to be in one-piece heights measured between top and bottom of outer edge of selvage.
 - Wire: b.
 - Standard: Use 9 gage (0.148 inch) copper bearing steel wire. 1)
 - 2) Exception: Use 11 gage (0.120 inch) copper bearing steel wire at all tennis court enclosures.
 - Mesh Size: с.
 - 1) Standard: 2 inch mesh.
 - Exception: Use 1-3/4" mesh at all tennis court enclosures. 2)
 - Fabric Selvage: Knuckled at both top and bottom edges. d.
 - Protective Coating: ASTM A 392 "Specification for Zinc-Coated Steel Chain-Link e. Fence Fabric," Type II Zinc-Coated, Class 2 - 2.0 oz./sq.ft., galvanized by the hot-dip process after weaving.
 - 1) Quality to withstand 6 one minute immersions per ASTM A 239 "Standard Test Method for Locating the Thinnest Spot in a Zinc (Galvanized Coating on Iron or Steel Articles by the Preece Test (Copper Sulfate Dip)."
 - f. Strength: Wire in completed fabric after galvanization to have 7,000 pounds per square inch minimum tensile strength.
 - 2. Posts:
 - General: All posts shall be round, seamless or continuously welded, steel pipe a. complying with ASTM F 1043 "Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework," Group IA, Table 3, Heavy Industrial Fence Framework, schedule 40 pipe per ASTM F 1083 "Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures."
 - Protective Coating: Complying with Type A Zinc Coated, min. 2.0 1) oz./sq.ft, per ASTM A 123 "Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products," for exterior coating and interior coating after fabrication.
 - Zinc Coated, min. 4.0 oz./sq.ft, per ASTM A 653 "Specification for a) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Allov Coated (Galvanealed) by the Hot-Dip Process" for rolled-form shapes.
 - Line, and Terminal (end, corner, pull and gate) Posts: b.
 - 2-3/8 inch O.D. (2.375 inch O.D.) 3.65 pounds per lineal foot. 1)
 - 2-7/8 inch O.D. (2.875 inch O.D.) 5.79 pounds per lineal foot. 2)
 - 3) 3-1/2 inch O.D. (3.50 inch O.D.) 7.58 pounds per lineal foot. 9.12 pounds per lineal foot.
 - 4) 4 inch O.D. (4.00 inch O.D.)
 - 4-1/2 inch O.D. (4.50 inch O.D.) 10.80 pounds per lineal foot. 5)
 - 6) 5-9/16 inch O.D. (5.563 inch O.D.) 14.63 pounds per lineal foot.
 - 6-5/8 inch O.D. (6.625 inch O.D.) 18.99 pounds per lineal foot. 7)
 - 8) 8-5/8 inch O.D. (8.625 inch O.D.) 28.58 pounds per lineal foot.

- 3. Rails:
 - a. General: All rails shall be round, seamless or continuously welded, steel pipe complying with ASTM F 1043 "Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework," Group IA, Table 3, Heavy Industrial Fence Framework, schedule 40 pipe per ASTM F 1083 "Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures."
 - Protective Coating: Complying with Type A Zinc Coated, min. 2.0 oz./sq.ft, per ASTM A 123 "Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products," for exterior coating and interior coating after fabrication.
 - a) Zinc Coated, min. 4.0 oz./sq.ft, per ASTM A 653 "Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot-Dip Process" for rolled-form shapes.
 - b. Top, Horizontal and Bottom Rails:
 - 1) 1-5/8 inch O.D. (1.625 inch O.D.) 2.27 pounds per lineal foot.
- 4. Tension Wire:
 - a. Metallic Coated Steel Wire: Seven gage (0.177 inch diameter), marcelled tension wire complying with ASTM A 824 "Specification for Metallic-Coated Steel Marcelled Tension Wire for Use With Chain Link Fence."
 - Metallic Coating: ASTM A 817 "Specification for Metallic-Coated Steel Wire for Chain-Link Fence Fabric and Marcelled Tension Wire," Type II Zinc-Coated, Class 5 – 2.0 oz./sq. ft., galvanized by hot-dip process.
- 5. Hook Bolts:
 - a. 3/8 inch diameter galvanized steel.
- 6. Tie Wires and Hog Rings:
 - a. Nine gage (0.148 inch diameter) galvanized steel wire, complying with ASTM F 626 "Specification for Fence Fittings." Galvanized minimum zinc coating of 1.2 oz/sq. ft.
- 7. Tension Bars:
 - a. 1/4 inch thick x 3/4 inch galvanized bar steel, complying with ASTM F 626 "Specification for Fence Fittings." Galvanized minimum zinc coating of 1.2 oz/sq. ft. by hot-dip process after fabrication.
- 8. Tension Bands:
 - a. 7/8 inch by 3/32 inch thick minimum galvanized band steel complying with ASTM F 626 "Specification for Fence Fittings." Galvanized minimum zinc coating of 1.2 oz/sq. ft. by hot-dip process after fabrication.
- 9. Truss Rod Assembly:
 - a. 3/8 inch diameter galvanized steel truss rod and galvanized turnbuckle for adjustment in compliance with ASTM F 626 "Specification for Fence Fittings." Galvanized minimum zinc coating of 1.2 oz/sq. ft. by hot-dip process after threading.
 - b. Assembly capable of withstanding a tension of 2,000 lbs.
- 10. Fittings:
 - a. General: In accordance with ASTM F 626 "Specification for Fence Fittings" and shall be hot-dip galvanized with a minimum of minimum of 1.2 oz/sq.ft., of zinc coating of surface area
 - b. Line and Terminal Post Caps: Fabricated from pressed steel or cast iron.
 - 1) Caps shall fit snugly over posts and exclude moisture from inside when tubular post are used.
 - 2) Provide Line Post Cap with loop to receive Tension Wire or Top Rail.
 - c. Rail and Brace Ends: Fabricated from pressed steel or round steel.
 - 1) Shall be provided when horizontal rail or brace are required.
 - d. Top Rail Sleeves: Fabricated from pressed steel or round steel.

- 1) Rail sleeve material shall be a minimum of 0.051 inch in thickness and a minimum of 6 inches in length.
- 2) Sleeve shall be fabricated to prevent movement along the rail.
- e. Rail Clamps: Fabricated from galvanized pressed steel.
 - 1) Line and Corner Boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.
- B. Gates:
 - 1. General: All framing members shall be round, seamless or continuously welded, steel pipe complying with ASTM F 1043 "Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework," Group IA, Table 3 Heavy Industrial Fence Framework, schedule 40 pipe per ASTM F 1083 "Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures."
 - a. All frame corners (perimeter and interior) shall be of welded construction.
 - b. Frame members shall not be spaced no greater than 8 feet apart vertically and horizontally.
 - c. Protective Coating: Complying with Type A Zinc Coated, min. 2.0 oz./sq.ft, per ASTM A 123 "Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products," for exterior coating and interior coating, galvanized after fabrication.
 - 1) Zinc Coated, min. 4.0 oz./sq.ft, per ASTM A 653 "Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot-Dip Process" for rolled-form shapes.
 - 2) Weld joints shall be coated with zinc-rich paint in accordance with ASTM A 780 "Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings."
 - d. Fabric: Shall be the same as specified for the Fence.
 - e. Truss Rod Assembly: Shall be the same as specified for the Fence.
 - 2. Swing Gates:
 - a. General: Gate fabrication shall comply with ASTM F 900 "Specification for Industrial and Commercial Swing Gates."
 - b. Frame: Galvanized.
 - 1) 1-7/8 inch O.D. (1.875 inch O.D.) 2.72 pounds per lineal foot.
 - c. Hardware:
 - 1) Hinges: Galvanized malleable iron or heavy gage pressed steel post and frame hinges.
 - 2) Single Leaf Latch: Positive locking gate latch fabricated of 5/16 inch thick by 1-3/4 inch pressed steel, galvanized after fabrication and shall have provision for a padlock.
 - 3) Double Leaf Latch: 5/8 inch diameter galvanized Drop rod arranged to engage the gate stop. Locking devised shall be constructed so the center drop rod cannot be raised when the gate is locked. Latching devices shall have provision for a padlock.
 - 4) Gate Stop: Fabricated from 1 inch diameter galvanized steel pipe and 2 inch galvanized metal washer.
 - 5) Keepers: Fabricated from galvanized malleable steel Gate Holdback and 1-5/8 inch diameter galvanized pipe with post cap.
 - 6) ADA Gate Lock: Rust-proof aluminum/stainless steel lock assembly with latching mechanism, levers (both sides), key lock (lockable from both sides), keepers (latch or stop), post adapters, spacers, chain-link holders, tension bands and fittings as required.
 - a) Lock cores per Specification Section HARDWARE.

- 7) Exit Door Gate: Galvanized exit door assembly with 16 gage x width as require steel plate, lock box, adjustable receiver bracket, guard and fittings as required.
 - a) Surface mounted Panic Bar per Specification Section HARDWARE.
- 8) ADA Gate Kick-Plate:
- 9) 1/4 inch galvanized steel plate, minimum 10" high x width as required.
- 3. Rolling Gates:
 - a. General: Gate fabrication shall comply with ASTM F 1184 "Specification for Industrial and Commercial Slide Gates."
 - b. Frame:

1)

- 1) 1-7/8 inch O.D. (1.875 inch O.D.) 2.72 pounds per lineal foot.
- c. Pipe Track and Bracket:
 - 1-5/8 inch O.D. (1.625 inch O.D.) 2.27 pounds per lineal foot.
 - a) Galvanized Pipe Track Bracket and fittings as required.
- d. Roller Assembly: Galvanized rear wheels, bolts, nuts, and bracket
- e. Wheel Assembly: Double wheel carrier, galvanized with "U-Bolts" and eight (8) inch hard rubber wheels and fittings as required.
- f. Steel AngleTrack: 1-1/2" x 1-1/2" x 1/8" galvanized steel with welded 3/8 inch diameter "J-Bolts" at 32 inches on center.
- g. Guide Post: Galvanized.
 - 1) 2-7/8 inch O.D. (2.875 inch O.D.) 5.79 pounds per lineal feet.
- C. Privacy Slats:
 - 1. General:
 - a. Direction:
 - 1) Horizontal.
 - 2) Vertical.
 - 3) Diagonal.
 - 4) Horizontal / Vertical screening between 92 percent to 96 percent.
 - 5) Horizontal / Diagonal screening between 94 percent to 96 percent.
 - 6) Double Diagonal screening between 96 percent to 98 percent.
 - b. Width: Sized to fit the direction required, and the gage and fabric used.
 - c. Length: In as long a length as practicable to keep splicing to a minimum.
 - 1) Keep waste to a minimum.
 - 2. Fiberglass Privacy Slats: DURASLATT Fiberglass Fillerstrips, as manufactured by FRP SYSTEMS, for use as screening in chain link fencing, fabricated from a durable, semi-rigid fiberglass reinforced plastic, composed of glass fiber reinforcements, high quality polyester resins, pigments and fillers. Provide all privacy slat accessories (vandal-resistant fasteners and lock strips) as required for a complete and proper installation.
 - a. Material Physical Properties:
 - 1) Flexural Strength: 12,000 psi.
 - 2) Flexural Modulus: 1.0×10^6 psi.
 - 3) Tensile Strength: 8,000 psi.
 - 4) Tensile Modulus: 1.0×10^6 psi.
 - 5) Compressive Strength: 2,000 psi.
 - 6) Flame Spread: Less than 200.
 - 7) Ignition Point: 750 degrees 800 degrees F.
 - b. Thickness: 0.6 inches nominal.
 - c. Width: Sized to fit the direction required, and the gage and fabric used.
 - d. Length: In as long a length as practicable to keep splicing to a minimum.
 - 1) Keep waste to a minimum.

- e. Standard Color: As selected by the Architect from the manufacturer's standard color list.
- f. Custom Color: As directed by the Architect.
- 3. Redwood Privacy Slats: 5/16 inchthick, sized to fit mesh specified for direction indicated.
- 4. Polyethylene Tubular Privacy Slats: Not less than 0.023 inchthick, manufactured for chain-link fences from virgin polyethylene containing UV inhibitor, sized to fit mesh specified for direction indicated; with vandal-resistant fasteners and lock strips.
 - a. Standard Color: As selected by the Architect from the manufacturer's standard color list.
 - b. Custom Color: As directed by the Architect.
- 5. Aluminum Privacy Slats: Not less than 0.01 inchthick, sized to fit mesh specified for direction indicated; with vandal-resistant fasteners and lock strips.
 - a. Standard Color: As selected by the Architect from the manufacturer's standard color list.
 - b. Custom Color: As directed by the Architect.
- D. Concrete:
 - 1. Footings: Site Concrete as specified in Specification Section CAST-IN-PLACE CONCRETE.
 - 2. Non-shrink, Non-metallic Grout: Premixed, factory-packaged, non-staining, non-corrosive, non-gaseous grout complying with ASTM C 1107 "Specification for Packaged Dry, Hydraulic-Cement Grout (Non-shrink)." Provide grout, recommended in writing by manufacturer, for exterior applications.
 - 3. Erosion-Resistant Anchoring Cement: Factor-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure with needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.
- E. Accessories:
 - 1. Plastic Caps, sized to fit securely on fence wire fabric, as manufactured by STOCK CAP, or approved equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, and other conditions affecting performance of the work.
 - 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Layout:

1. Stake locations of fence lines, and terminal (end, corner, pull and gate) posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION

- A. General: Construct and install chain-link fencing in compliance with ASTM F 567 "Practice for Installation of Chain-Link Fence" and more stringent requirements indicated.
- B. Posts:
 - 1. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
 - 2. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - a. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - b. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - 1) Exposed Concrete Footing: Extend 2 inches above grade; shape and smooth to shed water.
 - 2) Concealed Concrete Footing: Stop 2 inches below bottom of material to allow covering top of footing.
 - 3. Terminal Posts: Locate terminal end, corner, gate posts, and locate terminal pull posts at changes in horizontal or vertical alignment of 30 degrees or more, unless noted otherwise.
 - a. End Corner, Pull and Gate Posts shall be braced and trussed for fabric 6 feet or higher, and for fabric 5 feet or higher at fencing without top rail.
 - 4. Line Posts: Space line posts uniformly not to exceed 10 feet on center.
- C. Rails:
 - 1. Top Rail: Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal and gate posts, maintaining plumb position and alignment of fencing. Provide expansion couplings as recommended in writing by fencing manufacturer.
 - a. Supply in lengths approximately 20 feet long and splice rail using top rail sleeves minimum 6 inches long.
 - b. Secure rail to end, corner, pull and gate terminal posts with a brace band and rail end.
 - 2. Brace Rail: Install brace rails between all end, corner, gate, and pull terminal posts and the first line posts, maintaining plumb position and alignment of fencing. Securely attach to post with fittings.
 - a. Locate horizontal braces at mid-height of fabric greater than 72 inches in height, on fences with top rail and at two-third fabric height on fences without top rail.
 - 1) Spacing of brace rails not to exceed 6 feet on center vertically,
 - 3. Horizontal Rail: Install horizontal rails between all line posts, maintaining plumb position and alignment of fencing. Securely attach to posts with fittings.
 - a. Locate horizontal rails at mid-height of fabric 12 foot or higher,
 - 1) Spacing of horizontal rails not to exceed 12 feet on center vertically,
 - 4. Bottom Rails: Install and secure to posts with fittings.
- D. Truss Rod Assembly:

- 1. Diagonally brace all end, corner, pull and gate terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
- 2. Install so posts are plumb when diagonal rod is under proper tension.
- E. Tension Wire:
 - 1. Furnish and be responsible for accurate placement of Hook Bolts for installation in mow strip at mid-point between Line Posts.
 - 2. Pull wire taut, without sags, independently and prior to the Fabric, between the terminal Posts and secured to the terminal Post using a brace band. Secure the tension wire to the chain link fabric with a hog rings a 18 inches on center and to each line post with a tie wire, maintain plumb position and alignment of fencing. Install tension wire in locations indicated before stretching fabric. Provide horizontal tension wire at the following locations
 - a. Extended along bottom of fence fabric. Install bottom tension wire within 4 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
 - b. Hook Tension Wire thru Hook Bolts.
- F. Fabric:
 - 1. Apply Fabric to outside of enclosing framework. Leave a maximum of 2 inches between finish grade or surface and bottom selvage, unless otherwise indicated. Pull Fabric taut and tie to Posts, Rails, and Tension Wires. Anchor to framework so fabric remains under tension after pulling force is released.
- G. Tension or Stretcher Bars: Thread through Fabric and secure to end, corner, pull, and gate Posts with Tension Bands and 5/16 inch diameter carriage bolts at 12 inches on center maximum.
- H. Tie Wire and Hog Rings: Use wire of proper length to firmly secure Fabric to line Posts, Rails, Truss Rod Assembly and Tension Wire per ASTM F 626 "Specification for Fence Fittings."
 - 1. Fasten Fabric to Line Post with Tie Wire at 12 inches on center maximum.
 - a. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric.
 - b. Bend ends of wire to minimize hazard to individuals and clothing
 - 2. Fasten Fabric to Rails (top, brace, horizontal and bottom) with Tie Wire at 18inches on center maximum.
 - 3. Fasten Fabric to Tension Wire with Hog Rings, spaced a maximum of 18 inches on center.
- I. Gates:
 - 1. General: Installation of gates and gate posts in compliance with ASTM F 567 "Practice for Installation of Chain-Link Fence."
 - 2. Gates shall be level, plumb and secure for full operation without interference.
 - a. Attach fabric as for fencing.
 - b. Attach hardware using tamper-resistant or concealed means.
 - c. Furnish and be responsible for accurate placement of ground-set items in concrete mow strips.
 - d. Adjust hardware for smooth operation and lubricate where necessary
 - 3. Swing Gates:
 - a. Gates have a bottom clearance of 3inch in the closed position, grade permitting.
 - b. Hinge and latch offset opening space from the gate frame to the post shall be no greater that 3 inches in the closed position.

- c. Gate leaf holdbacks shall be installed for single gates 5 feet or greater in width and all double gates, unless noted otherwise.
- d. Gates have a bottom clearance of 3inch in the closed position, grade permitting.

J. Fasteners:

- 1. All fasteners shall be installed with the smooth side on the secure side of the fence.
 - a. All bolts shall be peened over to prevent removal of the nut.

K. Privacy Slats:

1. Install in accordance with manufacturer's written requirements, in the color and direction as selected by the Architect. Keep lengths of slats as long as practical, and keep waste to a minimum.

3.4 ADJUSTMENT

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

3.5 CLEAN UP

A. The area of the fence line shall be left neat and free of any debris caused by the installation of the fence.

END OF SECTION



03/28/23 Date:



1" = 10'-0" See L14 for Symbols, Abbreviations, and Notes. 7 8 9 10 11	
7 8 9 10 11	3.
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Agency Approval	
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EMOLITION: Remove Existing building and slab. Disconnect 3. EMOLITION: Remove and Dispose of Existing Chain Link	
EMOLITION: Remove and Dispose of Existing Fence and Gate	
EMOLITION: Remove and Dispose of Existing Pipe Guardrail.	Μ
EMOLITION: Remove portion of Existing Concrete Curb. halt as needed around removed curb.	
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	9 SYMBOLS SYMBOLS SYMBOLS Solution Soluti	Existing Wall Remove Existing Wall Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawing Room Designation Demolition Note Symbol itications section, SELECTIVE DEMOLIT cal Drawings and Specifications aterials, equipment, and finishes indical molition work is indicated, contractor sh ssary for installation of new work. Existi be patched and repaired to match Exist ge resulting from the modernization acti expense to the owner and all surfaces of ut, and patch work in a manner to minifie estoring products and finishes to originate work abuts or aligns with Existing, mails shall match Existing adjacent work in the shed surfaces are cut so that a smooth erminate Existing surfaces along a straid d make recommendation to the architer ON NOTES E DEMOLITION, nd dispose of Existing Privacy Screen. E DEMOLITION, stisting Toilet Paper Dispenser and salv E DEMOLITION,	a) TON, See Plumbing, Mechanical, ted by demolition key notes all remove and reinstall any or all ng area affected by demolition ing construction. vity shall be corrected at no leaned and readied to receive nize damage and to provide al condition. kee a smooth and even transition. exture and appearance. transition with new work is not ght line at a natural line of t. age to Owner.	
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te Masonry Unit Wall. 8" wide remain.	unless otherwise noted.	Q
Studs and Interior Wall materio oof deck. Studs at 16" o.c. un all include Batt Insulation, Sou Gypsum Board, and Cement	als continuous from floor to underside less otherwise noted. Interior Wall Ind Deadening Board, Plywood Plaster/ Ceramic Tile setting bed	
Studs and finish material conti ng. Studs to be braced to und be continuous to roof framing Noted. See Structural for braci	inuous from floor to minimum 6" lerside of roof framing or deck if not or deck. Studs at 16"o.c. Unless ing and extent of Structural	Ρ
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vw.dardenarchitects.com 93711 • T. 559.448.8051 <u>Archi</u>	$\frac{(r_1)}{r_1} + \frac{r_{e_1}}{O_F} = \frac{10 \cdot 3^{1/2^2}}{O_F} + \frac{10}{O_F}$	U
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