

**Construction of Administration Bldg. #1, Multipurpose BLDG #2,  
Kindergarten Bldg. #3, Classroom Bldgs. #4+5 and site work**

**OF**

**STANLEY G. OSWALT ACADEMY  
19501 Shadow Oak Drive  
Walnut, CA, 91789**

**FOR**

Rowland Unified School District  
1830 Nogales Street  
Rowland, CA, 91748

**ADDENDUM NO. 02  
TO  
BIDDING AND CONSTRUCTION DOCUMENTS  
DATE: 02/19/2020**

NOTE TO BIDDING CONTRACTORS:

THE ATTACHED CLARIFICATIONS / ADDENDUM IS TO BE INCLUDED IN THE CONSTRUCTION BIDDING COSTS AND ARE PART OF THE CONSTRUCTION DOCUMENTS.

This addendum must be signed and returned with the bid as proof that you (Contractor) received it. Please make a copy for your records.

Company Name \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

---

**Construction of Administration Bldg. #1, Multipurpose BLDG #2,  
Kindergarten Bldg. #3, Classroom Bldgs. #4+5 and site work**

**OF**

**STANLEY G. OSWALT ACADEMY  
19501 Shadow Oak Drive  
Walnut, CA, 91789**

**FOR**

Rowland Unified School District  
1830 Nogales Street  
Rowland, CA, 91748

<p><b>ADDENDUM NO. 02 TO BIDDING AND CONSTRUCTION DOCUMENTS DATE: 02/19/2020</b></p>
--

Note: The following Addendum shall become part of the contract documents and the bidder shall provide for all work as required by this Addendum. Acknowledge receipt of the Addendum on the Bid Proposal Form.

**NOTIFICATION TO CONTRACTOR OF PROJECT SPECIAL NEEDS AND/OR REQUIREMENTS**

Contractor is hereby advised that during the construction of this Project, the campus will be an active campus with classes in session and administrative personnel working between the hours of 7:00 a.m. and 4:00 p.m., Monday through Friday. Contractors Bid shall include all costs necessary to address and resolve the following conditions during the project:

1. The Project shall be phased in accordance with the Milestone Schedule attached hereto as **Attachment A**. No deviations or revisions will be accepted or considered.
2. The attached "Contractor Work Scope" hereto as **Attachment B** is composed of 172 Work Scope items. All costs associated with the items listed in the attached Work Scope shall be included in the Contractor's bid proposal.
3. Attached are detailed CMSK Drawings that are to be utilized by the Contractor during construction. Contractor is responsible to include all costs to provide, install, maintain and removal of all work detailed in the "CMSK" drawings. All costs for the work shown in the attached CMSK drawings shall be included in Contractors bid proposal. CMSK drawings 1-4 are attached hereto as follows:
  - a. CMSK 01
  - b. CMSK 02
  - c. CMSK 03

---

d. CMSK 04

4. Contractor shall include the scope and all associated costs for work as identified within the Cardinal Environmental Hazardous Materials Inspection Report dated January 8, 2019 included within the bid documents. District shall employ and pay for the services of an Asbestos Monitoring firm. Contractor to coordinate and schedule with the Construction Manager for these services.
5. Contractor shall be advised that prior to the start each phase, the District will require 14 Calendar Days for move out of occupied buildings before commencement of any construction activities can begin.
6. Reference Specification Section 01010 – Summary of Work.
  - a. Replace the existing Section in its entirety with the attached 01010 – Summary of Work.
7. Reference Specification Section 01018 – Owner-Furnished Items.
  - a. Replace the existing Section in its entirety with the attached 01018 – Owner-Furnished Items.
8. Reference Specification Section 01048 – Contractor’s Request for Information.
  - a. Replace the existing Section in its entirety with the attached 01048 – Contractor’s Request for Information.
9. Reference Specification Section 01094 – Definitions.
  - a. Replace the existing Section in its entirety with the attached 01094 – Definitions.
10. Reference Specification Section 01200 – Project Meetings.
  - a. Replace the existing Section in its entirety with the attached 01200 – Project Meetings.
11. Reference Specification Section 01400 – Tests and Inspections.
  - a. Replace the existing Section in its entirety with the attached 01400 – Test and Inspections.
12. Reference Specification Section 01500 - Temporary Facilities and Controls.
  - a. Replace the existing Section in its entirety with the attached 01500 - Temporary Facilities and Controls.
13. Reference Specification Section 11400 – Food Service Equipment.
  - a. Replace the existing Section in its entirety with the attached 11400 – Food Service Equipment.
14. Contractor shall be advised that all required closeout documentation must be submitted at Substantial Completion of each construction phase of the project. Contractor will be required to submit One (1) hard copy organized with labeled tabs by section, in addition to an electronic copy. Closeout documentation shall include, but not limited to the following items for each phase:
  - a. Warranties and Guarantees.
  - b. Operational and Maintenance Manuals.
  - c. Training and In-Services, including attendance sign-in sheets.

- 
- d. Extra Stock and Turn-Over items, including signed transmittals.
  - e. All other closeout documents will be submitted at the final completion of the project.

#### ATTACHMENTS

Attachment A – Milestone Schedule

Attachment B – Contractor Work Scope

CMSK Drawings 01, 02, 03, 04

Specification Section 01010 – Summary of Work

Specification Section 01018 – Owner-Furnished Items

Specification Section 01048 – Contractor's Request for Information

Specification Section 01094 – Definitions

Specification Section 01200 – Project Meetings

Specification Section 01400 – Tests and Inspections

Specification Section 01500 – Temporary Facilities and Controls

Specification Section 11400 – Food Service Equipment

**END OF ADDENDUM NO. 02 ITEMS**

# Oswalt Academy - Milestone Schedule

Task	2021												2022												2023											
	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec		
1 Bid Award - March 2020	█																																			
2 Project Duration - April 2020 thru February 2024	█																																			
3 <i>Phase 1 - Underground Utilities- 6/8/2020 thru 7/31/2020</i>	█																																			
4 Install New Underground Utilites on ES-1.0, ESL-1.0, P1.1	█																																			
5 <i>Phase 2 - West Classroom Bldg - Start April 2020</i>	█																																			
6 Phase 2 - Duration	█																																			
7 Mobilize, Establish Laydown Yard - CMSK 01	█																																			
8 Locate and Cap Existing Utilities, Set Temp. Fencing - CMSK 04	█																																			
9 Site Demo	█																																			
10 Set RUSD Temporary Kitchen Portable - CMSK 02	█																																			
11 West Classroom Bldg - Start Construction	█																																			
12 Set Structural Steel	█																																			
13 Dry in Building - Roof and Walls	█																																			
14 Bring Power and Low Voltage on Line	█																																			
15 Punch List	█																																			
16 Phase 2 - Substantial Completion/District Occupy 7/31/21	█																																			
17 <i>Phase 3 - East Classroom Bldg - Start June 2021</i>	█																																			
18 Phase 3 - Duration	█																																			
19 Locate and Cap Existing Utilities, Set Temp. Fencing - CMSK 04	█																																			
20 Demo Classroom Bldgs - C,D,E,G,H,P1 - Start 6/14/2021	█																																			
21 Site Demo	█																																			
22 East Classroom Bldg - Start Construction	█																																			
23 Set Structural Steel	█																																			
24 Dry in Building - Roof and Walls	█																																			
25 Bring Power and Low Voltage on Line	█																																			
26 Punch List	█																																			
27 Phase 3 - Substantial Completion/District Occupy 7/31/2022	█																																			
28 <i>Phase 4 - Admin, MPR/Kitchen, Kinder Bldgs - Start June 2022</i>	█																																			
29 Phase 4 - Duration	█																																			
30 Locate and Cap Existing Utilities, Set Temp. Fencing - CMSK 04	█																																			
31 Demo Bldgs - A,B,F Start 6/13/2022	█																																			
32 Site Demo	█																																			
33 Administration / Kindergarten Bldgs - Start Construction	█																																			
34 Administration / Kindergarten Bldgs - Set Structural Steel	█																																			
35 Administration / Kindergarten Bldgs - Dry in Building - Roof and Walls	█																																			
36 Admin. / Kindergarten Bldgs - Bring Power and Low Voltage on Line	█																																			
37 Administration / Kindergarten Bldgs - Punch List	█																																			
38 Admin./ Kindergarten - Substantial Completion/Dist Occupy 7/31/2023	█																																			
39 MPR / Kitchen- Start Construction	█																																			
40 MPR / Kitchen - Set Structural Steel	█																																			
41 MPR / Kitchen - Dry in Building - Roof and Walls	█																																			
42 MPR / Kitchen - Bring Power and Low Voltage on Line	█																																			
43 MPR / Kitchen bldg - Punch List	█																																			
44 MPR / Kitch Bldg - Substantial Completion/District Occupy 12/22/2023	█																																			
45 <i>Phase 5 - Parking Lot / Play Field - Start June 2023</i>	█																																			
46 Parking Lot - Duration	█																																			
47 Locate and Cap Existing Utilities, Set Temp. Fencing - CMSK 04	█																																			
48 Existing Parking Lot - Demolition Start 6/12/2023	█																																			
49 New Parking Lot - Substantial Completion/District Occupy 7/31/2023	█																																			
50 Phase 1 Interim Portables - Removal Start 6/19/2023 - CMSK 03	█																																			
51 Demo Portables T44,T45,T46,T47.T48,T49,O-2- Start 6/19/2023	█																																			
52 Play Field Duration	█																																			
53 Play Field - Demo Area 6/26/2023	█																																			
54 Play Field - Start Construction 7/10/2023	█																																			
55 Play Field Hydro Seed 7/24/2023	█																																			
56 Play Field - Punch List	█																																			
57 Play Field - Substantial Completion/District Occupy 9/18/2023	█																																			
58 Project Final Completion Date 2/5/2024	█																																			

## WORK SCOPE SPECIAL CONDITIONS

ITEM	DESCRIPTION
1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
2	The General Contractors shall not proceed, produce or present extra work <b>Time and Material (TM) tickets</b> to the District without a prior approval. A Field Work Directive (FWD) will be issued by the Construction Manager for all extra work that generates approved additional costs against the project. The FWD will be issued prior to start of the extra work. Any extra TM work performed without a FWD will be considered null and void with all related costs borne by the Contractor, not the District.
3	No <b>additional costs</b> are to be presented to the District without strictly following the District General Conditions in the front end specification, Item 9.8 Contractor Notice of Changes: Claims. Where essentially, in a situation the Contractor makes a claim that obligates the District to increase the Contract Price or extend the Contract Time, the Contractor shall notify the Architect and through the Construction Manager, in writing, of such claim within (3) working days from the date the Contractor discovers or reasonably should discover, that an act or error has occurred that may entitle the Contractor to an adjustment of Contract Price and/or Contract Time.
4	The General Contractor shall include in their contract all work identified in the <b>abatement</b> survey and specification documents provided within the contract documents. The District will provide an abatement consultant to monitor and oversee the contractor's abatement contractor.
5	During the course of the project, the General Contractor shall provide the appropriate sized <b>generator</b> , fuel, electrical cords, maintenance and other related items necessary to provide power to maintain the operation of the campus.
6	All Contractors shall fingerprint all employees to meet the Department of Justice ( <b>DOJ</b> ) and Education Code requirements and comply with all requirements of the contract documents for all employees who are physically working on the school sites. A list of fingerprinted employees, on a company letterhead, is to be provided to the Construction Manager prior to the employee reporting to the site. The General Contractor is to have a current, dated, list of fingerprinted employees available on site at all times for reference by the Construction Manager. Verification of compliance must be provided prior to workers arriving on-site. Employees not shown the list will be asked to be leave the site and not commence work until they have completed the fingerprinting procedure.
7	The General Contractor and sub-contractor employees are to wear the proper work and <b>safety attire</b> ; shirts and long pants worn at all times, no offensive graphics to be displayed on employee's clothing. It is preferable for all contractor and sub-contractors to wear company issued attire.
8	The Construction Manager will set the <b>construction hours</b> to meet with the City Ordinances. No construction activity is to take place outside of the predetermined hours (generally from 7am to 3pm as approved by the Construction Manager and subject to change). Gates and work areas are to remained locked until the contractor superintendent or foreman approved by the construction manager arrives on site.
9	The Contractor shall maintain an accurate, neatly drawn and dimensioned, complete set of plans, know as: <b>as-built record drawings</b> . Said drawings shall indicate all concealed work installed in walls, ceilings, underground and other spaces that prohibits visual observation. The Construction Manager will keep the set of as-built plans located in their job trailer. The as-built set is to be updated weekly. Maintenance and upkeep of the as-built set of plans shall be a condition of authorizing the Contractor's progress payments. Submitted payment requests will not be authorized if the as-built drawings are not updated. All requirements referenced in Specification Section 01720, PROJECT RECORD DRAWINGS, shall also apply to the as-built set of plans.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
10	The General Contractor shall designate an on site " <b>safety officer</b> " who shall be responsible for the safety of all Contractor's personnel and his associated subcontractors. Said safety officer is to hold at a minimum an OSHA 10 certification. The designated safety officer shall be onsite at all times during the Contractor's work operations. All Safety procedures and precautions shall fully comply with all OSHA and governing agency requirements. Copies of all accident reports and incident reports shall provided by the Contractor and be immediately issued to the Owner through the Construction Manager.
11	The General Contractor is to have a physical copy of their firm's <b>IIPP (Injury Illness Prevention Plan)</b> and project specific MSDS/SDS (Material Safety Data Sheets) on site as required by CAL-OSHA. Submit all MSDS submittals to the Construction Manager for record.
12	All Contractors shall ensure that all construction <b>areas are safe and secure</b> , with all materials and equipment kept within the construction area at all times. All gates separating construction areas from the campus must remain closed at all times.
13	The General Contractor shall provide and install all additional <b>temporary fencing</b> that is required for work outside and around the phased construction area. It shall be the responsibility of the General Contractor to provide and maintain said fencing. No areas shall be left open or unsafe at any time. This is not an option of the contractor. This is a requirement to ensure a safe and secure site. Specification Section: Division 1, GENERAL REQUIRMENTS, Temporary Facilities and Controls, 01500, 3.09, Item B details shall apply.
14	All construction area <b>gates</b> separating construction areas from existing campus must remain closed at all times.
15	All Contractors are to completely <b>store and secure all materials, tools</b> , and miscellaneous items and render them safe at the end of each day's work. At no time is material or equipment to be stockpiled outside of construction fencing.
16	The General Contractor shall provide and pay for <b>security</b> for all their stored materials, tools and equipment.
17	The General Contractor shall provide an unarmed <b>after hours security service</b> for the entire duration of the project. At a minimum, a uniformed patrol officer shall be provided from 2:30pm to 6am Monday through Friday and 24 hours Saturday, Sunday and Holidays. This individual shall continually walk the entire site and insure all doors and gates are locked at all times. No unauthorized individuals shall be on site during these hours. In addition, the General Contractor shall set up and install a Watchman Clock System, Reliant Plus by Detex (or equal). This system shall have a minimum of 10 checkpoints set up throughout the site. All reports shall be provided to the Construction Manager on a daily basis.
18	Contractor and sub-contractor employees shall follow proper <b>site etiquette</b> . The following actions are prohibited: Student and public interaction and conversing of any kind before, during or after work hours, taking pictures outside of the construction area, playing music anywhere on campus in or outside of vehicles, loitering on site before or after job site work hours.
19	All Contractors shall pay and maintain <b>cell phone service</b> for their project supervisor throughout the duration of this project and provide phone number of the contractors field supervisor for continuous communication with the Construction Manager, Project Architect and RUSD representatives.
20	The General Contractor is responsible to make any and all arrangements to ensure all <b>items are delivered</b> to the job site per the project construction schedule. Time extensions due to fabrication, procurement, lead times will not be considered.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
21	All <b>on site material deliveries</b> , including but not limited to: all building materials, electrical equipment, structural steel, trash trucks and concrete trucks are required to be accompanied with at least two, General Contractor provided, ground employees wearing safety vests and using safety flags. Said on site deliveries are only to take preapproved routes to be determined by the Construction Manager. No on-site deliveries are to be permitted during passing periods or through designated student recess play areas. Student safety will take precedence in all situations and shall not be reason for time extensions and/or extra job related costs.
22	Due to site constraints all Contractors are advised that <b>site storage is limited</b> . Contractors shall schedule the delivery of materials so as not to overload the jobsite space restrictions. All deliveries and placement of all material shall be approved by the Construction Manager. No deliveries are to take place during student drop off (7:30am to 8:30am) and pick up (2:30pm to 3:30pm) times.
23	Upon written notice from the Construction Manager, all <b>storage bins</b> , stored materials and trailers will be moved to a location designated by the Construction Manager within 48 hours for the purpose of site improvements during the course of the project. If this relocation of storage bins is not completed within the timeline given, the materials, storage bins and trailers will be moved at the General Contractor's expense.
24	The Construction Manager will review and approve the <b>placement of all temporary storage containers</b> , trailers and stored materials <u>prior to arrival on site.</u>
25	The General Contractor shall repair any <b>adjacent grades</b> disturbed and/or finishes damaged as a result of the execution of the work. This includes the northwest driveway and drive approach off of Janice Lane, that accesses the construction site.
26	At no time will any contractor drive or park on any <b>concrete flatwork</b> without the consent of the Construction Manager. It will be the General Contractor's responsibility to keep their employees, subcontractors, suppliers, company vehicles, construction related equipment and non-Construction related vehicles off of said concrete. Any damage, tire marks or cracking found at anytime after the violation of this rule, the contractor will be held responsible for the repairs and/or removal of markings.
27	General Contractor shall properly <b>protect existing improvements</b> scheduled to remain when performing work.
28	If required, the Contractor shall carefully remove and reinstall any <b>existing chain link and ornamental iron</b> and/or temporary fencing encountered while installing work and/or obtaining access to the work area to the satisfaction of the Construction Manager. Fencing shall be repaired, relocated, and replaced on a daily basis to ensure continual site security and safety.
29	All Contractors shall <b>utilize suitable equipment for traversing the site</b> , unloading, hauling or relocating of materials, and/or erection of items within this trade regardless of soils conditions or grades at no additional cost or delay to the schedule.
30	All <b>equipment</b> should be operated only by those who have had <b>training</b> and can show proof of training upon request.
31	The General Contractor shall employ a <b>underground utility locator</b> to assist in locating the point of connections as shown in the contract documents to ensure that existing utilities are not damaged during the installation of their work, this includes the use of ground penetrating radar. Point of connections shall be considered as +/- 15' in any given direction and within 8' below finish grade.
32	All Contractors shall provide all <b>job verification and field measuring</b> as may be needed and/or required to ensure that the work is coordinated and fits properly.

### ATTACHMENT B



## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
33	General Contractor shall provide <b>cleanup</b> on a daily basis to ensure a clean, safe & accessible work environment for all trades. Provide a detailed walk through and cleaning at the end of each and every work day. <b>Contractors are to remove and place all their trash, debris and excess materials in their own dumpsters. There will be no community stockpiles of any trash, debris or excess materials allowed on this site.</b>
34	The General Contractor shall provide <b>continual cleanup</b> of existing hard surfaces on a daily basis to comply with the AQMD and SWPPP standards. This shall include but not limited to manual sweeping, wash down or street sweeping of surrounding existing hard surfaces.
35	The General Contractor shall provide for ten (10) <b>general site and building cleanup operations</b> including: manpower, dumpsters and all costs for debris disposal. These clean up operations will take place when directed by the Construction Manager. Each clean up shall consist of (1) 40-yard roll off bin and (4) men for two days each cleanup. This is for any and all items as directed by the construction manager.
36	The General Contractor shall provide a minimum of a (2) three yard trash containers for <b>waste, trash, lunch trash and construction debris</b> . This includes procurement of all hauling permits and/or dump fees which may be required. A 48 hour notice to comply will be issued, if the contractor fails to comply within the given timeline a dumpster will be provided for them and their contract back charged accordingly.
37	The General Contractor shall provide a <b>rough cleaning</b> of each building as requested by the Construction Manager. Sweep out, remove trash and dust prior to painting, which shall include utilizing "clean sweep" or similar product during the sweeping operations.
38	The General Contractor shall provide <b>Final Cleaning</b> per contract documents. Final cleanup of all interior and exterior surfaces will commence after construction of the building and prior to acceptance by the District. Cleanup requirements shall be per the specifications and contract documents, Final Construction/Building Cleanup Requirements.  THIS FINAL CLEANING SECTION STANDS ALONE AND DOES NOT RELIEVE THE PRIME CONTRACTOR OF THEIR CLEANING RESPONSIBILITIES AS NOTED IN THE SPECIFICATIONS
39	The General contractor shall provide final <b>site clean up</b> and power washing of all PCC concrete paving & asphaltic paving prior to the district taking occupancy in each phase. This shall take place at areas of construction, lay down areas and path of travel, to and from, work areas. This work to be performed after school hours or on Saturday. This is to be coordinated around school events and with the Construction Manager.
40	The General Contractor shall provide (1) <b>3 yard dumpster for the Construction Managements use</b> . Dumpster needs to be dumped weekly and will be required throughout the contract duration.
41	The General Contractor is to provide and maintain up to eight (8) 55-gallon <b>trash cans</b> with liners to be located by the Construction Manager for the duration of the project. This includes the disposing of accumulated trash in said trash cans on a daily basis and providing new liners when needed.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
42	The General Contractor is to include in their base bid the cost required to have and operate a <b>water truck</b> for the duration of the project. The water truck is to be used to control dust, water down dirt stock piles, wash down existing surfaces, temporary roads and existing streets on-site and off-site. The water truck is to be on site at all times in order to address SCAQMD and SWPPP requirements. The General Contractor shall be the immediate contact and shall provide a competent operator that is available to operate the truck per the Construction Manager's request 24 hour a day, 7 days a week for the duration of project. The General Contractor is to obtain and install a water meter, per local agencies requirements, as a source of water for filling the truck. The General Contractor shall have a specific line item on the schedule of values that represent the cost for a water truck and operator.
43	The General Contractor shall provide and maintain a <b>street sweeper</b> with an experienced operator as requested by the Construction Manager for purpose of dust control and track out onsite and offsite. The General Contractor shall be responsible for dirt track out generated by work performed by each contractor, including deliveries, hauling off material, vehicle traffic, etc. This shall be for a minimum of 2 hour per day as requested by the construction manager. The General Contractor shall have a specific line item on the schedule of values that represent the cost for a sweeper and operator.
44	The General Contractor shall provide, install and maintain <b>wheel shaker plates</b> across the width of all construction entrance/exit points at an approved location by the construction manager. Barriers are to be set up in order to keep construction vehicles from driving around the plates. If dirt track out becomes an issue on public roads it will be the responsibility of the contractor to address the issue immediately by means of providing and operating a street sweeper to clean the roads to the satisfaction of the Construction Manager. The General Contractor to remove shaker plates from the site and end of the project. Said shaker plate installation shall include items referenced in detail 4/C3.1 in the project plans.
45	The Contractor shall monitor all vehicles (contractors and sub-contractor employees, delivery trucks/vans, salesmen, union representatives, etc.) to ensure that any and all <b>track out</b> is removed and cleaned up within 30 minutes of occurrence regardless of size or amount of track out. If said requirement is not performed within the time line given or the work is unsatisfactorily performed the Construction Manager may contact a street sweeper to complete the required clean-up and back charge the contractors contract a minimum of 4 hours or greater.
46	All Contractors shall provide adequate and proper <b>fugitive dust control</b> during all operations as required by the SCAQMD manual rule and any applicable codes and/or ordinances.
47	All Contractors shall be familiar with and comply with the South Coast Air Quality Management District ( <b>SCAQMD</b> ) standards throughout the duration of the project. Provide adequate and proper fugitive dust control (PM10) during all operations within this Bid Packages scope of work as required by applicable codes and/or ordinances. Comply with the South Coast Air Quality Management District (SCAQMD). This includes but is not limited to machinery, vehicles and/or foot traffic. The Construction Manager reserves the right to shut down job activities until contractor is compliant. This will not be construed as a delay to contract duration or a cost impact to the contractor.
48	Contractors that cause or allow a fugitive dust violation shall be responsible for any and all fines issued by South Coast Air Quality Management District ( <b>SCAQMD</b> ). The General Contractor is responsible for all subcontractors/suppliers/deliveries.
49	Prior to commencement of work, the General Contractors Job Site Superintendent/Foreman shall provide copies of <b>SCAQMD and SWPPPS training certificates</b> to the Construction Manager for job site records.
50	The General Contractor shall comply with all South Coast Air Quality Management District (SCAQMD) standards for the <b>portable buildings</b> on site indicated on the plans to be <b>demolished</b> . This includes capturing the freon from the HVAC units and continually applying water to the units during the operation to minimize air-borne dust.

### ATTACHMENT B

**WORK SCOPE SPECIAL CONDITIONS**

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
51	Due to site constraints, all Contractors are advised that there will be <b>no onsite employee parking</b> available. Contractors are responsible to park offsite, any cost associated with parking arrangements shall be borne by the contractor at no cost to the owner. The existing school parking lot is not to be used under any circumstances.
52	At no time will the General Contractor or subcontractors park their vehicles around or between Buildings. <b>All vehicles will be parked off site.</b> Only vehicles with prior consent of the Construction Manager will be allowed to park on-site. Contractors are also advised that on-site parking is not guaranteed, there may be several times throughout the job progress that contractors may have to park off-site due to weather conditions and/or jobsite space restrictions. When the site becomes muddy, no vehicles will be allowed on site without Construction Manager approval. The cost of any off-site parking or transportation shall be borne by the contractor.
53	All Contractors will be familiar with and will comply to the Storm Water Pollution Prevention Plan ( <b>SWPPP</b> ) included in the Contract Documents. The General Contractor will be responsible to follow this plan as it applies to their work. This includes, but is not limited to: providing proper washout container for all work within your scope requiring such. The contractor shall include procurement and payment of all hauling permits and/or disposal fees which may be required.
54	All Contractors will be expected to understand, supply, and implement all Best Managed Practices (" <b>BMPs</b> ") in relation to their specific scope of work through the course of construction. All waste and washout materials must be properly contained and disposed of offsite. No washout or disposal of cement, plaster, mortar, drywall mud, paint, etc. and wash water (if applicable to scope of work) is to be placed in the storm drain or waste system.
55	The General Contractor shall provide a SWPPP compliant <b>wash out</b> container before the placement of concrete and shall remove said wash out container within 48 hours of notice from the construction manager. Wash out containers are to be water tight and not overfilled.
56	The General Contractor shall furnish, install and continually maintain all <b>temporary erosion control and site drainage</b> measures during the duration of the project. Measures to be per the Storm Water Pollution Prevention Plan (SWPPP) as called out in the Contract Documents, including, but not limited to Erosion Control plans C3.0 and C3.1. This is not an option of the contractor. This work must be in place at the start of the project. Removal of all temporary measures will take place at the completion of the project. Costs for the installation, maintenance and removal shall be included in the General Contractors bid.
57	The General Contractor shall make time to walk and address site <b>SWPPP observations</b> made by the appointed RUSD Environmental Compliance Officer. All material and labor required to address required BMP items shall be provided, installed and removed by the General Contractor's work force. Such SWPPP BMPs items include: but are not limited to: vehicle shaker plates, gravel and/or cobbles, windscreens, wattle rolls, sand bags, temporary asphalt, soil stabilizers, etc.. Requirements are likely to change and be revised in each phase.
58	All Contractors shall comply with all City, State, <b>Local Jurisdictional Agencies</b> , AQMD, Health Department, IID, Walnut Valley Water District, California Regional Water Quality Control Board (SWPPP), and CAL/OSHA requirements and obtain permits as required. The General Contractor shall prepare and submit all necessary paperwork to the City and other governing agencies, as required to obtain an encroachment permit, approved haul route, hauling permits, AQMD permits, and any other requirement that must be complied with so that the work in this Contract can be accomplished.

**ATTACHMENT B**

**WORK SCOPE SPECIAL CONDITIONS**

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
59	The General Contractor shall make the necessary arrangements to coordinate and comply with the local water agency for the purpose on onsite inspections and testing, including but not limited to " <b>cross connection</b> " testing between irrigation and domestic water testing.
60	The General Contractor shall load, properly haul, and legally dispose of <b>petro-mat asphalt</b> generated during the asphalt demo process. This includes procurement and payment of all hauling permits and/or dump fees which may be required and additional trucking fees associated with delivering the spoils to the abatement facility. Petro-mat is defined as the oil saturated, fibrous, sheet material, typically, "sandwiched" between the top and bottom layers of asphalt.
61	It shall be established that any materials delivered " <b>Freight on Board</b> " (FOB) shall be unloaded by the General Contractor. Any discrepancy in quantities or any damage to any items must be acknowledged at the time of delivery. Storage and security of these items shall be borne by the receiving contractor.
62	It shall be established that any contractor delivering materials " <b>Freight on Board</b> " (FOB) shall notify in writing 48hrs prior of delivery to the General Contractor that is receiving these items. Failure to notify may result in deliveries not being accepted. Any cost resulting in unaccepted items shall be the responsibility of the contractor that delivered these items.
63	The General Contractor shall provide and install the required <b>temporary directional signage</b> throughout the campus to notify public and students of revised path of travel to relocated buildings, classrooms and facilities. Sign boards are to be professionally made of 3/4" plywood substrate and painted on both sides with exterior semi gloss white paint and 6" blue lettering. Signs are to be mounted to a driven post in a secure fashion to last throughout the construction period. Upon removal of sign posts the surface area effected is to be patched and repaired to match existing surfaces. Contractor shall be responsible to furnish and install a minimum of (40) signs. Said sign boards will be required for each phase of construction.
64	The General Contractor is to provide and maintain <b>temporary toilets and wash stations</b> for the entire duration of the project per the schedule provided in the Bid Documents. Toilets shall be cleaned twice a week and per OSHA standards. Cleaning times shall be scheduled through the Construction Manager and coordinated with school site activities. A minimum of (8) toilets and (4) for wash stations shall be provided and increased as needed for the amount of manpower on site. Quantity of toilets and hand wash stations shall be determined by the quantity of manpower present on the project at any one time, per OSHA standards and as per the Construction Manager. Coordinate locations of temp toilets and hand wash stations with the Construction Manager. The toilet and hand wash stations shall be secured from being blown over by wind.
65	The General Contractor shall provide, service and maintain (1) <b>separate temporary toilet</b> and (1) wash station that are to be provided for the sole use of the DSA Inspector and Construction Management team, to be located next to the their job trailers.
66	Following return receipt of <b>approved submittals</b> , the General Contractor is responsible to promptly notify the Construction Manager in writing of any questions that are unresolved on approved submittals that will delay delivery. Unless the Owner receives such notice within (3) calendar days of return receipt of submittal by the contractor, all claims for delays shall be invalid.
67	The General Contractor shall notify Construction Manager, in writing, of all <b>inconsistencies in the drawings/specifications</b> and subsequent shop drawings prior to ordering materials.

**ATTACHMENT B**

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
68	The General Contractor shall include all <b>supervision, materials, taxes, delivery costs, equipment, and installation labor</b> required to perform the scope of work as defined herein in full accordance with the Contract Schedule, all of the Contract Documents, and all applicable codes, laws and industry standards.
69	The General Contractor is responsible for coordinating all inspections required for the scope of work. <b>Inspection requests</b> must be made to the DSA Inspector of Record at least forty-eight (48) hours prior to inspection. The General Contractor shall notify DSA Inspector of Record (IOR) of all scheduled inspections and subsequent deficiency or approval status.
70	The General Contractor includes all items consistent, with this <b>scope of work</b> , that are indicated in the complete set of Contract Documents, specifications and addenda. The General Contractor scope of work is not limited to a particular set or part of the Contract Documents but rather the entire set of documents.
71	The <b>District will occupy the site and existing buildings</b> (except the buildings or portions of buildings of the active phasing segment) during the entire construction period. The Contractor shall cooperate with the District during construction operations to minimize conflicts and facilitate District usage. Perform the work so as not to interfere with the District's operations.
72	All contractors be advised that since this is a <b>functioning campus</b> that there will be days throughout the project that are deemed <b>testing days</b> (generally 2 weeks per school year), during these days there may be hours of no disturbance, noise restrictions or equipment use near existing classroom buildings, there will be no loss of production claims filed for these periods. Refer to the RUSD specifications for further information and requirements.
73	the General Contractor will <b>verify conditions</b> related to this scope of work prior to the start of work. The Construction Manager shall be immediately notified in writing of any discrepancies between the Contract Documents and existing conditions. Failure to notify the Construction Manager of any discrepancies prior to start of work will indicate that the Category Contractor concurs that site conditions match the contract documents.
74	The General Contractor shall <b>maintain a project superintendent</b> , as described in RUSD specification section, for the entire time any on-site work is being performed. This includes staffing the job with the approved superintendent while any and all of their subcontractors are on-site.
75	All Contractors are to have <b>onsite supervision</b> at all times in which the contractors firm has employees working on site or in the event that a Subcontractor is on site. Supervision is to be done by a qualified person, who is authorized to make decisions on behalf of the Contractor's firm and is to be accepted by the Construction Manager.
76	All Contractors shall have a <b>foreman on site</b> to oversee the project. The job needs to be manned accordingly to complete each task per the construction schedule within the allotted duration days.
77	All components, equipment, and work including installation shall fully comply with current <b>accessibility codes</b> . The General Contractor shall request specific written direction from Architect and/or Owner before proceeding with any work or ordering any materials that are non-compliant.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
78	The General Contractor must take all necessary precautions to prevent disturbing <b>known or unknown existing</b> (above ground and underground/under slab) <b>utilities</b> , and/or structures not noted to be removed in the scope of work. The General Contractor shall notify the Construction Manager immediately upon disturbing said utilities.
79	<b>Protect existing asphalt and/or concrete, striping and landscape/irrigation.</b> Any and all damage will be the General Contractor's responsibility to remove and/or replace to the Construction Manager's discretion. Re-stripe all areas affected by construction and/or damage. Power wash and clean all areas as required to restore to the original condition before start of construction.
80	All <b>lunch breaks</b> will be taken off site or in construction lay down areas. Absolutely no eating within the buildings will be allowed.
81	All Contractors <b>shall not use any District restrooms, buildings, furniture, drinking fountains</b> or any items within the school during construction operations.
82	Whenever the <b>term "contractor" or "general contractor"</b> is used anywhere within the project manual, drawings, or any addenda (including future addenda), said term shall be interpreted as ultimately applicable to the General Contractor.
83	The Construction Manager & District shall be notified in writing no less than 48 hours prior to any site <b>services, utilities or systems being shut down and/or interrupted</b> . This needs to be coordinated and scheduled through the Construction Manager to be completed on Saturdays or after hours if the site permits.
84	The General Contractor shall <b>remove and replace existing finishes</b> schedule to remain in order to install new work as shown.
85	The General Contractor shall provide <b>soil samples</b> as a submittal in each phase so that planting can take place in each phase as the job progresses.
86	The general contractor is required to <b>video tape all in-services</b> and provide same on a flash drive as part of closeouts. The in-service training video must be done on site and should be made while the appropriate district staff are present and represented in the video. Sign in sheets for all those in attendance are to be provided to the Construction Manager.
87	The General Contractor shall be responsible to include all <b>costs associated with the import or export of soils</b> necessary to achieve final grades in accordance with the contract documents. Stockpile and storage of soil will not be allowed on site between phases. The site does not have enough space to store dirt for future work.
88	The General Contractor shall furnish and install a 3 inch thick, <b>"two sack" concrete slurry</b> mix, to achieve encasement in all trenches, for all buried and backfilled site underground electrical and low voltage conduits in order to provide safety protection of future underground excavation by others. Said slurry mix is to have red dye mixed in to assist in identification of buried power lines. See J/E0.6.0 for spacing details.
89	Provide <b>"pot holing"</b> to locate existing utilities, verify elevations and points of connections prior to installation of new work to verify the possibility and feasibility of connecting and routing of utilities as shown including conflicts with adjacent utilities. Failure to do so, will not relieve the contractor for costs incurred to make the necessary connections or routing of utilities.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
90	<b>Temporary power</b> will not be provided at the beginning of the project, contractors shall provide a generator for power and lighting as needed during the demolition, grading and underground utility operations. Once the project progresses, power can be provided from existing onsite resources. All power lines are to be clear of the path of travel outside of the phased construction area. It will most likely be necessary to provide overhead lines for power.
91	The General Contractor shall provide, install and layout <b>temporary power</b> for the duration of the project. Cost for installation, removal, and maintenance to be included in contractors base bid. The Construction Manager shall approve the placement of all pole locations, wire routing and shall be laid out in planters and not to interfere with scaffolding around the perimeter of the buildings and any site walls. Provide and maintain temporary power as required to perform necessary work. Each pole shall have a light with photo sensor. Black diamond poles shall be used at driveways (minimum of 3) and shall be kicked off in each direction to provide proper support. The General Contractor shall provide power and hookup to the construction managers trailer and inspectors trailer and remove said power at the completion of the project. Note that some areas may need to be hand dug and hand removal once concrete flatwork is poured.
92	The General Contractor shall furnish, install and maintain all <b>temporary construction power related items</b> ; including generators, "Spider Boxes" and extension cords. The cost of power usage to be borne by the District. All other power related costs, with the exception of usage, is to be included in the contractor's bid.
93	At each building, the General Contractor shall furnish, install and maintain <b>temporary interior construction lighting</b> and (1) 50 AMP temporary power box for every 4,000 square feet of floor space. All 50 AMP temporary power cords, portable power boxes, along with interior building light strings shall be maintained until the completion of construction per OSHA Standards. All cost to provide and maintain the lighting shall be part of General Contractors bid. Power boxes will be ran from existing site temp power poles supplied by the General Contractor.
94	The General Contractor shall provide and install all required work for <b>on and off site utility company connection</b> for site power and data. This includes all coordination with said utility company, traffic control, demolition, patching, and all requirements thereof.
95	<b>Caulking and sealants</b> between work in all trades, where specifically noted and otherwise, shall ultimately be the responsibility of the General Contractor to provide.
96	The General Contractor will be responsible to <b>protect all concrete floors and CMU</b> which are exposed. No writing, painting, marking on floors will be permitted.
97	All Contractors shall <b>not mark up any flooring</b> areas with paint or markers where the layout marks may transpose through the finished flooring. The General Contractor will be responsible to remove all layout marks prior to finish flooring installation, this includes all measures that may need to be taken to ensure flooring color unity.
98	The General Contractor shall <b>supply two keys</b> to the Construction Manager for all equipment, boxes, panels or switches, keys shall be supplied at the start of installation of said items. This requirement is in addition to any turn over requirements.
99	All Contractors shall leave there work area in a <b>clean and acceptable condition</b> with all unused martial removed from the work area. This includes sweeping these areas.
100	All Contractors utilizing <b>material that will be staged</b> on site shall schedule with the General Contractor for placement of this material so as not to impede other trades installation of work, flow of work and possible damage to material prior to placement.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
101	No contractor shall use any ink based product for <b>laying out or mark up</b> of any type on walls, floors or painted surfaces. If ink based products are used the General Contractor will bear the cost of replacing the damaged surface.
102	It will be the responsibility of all contractors using motorized man lifts or equipment to <b>inspect the hollow metal jambs</b> and report any damage to the General Contractor before entering the area or building. Cost for repairs are ultimately the responsibility of the General Contractor.
103	Provide all <b>traffic control, barricades, warning lights, signs, signalmen</b> , etc. required for the execution of all work. Prepare and submit traffic control plans and/or pay fees as may be required by the governing authorities.
104	<b>Saw cut existing concrete &amp; paving</b> to provide a smooth edge for patching and/or adjoining new work to existing improvements as required for work. The General Contractor shall be responsible to saw cut/remove and patch back all hardscape areas where utilities are shown to run outside of indicated demolition boundaries. At concrete areas, the removal and replacement shall be joint to joint.
105	If the General Contractor finds it necessary to remove " <b>batter boards</b> " to perform their scope of work, they shall be responsible for the cost to re-establish the "batter boards".
106	The General Contractor shall furnish and install all <b>sleeves</b> required for work.
107	The General Contractor furnish and install <b>thrust blocks / anchor blocks</b> as required for work whether shown or not.
108	After completion of required trenching and backfilling work, the General Contractor shall <b>re-establish the grades</b> back to the existing elevations and conditions. If there are any excess spoils after backfill, the General Contractor shall <b>not stockpile all excess material</b> on site. Verification of grades shall be conducted by the project surveyor as directed by the General Contractor and paid for by the General Contractor. If grades are found not to be re-established to original grades, the cost of verification and re-grading shall be borne by the General Contractor.
109	The General Contractor shall temporarily remove and reinstall upon completion, any <b>temporary safety cables/handrails</b> and any supports necessary to perform work. This includes re-routing as necessary. All areas must have safety precautions in place while cables and or braces are removed.
110	Any area found requiring <b>de-watering</b> in order to perform work shall be performed within the timeline given in a written notice from the Construction Manager.
111	No more than 500 linear feet of <b>trenching</b> shall be permitted to be open at any one time. No trenching shall begin until all parts and materials to be installed are on site. Upon completion of inspections all trenches shall be backfilled before any additional trenching shall be permitted to begin.
112	No contractor shall leave any <b>holes or trenches in an open condition</b> as per Cal OSHA Safety Standards.

### ATTACHMENT B



## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
113	The General Contractor, when pouring concrete, shall be responsible for the <b>protection of all building finishes</b> , finish products, grates, manholes and cleanout covers. Any concrete splatters or residue from tape shall be completely removed by the General Contractor.
114	The General Contractor shall submit <b>expansion/control joint shop drawings</b> with dimensions (if these expansion/control joints are not specifically detailed on the plans) for approval.
115	Construct <b>scaffolding</b> in a manner to ensure all exterior door ways are left accessible for all trades. Remove scaffolding from each area immediately upon completion of work, to permit work and access to these completed locations by other trades.
116	Completely furnish, locate, & properly install all <b>pipe/conduit supports</b> for all roof applied pipe and conduit runs. Pipe/conduit supports shall be compatible with the specified roofing product.
117	The General Contractor shall <b>pothole all utilities</b> to prevent hitting or damaging any underground lines prior to trenching, excavating or grading.
118	The General Contractor will water wash and broom <b>clean all asphalt</b> prior to the installation of any sealcoat and any striping.
119	The General Contractor shall be responsible to demolish and <b>legally haul off the existing asphalt</b> parking lot, including all items not schedule to remain.
120	The General Contractor shall provide and pay for all required <b>permits</b> required for work related to the installation of the drive approaches and associated sidewalks and curbs, this includes but is not limited to: the required demolition and patch of existing curb, gutter, asphalt.
121	The General Contractor shall make all landscape irrigation water point of connections to the <b>existing landscaping irrigation</b> lines that serve perimeter of campus and all other existing irrigation lines called on the landscape plans to remain.
122	The General Contractor shall provide a construction <b>water meter</b> and pay for all jobsite water usage. This meter shall be used throughout the duration of the project by all trades. Allow for as many relocations as needed for phasing and scheduling.
123	The General contractor shall provide and pay for all as-built <b>surveying of structural steel anchor bolts</b> prior to concrete placement and within 24 hours of concrete foundation placement. This surveying shall be done by the Project Surveyor and provided to the Construction Management Company within 24 hours of the survey being completed in CAD & PDF format.
124	The General Contractor shall thoroughly <b>clean the bonding surfaces of all footings</b> including the protruding reinforcing steel from same by sandblasting.
125	The General Contractor shall provide all <b>sandblasting</b> which may be required for work or finishes.
126	The General Contractor shall furnish & install all <b>dry packing</b> of structural and miscellaneous steel, wood, light standards, etc.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
127	The General Contractor shall provide and properly install all <b>bollards or pipe guard posts</b> complete including sleeves (if required) and solid grouting and/or concrete fill after installation.
128	The General Contractor shall furnish & install all <b>concrete stem walls</b> including grouting of all cavities between the stem walls and hollow metal frames. This includes sack and patching the exposed portion of the concrete curb prior to exterior building paint.
129	The General Contractor shall pour a minimum 6" high <b>stem wall</b> at all exterior walls, interior restrooms, kitchens, showers, janitorial rooms and any rooms which have a floor drain whether indicated on the drawings or not.
130	The General Contractor shall properly coordinate all floor <b>concrete seal</b> and curing compounds with applicable contractors for proper adhesion of all required finished flooring products.
131	The General Contractor shall <b>grout all structural steel base plates</b> as required and as applicable.
132	The General Contractor shall be responsible to <b>excavate grades for depressions</b> in the floor slabs to include, but not limited to, depressions for tile floor mortar beds, wheelchair lifts, trench grates and walk-in refrigerator/freezer as indicated in the Contract Documents.
133	The General Contractor shall <b>grout all parking lot and campus light standard base plates</b> as required.
134	The General Contractor shall concrete <b>sack and patch</b> all exposed building concrete curbs and walls prior to paint.
135	The General Contractor shall completely furnish & properly install all pre-cast <b>concrete splash blocks</b> . Concrete splash blocks shall be installed below all down spouts or overflows which discharge directly into landscaping, whether indicated on the drawings or not.
136	The General Contractor shall verify all <b>floor tolerances</b> prior to the acceptance by subsequent trades installation of finishes. The contractor shall be responsible for any grinding or floating of concrete slabs which may be required to be in compliance within tolerances described within the project specifications.
137	The General Contractor shall provide and maintain <b>de-watering</b> operation as required to minimize water ponding immediately after rainfall has occurred, in order to allow areas to dry out as quickly as possible.
138	The General Contractor shall provide <b>floor protection</b> at all interior exposed concrete for protection during construction. This shall include the installation, maintenance and removal as directed by the Construction Manager.
139	The General Contractor shall provide all <b>nuisance weed/overgrowth removal</b> throughout the project during construction inside and outside the fence line, including required disposal. Said weed removal shall be performed on a monthly basis.
140	Once the stairs have been installed, the Contractor shall provide and install <b>2X wood fillers at stair tread</b> pans and landings and shall be responsible to remove and dispose of 2x fillers prior to pouring treads and landings. Said wood fillers shall tightly to provide a safe condition.

### ATTACHMENT B

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
141	The General Contractor shall install and maintain all building <b>temporary safety cables/handrails</b> as required per project safety standards. This shall include the removal of said cables/handrails as needed. This is also required at all elevator pits, depressions, landings, stairs, of any vertical change over 30" in height.
142	At the completion of work, the Contractor shall demonstrate to the satisfaction of the Project Inspector (IOR) and Construction Manager that all <b>floor drains are clear</b> and free of all debris and functioning properly upon completion of the project.
143	At the completion of each phase and substantial completion is accomplished, the Contractor shall demonstrate to the satisfaction of the Project Inspector (IOR) and Construction Manager that all <b>roof drains are clear</b> and free of all roofing debris and functioning properly after completion of work.
144	The Contractor shall ensure coordination with the required <b>roofing thickness</b> for all equipment, curbs, and penetrations through the roof to ensure proper projection as required for the roofing manufacturer warranty.
145	The General Contractor shall supply and install required <b>weather barrier</b> at all areas of associated work. Weather barrier is to be installed upon the request of the Construction Manager so as to "dry in" the requested building areas. Be advised that weather barrier will be required to be installed as soon as the building is ready to be dried in which may result in a extended weather barrier exposure time, contractor shall install weather barrier with this in mind adding additional fasteners to protect barrier from weather exposure, contractor will be responsible to repair any damaged barrier at no additional cost.
146	Provide and install a 5lb. ABC <b>fire extinguisher in all elevator equipment rooms</b> whether indicated on the drawings or not. A surface mounted clip and extinguisher are acceptable in these locations.
147	The General Contractor shall provide and install an <b>additional 10 fire rated lockable access panels</b> 30" x 30" to be located at the discretion of the Construction Manager.
148	The General Contractor shall notify the construction manager prior to <b>accessing above ceiling</b> spaces that require the removal of installed ceiling tile. Contractors that violate this shall assume the replacement cost of any damaged tile in areas affected.
149	The General Contractor shall supply the labor and material to remove, replace and reinstall an <b>additional 5% of each ceiling tile</b> and grid type for trade category damage. This is an addition to the District turnover material.
150	The General Contractor shall <b>paint the interior of the trash enclosure</b> with block fill and two coats of epoxy paint, including the floor per the Health Department requirements whether shown or not.
151	The General Contractor shall <b>paint all PIV, Fire Hydrants, bollards and exposed plumbing pipes</b> . Color to be selected by Architect.
152	The General Contractor shall provide additional <b>touch up coat of exterior</b> building paint (whether or not specified in the project plans and specifications) at all painted surfaces upon completion of the project to ensure acceptable finished product as shown on the project schedule.
153	The General Contractor shall <b>paint the School Logo</b> per 1/A4.1, Note 17. Artwork to be provided by the RUSD.
154	The General Contractor to provide access and a operator for a minimum of 32 hours to the inside of all <b>elevator cars</b> for other Category Contractors to install interior finishes.

### ATTACHMENT B

**WORK SCOPE SPECIAL CONDITIONS**

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
155	The General Contractor shall provide (if necessary) an adequate powered <b>generator for the installation and testing of all elevators</b> . Including cords and or conduit and wire required for connection.
156	The General Contractor shall provide required <b>temporary barricades and or safety railings</b> required for the installation of all elevators.
157	The General Contractor shall provide and install all work shown on the <b>offsite water, sewer and irrigation connections</b> as part of the base bid. The General Contractor shall make connection for all offsite work as shown on the contract drawings and offsite drawings as part of the base bid. The General Contractor shall be responsible for demolition of concrete, asphalt and permanent patch back per City standards. The General Contractor shall provide and pay for all permits and inspections.
158	The General Contractor shall provide associated work for the <b>gas main in coordination</b> with the Gas Company. This includes all required coordination, traffic control, demolition, patch, trenching, backfill, bedding, and all requirements thereof.
159	The General Contract shall paint the interior of all ceiling supply and return <b>HVAC register "cans" flat black</b> .
160	The General Contractor shall provide and install all required 3/4" <b>plywood backboards</b> for the electrical and communication rooms. Sufficient quantity of 3/4" plywood backboards shall be provided and installed so that all devices can be mounted on them. No electrical devices or components are to be directly mounted to the wall unless authorized by the Construction Manager. The Contractor shall include the painting of the backboards.
161	The General Contractor shall provide and install <b>temporary parking lot striping</b> in the event that the parking lot is needed for District use prior to the application of the final asphalt slurry coat. Temporary striping is to include all striping items similar to the final parking lot striping plan, including but not limited to: parking lot stalls, directional arrows, handicap markings, post mounted signs and speed bump markings.
162	The General Contractor shall <b>disconnect and remove the temporary power, switchgear, poles, etc.</b> that currently serve the (12) twelve portables at the Phase-1 interim housing, located at the south end of the site, indicated as T-1 through T-12. The portables are to be made ready for deployment and offsite shipping so that Mobile Modular can pick them up and remove then from the site. This work will be necessary the General Contractor to make the final Phase 5, site improvements.
163	The General Contractor shall be responsible to provide a <b>safe path of travel</b> on site for students, staff and construction employees. The path shall separate the construction employees from the students and staff by means of chain link fencing with privacy and wind screens. Posts for the chain link fencing are to be driven into the ground, not set on tee stands, unless preapproved by the Construction Manager. Wind and privacy screens are to be maintained and keep presentable throughout the project and attached with metal hog rings, not zip ties or wrapped baling wire.
164	The General Contractor shall be responsible to perform all described tasks in the <b>Construction Manager Sketches (CMSK)</b> . The General Contractor is to: provide and install all materials, provide the necessary manpower and equipment and coordinate the timing of execution of the CMSKs with the project Milestone schedule and fully execute the intention of the CMSK. All costs related to the execution of the CMSK shall be included in the General Contractor's base bid and shall not incur extra costs to the District.

**ATTACHMENT B**

## WORK SCOPE SPECIAL CONDITIONS

1	The General Contractor shall include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
165	The General Contractor shall perform all following tasks: <b>Grade the open dirt area</b> , north the West Classroom building, off of the Janice Lane cul-de-sac site entrance, within the District property. The area shall be prepared as an area for the General Contractor jobsite trailer, equipment storage and possibly some material storage containers. Power will need to be provided to the area by the General Contractor. Additional fencing and a lockable gate is to be installed. Privacy/Wind screen is to be installed and maintained on the new and existing fencing. Sand bagging at the perimeter is to be installed around the fence perimeter to control potential storm water runoff. <b>See CMSK 01</b> for additional details.
166	The General Contractor shall: <b>Pick up, load, deliver, set and commission the District provided temporary food service kitchen.</b> The pickup location is in Perris, Ca.. The General Contractor shall hook up all temporary utilities to the portable building. Utilities shall include power, low voltage, data signal, domestic and waste water. (Note - Gas is not required). See plans and specifications for more information (ES-1.0, Notes: 38,39,40,41and C5.0 Notes: 102,115). The General Contractor shall remove and cap plumbing utilities underground, pull out the electrical feeder and signal wires and make a safe disconnection at the panel and IDF's. Demolish the kitchen portable building when construction of new kitchen is complete and ready for use. The district shall have the option to salvage the kitchen equipment prior to demo or leave behind for demo and be given (1) week to remove said equipment. <b>See CMSK 02</b> for additional details.
167	The General Contractor shall: <b>Remove and haul off from the site, the existing asphalt and aggregate base</b> that is placed north of the (12) twelve, Phase 1, portable buildings, T-1 through T-12, located at the south end of the site. Removal and importing of soil is to include all disposal, testing, permits and dump fees, at no additional cost to the District. This work is necessary in order to complete the Phase 5 landscape and site improvements. Provide additional soil, if needed, in order to make final designed grade in the area by means of importing soil if necessary. Perform the necessary grading in the area to make grades as indicated on the plans. <b>See CMSK 03</b> for additional details.
168	The General Contractor shall furnish and install all material and labor related to provide and install all 6' high <b>temporary chain link fence, gates</b> , privacy/wind screen and safety warning signs with driven line posts ("T" stands are not to be used) throughout the campus as needed for construction and student path of travel. All gate locations, quantities and size are to be preapproved by Construction Manager prior to setting. All fencing and associated materials are to be maintained and replaced if needed as directed by the Construction Manager by the contractor throughout the project. Specification Section: Division 1, GENERAL REQUIRMENTS, Temporary Facilities and Controls, 01500, 3.09, Item B details apply. <b>See CMSK 04</b> for additional details.
169	The General Contractor shall furnish and install all material and labor related to improvements indicated on plan pages <b>ES-1.0, ESL-1.0, P1.1.</b> These improvements include, but are not limited to: all utility piping, conduit, feeders, pull ropes, pull boxes, trenching, backfilling, stub outs, caps, compaction, slurry backfilling at underground electrical conduits, underground tracer tape and wire, poles, unistrut supports, electrical boxes and panels, asphalt patching and restriping of existing striping, gas shut off valves. Furnish and install all necessary to improvements, indicated on the plans, for all future phases of work. All Trenching areas to have asphalt replaced, seal coated and restriped, per civil plan and project specifications and standards, prior to the site occupation of staff and students return from the 2020 summer break.
170	The General Contractor shall: Furnish and install the necessary material and labor to establish and remove the all <b>Phases Material Laydown Yards</b> required to serve the construction of all new buildings.
171	The General Contractor shall include in their base bid the removal of abandoned <b>existing underground utility piping</b> which is necessary to achieve over excavation of soil for the construction of the new Phase 2, West Classroom building. Said abandoned material is assumed to minimal and was abandoned in the recent demolition of the (12) twelve, existing portable classroom buildings, located at the area of the future new West Classroom building.

### ATTACHMENT B

**WORK SCOPE SPECIAL CONDITIONS**

1	The General Contractor shall Include <b>ALLOWANCES</b> as listed in the Rowland Unified School District's specification Section.
172	The General Contractor shall understand and pay special attention to the existing and future <b>concrete flatwork, located north of the new West Classroom building</b> , in between the new concrete benches and the existing retaining wall. Said concrete flatwork will be required to access Phases (2) and (3). It is suggested that said area should be not be improved, until it is no longer needed to access the Phase (3) work area and by doing so avoiding damage to newly installed concrete in Phase (2). Said area is to remain concrete (not: dirt, base, cobble or asphalt) in order to control dirt track out from and across the site. Coordination and installation of all improvements in this area are borne to the General Contractor at no additional cost to the District. There shall be no consideration of additional costs, to the District, to make the final improvements in the said area including, but not limited to: patching of existing flatwork, trenching and additional move-ins.

**CMSK 01**  
**Contractor Job Trailer Yard**

Contractor Job  
Trailer Yard  
Approx 30x50

Chain Link Fence  
with Privacy Screen

Contractor Job Trailer

Overhead Power Line

Power Source  
Location

**Contractor Shall Perform the Following:**

1. Set up the General Contractor Yard at the end of Janice Lane.
2. Grade the yard area level to accommodate the placement of the General Contractor Job Trailer. Approximate area of 30'x50'. Export excess soil off site in order to make the necessary grade. Import soil and return the area to it's original grade and provide 90% compaction in the graded area at the end of the project at no additional cost to the District.
3. Set new chain link fencing and a lockable entrance gate. Posts are to be driven into the ground, the use of "T" stands are not permitted. Fencing is to have privacy/wind screen attached with metal "Hog" rings. The fencing and screen is to be maintained and kept presentable throughout the duration of the project and removed at the end of the project at no cost to the District.
4. New sand bags are to be set along the entire interior perimeter of the fence in order to control sediment run off from rain. A minimum of two layers of sand bags are to be installed around the entire interior perimeter. At the cut areas, sandbags are to be set high enough to extend beyond the existing grade to control sediment runoff. All sand bags are to be removed at the end of the project at no additional cost to the District.
5. Place and level 3" of aggregate base across the entire interior of the yard prior to the placement of the trailer, in order to control mud, sediment runoff and track out. The contractor has the option to place asphalt in the yard in lieu of base. Said base and/or asphalt is to be removed off site at the completion of the project at no additional cost to the District.
6. Set tire shakers and cobble at the yard entrance to control track out dirt onto Janice Lane and all other surrounding roadways. The tire shakers shall be wide enough to completely cover the entrance. Make the necessary access provisions at the curb storm drain structures at the yard entrance. In the event of track out, the General Contractor shall immediately provide cleanup by means of a street sweeper. In addition to the General Contractor controlling track out, the Construction Manager shall have the authority to request the use of the General Contractor operated street sweeper at anytime to control the track out if it is present. All temporary improvements in the yard are to be removed at the end of the project, including, but not limited to: wheel shakers and cobble at no additional expense to the District.
7. The Contractor Yard shall acquire power from the existing "S" building as shown here on CMSK 01. The power to the yard is to be ran overhead on the appropriate amount of temporary power poles set and paid for by the General Contractor. All power feed connections and disconnects are to be performed by the General Contractor. All said equipment including, but not limited to: power poles, power lines, breakers, panels are to be removed at the completion of the project at no cost to the District.
8. No activity is to take place in the Contractor Yard outside of job hours without prior approval of the Construction Manager. Noise and nuisance activity is to be kept to a minimum so as not to disturb the surrounding neighbors.

The intent of CMSK 01 is to provide a reasonable location for the General Contractor Yard. Any and all necessary yard items required by the General Contractor are to be provided at no additional cost to the District.

**CMSK 02**  
**Set Temporary Kitchen Facility**

Temporary Asphalt Area

Set Temporary Kitchen Portable Building

**Contractor Shall Perform the Following:**

1. Pick up the (2) RUSD owed Temporary Kitchen portable buildings from the storage yard in Perris, CA, where they are currently being stored and delivery them to the site immediately after school is out of session, June 2020, in the Phase 2 portion of work.
2. Load and prepare the portables for roadway delivery per California highway standards. All required travel permits and associated delivery expenses are to be acquired and paid for by the contractor.
3. All required utilities are to be provided and hooked up to the temporary kitchen facility. Said utilities are to include, but not limited to: Power, low voltage signal, fire alarm, waste and water lines. Note: The kitchen facility does not require a gas feed.
4. Set up a temporary asphalt area around the kitchen portable buildings, with a redwood header perimeter, to allow connection of utilities. Once the kitchen is set and utilities are connected, infill the area with 3" of temporary asphalt up to the buildings. Install the permanent asphalt per the Civil plans and Specifications after the removal of the temporary kitchen facility.
5. Unload, level, securely set and connect together the two portable buildings on the Oswalt site as indicated on here on CMSK 02. All connection seams are to be water tight and per portable building standards. Patch roof at the modular center line with like roofing material. Entrance door access shall meet ADA access requirements and it may necessary to install additional temporary concrete or asphalt in order to achieve the proper ADA access at the door threshold.
6. Provide and hook up the required power and signal per ES-1.0 Notes 38,39,40,41. All required, whether indicated on the plan or not, signal, power feeders and conduit are to be provided to enable and operate all kitchen equipment requirements, including, but not limited to: Lighting, refrigerators, cash registers, fly fans, fire alarms, security, A/C and water heaters.
7. Provide kitchen domestic water and waste lines per C5.0, Notes 102 and 115 and as indicated on P1.2, to the existing Restroom Building. All hook ups are to be provided to existing kitchen fixtures to serve all waste and water needs, including, but not limited to; sinks, toilets, water heaters.
8. Once the new kitchen facility is occupied and in service, the temporary kitchen facility utilities are to be removed and capped off below the ground level. Electric and low voltage lines are to be pulled back and removed at the source: panel, box, cabinet, breaker, etc..
9. Once the trailers are no longer needed and in service, the contractor is to demolish or remove them from the site at no additional cost to the District.

The intent of CMSK 02 is to delivery, set, put into service and remove the District provided temporary kitchen facility.



**CMSK 03**  
**Site Preparation and Demolition at**  
**Temporary Portable Area**



The image is a detailed site plan of a facility. A large, irregularly shaped area in the lower-left quadrant is highlighted in yellow and outlined in red. This area is labeled 'Phase 1 Area'. The rest of the plan shows various buildings, parking lots, roads, and utility lines. A red-bordered box containing a list of contractor requirements is located in the lower-right quadrant of the plan.

**Phase 1 Area**

**Contractor Shall:**

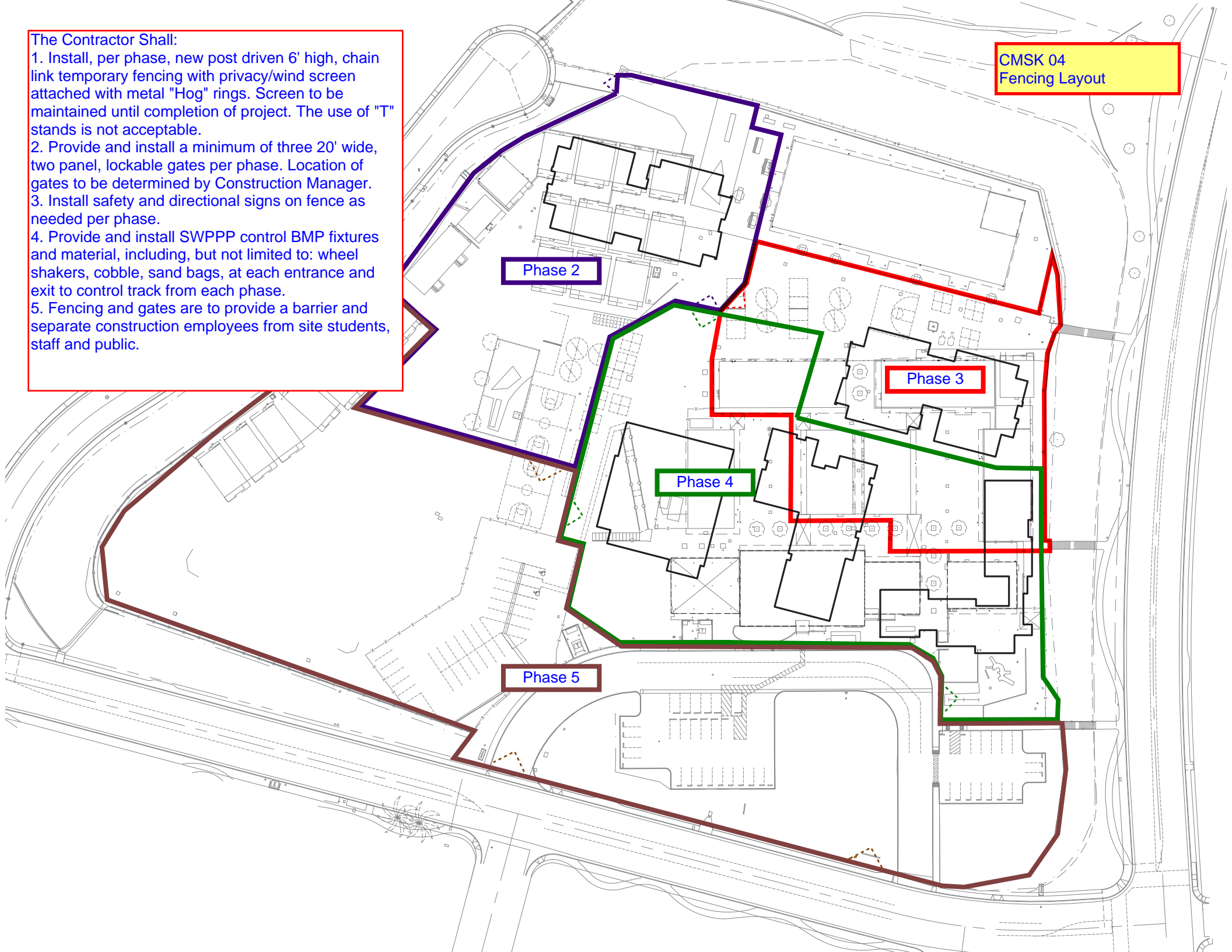
1. Perform all necessary demolition, grading and removal of existing Phase 1 improvements in order to install all planned future Phase 5 improvements in this area.
2. Remove all existing asphalt, aggregate base under the asphalt fire lane turn around and any other material needed to be removed to make final improvements in this area, by means of hauling said material off site to an approved dump site. All trucking and dump fees are to be paid for by the contractor at no cost to the District.
3. Provide the necessary grading in the area to match the final planned elevations. This is to include the import of new fill material and/or export of existing material as needed to make new grade design in Phase 5. If import soil is required to make grade, the import soil is to be tested for site suitability at the expense of the contractor. Said import soil shall meet the project plans, soils report requirements and specifications for the intended use.
4. Disconnect all power and low voltage signal feeds and pull feeders back to the panel, IDF cabinet or electrical box from which the service was provided from. Safe off all disconnections per code requirements.
5. Disconnect and remove all power poles used for overhead power and return them to the District by means of delivering them to a location within the District boundaries or give the District the option to have the poles removed from the site at the contractor's expense.
6. Disconnect all services to the (12) temporary trailers, T-1 through T-12 and make them ready for dismantling and pick up for removal by Mobile Modular, Inc..

Note: The intent of this CMSK 03 directive is to make the temporary portable trailers ready for removal and prepare the area to meet the final planned improvements at no additional cost to the District.

The Contractor Shall:

1. Install, per phase, new post driven 6' high, chain link temporary fencing with privacy/wind screen attached with metal "Hog" rings. Screen to be maintained until completion of project. The use of "T" stands is not acceptable.
2. Provide and install a minimum of three 20' wide, two panel, lockable gates per phase. Location of gates to be determined by Construction Manager.
3. Install safety and directional signs on fence as needed per phase.
4. Provide and install SWPPP control BMP fixtures and material, including, but not limited to: wheel shakers, cobble, sand bags, at each entrance and exit to control track from each phase.
5. Fencing and gates are to provide a barrier and separate construction employees from site students, staff and public.

CMSK 04  
Fencing Layout



SECTION 01010  
SUMMARY OF WORK

1.1 GENERAL

- A. Project Description: The Project consists of RECONSTRUCTION OF THE STANLEY G. OSWALT ACADEMY, in the Rowland Unified School District. The project is located at 19501 Shadow Oak Drive, Walnut, CA 91789. The project is described in the Contract Documents prepared by Z+P Architects.
- B. Description of Improvements: The Work consists of 5-Construction Phases including selective demolition, site utilities & grading, landscape, irrigation, hardscape, construction of Administration/Library Building, Multi-purpose & Kitchen Building/Lunch Shelter, Kindergarten Building, East Classroom Building, and West Classroom Building, plumbing and mechanical systems, electrical lighting and power systems along with signal/communication systems and all miscellaneous work indicated in the plans & specifications as required to complete the project. The school will be operational during the period of construction.
- C. Overall Project Budget: The District's Budget is approximately \$ 35,000,000 for construction.
- D. Cash Allowance: The Contractor shall include in his bid a cash allowance in the amount specified in the Supplementary General Conditions, Article 75, to be used to pay for extra work, approved in accordance with Article 59, Changes and Extra Work. Any unused portions of the Cash Allowance remaining at the end of the project will be deducted from the final construction cost and credited back to Owner in the form of a Deductive Change Order (reducing the total Contract Price by that amount).
- E. Base Bid: The Project consists of one Base Bid.
1. Description of Base Bid:
    - a. Base Bid: This includes all work described in the project plans and specifications (complete).
- F. Basis of Award: The method to determine the lowest bid will be the lowest total of the base bid.
- G. Tentative Project Schedule: The project phasing and tentative project schedule is subject to change at the sole discretion of the Owner, and is as follows:
1. School Board Award of Construction Contract.
  2. Processing and submittal of bonds, agreements, etc. (including OPSC review of low bid package as needed).
  3. Notice to Proceed issued by the District (See section "H" below).
  4. Start of the on-site formal construction schedule.
  5. Completion of Construction.

- H. Phase 0 (Prior to formal start of construction): This is an advance phase of work that will occur prior to the construction contract calendar. This phase of work includes administrative items only. No physical on-site construction activities or mobilization will be permitted. This phase of work includes field verification and measuring. The time shall be used for field measuring, submittal of shop drawings, samples, requests for information (RFIs), etc., to facilitate smooth operations in subsequent construction phases. The time will be used to help procure construction materials, particularly those with long lead times (21 consecutive calendar days).
- I. Work Beyond the Project Schedule: If the project is not completed within the contract schedule, the District may terminate the Contract. At District's sole discretion as an alternative, they may allow (or require) the Contractor to continue working toward completion of the project while assessing liquidated damages. It is possible that the District could take beneficial occupancy of all, or part of the facility prior to Substantial Completion.
1. Hours of Work: Some work may be required to take place after school hours and on weekends. Work on all days is governed by City ordinances. Work on school days may begin no earlier than 7:00 a.m., and will conclude by 4:00 pm the same day.
  2. No utility outages at any site (such as water, power or fire alarm system), may take place during school days. On weekends where utility interruptions are planned, the school and Construction Manager must be given three days prior written notification describing the work taking place, which utilities will be interrupted and the duration of the interruption.
- J. Owner's Use of Site and Premises: Owner reserves the right to occupy and to place and install equipment in completed areas of buildings and site, prior to Substantial Completion, provided that such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
1. A Certificate will be executed for each specific portion of the Work to be used by Owner ("beneficial occupancy") prior to obtaining Certificate of Occupancy from authorities having jurisdiction.
  2. Prior to use of portions of the Work by Owner, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Unless otherwise agreed, Owner will provide operation and maintenance of mechanical and electrical systems in portions of the building used by Owner.
- K. Contractor's Use of Site and Premises: Limit the use of the premises to construction activities, allow for Owner access.
1. Keep driveways and entrances clear at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize requirements for storage of materials.
  2. Keep all tools and building materials in places where they will not be accessible to unauthorized individuals or to vandals so as to not present a safety or security problem at the campus.

3. Remove all debris, excess materials and demolished items from the site promptly so as not to cause safety or security problems.
- L. Owner-Furnished Products: Owner will furnish, for installation by Contractor, products which are identified on the Drawings and in the Specifications as "OFCI (Owner-Furnished/Contractor-Installed)", "installed by General Contractor," or similar terminology. See Drawings for identification of such products, which include, but are not necessarily limited to standard toilet accessories, paper towel holders, etc.
1. Relationship to Work Under the Contract: Work under the Contract shall include all provisions necessary to fully incorporate such products into the Work, including as necessary fasteners, blocking, backing, supports, piping, conduit, conductors and other such provisions from point of service to point of connection and field finishing as shown on Drawings and specified herein.
- M. Work Under Separate Contracts: The Work includes coordination of work being performed by others under separate contracts with Owner. Owner will award separate design and construction contracts concurrent with and after this Contract as determined by the Owner for work listed below and for other work as Owner may determine. Such work under separate contracts may be indicated on the Drawings and in the Specifications as "Not in Contract", "NIC", "Future" or "Under Separate Contract", include but may not be limited to the following:
1. Relocation of Interim Housing Facilities or moving of furniture for construction phase.  
  
Relationship to Work Under the Contract: Work under the Contract shall include all provisions necessary to make such concurrent work under separate contracts complete in every respect and fully functional including field finishing. Provided necessary blocking, backing, supports, piping, conduit, wiremold and other such provisions from point of service to point of connection, as shown on Drawings and specified herein. The Prime contractor will allow a reasonable and mutually agreed upon amount of time within the project contract schedule for installation of these items under separate contract. The work schedule will be shown on the project critical path schedule.
- N. Documents for Work Under Separate Contracts: Owner will make available, in a timely manner, drawings and specifications (if not included herein) of work under separate contracts for coordination and further description of that work. If available, such information will include drawings, specifications, product data, lists and construction schedules for such work. Information concerning work under separate contracts of directly by Owner will be provided for convenience only and shall not be considered Contract Documents. Such drawings and other data required for the coordination of the work of separate contracts with the Work of the Contract may be included with the Contract Documents. If so, they will be for convenience only and shall not be considered Contract Documents provided by Architect or Architect's consultants.
- O. Contractors Staging and Storage Area: The District will designate construction staging. This area is intended to accommodate material storage, staging and preparation activities. It should also accommodate the contractor's construction trailer and other temporary facilities.

The area must be completely fenced and secured with lockage access gates. Ingress and egress to the staging area shall be regulated for the safety of the students and site occupants. Contractors will not drive above the speed of five miles per hour on school grounds. If the site is occupied by students and staff (occupied site) in and out access may be limited to before and after school, and/or to periods when students are inside classroom spaces at the District's sole discretion. If the staging area provided is not adequate for site based activities, the contractor will make arrangements for additional off-site storage, staging and parking areas as part of the bid pricing.

At the completion of construction, the Contractor will demobilize and remove all fencing, temporary access drives and other temporary facilities.

The bid scope shall include full restoration of this area to its pre-construction condition, including turf repair with sod, plant replacement if needed and irrigation system repairs or replacement. Damaged A.C. paving shall be repaired to match existing paving thickness and base. Re-stripe and slurry contractor's storage and work area.

- P. DVBE Requirements: In accordance with Education Code Section 17076.11, the Rowland Unified School District has a participation goal for Disabled Veteran Business Enterprises of a least three percent per year of the overall dollar amount expended each year by the District since the District uses funds allocated to the District by the State Allocation Board pursuant to the Leroy F. Greene School Facilities Act of 1988 for the construction or modernization of schools within the District. Bidders must conform as prescribed in the Information for Bidders and Contract documents to the requirements related to meeting this participation goal.
- Q. Hazard Material Abatement: The Project includes complete hazardous material abatement services by the District's awarded contractor. The district only provides the monitoring services Contractor. The Contractor is responsible for removing and legally disposing of all hazardous materials in accordance with the rules and regulations of all applicable Federal, State and local regulatory bodies so as to protect workers, building occupants and the environment. Refer to the Abatement Specifications prepared directly for the District CF Environmental and AAA Lead Consultants. This is provided for information only. The project Architect and its engineering team did not prepare and are not responsible for the hazardous materials abatement contract documents and abatement.
1. The specified insurance coverages for the designated hazardous material removal contractor will list the School District, Project Architect and all consulting engineers, Project Construction Manager and Prime Contractor (if applicable) as additional insurance for all abatement procedures.
- R. Security: The Contractor will be completely responsible for safety and security at the project site. The Contractor will provide complete temporary perimeter security fencing (the existing fencing is acceptable) around the project work area throughout the entire project. Refer to Section 01500, Construction Facilities and Temporary Controls, for more information.
- S. Where small, miscellaneous work is described and no specification section is included, refer to Section 01120, Alteration Procedures, and notes on drawings and details for basic

specification information. Otherwise match existing adjacent surface to remain (in material, texture, color and sheen) as approved by Architect.

- T. The work also includes all demolition of items described to be removed in the drawings and specifications or needed to install new improvements, even if not indicated. The Contractor shall completely remove items including connections, piping, electrical switches, conduits and wire, mechanical ductwork and other accessories as well as all supports, blocking, furring or other such items associated with being removed. Unless noted otherwise upon the removal of demolished items, the Contractor shall restore all surfaces, elements, walls, floors, ceilings and roofs which are left unfinished or with holed marks, gaps, etc. to match existing adjacent surfaces and including finished coatings, flashing, etc. as applicable. Any items to be demolished that are reusable or which have a salvage value shall be offered to the Owner to keep for warehousing and use on other projects. Any such items that the Owner declines to accept/retain will be removed from the site by the Contractor immediately.

END OF SECTION

SECTION 01018  
OWNER-FURNISHED ITEMS

PART 1 - GENERAL

1.01 DESCRIPTION:

This section includes general requirements for Owner-furnished, Contractor-installed materials and equipment, referred to collectively as OFCI items. It also includes description of responsibilities regarding Owner-furnished, Owner-installed items, referred to as OFOI items.

1.02 DEFINITIONS:

- A. OFCI: Owner furnished, Contractor installed.
- B. OFOI: Owner furnished, Owner installed.

1.03 SUBMITTALS:

Obtain all necessary information from Owner as to manufacturer, model, and type of each item to be incorporated in the project. Submit, or obtain from Owner as applicable, shop drawings showing dimensioned rough-in diagrams for each Owner furnished item requiring utility connection, dimensional locations of backing plates required in walls and partitions and details of connections to supports of all items.

1.04 CONDITIONS:

In each case, the Contractor is responsible for correct and properly located installation of the OFCI items in accordance with the various manufacturers' specifications and instructions.

- A. Conflicts: If a conflict occurs between requirements for OFCI items and actual field conditions, Contractor shall not install the affected items until the conflict is resolved. No extra payment will be made to the Contractor for correction of improper installation of OFCI items when reasonably adequate data and instructions for installation were furnished by the Owner or various OFCI item manufacturers.
- B. Installation: Install OFCI items complete in every detail with each item accurately and correctly placed, connected, adjusted and tested.
- C. Delivery: OFCI items will be delivered to site. Contractor shall receive and unload the OFCI items, verify that the items have not been damaged in transit, place in covered storage or enclosed building and be responsible therefore after delivery. OFCI items that are damaged, abused, lost or stolen while in Contractor's custody and control, or damaged or defaced during installation shall be repaired, replaced or otherwise made good to the Owner's satisfaction at the Contractor's expense.
- D. Inspection of New Owner furnished Items: Within 10 working days after delivery of the items, Contractor shall open and uncrate the items for inspection. The Owner's



representative and Contractor shall inspect each item and maintain a written record of all damage, missing parts and other defects disclosed, all of which will be made good by the Owner. After the inspection, Contractor shall be fully responsible for the equipment and items as specified above.

- E. Protection of Existing Owner furnished items: refer to Section 01120.
- F. Additional Information: Contractor may request and receive from the Owner all necessary additional information, specifications, templates and similar items from any of the manufacturers of the OFCI items. The Contractor may request a manufacturer's representative to supervise installation of any OFCI item, but at no additional cost to Owner.
- G. OFOI Items: The Owner will provide and install or have installed by others, certain items, which may or may not be indicated in detail on the drawings. Contractor shall allow the Owner access to spaces and facilities as required to perform the work. Refer to the General Conditions and Supplementary Conditions for provisions for work under separate contracts.

## PART 2 - PRODUCTS

### 2.01 OFCI EQUIPMENT:

- A. List: The list of OFCI items is shown in Section 01010.
- B. Installation Materials: Contractor shall provide attachments, fittings, fasteners, connectors and other ancillary material required for installation which is not usually furnished by the OFCI manufacturers, types as approved.

### 2.02 OFOI ITEMS:

The Owner will provide and install or have installed by others, certain items including movable furniture Smart TV's, TV racks and IDF switches and other items which may or may not be indicated in detail on the drawings. Contractor shall allow the Owner access to spaces and facilities as required to perform the work. Refer to the General Conditions for provisions for work under separate contracts.

### 2.03 OFOI, CONTRACTOR ROUGHIN AND CONNECT:

The Owner will provide and install, or have the following items and systems installed by others. Contractor shall allow the Owner access to spaces and facilities as required to perform the work. Refer to the General Conditions and Supplementary Conditions for provisions for work under separate contracts. Contractor shall rough in utilities as noted below, together with all other utilities required for each component. Contractor shall provide blocking, supports, anchors, fire-stopping, sealants, painting and such other ancillary items and work as required for complete and operable installation.

- A. Refrigerators.

## PART 3 - EXECUTION

### 3.01 INSTALLATION:

Conform to each OFCI item manufacturer's specifications, templates and information including the necessary assembling of components of sub-assemblies.

### 3.02 TESTS:

Contractor shall operate and test each operable OFCI item when installed and connected. If malfunctions occur through no fault of the Contractor, the Owner will make the defect good; otherwise, the Contractor shall effect all necessary corrections so the OFCI item operates properly and as intended, at the Contractor's expense.

END OF SECTION

## SECTION 01048

### CONTRACTOR'S REQUESTS FOR INFORMATION

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION:

All other sections of Division 1 apply to this Section. This Section covers the general requirements for Contractor's Requests for Information and pertains to all portions of the contract documents.

A. Related work specified elsewhere:

1. Project meetings
2. Submittals
3. Substitutions

##### 1.02 DEFINITION:

- A. Request for Information: A document submitted by the Contractor requesting clarification of a portion of the contract documents, hereinafter referred to as RFI.

##### 1.03 CONTRACTOR'S REQUESTS FOR INFORMATION:

- A. When the Contractor is unable to determine from the contract documents, the exact material, process or system to be installed, the Architect shall be requested to make a clarification of the indeterminate item. Wherever possible, such clarification shall be requested at the next appropriate project meeting, with the response entered into the meeting minutes. When clarification at the meeting is not possible, either because of the urgency of the need or the complexity of the item, Contractor shall prepare and submit an RFI to the Architect.
- B. Contractor shall endeavor to keep the number of RFI's to a minimum. In the event that the process becomes unwieldy in the opinion of the Architect because of the number and frequency of RFI's submitted, the Architect may require the Contractor to abandon the process and submit all requests as either submittals, substitutions or requests for change.
- C. RFI's shall be submitted on a form provided by or approved by the Architect. Forms shall be completely filled in and if prepared by hand, shall be fully legible after copying by xerographic process. Each page of attachments to RFI's shall bear the RFI number in the Upper right corner.
- D. RFI's from subcontractors or material suppliers shall be submitted through, reviewed by, and signed by the Contractor prior to submittal to the Architect.

- E. Contractor shall carefully study the contract documents to assure that the requested information is not available therein. RFI's which request information available in the contract documents will not be answered by the Architect.
- F. In all cases where RFI's are issued to request clarification of coordination issues for example, pipe and duct routing, clearances, specific locations of work shown diagrammatically and similar items, the Contractor shall fully lay out a suggested solution using drawings or sketches drawn to scale, and submit same with the RFI. RFI's which fail to include a suggested solution will not be answered.
- G. RFI's shall not be used for the following purposes:
  - 1. To request approval of submittals.
  - 2. To request approval of substitutions.
  - 3. To request changes which entail additional cost or credit.
  - 4. To request different methods of performing work than those drawn and specified.
- H. In the event the Contractor believes that a clarification by the Architect result in additional cost, Contractor shall not proceed with the work indicated by the RFI until a change order is prepared and approved. Answered RFI's shall not be construed as approval to perform extra work.
- I. Unanswered RFI's will be returned with a stamp or notification: Not Reviewed.
- J. Contractor shall prepare and maintain a log of RFI's and at any time requested by the Architect, Contractor shall furnish copies of the log showing all outstanding RFI's. Contractor shall note all unanswered RFI's in the log.
- K. Contractor shall allow for 14 days review and response time for RFI's.

PART 2 – PRODUCTS – Not applicable to this Section.

PART 3 – EXECUTION – Not applicable to this Section.

END OF SECTION

## SECTION 01094

### DEFINITIONS

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION:

This Section covers definitions supplementary to those given in the Conditions of the contract.

##### 1.02 DEFINITIONS:

- A. District or Owner: The term "District" or "Owner" refers to ROWLAND UNIFIED SCHOOL DISTRICT, 1830 South Nogales Street, California 91748, or their authorized representative. The terms are used interchangeably.
- B. Architect: The term "Architect" refers to ZIEMBA + PRIETO ARCHITECTS, 601 South Glenoaks Boulevard, Suite 400, Burbank, CA 91502, or their authorized representative.
  - Construction Manager: Ledesma and Meyer Construction co. Inc., 9441 Haven Ave., Rancho Cucamonga
- C. References to Drawings: Words such as "shown", "indicated", "detailed", "scheduled", "noted", and words of similar meaning shall mean that reference is made to the information on the drawings unless stated otherwise.
- D. Actions of Architect: Such words as "directed", "designated", "selected", and words of similar meaning shall mean the direction, designation, selection, or similar action of the Architect is intended unless stated otherwise.
- E. Required: The word "required" and words of similar meaning shall mean "as required to complete the Work" and "required by the Architect", as is applicable to the context of the place where used, unless stated otherwise.
- F. Perform: The word "perform" shall mean that Contractor, at Contractor's expense, shall perform all the operations necessary to complete the Work or the mentioned portions of the Work, including furnishing and installing materials as are indicated, specified or required to complete such performance.
- G. Provide: The word "provide" shall mean that Contractor, at Contractor's expense, shall furnish and install the Work and mentioned portion of the Work, complete in place and ready for the intended use. These definitions apply the same to future, present and past tenses except "provided" may mean "contingent upon" where such is the context.
- H. Equal: Words such as "equal", "approved equal", "equivalent", and terms of similar meaning shall be understood to be followed by the phrase "in opinion of the Architect" unless stated otherwise.

- I. Approval: The words “approved”, “approval”, “acceptable”, acceptance” and other words of similar meaning shall mean that approval or acceptance of Architect, or similar meaning, is intended unless stated otherwise.
- J. Review: The word “review” and words of similar meaning shall mean the review and observation of the Architect is intended unless stated otherwise.
- K. Submit: The words “submit”, “submittal”, “submission”, and other terms of similar meaning shall include the meaning of the phrase “submit to the Architect for approval” unless otherwise stated.
- L. Expense: Such phrases as “at Contractor’s expense”, “at no extra cost to Owner”, “at no additional contract cost”, “with no extra compensation to Contractor”, or phrases of similar meaning shall mean that Contractor shall perform or provide the operation of work without increase in the contract price.
- M. Fees and Charges: District reimburses contractor for utility fees charged by jurisdictional agencies. DSA fees are paid by District. Contractor is required to pay for all licenses and similar requirements that he must have in effect in order for him to accomplish his work.
- N. Language: Specifications are written in a modified brief style consistent with clarity. Words and phrases requiring an action or performance, such as “perform”, “provide”, “erect”, “install”, “furnish”, “connect”, “test”, “coordinate”, and words and phrases of similar meaning, shall be understood to be preceded by the phrase “The Contractor shall” unless otherwise stated. Requirements indicated and specified apply to all work of the same kind, class and type, even if the word “all” is not stated. The use of the singular number implies the plural, if more than one of an item or unit is required; likewise the use of the plural number implies the singular, if only one of an item or unit is required.
- O. Titling and Arrangement: Article, paragraph and subparagraph titles and other identifications of subject matter in the specifications are intended as an aid in locating and recognizing the various requirements in the specifications. Except where the titling forms a part of the text, such as beginning words of a sentence or where the title establishes the subject, the titles are subordinate to and do not define, limit or restrict the specification text. Underlining or capitalizing of any words in the text does not signify or mean that such words convey special or unique meanings having precedence over any other part of the contract documents. Specification text shall govern over titling and shall be understood to be and interpreted as a whole. The listings of various parts of work to be included or not included under various sections of the specifications are for convenience only and do not control the Contractor in dividing the work among the subcontractors or establish the extent of the work to be performed or provided by any subcontractor or trade. Contractor is solely responsible for providing the complete work without respect to where or how the various parts of the work may be indicated or specified. The sequence of articles, paragraphs, subparagraphs and subsubparagraphs in the specifications text is defined by the sequence 1.01A.1.a.(1)(a).

PART 2 – PRODUCTS – Not applicable to this Section.

PART 3 – EXECUTION – Not applicable to this Section.

END OF SECTION

SECTION 01200  
PROJECT MEETINGS

PART 1 - GENERAL

1.01 DESCRIPTION:

This Section covers the general requirements for the project meetings.

PART 2 – PRODUCTS – Not applicable to this Section.

PART 3 – EXECUTION

3.01 PROJECT MEETINGS:

- A. Attendees: Unless otherwise specified or required by the District, meetings shall be attended by the District, Architect, Construction Manager, Contractor's Superintendent and the Inspector of Record. Subcontractors may attend the meetings when involved in matters to be discussed or resolved but only when requested by the District, Architect.
- B. Meeting Records: The CM will record minutes of each meeting and furnish copies within a reasonable time thereafter to the District, Contractor, Inspector of Record and other attendees. Unless written objection to contents of the meeting minutes is received by Contractor within 3 days after presentation, it shall be understood and agreed that the minutes are a true and complete record of the meeting.
- C. Meeting Schedule: Dates, times and locations for various meetings shall be agreed upon and recorded at pre-construction meeting. Thereafter, changes to the meeting schedule shall be agreed between the District and the Contractor, with appropriate written notice to all parties involved.

3.02 PRE-CONSTRUCTION MEETING:

- A. General: Before issuance of Notice to Proceed, a pre-construction meeting shall be held at the location, date and time designated by District. In addition to attendees named herein, this meeting shall be attended by representatives of the regulatory agencies having jurisdiction, if required, and such other persons the District may designate.
- B. Agenda: The matters to be discussed or resolved and the instructions and information to be furnished to or given by the Contractor at the preconstruction conference include:
  - 1. Schedule of progress meetings.
  - 2. Progress schedule and schedule of values submitted by Contractor.
  - 3. Communication procedures between the parties.
  - 4. Names and titles of all persons authorized by Contractor to represent and execute documents for Contractor, with samples of all authorized signatures.
  - 5. The names, addresses and telephone numbers of all those authorized to act for the Contractor in emergencies.



6. Construction permit requirements, procedures and posting.
7. Public notice of starting Work.
8. Forms and procedures for Contractor's submittals.
9. Change Order forms and procedures.
10. Payment application forms and procedures and revised progress schedule reports to accompany the applications.
11. Contractor's designation of his organization's accident prevention member and his qualifications if other than the Superintendent.
12. Contractor's provisions for barricades, traffic control, utilities, sanitary facilities and other temporary facilities and controls.
13. Consultants and professionals employed by District and their duties.
14. Construction surveyor and initiation of surveying services.
15. Testing Laboratory or Agency and testing procedures.
16. Procedures for payroll and labor cost reporting by the Contractor.
17. Procedures to ensure nondiscrimination in employment.
18. Warranties and guarantees.
19. Long lead item status.
20. Other administrative and general matters as needed.

### 3.03 CONSTRUCTION PROGRESS MEETINGS:

Progress meetings shall be held according to the agreed schedule. All matters bearing on progress and performance of the Work since preceding progress meeting shall be discussed and resolved including, without limitation, any previously unresolved matters, deficiencies in the work or methods being employed for the work and problems, difficulties or delays which may be encountered.

### 3.04 PROGRESS MEETINGS:

Conduct progress meetings at the project site at regularly scheduled intervals. Weekly notify the District and Architect of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request.

- A. Attendees: In addition to representatives of the District and Architect each subcontractor, supplier or other entity concerned with current progress or involved in planning, coordination or performance of future activities shall be represented at these meetings by personnel familiar with the project and authorized to conclude matters relating to progress.
- B. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the current status of the project.
- C. Contractor's Construction Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's construction schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the contract time. Provide a 3 week "look ahead" schedule at each construction progress meeting.

- D. Review the present and future needs of each entity present, including such items as interface requirements, time, sequences, deliveries, off-site fabrication problems, access, site utilization, temporary facilities and services, hours of work, hazards and risks, housekeeping, quality and work standards, change orders, documentation of information for payment requests.
- E. Reporting: No later than 5 days after each progress meeting date, distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief summary of progress since the previous meeting and report.
- F. Schedule Updating: Revise the construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

### 3.05 SPECIAL MEETINGS:

After notice to other parties, special meetings may be called by the District, Architect or Contractor. Special meetings shall be held where and when designated by the District. Other special meetings, such as the pre-roofing conference, shall be conducted as specified in the various sections of the specifications.

### 3.06 POST-CONSTRUCTION MEETING:

This meeting shall be held prior to the final inspection of the work to discuss and resolve all unsettled matters. Bonds and insurance to remain in force and the other documents required to be submitted by the Contractor will be reviewed and any deficiencies determined. Schedule and procedures for the final inspection and for final correction of defects and deficiencies shall be agreed.

END OF SECTION

SECTION 01400  
TESTS AND INSPECTIONS

PART 1 - GENERAL

1.01 DESCRIPTION:

This Section covers testing and inspection procedures.

A. Requirements not in this Section:

1. Specific test requirements are specified in each section where they occur.
2. Verification of conditions.
3. Tolerances nomenclature.

1.02 PAYMENT FOR TESTING:

A. District will employ and pay for services of an independent testing laboratory approved by DSA to perform specified inspection and testing, including required continuous inspection. Contractor shall reimburse the District for excessive inspection costs incurred by the District because of the following:

1. Contractor's failure to complete entire work within the contract time stated in Agreement, and any previously authorized extensions thereof.
2. Claims between separate contractors.
3. Covering of work before required inspections or tests are performed.
4. Extra inspections for Contractor's correction of defective work.
5. Overtime costs for acceleration of work for Contractor's convenience.

B. Contractor shall pay cost of the following:

1. Additional tests necessitated if materials fail to meet contract requirements.
2. Tests required by Architect to substantiate proposed substitutions.
3. Tests required to determine code compliance.
4. Costs of concrete mix designs.

1.03 LIMITATIONS OF AUTHORITY OF TESTING LABORATORY:

A. Laboratory is not authorized to:

1. Release, revoke, alter or enlarge on the requirements of the contract documents.
2. Approve or accept portion of the work.
3. Perform any duties of the Contractor.
4. Stop work.

B. Work of the testing laboratory shall in no way limit Contractor's quality control procedures or relieve Contractor of his obligation to perform work in accordance with the contract documents.

1.04 ADDITIONAL TESTING:

- A. If the Architect determines that any work requires additional inspection, testing or approval, District will direct the Contractor to order such special inspection, testing or approval.
- B. If special inspection, testing or approval reveals a failure of the work to comply with the contract documents, the Contractor shall reimburse the District for the costs, including additional services made necessary by such failure.
- C. If special inspection, testing or approval indicates that the work complies with the contract documents, the District will bear the costs.
- D. Provide water vapor testing and pH testing, and remedial measures necessary to remove excessive moisture and reduce pH from on grade slabs to receive moisture and alkaline sensitive finishes (VCT), complete.

1.05 GENERAL QUALITY CONTROL REQUIREMENTS:

- A. General Test Requirements: Materials to be furnished under the Contract are subject to testing and inspection for compliance with the requirements of drawings and inspections.
- B. Testing laboratory: The licensed testing laboratory certified as meeting requirements of ASTM D3666, D3740, E329, E543 and E548, as applicable to work involved and approved by District, referred to hereafter as the testing laboratory. Perform testing under the supervision and control of a California registered professional engineer employed by testing laboratory.
- C. Disqualified Material: Material shipped or delivered to the site by Contractor from the source of supply prior to having satisfactorily passed the required testing and inspection, or prior to the receipt of a notice from the Architect that such testing and inspection will not be required, shall not be incorporated in the work.
- D. Notification of Field Tests: Architect and District reserve the right to be present at field testing as required by the contract documents. Contractor shall notify the Architect not less than 24 hours in advance of field testing.
- E. Disqualified Work: Work in place which fails to conform to test requirements shall be removed and replaced without cost to the District. Where feasible, and subject to the approval of the Architect, disqualified work may be repaired, strengthened or otherwise modified to bring it into conformance with test requirements.

1.06 TEST PROCEDURES:

- A. Materials to be furnished under the Contract shall be subject to testing for compliance with the contract documents. Tests will be made in accordance with the applicable standard methods of the ASTM, AASHTO or procedure herein specified.

- B. Materials so specified herein, including such others as the Architect may direct, shall be tested. The Contractor shall furnish samples of the materials prepared for tests as required to the testing laboratory providing adequate time for testing before need at the project. The materials represented by samples under tests shall not be incorporated in the work without the approval of the Architect.
- C. Test Procedures: Testing laboratory shall perform tests according to ASTM or other methods of test specified for various materials in other sections. If no procedure or test method is specified, testing shall conform to the material specification referenced except as otherwise directed. Testing laboratory shall tag, seal, label, record or otherwise adequately identify materials for testing and no such materials, shall be used or installed in the work until test result reports are submitted and approved, excepting only those materials specified to be placed or installed prior to testing.
- D. Test Repeating: Repeat applicable tests at specified intervals, whenever source of supply is changed, or whenever the characteristics of materials change or vary in the opinion of District or Architect.

#### 1.07 COORDINATION AND COOPERATION:

The Contractor shall initiate and coordinate testing and inspections required by the contract documents and public authorities having jurisdiction of the work. Notify the testing laboratory sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but not limited to:

- A. Providing access to the work and furnishing incidental labor and facilities necessary for inspections and tests.
- B. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
- C. Providing facilities for storage and curing of test samples and delivery of samples to testing laboratories.
- D. Providing testing laboratory with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
- E. Security and protection of samples and test equipment at the project site.
- D. Furnish copies of mill test reports.

#### 1.08 TEST REPORTS:

- A. Reports shall be provided of tests. Such reports shall include tests made, regardless of whether such tests indicate that the material is satisfactory or unsatisfactory. Samples taken but not tested shall also be reported. Records of special sampling operations as required shall also be reported. The reports shall show that the material or materials were sampled and tested in accordance with the requirements of CBC and with the approved specifications. Test reports shall show the specified design strength. They

shall also state definitely whether or not the material or materials tested comply with requirements.

- B. Furnish and deliver copies of each test report, signed and certified by the testing laboratory professional engineer, as follows:

No. of Copies:

1	District
1	Architect
1	Structural Engineer (structural tests only)
2	Contractor
1	DSA
1	DSA Inspector or Record

- C. Promptly notify the Architect of observed irregularities or deficiencies in the work or in products to be used in the work.

- D. Each report shall include:

1. Date issued.
2. Project title and number.
3. Testing laboratory name, address and telephone number.
4. Name and signature of laboratory inspector.
5. Date and time of sampling or inspection.
6. Record of temperature and weather conditions.
7. Date of test.
8. Identification of product and specification section.
9. Location of sample or test in the project.
10. Type of inspection or test.
11. Results of tests and compliance with contract documents.
12. Interpretation of test results, when requested.
13. DSA application number.

#### 1.09 VERIFICATION OF TEST REPORTS:

Each testing agency shall submit to DSA a verified report in duplicate covering the tests which are required to be made by that agency during the progress of the project. Such report shall be furnished each time that work on the project is suspended, covering the tests up to that time, and at the completion of the project, covering the tests.

#### 1.10 REPORTING TEST FAILURES:

Immediately upon determination of a test failure, the laboratory will telephone the results of the test to the Architect. On the same day, the laboratory will send written test results to those named on the above distribution list.

#### 1.11 AVAILABILITY OF SAMPLES:

- A. Contractor shall make materials available to the laboratory and assist in acquiring these materials as directed by the District's Inspector. The samples shall be taken under the immediate direction and supervision of the testing laboratory or inspector.
- B. If work which is required to be tested or inspected is covered up without prior notice or approval, such work may be uncovered at the discretion of the Architect at no additional cost to the District.
- C. Unless otherwise specified, the Contractor shall notify the testing laboratory a minimum to 10 working days in advance of required tests and a minimum of 2 working days in advance of required inspections. Extra laboratory expenses resulting from a failure to notify the laboratory will be paid by the District and reimbursed by the Contractor.
- D. The Contractor shall give sufficient advance notice to the testing laboratory in the event of cancellation or time extension of a scheduled test or inspection. Charges due to insufficient advance notice of cancellations or time extension will be paid for by the District and reimbursed by the Contractor.

#### 1.12 REMOVAL OF MATERIALS:

Unless otherwise directed, materials not conforming to the requirements of the contract documents shall be promptly removed from the site.

#### 1.13 DISTRICT'S INSPECTOR:

- A. The District will furnish inspection of the work at not cost to the Contractor except as otherwise provided herein and except for those inspections required to be furnished and paid for by the Contractor elsewhere in the contract documents. Perform and construct work under inspection of the District's Inspector unless waived in writing by the District in each case or exempted wholly or in part from inspection elsewhere in the contract documents. Any work requiring such inspection that is performed or constructed during the absence of the District's Inspector is considered defective and is subject to rejection. The Contractor shall give written notice to District at least 2 working days in advance of performance of any part of the work requiring special inspection by someone other than District's Inspector and shall state probable duration of the required special inspection.
- B. The inspection of any material or equipment at the factory or shop will not constitute an acceptance. The District's Inspector will advise the District to suspend any part or all of the work, by notice to the Contractor confirmed in writing, whenever a question arises as to whether materials or equipment being installed or the methods or workmanship being employed comply with the contract documents until such question is decided upon by District.
- C. The District's Inspector is not authorized to accept or reject any work, to modify any contract document requirement, to advise or instruct Contractor or his employees as to prosecution of the work, or to perform any duty or service for the Contractor. Inspection of the work will not relieve the Contractor of the obligation to fulfill requirements of the contract documents.

#### 1.14 INSPECTOR – DISTRICT'S:





- c. Splitting Tensile Test 1905A.1.4, 1905A1.5
- 3. Concrete Inspection:
  - a. Job Site 1905A.7
  - b. Batch Plant 1929A.4
  - c. Waiver of Batch Plant 1929A.5, 1929A.6
  - d. Reinforcing Bar Welding 1929A.12
- B. Masonry – CBC Chapter 21A
  - 1. Materials:
    - a. Masonry Units 2102A.2, (.4, .5, .6)
    - b. Portland Cement, Lime 2102A.2.(.2,.3,.8,.9),  
2103A.2
    - c. Mortar and Grout Aggregates 2102A.2.(1),2103A.3, A.4
    - d. Reinforcing Bars 2102A.2.(10)
  - 2. Quality:
    - a. Portland Cement Tests 1903A.2, 1929.A1
    - b. Mortar & Grout Tests 2105A.3.4(2)
    - c. Masonry Unit Tests 2105A.3.4.(1), 2105A.6
    - d. Masonry Core Tests 2105A.3.1
    - e. Reinforcing Bar Tests 1929A.2
  - 3. Masonry Inspection:
    - a. Reinforced Masonry 2105A.7
    - b. Reinforcing Bar Welding 1929A.12
- C. Steel – CBC Chapter 22A
  - 1. Materials:
    - a. Structural Steel, Cold Formed Steel 2202A.1, 2231.A.1
    - b. Identification 2203A
  - 2. Quality:
    - a. Tests of Structural & Cold Formed Steel 2231.A.1
    - b. Non-Destructive Weld Testing 1703A
  - 3. Inspection:
    - a. Shop Fabrication 2231A.4
    - b. Welding 2231A.5
- D. Wood – CBC Chapter 23A

1. Materials:

a. Lumber and Plywood 2304A

2. Inspection:

a. Timber Connectors 2337A.2

E. Expansion and Epoxy Anchors 1923A.3.5 & DSA IR 19-1.

PART 2 – PRODUCTS – Not applicable.

PART 3 – EXECUTION – Not applicable.

END OF SECTION

## SECTION 01500

### TEMPORARY FACILITIES AND CONTROLS

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION:

Provide temporary facilities and controls, complete.

PART 2 – PRODUCTS – Not applicable to this Section.

#### PART 3 – EXECUTION

##### 3.01 TEMPORARY UTILITIES:

Except as otherwise specified below, District will furnish electrical power and water from existing outlets designated by the District without charge to Contractor for quantities used for the work. Provide all temporary piping, fittings, wiring and lighting necessary to supply utilities in sufficient quantities at locations required by the work. Contractor shall carefully conserve utilities, and if, in the opinion of the District, the usage is excessive, Contractor may be required to provide separate services from serving utility companies.

- A. Electrical Power for in the Building: Characteristics of current furnished by the District is limited to that existing and available; if current of other characteristics or quantity is required by Contractor, the Contractor shall supply the power as necessary at no extra cost to the District. Power for small tools and lighting may be taken from the existing 120-volt 60 Hz 1-phase convenience receptacles provided there is no disturbance to occupants and functions, cables and conductors do not prevent or interfere with closing of fire-labeled doors, and load connected to any single or duplex outlet does not exceed 12 amperes. Total load connected to any circuit shall not exceed 25% of circuit capacity as labeled in panelboard. Contractor shall repair and make good damage to existing electrical facilities caused by his use, as directed and approved, at no extra cost of the District.
  - 1. Electrical Power for the Project Offices and Trailers: Furnished by the District limited to the available existing power source. Contractor to provide additional if needed at no additional cost to the District.
  - 2. Temporary Lighting: Provide lighting and outlets wherever necessary for proper performance and inspection of work. If operations are performed during hours of darkness and whenever natural lighting is deemed insufficient by Architect, provide adequate floodlights, clusters and spot illumination, as required to facilitate reading of drawings and specifications.
  
- B. Water:
  - 1. Construction Water: District will furnish water from such existing outlets as do not interfere with the normal operation of the facilities. In general, obtain water from outlets in janitor, mechanical and similar utility rooms. If used, do not run water

- hoses down corridors or across doorways in use by occupants. Provide temporary backflow prevention devices as required by Code or directed by the District.
2. Drinking Water: Maintain on the site at all times, adequate supply of drinking water. Provide bottled water, dispenser and disposable cups. Keep the equipment and the area around the equipment clean and dry at all times.
  3. Grading Water: Water required for grading operations to be provided and paid for by the Contractor. The Contractor is to provide the necessary water meter and make arrangements for the point of connection with the local utility company.

C. NOT USED

3.02 TEMPORARY HEAT AND VENTILATION:

Provide heat, fuel and services to protect the work against injury from dampness and cold until final acceptance of all work of the Contract.

- A. When the new system is used for temporary heat and ventilation, comply with air quality requirements of ASHRAE 62 and the following:
  1. Temporary Filters for Air Systems: Provide temporary filters in air conditioning and ventilating systems to prevent dust and fumes from contaminating the new ductwork and equipment. Use commercial viscous-coated throw-away filters, or equal, having efficiency of not less than 60 percent.
  2. At completion, inspect the entire system for dirt and debris. Clean equipment, ducts and plenums that are soiled, at not extra cost to Owner. Replace filters.
- B. For not less than 7 days prior to plastering and drywall during application, setting and curing thereof, sufficient heat to maintain building temperature of not less than 55 degrees F while maintaining adequate ventilation for drying of plaster.
- C. Before casework is delivered to the building, for not less than 5 days prior to installing wood finish, and throughout placing of this finish and other finishing operations such as painting and laying of resilient floor covering, sufficient heat to maintain building temperature at 65 degrees F.
- D. Operate HVAC system over a weekend as directed, for not less than 48 hours to purge VOC and other contaminants from the building.

3.03 NOT USED

### 3.04 TEMPORARY SANITARY FACILITIES:

The contractor shall provide and maintain temporary portable chemical toilet facilities and wash sink for duration and operation. Provide a minimum of one (1) toilet per every (10) construction site workers. Provide one (1) separate portable chemical toilet and hand wash station for the sole use of the Construction Manager, Architect and Inspector of Record, to be located adjacent to their jobsite trailers.

### 3.05 TEMPORARY FIRE PROTECTION AND SAFETY REQUIREMENTS:

- A. The Contractor shall take necessary precautions to guard against and eliminate fire hazards and to prevent damage to construction work, building materials, equipment, temporary field offices, storage sheds and public and private property. The Contractor shall be responsible for providing, maintaining and enforcing the following conditions and requirements during the entire construction period. Comply with 2015 CFC Article 87 during all phases of the project.
1. Fire Inspection: The Contractor's Superintendent shall inspect the entire project at least once each week to make certain that the conditions and requirements are being adhered to.
  2. Hose: The number of outlets, supply of hose and proper hose size to protect the construction area shall be determined by the local Fire Marshal and provided by the Contractor.
  3. Fires: Employees shall not be allowed to start fires with gasoline or kerosene or other highly flammable materials. No open fires shall be allowed.
  4. Flammable Building Materials: Only a reasonable working supply of flammable building material shall be located inside of, or on the roof of, any storage facility.
  5. Combustible Waste Materials: Oil-soaked rags, papers and other highly combustible materials must be stored in closed metal containers at all times, and shall be removed from the site at the close of each day's work and more often where necessary, and placed in metal containers with tight hinged lids.
  6. Gasoline and other flammable or polluting liquids/materials shall not be poured into sewers, manholes or traps, but shall be disposed of, together with flammable or waste material subject to spontaneous combustion, in a safe manner meeting all applicable laws and ordinances. Make appropriate arrangements for storing these materials outside of the building.
  7. Provide and maintain fire extinguishers during construction, conveniently located for proper protection, one fire extinguisher for each 5,000 square feet of floor area or less, but not less than four extinguishers. Fire extinguishers shall be ten-pound ABC type. Extinguishers shall meet approval of Underwriters' Laboratory, and shall be inspected at regular intervals and recharged as necessary.
- B. All self-propelled construction equipment, except light service trucks, panels, pickups, station wagons, crawler type cranes, power shovels and draglines, whether moving alone or in combination, shall be equipped with a reverse signal alarm (hub-cap type).

C. Conduit trenching and excavation operations with regards to the following:

1. Pursuant to Labor Code 6706, the Contractor shall include in his base bid pay all costs incident to the provision of adequate sheeting, shoring, bracing or equivalent method for the protection of life or limb, which shall conform to applicable Federal and State safety orders.
2. Before beginning any excavation five feet or more in depth, the Contractor shall submit to the Architect a detailed plan showing the design of shoring, bracing, sloping or other provisions to be made for worker protection from the hazard of caving ground during the excavation. The proposed plan shall comply with the standards established the State of California Construction Safety Orders and Title 24 of the California Code of Regulations. If the detailed plan varies from such shoring system standards, it shall be prepared by a registered Civil or Structural Engineer whose name and registration number shall be indicated on the drawing. If a dispute arises as to whether the plan must be prepared by a registered Civil or Structural Engineer, the Engineer's determination of the matter shall be deemed to have been included in the contract price for the work as specified.
3. Neither the review nor approval of any plan showing the design of shoring, bracing, sloping or other provisions of work protection, shall relieve the Contractor from his obligation to comply with Construction Safety order Standards and Title 24 CCR for the design and construction of such protective work, and the Contractor shall indemnify the Owner and the Architect from any and all claims, liability, costs, actions and causes of action arising out of or related to the failure of such protective systems. The Contractor shall defend the Owner, its officers, employees and agents and the Architect in any litigation or proceeding brought with respect to the failure of such protective systems.

3.06 TEMPORARY OFFICES:

- A. Prior to starting work, provide and maintain for duration of operations, separate temporary office facilities as required for Contractor's, all necessary sheds and facilities for proper storage of tools, materials and equipment employed in performance of work.
- B. The Contractor's office shall be a separate structure located where directed. If a separate structure is provided, it shall be substantially and neatly constructed, weather-tight, well lighted and neatly painted inside and out. The office shall be heated and cooled. It shall have doors which are separately keyed and two or more windows on opposite sides.
- C. The facilities for the Architect's and Owner's use shall be provided by the District. Contractor may provide whatever additional space he requires for his administration and supervision of the work. The Contractor shall provide the following items for Construction Manager's job trailer:
  - (2) office desks, (2) office chairs, (3) 8' foldable banquet tables, (10) foldable chairs, (2) 4' book shelves, (1) 3 drawer file cabinet, (3) wastebaskets, (2) drawing tables, (1) "K" cup type coffee maker, (1) 4' tall mini refrigerator, (1) water cooler with professional delivery service.

The Contractor shall supply the following consumable items for the sole use of the Construction Manager until the completion of the project:

- “K” cup style coffee, hot cocoa and related supplies (sugar, creamer, tea, stirrers, etc.), paper towels, napkins, copy paper, compatible copier/printer toner, kitchen size trash bags.

The Contractor shall provide the following items for the Inspector of Record (IOR) job trailer:

- (1) office desk, (1) office chair, computer printer table, (3) foldable chairs, (1) 4’ book shelves, (1) 3 drawer file cabinet, (1) wastebasket, (1) drawing table, (1) “K” cup type coffee maker, (1) 4’ tall mini refrigerator, (1) water cooler with professional delivery service.

The Contractor shall supply the following consumable items for the sole use of the Inspector of Record (IOR) until the completion of the project:

- “K” cup style coffee and related supplies (sugar, creamer, tea, stirrers, etc.), paper towels, napkins, copy paper, compatible copier/printer toner, kitchen size trash bags.

- D. Costs of the field offices and utilities, including cleaning service not less than once per month, shall be borne by the Contractor.
- E. Contractor shall provide telephone instruments, FAX machine and computer equipment as required.

### 3.07 TEMPORARY ELECTRONIC COMMUNICATIONS:

Contractor shall provide at the site, in the office, an experienced data processing and digital camera operator, and the following equipment for the use of the Contractor, Owner and Architect:

#### A. CPU

1. Intel Core I5-8400 processor
2. 8 GB RAM
3. 2 TB hard drive
4. Wireless connectivity
5. Ports for digital camera connection
6. DVD/CD burner
7. Battery backup system
8. Windows 10
9. Office 2017

#### B. Digital Camera

1. 20 Megapixel, min.
2. Built in flash
3. Software to download images to on-site CPU
4. Software to optimize images for speedy e-mail transmission
5. Battery supply sufficient for continuous use of camera

C. NOT USED

3.08 TEMPORARY SCAFFOLDING, STAIRS AND HOISTS:

Provide and maintain for duration of work, in accordance with CAL-OSHA and applicable laws and ordinances, all required temporary standing scaffolding and temporary stairs, ladders, ramps, runways and hoists for use during construction, unless otherwise specified in contract documents.

3.09 TEMPORARY GUARDS, BARRICADES AND LIGHTS:

- A. Provide construction canopies, barricades, fences, guards, railings, lights and warning signs necessary and required by law, and take necessary precautions required to avoid injury or damage to any and all persons and property.
- B. Construction Site Fencing: Construct fence around construction site at exact location as indicated or directed, of chain link fence fabric not less than 6 feet high. Use 1-3/4" mesh not lighter than 9 gauge galvanized fabric with knuckled selvages. Use round posts, top tension wire and bottom tension wire, and bracing as required for rigidity. Provide steel gates and frames of not less than 1.90" OD, 0.120" minimum wall thickness galvanized tubing. Provide gates as required for access of vehicles and pedestrians. Equip swinging gates with galvanized hinges and latch. Provide change and double padlocks, arranged so that unlocking of either padlock will open the gate. Contractor provide one padlock for his use. District will provide the other padlock. Set posts for support of fences into sleeves or buried direct in ground. Hold posts aligned and plumb.

3.10 PROTECTION OF WORK AND FACILITIES:

- A. Protect all adjacent property, roads, streets, curbs, shrubbery, lawns, erosion control materials and planting during construction operations. All damaged material shall be replaced and/or repaired at the expense of the Contractor.
- B. Upon completion deliver the entire work to the Owner in proper, whole and unblemished condition.
  - 1. Parts of work in place that are subject to injury, because of operations being carried on adjacent thereto, shall be covered, boarded up, or substantially enclosed with adequate protection.
- C. The Contractor shall be responsible for preventing the overloading of any part of the facilities beyond their safe calculated carrying capacity by the placing of materials and/or equipment, tools, machinery, or any other items thereon.
- D. The Owner may provide such watchman services deemed necessary to protect the Owner's interest, but any protection so provided by the Owner shall not relieve the Contractor of the responsibility for the safety and condition of the work and material until the completion and acceptance thereof. The Contractor shall employ such watchman services as he may deem necessary to properly protect and safeguard the work and material.



### 3.11 DUST CONTROL:

Throughout the entire Contract period, effectively dust-palliate the working area, roads and storage areas constructed under this Contract and involved portions of the site, except during such periods that other contractors may be performing work of separate contracts in these areas. Such application shall consist of intermittent watering and sprinkling of such frequency as will satisfactorily allay the dust during all hours that work is being performed. At no time shall water be allowed to pond or puddle. Ponds and puddles shall be removed immediately and steps taken to remove or dry the mud resulting from the ponds or puddles.

### 3.12 WATER CONTROL:

Surface or subsurface water or other fluid shall not be permitted to accumulate in excavations or under the structures. Should such conditions develop or be encountered, the water or other fluid shall be controlled and suitably disposed of by means of temporary pumps, piping, drainage lines and ditches, dams or other methods approved by the Architect.

### 3.13 PROJECT IDENTIFICATION:

Provide and maintain one sign only on the property at location as directed by Architect. Signboard shall contain information and be of size as detailed on the drawings. Small direction signs may be installed if specifically approved by Architect. Signs by subcontractors and material suppliers will not be permitted.

### 3.14 CONTRACTOR VEHICLES ON CAMPUS:

Contractor's vehicles shall be restricted to access routes established by the Owner. Parking of Contractor's employees vehicles will be limited to offsite parking areas as arranged by Contractor, not necessarily adjacent to the site.

### 3.15 REMOVAL OF TEMPORARY CONSTRUCTION:

Remove temporary office facilities, toilets, storage sheds, fences and other construction of temporary nature from site as soon as progress of work permits. Recondition and restore portions of site occupied by same to a condition acceptable to Architect.

END OF SECTION

SECTION 11400  
FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. The work referred to in this section consists of furnishing all labor and material required to provide and deliver all food service equipment hereinafter specified into the building, uncrate, assemble, hang, set in place, level, and completely install, exclusive of final utility connections. Final utility connections to all equipment, shall be part of the work under additional appropriate sections of the work and not part of the food service work.
1. The equipment and its component parts shall be new and unused. All items of standard manufactured equipment shall be current models at the time of delivery. Parts subject to wear, breakage, or distortion shall be accessible for adjustment, replacement and repair.
  2. The materials or products specified herein by trade names, manufacturer's name or catalog number shall be provided as specified. Substitutions will not be permitted unless approved by owner's representative in writing no later than 10 days prior to bidding. This stipulation applies to all equipment and materials.
    - a. Any request for substitution or alternate must include documentation supporting that the requested substitution/alternate will perform in all aspects as well as the original specification. Alternative exhaust hood manufacturers are required to provide heat load based design exhaust volume calculations prior to alternate being considered. Request must include the following:

Grease filtration performance data and manufactureer's own airflow calculations based on convective heat load of cooking equipment beneath the hood.

Efficiency comparison data performed in accordance with ASTM Standard F1704-96 for a standard 24" high exhaust hood.

A written guarantee of compliance with Title 24 Part 6 with Kitchen Ventilation acceptance tests NA7.11.1.2 and NA7.11.1.3.
    - b. Should no request for substitution be received and approved as stated above, the project is to be provided as specified.
  3. The food service equipment contractor shall be responsible for all costs associated with the acceptable alternate or approved alternate items, if the item

requires additional space or specific utilities that differ from specifications or drawings. The FSEC is responsible for all coordination, documentation and costs associated with any alternate item that was not submitted for approval and accepted by the consultant prior to bid. The FSEC shall be responsible for any costs associated with building changes, utility changes and drawings changes.

- B. Coordinate Owner and Vendor-supplied equipment noted on the drawings or in the specifications as NIFSEC, "not in food service equipment contract". Show on roughing in Plans and sizes, utilities, and other requirements as furnished in the specifications, by owner or appropriate supplier in submittals as if the equipment is contractor furnished.
- C. Bidders shall carefully examine the specifications and the project site including location and condition of existing equipment to determine cost for each "Existing-Reset" and "Existing-Modify" item to cover removal, modification (including materials), cleaning, inspection for damage, repair and resetting.
- D. Field measurements shall be made prior to fabrication or installation of any equipment item.
- E. The cutting of holes in equipment for pipe, drains, electrical outlets, etc., required for this installation, shall be part of this work. Work shall conform to the highest standards of workman-ship and shall include welded sleeves, collars, ferrules and escutcheons.
- F. Repair of all damage to the premises as a result of the equipment installation as well as the removal of all debris left by the work of this section.
- G. Food service equipment and fixtures shall be cleaned and ready for operation at the time the facility is turned over to the Owner for final inspection by the Owner's Representative.
- H. Food Service Equipment Contractor shall be responsible for coordinating with the Architect and Contractor in submitting all applicable documents.
- I. All bidders shall submit with their costing a list of the subcontractors that are included in their bids and a complete "schedule of values" for all equipment and labor.

## 1.2 RELATED SECTIONS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Related Work In Other Sections by appropriate trades include the following:
  - 1. Division 5 Section "Metal Fabrications" for equipment supports.
  - 2. Division 6 Section "Interior Architectural Woodwork" for wood casework and plastic laminate substrates.
  - 3. Refer to Division 23 Sections for supply and exhaust fans; exhaust ductwork; demand control ventilation requirements; service roughing-ins; drain traps;

atmospheric vents; valves, pipes, and fittings; fire extinguishing systems; and other materials required to complete food service equipment installation.

4. Refer to Division 26 & 28 Sections for connections to fire alarm systems, wiring, disconnects, and other electrical materials required to complete food service equipment installation.
- C. All electric services including wiring to, and final connections to, the fixtures except, as specified differently in the specifications, drawings, or herein.
- D. All water, waste and gas services to the fixtures including shut-off valves, trim, traps, etc., and final connections to the fixtures, except as specified differently in the specifications, drawings, or herein.
- E. All hood or ventilator duct work above the connection position on such exhaust hoods or exhaust ventilators, except as specified differently in the specifications, drawings, or herein. Final welded connections at the junction point of exhaust hoods or exhausts ventilators, shall be part of the food service work.
- F. Floors, quarry tile, concrete bases, walls, ceilings, finishes and related building work, except as specified differently in the specifications, drawings or herein.

### 1.3 DEFINITIONS

- A. Terminology Standard: Refer to NSF 2, "Food Equipment", NSF 4, Heated Cabinets, NSF 7, Refrigerated Equipment, or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.
- B. FSEC: Food Service Equipment Contractor
- C. Owner-Furnished Equipment: Where indicated, Owner will furnish equipment items.
- D. Vendor-Furnished Equipment: Where indicated the Owner's or operator's vendor will furnish equipment items.
- E. NIFSEC: Not Included in Food Service Equipment Contract.

### 1.4 SUBMITTALS

- A. Regardless of drawing formats provided it will remain the responsibility of equipment supplier to develop submittals in accordance with the Specific Conditions and assume all required responsibilities there to. The consultant is not to be liable for errors or omissions by the FSEC's use of electronic data provided by the Consultant or the development of data used in the submittal approval process. Checking product data, rough-in drawings, wall backing drawings, shop drawings, and refrigeration drawings by Designer is for design concept only, and does not relieve the Food Service Equipment Contractor of responsibility for compliance with Contract Documents, verification of

utilities with equipment requirements for conformity and location, verification of all dimensions of equipment and building conditions or reasonable adjustments due to deviations.

- B. The Food Service Equipment Contractor shall review and provide an affidavit with each submittal that such review has been completed by an authorized agent of the contractor.
- C. Product Data: For each type of food service equipment indicated. Include manufacturer's model number and accessories and requirements for access and maintenance clearances, water and drainage, power or fuel, and service-connections including roughing-in dimensions.
- D. Shop Fabrication Drawings: For food service equipment not manufactured as standard production and/or catalog items by manufacturers the fabricator of the equipment shall prepare and submit through the Food Service Equipment Contractor one electronic file or two bond or original prints of all shop drawings showing all information necessary for the fabrication and installation of the work of this section. Include plans, elevations sections, material schedule, roughing-in dimensions, fabrication details, service requirements and attachments to other work. All drawings to be fully detailed and dimensioned to a minimum scale of  $\frac{3}{4}$  inch to the foot for plan and elevation views and 1  $\frac{1}{2}$  inch to the foot for section views. Reduced or enlarged drawings are not acceptable. Drawings not submitted in the proper format will not be reviewed.
  - 1. Wiring Diagrams: Details of wiring for power, signal, and control systems and differentiating between manufacturer-installed and field-installed wiring.
  - 2. Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field-installed piping.
- E. Coordination Drawings: For locations of food service equipment and service utilities. Key equipment with item numbers and descriptions indicated in Contract Documents. Include plans and elevations of equipment, access- and maintenance-clearance requirements, details of concrete, masonry or metal bases and floor depressions, and service-utility characteristics. Ventilation requirements for refrigerated equipment shall be identified in these drawings.
- F. Contract Document Drawings:
  - 1. Drawings furnished, constitute a part of these specifications and show locations of equipment and general arrangement of mechanical and electrical services. Necessary deviation from the illustrated arrangements to meet structural conditions, shall be considered a part of the work of this section. Such deviations shall be made without expense to the owner. Equipment drawings are definitive only and should not be used as construction documents or shop details.
  - 2. The drawings are for the assistance and guidance of the Food Service Equipment Contractor. Exact locations shall be governed by the building configuration. The

Food Service Equipment Contractor shall accept his contract with this understanding.

3. Should there be a conflict between the drawings and the specifications, the FSEC shall submit a "Request for Information" (RFI) for clarification.

G. Utility Roughing-in Drawings:

1. The Food Service Equipment Contractor shall prepare and submit one electronic file or two bound sets of a valid prints, of all roughing-in drawings, showing information necessary for the roughing-in of refrigerant lines, syrup/beer lines, plumbing, steam, mechanical and electrical utility requirements. Drawings shall also include construction requirements necessary for all equipment including floor depressions, raised bases, wall blocking, wall recesses and any critical dimensions for specific equipment requirements. Acceptance will be made upon the electronic file or one print which will be returned to the Food Service Equipment Contractor for reproduction purposes. Drawings not properly submitted in this format, will not be reviewed. Drawings without an "Accepted" or "Accepted as noted" stamp, will not be considered an authorized shop drawing and will not be allowed on the job site.
  - a. Furnish four (4) sets "Accepted" and/or "Accepted as Noted" shop drawings, for distribution to the field, as directed.

H. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for exposed products with color finishes.

I. Samples for Verification: Of each type of exposed finish required, minimum 4-inch- (100-mm-) square or 6-inch- (150-mm-) long sections of linear shapes and of same thickness and material indicated for work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.

J. Product Certificates: Signed by manufacturers of refrigeration systems, refrigerated equipment or their authorized agents certifying that systems furnished comply with NSF 7 requirements and will maintain operating temperatures indicated in the areas or equipment that they will serve.

K. Maintenance Data: Operation, maintenance, and parts data for food service equipment to include in the maintenance manuals specified in Division 1. Include a product schedule as follows:

1. Product Schedule: For each food service equipment item, include item number and description indicated in Contract Documents, manufacturer's name and model number, and authorized service agencies' addresses and telephone numbers.

1.5 QUALITY ASSURANCE AND LAWS AND ORDINANCES

- A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing food service equipment, who has completed installations similar in design and extent to that indicated for this Project, and who has a record of successful in service performance.
- B. Manufacturer Qualifications: Engage a firm experienced in manufacturing food service equipment similar to that indicated for this Project and with a record of successful in-service performance.
- C. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.
- D. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equal size and performance characteristics may be considered. Refer to Division 1 Section "Substitutions."
- E. Regulatory Requirements: Comply with the following National Fire Protection Association (NFPA) and California Electrical Codes (CEC) codes:
  1. NFPA 17, "Dry Chemical Extinguishing Systems."
  2. NFPA 17A, "Wet Chemical Extinguishing Systems."
  3. NFPA 54, "National Fuel Gas Code."
  4. NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations."
  5. CEC, California Electrical Code, 2016
  6. The FSEC shall certify that all work and materials comply with Federal, State and Local laws, ordinances, and regulations and is confirmed by the local inspector having jurisdiction.
    - a. US PUBLIC HEALTH SERVICE
    - b. LOCAL HEALTH DEPARTMENT
    - c. NATIONAL BOARD OF FIRE UNDERWRITERS
    - d. OSHA
    - e. UL
    - f. HACCP
    - g. NFPA 96 – Current
    - h. ADA

- i. OSHPD
  - j. DSA
- F. Listing and Labeling: Provide electrically operated equipment or components specified in this Section that are listed and labeled.
- 1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
  - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
- G. AGA Certification: Provide gas-burning appliances certified by the American Gas Association (AGA).
- H. ASME Compliance: Fabricate and label steam-generating and closed steam-heating equipment to comply with ASME Boiler and Pressure Vessel Code.
- I. ASHRAE Compliance: Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration."
- J. Food Service Equipment: Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with CBC Sections 11B-227 and 11B-904. The top of tray slides shall be 28" minimum and 34" maximum above finish floor. Space and elements within food service employee work areas shall meet the requirements of CBC Section 11B-203.9. Food service equipment required to be accessible shall conform to all reach requirements in CBC Figures 2016, 11B-403.5.1, 11B-227.4, 11B-904.5, 11B-904.5.1, and 11B-904.5.2.
- K. NSF Standards: Comply with applicable NSF International (NSF) standards and criteria and provide NSF, UL Sanitation or ETL Sanitation Certification Mark on each equipment item, unless otherwise indicated.
- L. ANSI Standards: Comply with applicable ANSI standards for electric-powered and gas-burning appliances; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.
- M. SMACNA Standard: Where applicable, fabricate food service equipment to comply with the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Food Service Equipment Fabrication Guidelines," unless otherwise indicated.
- N. Seismic Restraints: Provide seismic restraints for food service equipment according to the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Food Service Equipment Fabrication Guidelines," appendix 1, "Guidelines for Seismic Restraints of Kitchen Equipment," unless otherwise indicated.



- O. Pre-installation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings."
- P. Pre-installation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings." Review methods and procedures related to food service equipment including, but not limited to, the following:
  - 1. Review access requirements for equipment delivery.
  - 2. Review equipment storage and security requirements.
  - 3. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
  - 4. Review structural loading limitations.
  - 5. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- Q. Walk-in cooler and/or freezer shall comply with CBC Figures 2016, 11B-404.2.4, 11B-404.2.4.4, 11B-404.2.7 and 11B-309.4.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver food service equipment as factory-assembled units with protective crating and covering.
- B. Store food service equipment in original protective crating and covering and in a dry location.

#### 1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish required dimensions and proceed with fabricating equipment without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.
  - 2. Food service aisles shall be a minimum 36" wide and tray slides shall be mounted at 34" maximum above the floor. Insure compliance with paragraphs 1.5.J and 1.5.Q.
  - 3. Pass-thru windows for food service shall conform to the reach and access requirements of paragraphs 1.5.J and 1.5.Q. Accessible pass-thru shelves shall

not exceed 34-inch height above interior finished floor surface or exterior pavement.

## 1.8 COORDINATION

- A. Coordinate equipment layout and installation with other work, including light fixtures, HVAC equipment, and fire-suppression system components.
- B. Coordinate location and requirements of service-utility connections.
- C. Coordinate size, location, and requirements of concrete bases, positive slopes to drains, floor depressions, and insulated floors. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- D. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 7 Section "Roof Accessories."

## 1.9 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents. Warranty period: 1 year from date of completion.
- B. Refrigeration Compressor Warranty: 5 years from date of completion. Submit a written warranty signed by manufacturer agreeing to repair or replace compressors that fail in materials or workmanship within the specified warranty period.

## PART 2 - PRODUCTS

### 2.1 MATERIALS - METAL

- A. Submit a certified copy of the mill analysis of materials if requested by the Architect.
- B. Finish for exposed surfaces to be #4 polished, unless otherwise specified.
- C. Protective covering shall be provided on all polished surfaces of stainless steel sheet work, and retained and maintained until time of final testing, cleaning, start-up and substantial completion.
- D. Stainless-Steel Sheet, Strip, Plate, and Flat Bar: ASTM A 666, Type 304, stretcher leveled, and in finish specified in "Stainless-Steel Finishes" Article.
  - 1. Stainless steel finishes
    - a. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.

- 1) Remove or blend tool and die marks and stretch lines into finish.
  - 2) Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- b. Concealed surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).
  - c. Exposed surfaces: No. 4 finish (bright, directional polish).
  - d. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
  - e. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.
- E. Stainless-Steel Tube: ASTM A 554, Grade MT-304, and in finish specified in "Stainless-Steel Finishes" Article.
- F. Zinc-Coated Steel Sheet: ASTM A 653, G115 (ASTM A 653M, Z350) coating designation; commercial quality; cold rolled; stretcher leveled; and chemically treated.
- G. Zinc-Coated Steel Shapes: ASTM A 36 (ASTM A 36M), zinc-coated according to ASTM A 123 requirements.
- H. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that, when cured and washed, meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.
1. Color: As selected by Architect from manufacturer's full range of colors.
  2. Backer Rod: Closed-cell polyethylene, in diameter larger than joint width.
- I. Sound Dampening: NSF-certified, nonabsorbent, hard-drying, sound-deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake, or blister.
- J. Gaskets: NSF certified for end-use application indicated; of resilient rubber, neoprene, or PVC that is nontoxic, stable, odorless, nonabsorbent, and unaffected by exposure to foods and cleaning compounds.
- K. Casters: NSF-certified, heavy duty, stainless-steel, swivel stem casters with 5-inch- (125-mm-) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width, and 200-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

## 2.2 MATERIALS – CASEWORK/MILLWORK

- A. Cabinet Hardware: Provide NSF-certified, stainless-steel hardware for equipment items as indicated. Pulls, Handles and Catches to be included.
- B. All wood to be thoroughly seasoned and kiln dried prior to being used for fabrication of custom casework. All wood to be free from knots, pitchy seams, or other imperfections. All exposed wood to be grade A pine.
- C. All plywood to be thoroughly seasoned and kiln dried prior to being used. All plywood to be free from knots, pitchy seams, and other imperfections. All plywood to be glued with water resistant resin. Particle board may not be substituted for plywood panels. "W.I. - Custom Grade" marine grade plywood is required on all fixtures to be installed in high humidity environments.
- D. All wood to have less than 12% moisture content and be a species listed by the national hardwood association.
- E. Plastic laminates shall be 1/16th thick, general purpose grade GP-50 as manufactured by Wilson Art or equal. Patterns, textures, and colors as specified under individual items. Semi ex-posed and cabinet liners shall be CL-20. Countertops, backsplashes and edges shall be grade GP-50 on exposed and grade BK-20 on underside of tops. Exposed vertical surfaces and cabinet liners shall be grade CL-20. Sides and edges of shelving shall be grade 50. Adhesive shall be waterproof and low VOC.
- F. Hardware that is furnished and installed shall be of solid material unless specified otherwise. The hardware shall be provided with the necessary mechanisms for locking. All locks shall be furnished with two (2) keys.
- G. Solid Surface Material (SSM) shall be Caesarstone, Silestone or approved equal and installed over 3/4" plywood per manufacturer's instructions. Provide air space, trim and /or insulation around any heat or cold producing equipment to guard against discoloration and cracking.

## 2.3 FABRICATION, GENERAL, METAL,

- A. Fabricate food service equipment according to NSF (standards 2, 4 & 7) requirements. Factory assemble equipment to the greatest extent possible.
- B. STAINLESS-STEEL EQUIPMENT: for all parts of custom tables, tops, benches, sinks, cabinets, etc., as drawn or as specified, shall be AICI type 304 (18-8 Austenitic). All gauges called for shall be U.S. Standard Gauges, "S/S" or "S.S." as shown in the drawings or specifications, shall indicate stainless steel.
  - 1. Edges and Backsplashes: Provide equipment edges and backsplashes indicated complying with referenced SMACNA standard, unless otherwise indicated.
  - 2. Apply sound dampening to underside of metal work surfaces, including sinks and similar units. Provide coating with smooth surface and hold coating 1 inch (25 mm) back from open edges for cleaning.

3. Tables: Fabricate with reinforced tops, legs, and reinforced undershelves or cross bracing to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:
  - a. Tops: Minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
  - b. Legs: 1-5/8 inch (41.3 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stain-less steel with stainless-steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
  - c. Undershelves: Minimum #16 gauge / 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
  - d. Top and Undershef Reinforcement: Provide minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.
  - e. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
4. Sinks: Fabricate of minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel with fully welded, 1-piece construction. Construct 2 sides and bottom of sink compartment from 1 stainless-steel sheet with ends welded integral and without overlapping joints or open spaces between compartments. Provide double-wall partitions between compartments with 1/2-inch- (13-mm-) radius rounded tops that are welded integral with sink body. Cove horizontal, vertical, and interior corners with 3/4-inch (19-mm) radius. Pitch and crease sinks to waste for drainage without pooling. Seat wastes in die-stamped depressions without solder, rivets, or welding.
  - a. Wastes: 2-inch (50-mm), stainless steel ball valve, rotary-handle waste assembly with stainless-steel strainer plate, rough chrome plated body.
  - b. Drainboards: Minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, pitched to sink at 1/8 inch/12 inches (3 mm/300 mm) of length. Reinforce drainboards with minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
  - c. Legs: 1-5/8 inch (41.3 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stain-less steel with stainless-steel gusset welded to #12 gauge / 0.1094-inch- (2.779-mm-) thick, stainless-steel support plate. Provide adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.

- d. Drainboard Braces: 1 inch (25 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588- mm-) thick stainless steel, unless otherwise indicated.
    - e. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
  5. Wall Shelves and Overshelves: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated, and with minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick, stainless-steel shelf tops.
  6. Drawers: Provide lift-out type, 1-piece, die-stamped drawer pan fabricated from #18 gauge / 0.050-inch- (1.27-mm-) thick stainless steel with inside corners radiused. Support drawer pan with #16 gauge / 0.0625-inch- (1.588-mm-) thick, stainless-steel channel frame welded to drawer front. Provide 1-inch- (25-mm) thick, double-wall front fabricated from #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel and with integral recessed pull. Fill void in drawer front with semi rigid fiberglass sound dampening. Mount drawers on NSF-certified, full-extension, stainless-steel drawer slides that have minimum 100-lb (45-kg) load capacity per pair, ball-bearing rollers, and positive stop. Mount drawer slides for self-closing on drawer housing as indicated.
  7. Refrigerated Bases: Unit to be all welded construction and fabricated in accordance with NSF Standard 7.
    - a. Top: 18 gauge galvanized sub-top or 14 gauge stainless steel top.
    - b. Exterior: Front and Sides to be 18 gauge number 4 finish type 304 stainless steel; bottom and back to be 18 gauge galvanized (unless otherwise noted).
    - c. Interior liner: 20 gauge number 4 finish type 304 stainless steel with 3/8" radius corners.
    - d. Insulation: Minimum 2" thick polyurethane foam in place insulation (CFC free).
    - e. Doors: 18 gauge front and 20 gauge door pan number 4 finish type 304 stainless steel with 2" polyurethane foam in place insulation, long-life press in place gasket.
    - f. Drawers: 300 lb. capacity with 14 gauge stainless steel track system, tandem 2" all stainless steel skate wheels, each drawer accommodates two 6" deep, 12" x 20" pans side by side.
    - g. Shelving: Each door section shall have stainless steel wire racks.
  8. Refrigerated Pan Rails: Unit to be all welded construction and fabricated in accordance with NSF Standard 7.

- a. Top: 16 gauge number 4 finish type 304 stainless steel top and inner liner.
  - b. Outer liner: To be 18 gauge type 304 stainless steel; bottom and back to be 18 gauge galvanized (unless otherwise noted).
  - c. Insulation: Minimum 2" thick polyurethane foam in place insulation (CFC free).
  - d. Drain: Provide with 1" stainless steel drain
  - e. Control: Provide with on/off control to be field installed.
- C. Welding: Use welding rod of same composition as metal being welded. Use methods that minimize distortion and develop strength and corrosion resistance of base metal. Provide ductile welds free of mechanical imperfections such as gas holes, pits, or cracks.
1. Welded Butt Joints: Provide full-penetration welds for full-joint length. Make joints flat, continuous, and homogenous with sheet metal without relying on straps under seams, filling in with solder, or spot welding.
  2. Grind exposed welded joints flush with adjoining material and polish to match adjoining surfaces.
  3. Where fasteners are welded to underside of equipment, finish reverse side of weld smooth and underpressed.
  4. Coat unexposed stainless-steel welded joints with suitable metallic-based paint to prevent corrosion.
  5. After zinc-coated steel is welded, clean welds and abraded areas and apply SSPCPaint 20, high-zinc-dust-content, galvanizing repair paint to comply with ASTM A 780.
- D. Fabricate field-assembled equipment prepared for field-joining methods indicated. For metal butt joints, comply with referenced SMACNA standard, unless otherwise indicated.
- E. Where stainless steel is joined to a dissimilar metal, use stainless-steel welding material or fastening devices.
- F. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing, and finishing.
- G. Sheared Metal Edges: Finish free of burrs, fins, and irregular projections.
- H. Provide surfaces in food zone, as defined in NSF 2, free from exposed fasteners.
- I. Cap exposed fastener threads, including those inside cabinets, with stainless-steel lock washers and stainless-steel cap (acorn) nuts.

- J. Provide pipe slots on equipment with turned-up edges and sized to accommodate service and utility lines and mechanical connections.
- K. Provide enclosures, including panels, housings, and skirts, to conceal service lines, operating components, and mechanical and electrical devices including those inside cabinets, unless otherwise indicated.
- L. Seismic Restraints:
  - 1. Fabricate to comply with referenced "SMACNA Guidelines for Seismic Restraint of Kitchen Equipment" in any State, province, or jurisdiction that has legislated this requirement as necessary for acceptance. This shall include:
    - a. Identifying these items on his submittal drawings, Plans, Elevations, and Sections.
    - b. Showing required SMACNA methods of restraint on his submittal drawings.
    - c. Referencing the appropriate detail(s).
    - d. Obtain regulatory approval for all seismic engineering details

## 2.4 FABRICATION, MILLWORK/CASEWORK

- A. Fabricate food service equipment according to the "Manual of Millwork, current edition" of the Woodwork Institute, including all amended printed revisions, and NSF Standards. All composite wood products shall meet the latest California Air Resources Board (CARB) Composite Wood Products Regulations. Factory assemble equipment to greatest extent possible. All specially fabricated equipment must be by one manufacturer/fabricator per specialty acceptable to Consultant and the Owner.
- B. Solid Surface Material (SSM) shall be Caesarstone, Silestone or approved equal and installed over 3/4" plywood per manufacturer's instructions. Provide air space, trim and /or insulation around any heat or cold producing equipment to guard against discoloration and cracking.

## 2.5 EXHAUST HOOD FABRICATION

- A. Definitions:
  - 1. Listed Hood: A hood, factory fabricated and tested for compliance with UL-710 by a testing agency acceptable to authorities having jurisdiction.
  - 2. Type I Hood: A hood designated for grease exhaust applications.
  - 3. Type II Hood: A hood designed for heat and steam removal and for other non-grease applications.
  - 4. Non-listed Hoods are not acceptable for this project.



- B. General: Provide listed hoods with dual wall construction and manufactured from minimum #18 gauge / 0.050-inch- (1.27-mm-) thick type 304 stainless steel, unless otherwise indicated. FSEC shall verify size and location of all connections required before fabrication.
1. Exhaust hood performance tests shall be in accordance with ASTM F1704-05. Manufacturer, upon request, shall be required to submit validation that full capture and containment of appliance thermal plume and smoke can be accomplished at specified/design air volumes without modifications to duct size, filter velocity or hood/system static pressure.
  2. Hoods shall comply with current NFPA 96, NSF, ASHRAE 90.1, ASHRAE 154, CA-Title 24 (CA Based Projects Only), Local Applicable Codes and Manufacturers Recommendations.
  3. Product/system must meet the design, construction, performance and operational intent of the project. It is the responsibility of the FSEC to verify interface of the system with all associated trades including, but not limited to; electrical, mechanical, sheet metal, plumbing and controls per Division 23.
  4. Design exhaust volume shall be based on hood manufacturers heat load based design calculations and not estimated CFM/linear foot or minimum UL-710 listed volume.
- C. Grease Removal: Provide removable, stainless-steel, single stage, baffle-type grease filter. Provide minimum #18 gauge / 0.0781-inch- (1.984-mm-) thick, stainless steel filter frame and removable collection basins or troughs. Filters/baffles shall be UL 1046 Classified and tested according to ASTM Standard F 2519-05 "Standard Test Method for Grease Particle Capture Efficiency of Commercial Kitchen Filters and Extractors" by a nationally recognized testing laboratory acceptable to authorities having jurisdiction. The filters/baffles must be single stage and have a minimum extraction rate of 93% at 5 microns and 98% at 15 microns.
- D. Sound Level Criteria: Isolated grease filter sound levels shall not exceed an NC rating of 55 at full design exhaust volume.
- E. Light Fixtures: Provide NSF, UL, CSA AND CE-certified LED fixtures, vapor-tight sealed lenses, to provide 3500K with 50 foot candles at the cooking surface. Any exposed wiring shall be concealed in stainless-steel.
- F. Appliance Interlock: Hoods to be provided with Appliance Interlock Temperature Sensor to comply with IMC 2006 requirement, section 507.2.1.1.
- G. Exhaust-Duct Collars: Minimum #18 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel, FSEC shall provide all stainless steel duct collars and make final connections to hood, welded 100% grooved smooth and painted.

- H. Fires suppression system: Hoods to be provided with factory pre-piping for connection to wet chemical fire suppression system, model R102 as manufactured by "Ansul" or equal in accordance with UL300 standards.

- 1. Surface drop exposed piping shall be stainless steel.

## 2.6 FIRE SUPPRESSION SYSTEM

- A. Provide complete fire suppression system conforming to NFPA and UL300. System to be connected to factory pre-piping provided as part of the exhaust hood.
- B. Automatic actuation shall be by means of fusible link with no visible conduit. Manual activation shall be made possible with remote pull stations.
- C. System shall be furnished and installed by an Ansul certified distributor in accordance with manufacturer's instructions and the authority having jurisdiction.
- D. Microswitches shall be furnished as part of the system for "tie in" of building alarm and for make-up air/fire/fuel/shutdown.
- E. Gas valves shall be electric solenoid type and support simultaneous activation.

## 2.7 WALK-IN COOLERS/FREEZERS

- A. Panel Construction:
  - 1. Panels shall be pre-fabricated, sectional construction (minimum 5-inches thick for Coolers and Freezers), of tongue and groove design with foamed-in-place "double bubble" PVC gaskets (not glued, stapled, or nailed) on the male side of all interior and exterior panels and rigid urethane frame. Every panel shall be NSF and UL factory approved and bear the certifying labels. Walk-in box height to be 108"; Interior Height, except freezers with pre-fab floor in combination with cooler without floor to be 104" or unless otherwise specified.
  - 2. Gaskets shall be impervious to stains, greases, oils, and mildew and be resistant to chemical corrosion and ultraviolet radiation. Gasket operating temperature shall be -30 degrees F to 160 degrees F (-34 degrees C to +71 degrees C).
  - 3. Corner panels shall be 90-degree angles with coved corners; interior partition walls shall utilize `T' panels with coved corners. All panels shall be manufactured in accordance NSF approved standards.
  - 4. Panels shall be completely filled with rigid 100% foamed-in-place non-CFC urethane between interior and exterior metal `skins' which have been die-formed and gauged for uniformity in size. Rigid polyurethane blowing agents shall comply with current US EPA SNAP program listings. Slab urethane or polystyrene are not acceptable. In addition, wood shall not be acceptable in any panel including doors, walls, floor, and ceiling.

5. Insulation shall have a 95% closed cell structure with an average in-place density of 2.2 lbs. per cubic foot, and compression strength at yield point of 19 lbs. per square inch. The R-Values of the floor, ceiling and wall panels meet the requirements under the Energy Independence and Security Act of 2009 (EISA).
  6. Floor panels: Floor panels shall be die stamped with 3/8-inch radius NSF covered corners. All plane intersections shall be drawn, not cut and welded. Panels shall be fabricated similar to other panels and designed to readily withstand uniformly distributed loads, point loads for stationary shelving, rolling loads from hand truck and mobile food racks. Where noted, pre-fabricated floors shall withstand rolling loads from either manual pallet jacks or electric pallet jacks.
- B. Door Construction: Walk-in coolers and freezers shall have entry and exit door hardware that complies with all of the requirements of CBC Section 11B-404.2.8.1 and maneuvering clearances at the exterior side per CBC Section 11B-404.2.7 & 11B-309.4. Doors shall be flush (in-fitting) type, self-closing, 36-inches by minimum 80-inches high, 20-gauge stainless steel interior and exterior.
1. Doors shall be mounted with three adjustable cam-lift hinges (Kason 1245) and hydraulic adjustable automatic hold-open (rack and pinion) door closers. Door hardware shall be chrome plated Kason model 27C. Mounting height of latching hardware shall be 34 to 44 inches above finish floor. All hardware shall meet the requirements of CBC 11B-404.2.7 & 11B-309.4.
  2. Door latches shall lock and have a safety release to prevent entrapment (one quarter turn of the release handle unlocks the door from the inside).
  3. All freezer door will be provided with a Department of Energy approved heater strip, heated sweep gaskets, and a heated pressure relief port.
  4. All door sections to have raised casings. Light fixtures to be wired through digital controllers, refer to para. 2.7.E.5 for controller requirements. Provide additional switches as required for light activation from multiple locations.
  5. The doorjamb, frames, and thresholds shall be made of durable Fiberglass Reinforced Plastic (FRP) or polyvinyl chloride (PVC).
- C. Assembly: Panels shall be assembled by Posi-Locs or equal which shall be foamed-in-place and activated by a hex wrench. Floor panels shall utilize post tension construction within the floor panels. Access ports to locking devices shall be covered by snap caps and shall be located in interior of walk-in.
- D. Finishes: Refer to the finishes shown and the Foodservice Equipment Schedule paragraph 3.5.
1. Surfaces (walls, ceiling and closure panels):

- a. Exposed exterior 20-gauge Type 304 stainless steel, #4 finish, Rimex Windsor pattern.
- b. Unexposed exterior surfaces to be 20 gauge smooth galvanized steel.
- c. Interior finishes: minimum 20 gauge type 304 stainless steel on walls and white stucco aluminum on ceiling.
- d. Interior floor: verify on finish schedule and item specification, paragraph 3.5.

E. Accessories:

1. Provide interior and exterior doors with 14 gauge (stainless steel) kickplates to 36-inches high.
2. Provide (s/s) closure panels to interior ceiling and all adjacent walls, finished with 90- degree angles at the box and the ceiling/wall; no raw edges will be accepted.
3. Provide vinyl strip curtains.
4. Include LED light fixtures to provide 20 ft. candles of light throughout compartment.
5. Refrigerated compartments fabricated and standard, shall be fitted with flush mounted digital temperature controllers. Thermometers on such controllers shall be adjustable and calibrated after installation. All thermometers shall have an accuracy of 2 degrees. Controller shall be Modularm 75 LC, or equal, and include frame mounted door magnets for door ajar alarm, interior panic alarm button and motion detector activated automatic panic alarm. All controllers are to be programmable and have the capability of being connected to remote monitoring systems or building management systems.
6. Per document drawings, provide 14-inches by 24-inches view port - unheated for cooler door, heated for freezer door.
7. Freezer Door Fan Switches (at ambient facing freezer door only)
8. When Anthony doors are specified: include Optimax Pro LED Lighting.

F. Insulated Floor Depressions: The FSEC shall provide styrofoam insulation for cooler and freezer floors. Insulation shall be a minimum of 3 layers Dow high load 60 extruded polystyrene, 2-inch thick. Overall R-value to meet DOE requirements for freezer floors with vertical compressive strength of 69 psi and maximum water absorption of 0.1% by volume.

G. Approvals: Fire hazard classification according to ASTM E-84 (UL723) shall be a flame spread rating of 25 or less with a certifying UL label attached to every panel showing the meeting of the fire code. Smoke development rating to be 450 or less; NSF-listed with an approved toxicity rating.

- H. Walk-in coolers and freezers shall have level maneuvering clearances at the exterior side (CBC 118-404.2.4.1) and accessible entry and exit door hardware (CBC 11B-404.2.7, 11B-309.4 & 11B-404.2.8.1).
- I. Installation: Equipment identified under this section shall be erected by individuals approved by the manufacturer who qualify as “factory certified” installers.

## 2.8 REMOTE REFRIGERATION SYSTEMS

- A. Furnish and install mechanical refrigeration work as indicated and specified, complete and ready for use. All systems shall comply with the latest edition of Title 24, 2016 Building Efficiency Standards. Principal items of work include:
  - 1. Mechanical refrigeration systems, including compressor units, condensers, refrigerant piping, evaporator coils, control valves, compressor racks, weather covers and required miscellaneous items. Refrigeration equipment shall consist of two major assemblies. One is the condensing unit assembly with all necessary components, factory installed and wired including single point electrical control panel, circuit breakers and contactors, OSHA approved fan guards, aluminum flexible conduit for internal wiring, suction filter, sight glass, drier, adjustable dual pressure control, flexible pressure hoses, Rotolock compressor adaptors and necessary tubing. The other is the refrigeration coil assembly/heat exchanger with expansion valve, electronic thermostat temperature control with electronic defrost time clock and on/off power switch, completely factory mounted and factory pressure tested with dry nitrogen.
    - a. Utilize refrigerant with an ozone depleting potential of 0
    - b. R-407A Low to Medium Temperatures
    - c. Other refrigerant approved by the Department of Energy for use in remote systems after December 31, 2017.
    - d. Glycol – Food Grade
  - 2. Furnishing of motor starters and walk-in refrigerator/freezer thermostats for installation under Electrical Section.
  - 3. Sleeves, inserts, hangers, supports and other incidental items necessary to complete the work.
  - 4. Cutting and patching of non-structural and other incidental items necessary to complete the work on this section.
  - 5. Testing, charging, adjusting, operational testing and cleaning of equipment. Conduct all tests as required by local inspecting agencies concerned with this project. Each refrigeration items specification is written to provide minimum specifications and scope of work.

6. Refrigeration equipment shall be designed and installed to maintain the following general temperature unless otherwise specified.
  - a. Walk-In Refrigerators 1.7°C / 35°F
  - b. Walk-In Freezers -23.2°C / -10°F
  - c. Reach-In Refrigerators 1.7°C / 35°F
  - d. Reach-In Freezers -23.2°C / -10°F
  - e. Undercounter Refrigerators 1.7°C / 35°F
  - f. Undercounter Freezers -23.2°C / -10°F
  - g. Cold Pan 4°C / 39°F
  
- B. Compressors and Condensing Unit: Factory assembled, scroll compressors with air cooled condensers operating at such speed within recommended range of section and discharge pressures for economical operation and with required BTU rating per hour, sizes and capacities in accordance with specifications. Provide units of same manufacturer and type throughout, new standard cataloged, to operate with refrigerant R-407A. 100 degrees ambient air, capacities selected on 16 hour running time basis for medium temperature fixtures and 18 hour running time basis for low temperature fixtures. For locations where the ambient exceeds 100 degrees Fahrenheit, the system is to be engineered for the maximum recorded ambient temperature. Additionally, all parallel systems shall include a minimum of one digital scroll compressor and be designed with 75% redundancy minimum.
  
- C. Condensing units shall be scroll air cooled condensing unit with rigid structural bases, 20 gauge weather covers, OSHA-approved fan guards and shrouds and waterproof electrical systems. Include internal inherent motor protection, suction line, shut off valves, liquid line shut off valves, oil pressure safety switches when required, adjustable dual pressure control, crank case heaters and oil separators on systems with longer than 100 lin. ft. run from condensing unit to the evaporator coil. Any outdoor installation within 20 miles of the salt air environment shall be provided with coated condenser coils.
  
- D. Medium temperature evaporators shall be equipped with Electronically Commutated Motors (ECM). Coils shall be low profile UL/NSF approved units with inline fans and cross fins staggered. Provide copper tubing, aluminum cased, permanently lubricated motors with thermal overload protection. Unit shall be provided with evaporator controller system capable of providing evaporator fan control, remote monitoring and diagnostics. Control system shall be interconnected to the local area network and be capable of sending alarm alerts via mobile telephone or e-mail. Water proof electrical system pre-wired to a single connection. Coils are designed to operate above 34 degrees Fahrenheit.
  
- E. Low Temperature evaporators shall be equipped with Electronically Commutated Motors (ECM). Coils shall be low profile UL/NSF approved units with inline fans and cross fins staggered. Provide cooper tubing, aluminum cased, permanently lubricated motors with thermal overload protection. Unit shall be equipped with electric demand defrost

controller system. Controller system shall provide on-demand defrost, remote monitoring and diagnostics and be interconnected to the local area network with the capability of sending alarm alerts via mobile telephone or e-mail. Water proof electrical system pre-wired to a single connection. Coils are designed to operate in a range from 30 degrees above Fahrenheit to -20 degrees Fahrenheit.

- F. Refrigerant lines shall be type "L" ACR copper tubing with wrought copper fittings assembled by silver soldering joints.
- G. Coil drains shall be 1" IPS copper. Route and pitch 1/2" per foot to drain. Provide electrical heaters on freezer drains.
- H. Refrigeration lines insulation shall have a minimum 3/4" Armstrong Armaflex AP Pipe insulation sealed with adhesive foam insulation. For glycol systems the minimum insulation shall be 3/4". Tape fittings to be sufficient thickness to prevent condensation. Lines ran externally shall include a hard white PVC cover.
- I. Installation of this refrigeration equipment shall be performed by individuals approved by the manufacturer who qualify as "factory certified" installers.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Unless expressly stipulated, and in a timely manner, no additional allowances will be made for Contractors or Manufacturers for errors, omissions or ambiguities not reported at time of bidding. Carefully review and compare the Contract Documents and at once report to Owner and/or Designer any errors, ambiguities, inconsistencies or omissions. Unless expressly stipulated, and in a timely manner, Kitchen Equipment Contractor shall be liable to Owner or Designer for any damage resulting from such errors, inconsistencies or omissions in the Contract Documents. Work shall not be done without approved Drawings, Specifications and/or Modifications and without receiving prior written receiving authorizations from Owner or Designer. Drawings and equipment specifications are intended to complement each other. Therefore, neither should be considered complete without the others.
- B. Examine areas and conditions, with Installer present, for compliance with requirements or installation tolerances, service-utility connections, and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- C. Examine roughing-in for piping, mechanical, and electrical systems to verify actual locations of connections before installation.
- D. Verify all conditions at the building, particularly door openings and passageways for large equipment. Coordinate with General Contractor access to insure delivery of equipment to the required areas. Coordination shall include, but not be limited to, early delivery,

hoisting, window removal and/or delay of wall construction. All special equipment, handling charges, window removal, etc. shall be paid for by the Food Service Equipment Contractor.

- E. Any and all food service equipment and equipment systems noted as “by owner/operator”, “by purveyor”, or “existing” in the food service construction documents are presented for reference only. These representations must be verified in writing by the food service equipment contractor, owner, operator, and/or general contractor prior to the release of “for construction” documentation. It will be the general contractor’s responsibility to further verify and coordinate all necessary information pertaining to this equipment or systems making up, or relating to, this equipment including, but not limited to, local health department regulations, local sanitation code requirements, mechanical, structural, plumbing and electrical requirements prior to commencement of construction. Consultant or Architect take no responsibility for design, intent, function, performance, utility requirements, or code compliance of non-specified equipment.

### 3.2 INSTALLATION, GENERAL

- A. Install food service equipment level and plumb, according to manufacturer's written instructions, original design, and referenced standards.
- B. Complete equipment field assembly, where required, using methods indicated.
  - 1. Provide closed butt and contact joints that do not require a filler.
  - 2. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish. Comply with welding requirements in "Fabrication, General" Article.
- C. Install equipment with access and maintenance clearances according to manufacturer's written instructions and requirements of authorities having jurisdiction.
- D. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections. Cut holes and provide sleeves for pipes on equipment, for drains, electrical, plumbing, etc., as required for proper installation. Verify sizes with Owner on the following items before ordering or fabrication: steam pans, sheet pans, trays, glass and cup racks.
- E. Except for mobile and adjustable-leg equipment, securely anchor and attach items and accessories to walls, floors, or bases with stainless-steel fasteners, unless otherwise indicated.
- F. Install hoods to comply with NFPA 96 requirements and to remain free from vibration when operating.
- G. Install seismic restraints according to referenced SMACNA standard.
- H. Install trim strips and similar items requiring fasteners in a bed of sealant. Fasten with stainless-steel fasteners at 48 inches (1200 mm) o.c. maximum.



- I. Install sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Provide airtight, watertight, vermin-proof, sanitary joints.
- J. Prohibit cold storage rooms from being used by any other trade for storage or work areas. Repair or cause replacement to any damaged areas on the interior of the cold storage rooms, if the damage was caused due to the cold storage rooms being used for storage or work areas.

### 3.3 PROTECTING

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.

### 3.4 START-UP, TESTING AND COMMISSIONING

- A. Startup Services: Engage factory-authorized service representatives to perform startup services for all equipment.
  - 1. Coordinate food service equipment startup with service-utility testing, balancing, and adjustments. Do not operate steam lines before they have been cleaned and sanitized. Provide demonstrations for both operations and maintenance personnel.
  - 2. Remove protective coverings and clean and sanitize equipment, both inside and out, and re-lamp equipment with integral lighting. Where applicable, comply with manufacturer's written cleaning instructions.
  - 3. Test each equipment item for proper operation. Repair or replace equipment that is defective in operation, including units that operate below required capacity or that operate with excessive noise or vibration.
    - a. Start up and testing for ice making equipment to be performed by the Original Equipment Manufacturer's authorized representative after substantial completion by the FSEC prior to final testing. All issues of installation hook-up and operational conditions are to be addressed. Any conditions not meeting operational needs will be identified and reviewed with the FSEC and/or GC.
    - b. Type I grease hoods and fire protection systems are to be reviewed by the Original Equipment Manufacturer's authorized representative after substantial completion and prior to final testing. This review shall also take place prior to the start-up and demonstration of any cooking equipment under the hood. All issues of installation hook-up and operational conditions will be addressed. Any conditions not meeting operational needs will be identified and reviewed with the FSEC and/or GC. A field

inspection report will be provided as part of the Owner's equipment manual and submitted to the GC and local fire marshal when required by code.

4. Provide maintenance and proper operations training to both the client maintenance and operations staff.
  5. Provide maintenance manuals, service parts manuals and product schedule in accordance with paragraphs 1.4.K and 1.4.K.1
- B.* Demonstration and Commissioning: Representatives of authorized service agencies, manufacturer or original equipment supplier shall provide these services with FSEC in attendance.
1. Demonstrate in the presence of the owner, owner's designated representative and owner's maintenance and operations personnel the proper initial start-up, operation clean-up, preventative maintenance safety procedures of each item of equipment.
  2. FSEC is to provide a signed log or record of all demonstrations, training and start-ups conducted to the owner with equipment operations manuals.

### 3.5 FOOD SERVICE EQUIPMENT SCHEDULE

SIS# W010

ITEM # 1-01            AIR CURTAIN

Quantity:            One (1)  
Manufacturer:        Mars Air Systems  
Model:                NH272-2UD-TS

1. One (1) Model NH272-2UD-TS High Velocity Series 2 Air Curtain, for NSF Certified 72" wide door, Unheated, 208-230v/60/1-ph, Titanium Silver powder coated cabinet (Standard Production Color) cETLus, CE, NSF, Dimensions 14.00(h) x 72.00(w) x 15.62(d)
2. One (1) 5 year parts warranty, standard
3. One (1) 99-014 Steel Mechanical Universal Surface-mounted Plunger/Roller Switch
4. One (1) 99-014 Additional Steel Mechanical Universal Surface-mounted Plunger/Roller Switch, for use with double doors
5. One (1) MCPB-2U Motor Control Panel for two motors, 1 HP, Unheated, supplied with NEMA 1 Cabinet with HOA selector switch on the cover and are remote mounted
6. **Air curtain to be hung from ceiling.**

ITEM # 1-31            PRE-RINSE ASSEMBLY

Quantity:            One (1)  
Manufacturer:        T&S Brass  
Model:                B-0133-B08C

1.     One (1) Model B-0133-B08C EasyInstall Pre-Rinse Unit, spring action gooseneck, 8" wall mount, JeTSpray low flow valve (0.65 gallons per minute), wall bracket

ITEM # 1-02            BUMPER RAILS

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1.     One (1) Model STAINLESS STEEL (LOT) Provide 14 ga. stainless steel bumper rails guards mounted at 34" above the finished floor. Stainless steel shall have a #4 finish. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-03            EMPLOYEE LOCKERS   <NIC>

Quantity:            Two (2)  
Manufacturer:        NIFSEC  
Model:                REFER TO ARCH. SECT.

1.     Two (2) Model REFER TO ARCH. SECT. Employee Lockers - Refer to arch. sect.

ITEM # 1-04            DRY STORAGE SHELVING UNITS

Quantity:            Six (6)  
Manufacturer:        Cambro  
Model:                CAMSHELVING

1.     Six (6) Model CAMSHELVING (LOT) 4 tier, 21" deep shelving units, posts to be 72" high, shelving units shall have a smooth surface without any welding or crevices. Posts and traverses shall be made of steel metal core with thick polypropylene covers. Shelf plates shall have a smooth surface without any welding or crevices, be of a structural web design and removable to be washed manually or in a commercial dishwasher, with solid plates on bottom shelf, and louvered on all other shelves. Shelf plates shall contain CamGuard, antimicrobial that inhibits the growth of mold, fungus and bacteria. Posts shall have dovetails that allow shelves to be adjusted in 4" increments. Provide dunnage

stands for all traverses 54" or longer and at corners where corner connectors are used. Verify evaporator coil location, shelving units below coil to have 3 shelves. Provide in the configuration shown on plans, verify final sizes of shelves and posts by field measuring prior to ordering.

ITEM # 1-05            CORNER GUARDS

Quantity:            Four (4)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1. Four (4) Model STAINLESS STEEL (LOT) Provide 16 ga. stainless steel corner guards at 6'-6" in height. Stainless steel shall have a #4 finish. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-06            WALK-IN REFRIGERATOR (REMOTE)

Quantity:            One (1)  
Manufacturer:        RMI Refrigerator Manufacturers Inc.  
Model:                CUSTOM

1. One (1) Model CUSTOM Combo Cooler/Freezer unit 7'-10" x 10'-10" x 9'-0" OA height  
4,325 Lbs, 298cu. ft.  
Floor detail: depression w/ insulation (freezer only)  
Wall thickness: 5" freezer  
Ceiling thickness: 5" freezer  
Exterior exposed: Stainless 20g 304 #4 pvc  
Exterior unexposed: Galvanized 20g  
Interior walls: Antimicrobial 24g SM White, Interior Ceiling: Antimicrobial 24g SM White  
Swing door: Qty: (1) 36" x 80" h - 20 Legacy Door w/ Positive Latch 20 ga s/s - RC  
Window: Qty: (1) 15" x 20" viewport w/ heat  
Kick plate: Qty: (2) 36" High Kickplate  
Trim: enclosure trim as needed  
Light Fixtures: Qty: (2) 4' LED light fixture w/ 18w lamps  
Strip Curtain: Qty (1) Strip curtain 36" x 78"

ITEM # 1-07            EVAPORATOR COIL (COOLER) <Included>

Quantity:            One (1)  
Manufacturer:        Airdyne Refrigeration Inc.  
Model:                ADT052AEK

1. One (1) Model ADT052AEK Evaporator coil provided as an integral part of the remote refrigeration system.

ITEM # 1-08            WALK-IN FREEZER (REMOTE)   <Included>

Quantity:            One (1)  
Manufacturer:        RMI Refrigerator Manufacturers Inc.  
Model:                CUSTOM

1. One (1) Model CUSTOM Part of item # 1-06

ITEM # 1-09            EVAPORATOR COIL (FREEZER)   <Included>

Quantity:            One (1)  
Manufacturer:        Airdyne Refrigeration Inc.  
Model:                LET047BEK

1. One (1) Model LET047BEK Evaporator coil provided as an integral part of the remote refrigeration system.

ITEM # 1-10            FREEZER STORAGE SHELVING UNITS

Quantity:            Three (3)  
Manufacturer:        Cambro  
Model:                CAMSHELVING

1. Three (3) Model CAMSHELVING (LOT) 4 tier, 21" deep shelving units, posts to be 72" high, shelving units shall have a smooth surface without any welding or crevices. Posts and traverses shall be made of steel metal core with thick polypropylene covers. Shelf plates shall have a smooth surface without any welding or crevices, be of a structural web design and removable to be washed manually or in a commercial dishwasher, with solid plates on bottom shelf, and louvered on all other shelves. Shelf plates shall contain CamGuard, antimicrobial that inhibits the growth of mold, fungus and bacteria. Posts shall have dovetails that allow shelves to be adjusted in 4" increments. Provide dunnage stands for all traverses 54" or longer and at corners where corner connectors are used. Verify evaporator coil location, shelving units below coil to have 3 shelves. Provide in the configuration shown on plans, verify final sizes of shelves and posts by field measuring prior to ordering.

ITEM # 1-11                    REFRIGERATOR STORAGE SHELVING UNITS

Quantity:                    Two (2)  
Manufacturer:                Cambro  
Model:                        CAMSHELVING

1.     Two (2) Model CAMSHELVING (LOT) 4 tier, 21" deep shelving units, posts to be 72" high, shelving units shall have a smooth surface without any welding or crevices. Posts and traverses shall be made of steel metal core with thick polypropylene covers. Shelf plates shall have a smooth surface without any welding or crevices, be of a structural web design and removable to be washed manually or in a commercial dishwasher, with solid plates on bottom shelf, and louvered on all other shelves. Shelf plates shall contain CamGuard, antimicrobial that inhibits the growth of mold, fungus and bacteria. Posts shall have dovetails that allow shelves to be adjusted in 4" increments. Provide dunnage stands for all traverses 54" or longer and at corners where corner connectors are used. Verify evaporator coil location, shelving units below coil to have 3 shelves. Provide in the configuration shown on plans, verify final sizes of shelves and posts by field measuring prior to ordering.

ITEM # 1-12                    CLASS K FIRE EXTINGUISHER   <NIC>

Quantity:                    One (1)  
Manufacturer:                NIFSEC  
Model:                        SEE ARCH. SECT

1.     One (1) Model SEE ARCH. SECT Class K Fire Extinguisher - NIFSEC, See Architectural Section.

ITEM # 1-13                    MOBILE HEATED CABINET

Quantity:                    One (1)  
Manufacturer:                Cres Cor  
Model:                        H-137-SUA-12D

1.     One (1) Model H-137-SUA-12D Cabinet, Mobile Heated, insulated, top-mount heater assembly, recessed push/pull handles, magnetic latch, (12) sets chrome plated wire universal angle slides for 12" x 20" thru 18" x 26" pans on 4-1/2" centers, adjustable 1-1/2" centers, reversible dutch doors, (4) heavy duty 5" swivel casters (2) braked, anti-microbial latches, stainless steel construction, NSF, cCSAus, ENERGY STAR®
2.     One (1) Standard Warranty: 1 year labor with 3 year parts warranty
3.     One (1) 120v/60/1-ph, 1500 watts, 12.0 amp, 10 ft power cord, NEMA 5-15P, standard
4.     One (1) Right-hand door swing, standard

5. One (1) Model 1405-159 Perimeter Bumper, add 2" to OA dimensions, non-marking, gray

ITEM # 1-14                    EXHAUST HOOD (TYPE I)

Quantity:                    One (1)  
Manufacturer:                Accurex  
Model:                        XXDW-96.00-S

1. One (1) Model XXDW-96.00-S Performance: Dimensions:

Section 1:

Exhaust (CFM): 1,800  
MUA (CFM): 1,400  
Hood: 96" L x 48" W x 24" H  
Supply Plenum (Front): 96" L x 14" W x 10" H

Collar(s):

Exhaust:(1) 12" W x 14" L  
MUA: (2) 10" W x 20" L

Configuration:

Performance Enhancing Lip (P.E.L.) for up to 31% Lower Exhaust Rates  
Sloped Grease Trough with Enclosed Grease Cup per NFPA 96 Requirements  
Material - 300 Series SS 100% Construction  
UL 710 Listed w/ out Exhaust Fire Damper  
Filter - X-Tractor - Stainless Steel  
Lights - Recessed LED Light Fixtures (2)  
Shipped Loose Exhaust Collar(s)  
Factory Mounted Supply Collar(s)  
Zero Clearance Top  
Zero Clearance Front  
Factory Mounted 3" Back Airspace

Accessories:

Air Supply Plenum (ASP) on Front

Kitchen Ventilation hood(s) shall be of the Type I, exhaust only wall canopy suitable for all types of cooking applications. The hood(s) shall be U.L. 710 Listed without a fire damper (with optional) for 400°F, 600°F, or 700°F rated cooking appliances. Please visit

www.ul.com for U.L. 710 listing for performance and size options. Make-up air shall be independently provided.

The hood(s) exterior shall be constructed of a minimum of 18 gauge 400 series stainless steel (300 series optional). The hood(s) shall be constructed using the standing seam method for optimum strength and with a Performance Enhancing Lip (PEL) to improve capture efficiency by turning air back into the hood. Front panels shall be of double wall construction with 1 inch insulation to add additional strength and rigidity. An integral 3 inch air space is provided to meet NFPA® 96 clearance requirements against limited combustible walls. Integral 3 inch air space may be omitted for non-combustible construction. All seams, joints and penetrations of the hood enclosure shall be welded and/or liquid tight. Lighter material gauges, alternate material types and finishes are not acceptable. All unexposed interior surfaces shall be constructed of a minimum 18 gauge corrosion resistant steel including, but not limited to ducts, plenum, and brackets.

The hood(s) shall include a filter housing constructed of the same material as the hood. The Grease-X-Tractor high efficiency stainless steel filters shall be U.L. 1046 Classified and NSF Certified as manufactured by Accurex, in sufficient number and size to ensure optimum performance. Grease-X-Tractor filters shall direct the exhaust airflow through individual cyclone chambers, utilizing centrifugal impingement grease extraction technology. The filter housing shall terminate in a pitched, full length grease trough which shall drain into a removable grease container. These filters shall have a grease removal efficiency of 69% at 8 microns (51% from 3-10 microns) and static pressure drop of 0.7-0.8 inWC.

Vapor proof, U.L. Listed incandescent (recessed, fluorescent and LED optional, restrictions apply) light fixtures shall be pre-wired to a junction box located at the top of the hood for field connection. Wiring shall conform to the requirements of the NFPA® 70.

The canopy hood(s) shall be constructed by Accurex. They shall be built in accordance with the NFPA® 96, IMC, UMC, and bear the NSF Seal of Approval. The hood manufacturer shall provide, on request, the necessary data that confirms compliance with the code authorities listed above.

ITEM # 1-15                      EXHAUST HOOD TRIM AND CLOSURE PANEL

Quantity:                      One (1)  
Manufacturer:                Custom  
Model:                         STAINLESS STEEL

1.        One (1) Model STAINLESS STEEL Approximately 9'-0" l x 10'-0" w. Provide 18 ga stainless steel exhaust hood trim and closure panels with #4 finish. Provide all



necessary closure, louvers and trim strips for a complete installation. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-16 FIRE PROTECTION SYSTEM

Quantity: One (1)  
Manufacturer: Ansul Fire Protection  
Model: R102

1. One (1) Model R102 Provide One (1) each Fire Protection System complete with nozzles, fusible links, piping, pull box, and actuators, utilizing a wet chemical extinguishing agent fabricated and installed by an approved Ansul system installer. Provide in accordance with complete drawings, details, and specifications section 114000. System to be an R-102 automatic type and be manufactured and installed per the current NFPA guidelines and be U.L. approved. Cylinders shall be mounted on wall in a stainless steel enclosure, or mounted in a stainless steel cabinet attached to the exhaust hood. All piping to be concealed with the exception of drops which shall be chrome sleeved and of as minimal exposure as possible. Size, number, and location of nozzles or fusible links to be in accordance with U.L. limits for this particular system. Fire system contractor shall provide engineered drawings, acquire permit, coordinate start-up and testing with the appropriate Fire Officials, and obtain final certification. Provide as-built drawings at completion of install. Fire System installer to provide adequate job site visits to coordinate installation of un-exposed pipe and installation of system. Include the appropriately sized and approved electronic gas shut-off valve(s).

ITEM # 1-17 FIRE PULL BOX <NIC>

Quantity: One (1)  
Manufacturer: Custom  
Model: PART OF ITEM #1-16

1. One (1) Model PART OF ITEM #1-16 Fire Pull Box - Box by electrician, Mechanism part of item #1-16 Fire Protection System.

ITEM # 1-18 WALL FLASHING

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL (LOT) Approximately 19'-9" I. Provide 20 ga. stainless steel wall flashing from floor to exhaust hood with 6" fluting (vertical) and a #4 finish. Provide all necessary closure and trim strips for a complete installation. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-19            SPARE NO.

ITEM # 1-20            SPARE NO.

ITEM # 1-21            CONVECTION OVEN

Quantity:            One (1)  
Manufacturer:        Montague Company  
Model:                2-115A

1. One (1) Model 2-115A Vectaire Convection Oven, gas, double-deck, bakery depth, thermostatic controls, single speed fan, vertical opening doors with windows, stainless steel top, front & sides, 3" high flue deflector with stainless steel front trim, 6" adjustable legs, 115,000 BTU per deck, NSF, CSA Star
2. One (1) Dormont Model 16125KIT2S48 Dormont Blue Hose™ Moveable Gas Connector Kit, 1-1/4" inside dia., 48" long, covered with stainless steel braid, coated with blue antimicrobial PVC, 1 SnapFast® QD, 2 Swivel MAX®, 1 full port valve, coiled restraining cable with hardware, 449,000 BTU/hr minimum, limited lifetime warranty
3. One (1) Standard warranty: one year parts and labor warranty
4. One (1) Extended one year warranty, per section
5. One (1) Natural gas
6. One (1) (2) 120v/60/1ph, 3/4 hp, cord with 3-prong plug
7. One (1) 2-Speed fan motor, per deck
8. One (1) Total of 6 oven racks per deck, std. (8#)
9. One (1) Rack glides, 11-position
10. One (1) Casters with 5" wheel 6" OA (set of 4)
11. One (1) Model PILOT RE-LIGHT SYSTEM Pilot Re-light system
12. One (1) Model THERMOSTAT Throttling-type gas thermostat (add G suffix)
13. One (1) Model DOOR HANDLES Door Handle with Shrink Wrapped Grips
14. One (1) Model SEISMIC Seismic Plates between decks
15. One (1) Model SEISMIC Seismic Feet, two minimum
16. UNITS TO BE SHIPPED STACKED AND CRATED.

ITEM # 1-22            HD RANGE, 36", 6 OPEN BURNERS

Quantity: One (1)  
Manufacturer: Montague Company  
Model: 36-5

1. One (1) Model 36-5 Legend™ Heavy Duty Range, gas, 36", (6) 12" 30,000 BTU open burners, open cabinet base with stainless steel front & 4" flue riser, black sides with black intermediate & bottom shelves, 6" high adjustable stainless steel legs, 180,000 BTU, NSF, cETLus, CE
2. One (1) Dormont Model 16125KIT2S48 Dormont Blue Hose™ Moveable Gas Connector Kit, 1-1/4" inside dia., 48" long, covered with stainless steel braid, coated with blue antimicrobial PVC, 1 SnapFast® QD, 2 Swivel MAX®, 1 full port valve, coiled restraining cable with hardware, 449,000 BTU/hr minimum, limited lifetime warranty
3. One (1) Standard warranty: one year parts and labor warranty
4. One (1) Natural gas
5. One (1) 1" Left rear manifold with pressure regulator (up to 500,000 BTU/hr)
6. One (1) Cap & stainless steel manifold cover, left
7. One (1) Cap & stainless steel manifold cover, right
8. One (1) Guard rail finished end
9. One (1) Back, stainless steel for range
10. One (1) Casters with 5" wheel 6" OA (set of 4)

ITEM # 1-23 WALL FLASHING

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL (LOT) Approximately 9'-0" l. Provide 20 ga. stainless steel wall flashing from floor to exhaust hood with 6" fluting (vertical) and a #4 finish. Provide all necessary closure and trim strips for a complete installation. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-24 WORK TABLE

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 4'-0" l x 2'-6" w. Provide stainless steel work table with 1-5/8" legs with adjustable bullet feet, lower and/or mid shelves, 6" high back and end splash (where required). Top shall be 14 ga stainless steel, and legs

shall be 16 ga. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-25            WALL SHELF (KNIFE BRACKETS)

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1.     One (1) Model STAINLESS STEEL Approximately 4'-0" l x 1"-0" w. Provide stainless steel wall shelf with knife brackets. Wall shelf shall be: 16 ga stainless steel with #4 finish, bracket shall be 14 ga stainless steel. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-26            MOBILE DRYING RACK

Quantity:            Two (2)  
Manufacturer:        Cambro  
Model:                CAMSHELVING

1.     Two (2) Model CAMSHELVING (LOT) 4 tier, 24" deep shelving units, posts to be 72" high, shelving units shall have a smooth surface without any welding or crevices. Posts and traverses shall be made of steel metal core with thick polypropylene covers. Shelf plates shall have a smooth surface without any welding or crevices, be of a structural web design and removable to be washed manually or in a commercial dishwasher, with solid plates on bottom shelf, and louvered on all other shelves. Shelf plates shall contain CamGuard, antimicrobial that inhibits the growth of mold, fungus and bacteria. Posts shall have dovetails that allow shelves to be adjusted in 4" increments. Provide with CSRDB donut bumper and CSCTL casters with brake. Verify sizes for shelves and posts by field measuring prior to ordering.

ITEM # 1-27            3 COMPARTMENT POT SINK

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1.     One (1) Model STAINLESS STEEL Approximately 13'-0" l x 2'-6" w. Provide stainless steel pot sink assembly with 1-5/8" legs with adjustable bullet feet, under and/or mid shelves, 10" high back and end splash (where required). Top shall be 14 ga stainless

- steel, and legs shall be 16 ga. Fabricate and install per complete drawings, schedules, elevations, and details.
2. One (1) CSS Model SCRAP SINK Provide 16 ga stainless steel sink tub measuring approximately 20" l x 18" w x 8" d. Welded in place with polished seams. Provide with rotary waste valve.
  3. One (1) CSS Model SCRAP BASKET Provide 16 ga stainless steel scrap basket measuring 19 1/2" l x 19 1/2" w x 7 3/4" d. Scrap basket to be constructed with coved corners, perforated holes, welded 1/4" x 1/4" h round solid stainless steel rod feet, and rack glide. Perforated holes to be 3/16" at 1/2" on center on all four sides and bottom of basket. Rack glide with lift out handles, to be square tubing and fully welding.
  4. Three (3) CSS Model SINKS Provide 16 ga stainless steel sink tub measuring approximately 24" w x 26" d x 14" h. Welded in place with polished seams.
  5. Three (3) Fisher Model 29033 DrainKing Waste Valve, flat strainer, overflow body, chrome finish

ITEM # 1-28            SPARE NO.

ITEM # 1-29            SPARE NO.

ITEM # 1-30            SPARE NO.

ITEM # 1-32            SPLASH MOUNTED HI-FLO UTENSIL SINK FAUCET

Quantity:            Two (2)  
Manufacturer:        T&S Brass  
Model:                B-0291

1. Two (2) Model B-0291 Kettle & Pot Sink Faucet, Big-Flo, wall mounted 8" centers, 3/4" IPS model LL street EL inlets with locknuts, 18" swing nozzle, 175°F four arm handles, 1-1/4" dia. holes required in backsplash

ITEM # 1-33            WALL SHELF (KNIFE BRACKETS)

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 2'-0" l x 1'-0" w. Provide stainless steel wall shelf with knife brackets. Wall shelf shall be: 16 ga stainless steel with #4

finish, bracket shall be 14 ga stainless steel. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-34            UTENSIL RACK

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 6'-0" l x 1/4" w x 2" d. Provide stainless steel flatbar utensil rack with integral 1/4" x 2" mounting bracket. Include sliding hooks 8" on center. Stainless steel shall be type 304 with #4 finish. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-35            WALL FLASHING

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1. One (1) Model STAINLESS STEEL (LOT) Approximately 13'-0" l. Provide 20 ga. stainless steel wall flashing from floor to exhaust hood with 6" fluting (vertical) and a #4 finish. Provide all necessary closure and trim strips for a complete installation. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-36            HAND SINK

Quantity:            One (1)  
Manufacturer:        Eagle Group  
Model:                HSAP-14-ADA-FW

1. One (1) Model HSAP-14-ADA-FW 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
2. One (1) Model -LRS Left & right side splashes

ITEM # 1-37            HAND SINK FAUCET, SPLASH MOUNT

Quantity: One (1)  
Manufacturer: T&S Brass  
Model: B-1146-04

1. One (1) Model B-1146-04 Faucet Workboard, splash mounted, 4" centers, swivel gooseneck, 4" wrist action handles
2. One (1) 4" wrist action handle, standard
3. One (1) Model B-0199-01F-15 Aerator, non-splash, flow control, 1.40 gpm, 55/64"-27 UNS female threads

ITEM # 1-38 SPARE NO.

ITEM # 1-39 SPARE NO.

ITEM # 1-40 MOBILE WORK TABLE

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 4'-0" l x 2'-0" w x 2'-10" h. Provide stainless steel mobile work table with 1-5/8" legs, and lower and/or mid shelves. Top shall be 14 ga stainless steel, and legs shall be 16 ga. Provide 5" dia. heavy-duty, non-marking casters, all with brakes. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-41 ADA MOBILE WORK TABLE

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 4'-0" l x 2'-0" w x 2'-10" h. Provide stainless steel mobile work table with 1-5/8" legs, and lower and/or mid shelves. Top shall be 14 ga stainless steel, and legs shall be 16 ga. Provide 5" dia. heavy-duty, non-marking casters, all with brakes. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-42 MOBILE DRY STORAGE SHELVING UNITS

Quantity: Two (2)  
Manufacturer: Cambro  
Model: CAMSHELVING

1. Two (2) Model CAMSHELVING (LOT) 4 tier, 21" deep shelving units, posts to be 72" high, shelving units shall have a smooth surface without any welding or crevices. Posts and traverses shall be made of steel metal core with thick polypropylene covers. Shelf plates shall have a smooth surface without any welding or crevices, be of a structural web design and removable to be washed manually or in a commercial dishwasher, with solid plates on bottom shelf, and louvered on all other shelves. Shelf plates shall contain CamGuard, antimicrobial that inhibits the growth of mold, fungus and bacteria. Posts shall have dovetails that allow shelves to be adjusted in 4" increments. Provide dunnage stands for all traverses 54" or longer and at corners where corner connectors are used. Provide in the configuration shown on plans, verify final sizes of shelves and posts by field measuring prior to ordering.
2. One (1) Model CPMCHD000 Caster, 5", includes high density donut bumper, for high density Camshelving, gray

ITEM # 1-43 WORK TABLE W/2 COMPARTMENT PREP SINKS

Quantity: One (1)  
Manufacturer: Custom  
Model: STAINLESS STEEL

1. One (1) Model STAINLESS STEEL Approximately 9'-0" l x 2'-6" w. Provide stainless steel work table with 1-5/8" legs with adjustable bullet feet, and under and/or mid shelves. Top shall be 14 ga stainless steel, and legs shall be 16 ga. Fabricate and install per complete drawings, schedules, elevations, and details.
2. One (1) CSS Model 2 COMP SINK Provide 16 ga stainless steel with 2 compartment sink tub measuring approximately 18" w x 24" d x 12" h each. Welded in place with polished seams.
3. Two (2) Fisher Model 29033 DrainKing Waste Valve, flat strainer, overflow body, chrome finish

ITEM # 1-44 SPLASH MOUNTED PREP SINK FAUCET

Quantity: One (1)  
Manufacturer: T&S Brass  
Model: B-0231-CR



1. One (1) Model B-0231-CR Faucet, 12" swing nozzle, 8" wall mount base, 1/2" NPT female Inlets, ceramas cartridges

ITEM # 1-45            SPARE NO.

ITEM # 1-46            TRASH RECEPTACLE W/DOLLY

Quantity:            Two (2)  
Manufacturer:       Rubbermaid Commercial Products  
Model:                FG262000GRAY

1. Two (2) Model FG262000GRAY ProSave® BRUTE® Container, without lid, 20 gallon, 19-1/2"D x 22-7/8"H, round, reinforced rims, built in handles, double rimmed base, high-impact plastic construction, gray, NSF
2. Two (2) All-plastic, professional-grade construction will not rust, chip or peel; resists dents.
3. Two (2) Reinforced rims add strength and durability
4. Two (2) Built-in handles allow easy, non-slip lifting and anti-jam nesting
5. Two (2) Double-ribbed base increases stability and dragging capacity
6. Two (2) USDA Meat & Poultry Equipment Group listed and assist in complying with HACCP guidelines.
7. Two (2) Certified to NSF Standard #2 and Standard #21
8. Two (2) Model FG264043BLA BRUTE® Quiet Dolly, 18-1/4"D x 6-5/8"H, non-marking blue casters, black

ITEM # 1-47            CAN OPENER

Quantity:            One (1)  
Manufacturer:       Edlund  
Model:                S-11

1. One (1) Model S-11 Can Opener, manual, stainless steel, with cast stainless steel base, NSF certified
2. One (1) 5 year limited warranty, standard
3. One (1) Model ST-93 Rustproof Can Opener Cleaning Tool, stainless steel bristles and stainless scraper

ITEM # 1-48            SPARE NO.

ITEM # 1-49            SPARE NO.

ITEM # 1-50            SPARE NO.

ITEM # 1-51            SPARE NO.

ITEM # 1-52            WATER FILTRATION SYSTEM, FOR ICE MACHINES

Quantity:            One (1)  
Manufacturer:        Manitowoc  
Model:                AR-10000

1.     One (1) Model AR-10000 Arctic Pure® Primary Water Filter Assembly, includes head, shroud, hardware, mounting assembly, & (1) filter cartridge, 14,000 gallon capacity, 0-600 lbs./ice per day

ITEM # 1-53            ICE CUBER

Quantity:            One (1)  
Manufacturer:        Manitowoc  
Model:                IYT0450A

1.     One (1) Model IYT0450A Indigo NXT™ Series Ice Maker, cube-style, air-cooled, self-contained condenser, 30"W x 24"D x 21-1/2"H, production capacity up to 490 lb/24 hours at 70°/50° (378 lb AHRI certified at 90°/70°), DuraTech™ exterior, half-dice size cubes, R410A refrigerant, NSF, cULus, CE, ENERGY STAR®
2.     One (1) Model WARRANTY-ICE-SC 3 year parts & labor (Machine), 5 year parts & labor (Evaporator), 5 year parts & 3 years labor (Compressor), standard
3.     One (1) (-161) 115v/60/1-ph, 11.9 amps
4.     One (1) Model X Factory Built-In LuminIce II Growth Inhibitor, comes pre-installed in ice machine (Add "X" to end of Indigo model number)
5.     One (1) Model WARRANTY-LUMINICE 3 year parts & labor warranty, standard

ITEM # 1-54            ICE BIN FOR ICE MACHINES

Quantity:            One (1)  
Manufacturer:        Manitowoc  
Model:                D570

1. One (1) Model D570 Ice Bin, 30"W x 34"D x 50"H, with side-hinged front-opening door, side grips, AHRI certified 532 lb ice storage capacity (17.9 cu. ft.), for top-mounted ice maker, Duratech exterior, NSF
2. One (1) Model WARRANTY-BIN/DISP 3 year parts & labor warranty, standard
3. One (1) Legs, 6" adjustable stainless steel, standard

ITEM # 1-73           MILK COOLER

Quantity:           Two (2)  
Manufacturer:       Beverage Air  
Model:              ST49N-S

1. Two (2) Model ST49N-S School Milk Cooler, normal temperature, 49" W, 31-1/2" D, 20.0 cu. ft., dual access, flat top carton capacities, (12) 13" x 13" x 11" or (8) 19" x 13" x 11 case capacities, stainless steel interior & exterior, 4" heavy duty casters, (2) with brakes, 1/4 hp, UL, cUL, UL EPH, NSF, MADE IN USA
2. Two (2) 3 years parts & labor warranty (excludes maintenance items)
3. Two (2) Additional 2 yr compressor warranty, standard
4. Two (2) 115v/60/1-ph, 7.5 amps, standard
5. Two (2) Model 00C01-005A Wrap around bumper, for SM/ST49 series (field installation required)
6. Two (2) 4" Heavy duty casters, (2) with brakes, standard

ITEM # 1-55           FLOOR TROUGH

Quantity:           One (1)  
Manufacturer:       IMC/Teddy  
Model:              FT-1236-PFG-ADA

1. One (1) Model FT-1236-PFG-ADA FT Floor Trough, 36"W x 12"D, 4" deep receptacle, (1) 6-1/2" waste outlet with perforated waste basket & 4" OD tailpiece, includes anchor straps, 14/304 stainless steel construction, brushed satin finish, (PFG-ADA) pultruded fiberglass grating, blue, NSF, Made in USA

ITEM # 1-56           WALL CAPS

Quantity:           Two (2)  
Manufacturer:       Custom  
Model:              STAINLESS STEEL

1. Two (2) Model STAINLESS STEEL (LOT) Provide 16 ga. stainless steel wall caps at 6'-6" in height. Stainless steel shall have a #4 finish. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-57 REACH-IN FREEZER

Quantity: One (1)  
Manufacturer: Traulsen  
Model: G22010

1. One (1) Model G22010 Dealer's Choice Freezer, Reach-in, two-section, 46.0 cu. ft., self-contained refrigeration with microprocessor control, stainless steel front & full height doors (hinged left/right), anodized aluminum sides & interior, (3) epoxy coated shelves per section (factory installed), LED interior lights, 6" high casters, unit can be programmed to operate at -10 degrees Fahrenheit, 3/4 hp, cULus, NSF, ENERGY STAR®
2. One (1) 3 year parts & labor and 5 year compressor warranty, standard
3. One (1) 115v/60/1ph, 11.2 amps, NEMA 5-15P, standard

ITEM # 1-58 SPARE NO.

ITEM # 1-59 SPARE NO.

ITEM # 1-60 SPARE NO.

ITEM # 1-61 REACH-IN REFRIGERATOR

Quantity: One (1)  
Manufacturer: Traulsen  
Model: G2000-

1. One (1) Model G2000- Dealer's Choice Refrigerator, Reach-in, two-section, 46.0 cu. ft., self-contained refrigeration with microprocessor control, stainless steel front & half height doors (hinging to be determined), anodized aluminum sides & interior, (3) epoxy coated shelves per section (factory installed), LED interior lights, 6" high casters, 1/3 HP, cULus, NSF
2. One (1) 3 year parts & labor and 5 year compressor warranty, standard
3. One (1) 3 year parts & labor and 5 year compressor warranty, standard
4. One (1) 115v/60/1ph, 7.4 amps, NEMA 5-15P, standard

ITEM # 1-62            WORK COUNTER

Quantity:            One (1)  
Manufacturer:        Custom  
Model:                STAINLESS STEEL

1.     One (1) Model STAINLESS STEEL Approximately 12'-0" l x 2'-6" w. Provide stainless steel work counter with undershelf and/or mid shelf, galvanized metal base, and 6" high back and end splash (where required). Top shall be 14 ga stainless steel, body to be 16 ga. Fabricate and install per complete drawings, schedules, elevations, and details.

ITEM # 1-63            SPARE NO.

ITEM # 1-64            HAND SINK

Quantity:            One (1)  
Manufacturer:        Eagle Group  
Model:                HSAP-14-ADA-FW

1.     One (1) Model HSAP-14-ADA-FW 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
2.     One (1) Model -LRS Left & right side splashes

ITEM # 1-65            HAND SINK FAUCET, SPLASH MOUNT

Quantity:            One (1)  
Manufacturer:        T&S Brass  
Model:                B-1146-04

1.     One (1) Model B-1146-04 Faucet Workboard, splash mounted, 4" centers, swivel gooseneck, 4" wrist action handles
2.     One (1) 4" wrist action handle, standard
3.     One (1) Model B-0199-01F-15 Aerator, non-splash, flow control, 1.40 gpm, 55/64"-27 UNS female threads

ITEM # 1-66 TRASH RECEPTACLE W/DOLLY

Quantity: One (1)  
Manufacturer: Rubbermaid Commercial Products  
Model: FG262000GRAY

1. One (1) Model FG262000GRAY ProSave® BRUTE® Container, without lid, 20 gallon, 19-1/2"D x 22-7/8"H, round, reinforced rims, built in handles, double rimmed base, high-impact plastic construction, gray, NSF
2. One (1) All-plastic, professional-grade construction will not rust, chip or peel; resists dents.
3. One (1) Reinforced rims add strength and durability
4. One (1) Built-in handles allow easy, non-slip lifting and anti-jam nesting
5. One (1) Double-ribbed base increases stability and dragging capacity
6. One (1) USDA Meat & Poultry Equipment Group listed and assist in complying with HACCP guidelines.
7. One (1) Certified to NSF Standard #2 and Standard #21
8. One (1) Model FG264043BLA BRUTE® Quiet Dolly, 18-1/4"D x 6-5/8"H, non-marking blue casters, black

ITEM # 1-67 AIR CURTAIN

Quantity: Two (2)  
Manufacturer: Mars Air Systems  
Model: LPV272-1UD-TS

1. Two (2) Model LPV272-1UD-TS LoPro Series 2 Air Curtain, for 72" wide door, Unheated, (1) 1/6 HP motor, 208-230v/60/1-ph, Titanium Silver powder coated cabinet (Custom Production Color), cETLus
2. Two (2) 5 year parts warranty, standard
3. Two (2) Options WITHOUT time delay
4. Two (2) Model 99-014 Steel Mechanical Universal Surface-mounted Plunger/Roller Switch

ITEM # 1-68 SPARE NO.

ITEM # 1-69 SPARE NO.

ITEM # 1-70 SPARE NO.

ITEM # 1-71            CASH REGISTER STAND

Quantity:            One (1)  
Manufacturer:        Multiteria  
Model:                CS30 CUSTOM

1.     One (1) Model CS30 CUSTOM CS30 Essence In-line Cashier Station, 30"L x 34"W x 34"H, includes cash drawer with insert tray, grommet hole, receptacle and empty data box, on 6" casters
2.     One (1) - Modify counter to 42"L to achieve 30"L u/c clearance requirement for ADA
  - Modify cash station with no cash drawer or insert tray for ADA height clearance
  - 14 Gauge Stainless Steel Top
  - Tray Slide, stainless steel with inverted "V" runners
  - Laminate Front Panel
  - (2 ) each, Laminate End Panel

ITEM # 1-72            CASH REGISTER   <NIC>

Quantity:            Two (2)  
Manufacturer:        NIFSEC

1.     Two (2) Cash Register - NIFSEC

ITEM # 1-74            SERVING COUNTER, COLD FOOD

Quantity:            One (1)  
Manufacturer:        Multiteria  
Model:                CLS60 CUSTOM

1.     One (1) Model CLS60 CUSTOM CLS60 Essence Cold Food Counter 60"L x 34"W x 34"H, with welded 1" stainless steel tubular base, removable 18 gauge stainless steel undershelf and 6" casters
2.     One (1) - 14 Gauge Stainless Steel Top
  - Cold food well for (4) pans, drop-in, CWB-4 with 1" ball valve
  - Condensate evaporator. Note: this requires additional electrical requirements
  - FS-Food shield with convertible 2-position front glass and glass shelf. Verify black powder coat or stainless steel brushed finish
  - Modify food shield to single tier style with pivot front glass that ends 6" above counter top when in vertical position
  - (2) each, Food shield glass end panel
  - Receptacle with cord and plug

- Tray Slide, stainless steel with inverted "V" runners
- Laminate Front Panel
- Laminate End Panel
- Stainless steel hinged louvered doors on operator side at cold well compressor with open storage at remaining length of counter

ITEM # 1-75                   SERVING COUNTER, UTILITY

Quantity:                   Two (2)  
Manufacturer:             Multiteria  
Model:                     ULSS66 CUSTOM

1.     Two (2) Model ULSS66 CUSTOM ULS66 Essence Utility Counter, 66"L x 34"W x 34"H, with welded 1" stainless steel tubular base, removable 18 gauge stainless steel undershelf and 6" adjustable stainless steel legs
2.     Two (2) - 14 Gauge Stainless Steel Top
  - Tray Slide, stainless steel with inverted "V" runners
  - Laminate Front Panel
  - Laminate End Panel
  - Standard corner with removable panels
  - Open storage on operator side
  - Tight Link
  - Seismic legs with flanged feet in lieu of standard legs with bullet feet

ITEM # 1-76                   SERVING COUNTER, HOT FOOD, ELECTRIC

Quantity:                   One (1)  
Manufacturer:             Multiteria  
Model:                     HLS66 CUSTOM

1.     One (1) Model HLS66 CUSTOM HLS66 Essence Hot Food Counter, 66"L x 34"W x 34"H, with welded 1" stainless steel tubular base, removable 18 gauge stainless steel undershelf and 6" casters
2.     One (1) - 14 Gauge Stainless Steel Top
  - Recess top for sheet pans at drop-in
  - Hot well for (4) full size pans, drop-in, 1,200 watts per well, with manifolded drains, HWBI-4M with bottom exit to 3/4" ball valve
  - Modify hot wells with sealed wells, no drains, HWBI-4
  - FS-Food shield with convertible 2-position front glass and glass shelf. Verify black powder coat or stainless steel brushed finish
  - Modify food shield to single tier style with pivot front glass that ends 6" above counter top when in vertical position



- (2) each, Food shield glass end panel
- J-box with cord and plug
- Tray Slide, stainless steel with inverted "V" runners
- Laminate Front Panel
- Open storage on operator side
- Tight Link

ITEM # 1-77                    REMOTE REFRIGERATION RACK AND SYSTEM

Quantity:                    One (1)  
Manufacturer:                Airdyne Refrigeration Inc.  
Model:                        WP-2

1.        One (1) Model WP-2 Refer to Section 114000, paragraph 2.8 and FS drawings.

END OF SECTION