

Bid No. 24-214
ADDENDUM NO. 4

**San Mateo-Foster City School District
Bowditch Middle School
Academic Quad Bidding with Gymnasium Building
(Also Known As: Academic Core and Gym)**

D.S.A. File # 41-26

D.S.A. Application # 01-120473 Academic Quad Bidding with # 01-120472 Gymnasium

Date: 18 December 2023

Owner: San Mateo-Foster City School District (SMFCUSD)
1170 Chess Drive
Foster City, CA 94404

Project: Bowditch Middle School
Academic Quad and Gymnasium Building
1450 Tarpon Street
Foster City, CA 94404

Architect: Harley Ellis Devereaux (HED)
417 Montgomery Street, Suite 400
San Francisco, CA 94104

By: Michael J. Myers, AIA

This Addendum has been prepared to clarify, modify, delete, or add to the drawings and/or specifications for the above referenced project, and revisions to items listed here shall supersede description thereof prior to the above stated date. All conditions not specifically referenced here shall remain the same. It is the obligation of the Prime Contractor to make subcontractors aware of any items herein that may affect submitted bids.

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject bidder to disqualification.

All addenda items refer to the drawings and specifications unless specifically noted otherwise.

TOTAL PAGES IN THIS ADDENDUM (excluding attachments): 6

PART A – CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS

- AD-4.A01 **Remove Sexual Molestation & Abuse Liability Insurance**
Requirement: See General Condition Document 00 70 00 – 35 Part 13:

13.1.2. Umbrella Liability Insurance:

13.1.2.1. Contractor shall procure and maintain, during the life of the Contract, an Excess Liability and/or Umbrella Liability Insurance Policy. Any Umbrella Liability Insurance Policy shall protect Contractor, District, State, Construction Manager(s), Program Manager(s), and Architect(s) in the amounts indicated herein and shall comply with all requirements for Commercial General Liability and Automobile Liability, Employers' Liability Insurance, and ~~Sexual Molestation and Abuse Liability~~. This coverage shall be provided in a form at least as broad as the Insurance Services Office (ISO) standard form.

13.1.2.3. Whether this Excess Liability and/or Umbrella Liability Insurance Policy is written on a "follow form" or "stand alone" form, the coverages shall equal or greater than the Contractor's Commercial General Liability and Automobile Liability, Employers' Liability Insurance, and ~~Sexual Molestation and Abuse Liability~~ with no exclusions that reduce or eliminate coverage items.

Remove (as shown stricken above) Sexual Molestation and Abuse Liability from the Umbrella Liability Insurance requirement.

- AD-4.A02 **SMFCSD Final Pre-Qualified Contractors List:** Attached find the final pre-qualified list of contractors by the San Mateo Foster City School District.

PART B – CHANGES TO SPECIFICATIONS

- AD-4.B01 **Gymnasium – Add Athletic Flooring Manufacturer** – See Spec Section 11 66 23 Part 2.06. Add Sports Venue Padding as acceptable manufacturer. Their product meets or exceeds basis of design. See also item AD-3.D03 below.
- AD-4.B02 **Academic Quad – Replace Specification Section 09 51 00-Acoustical Ceilings-** Delete Section 09 51 00-Acoustical Ceilings in its entirety and replace with 09 51 00-Acoustical Ceilings Addendum #3 attached to this addendum. Note that revised sections have been highlighted.
- AD-4.B03 **Gymnasium & Academic Quad – Revise Hand Dryer Specification** – See Spec Section 10 28 00 Part 2.07 A: Delete item 2. Mounting. Basis of Design unit less than 4" deep and needs no ADA compliant recess kit.

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- AD-4.B04 **Academic Quad – Revise Assistive Listening Specification:** – See Specification Section 27 51 26 Part 2.01 A: Basis of Design Product: Revise to read:
- Portable System consists of the following: (wherever Assistive Listening Signage shown in drawings – 22 sets):
- ListenTalk Transceiver (LK-1-AO) 2 units
- ListenTalk Headset 2 -over Head w/ boom Mic(LA-452) 2 units
- ListenTalk Receiver Pro(LKR-11-AO) 4 units
- Advanced Neck Loop(Adult)(LA-438) 4 units
- ListenTalk Docking Station Case 16(LA-481-01) – Provide as many units needed to store all the specified portable devices.
- AD-4.B05 **Academic Quad – Omit FRP Door Specification from Quad Documents** – Omit Specification section 08 17 43 FRP / Aluminum Hybrid Doors from the Academic Quad documents. FRP Doors are in the Gymnasium only.
- AD-4.B06 **Academic Quad – Revise Hollow Metal Doors and Frame Specification** 08 11 13 – Add to Part 2 of this section:
- 2.11 Sound Retardant Metal Fixed Window System
- a) Design Basis and Type: Sound Retardant Metal Fixed Window System designs are based on those manufactured by Overly Door Company, Greensburg, PA 15601. Tel 800-979-7300, Fax 724-830-2871.
- b) Performance: Sound Retardant Metal Fixed Window System to be Overly Model No. 429510 or equal with STC rating of (42) when tested as a system in accordance with ASTM E90 and ASTM E413.
- c) Components: Assemblies to be complete with metal frame, glass, and glazing. Glass and glazing shipped loose to be field installed.
- AD-4.B07 **Academic Quad – Replace Specification Section 08 71 00-Door Hardware-** Delete Section 08 71 00 – Door Hardware in its entirety and replace with 08 71 00 – Door Hardware Addendum #4 attached to this addendum.
1. Revise this door hardware specification to add electrified hardware corresponding to the card readers which work with the intrusion system.
2. Primus cores added to hardware groups.
- AD-4.B08 **Gymnasium – Replace Specification Section 08 71 00-Door Hardware-** Delete Section 08 71 00 – Door Hardware in its entirety and

replace with 08 71 00 – Door Hardware Addendum #4 attached to this addendum.

1. Permanent Core models revised.
2. Group 02 revised to include panic hardware- Doors 117B and 118B.
3. Group 16 added – Door 101E.
4. Group 17 added for Gate G1 with panic hardware. Group
5. Group 18 added for Gate G2, double gate with padlock.
6. Group 19 added. – Doors 107A & 118A.

AD-4.B09 Gymnasium – Revise Gymnasium FRP/Alum Hybrid Door specification 08 17 43 – See Spec Section 08 17 43. Delete Part 2.03 framing from scope. FRP doors to be set into hollow metal or aluminum storefront as scheduled.

PART C – CHANGES TO DRAWINGS

AD-4.C01 Academic Quad – Opening Revisions:

1. See sheet A-585: Revise to 4 the detail number for 'TYP. FLOOR TRANSITIONS'.
2. See detail 13/A-552 – add note 'HEAD SIMILAR' to detail titled INTERIOR STOREFRONT DOOR JAMB.
3. See Sill detail 10/A-552. Revise to show aluminum storefront sill condition which does not touch the floor – it will be similar to the sill to floor condition.
4. See Sheet A-602 Window type W5. Revise to an aluminum storefront opening. Reference HEAD / JAMB detail 12/A-552. Reference Sill detail 10/A-552.
5. See Sheet A-102. Add keynote 2.05 which reads 'MOTORIZED ROLLER SHADE AT INTERIOR STOREFRONT – SEE DETAIL 14/A-552'. This note applies to window type W5.
6. See Sheet A-412. At interior elevation 10/A-412 Remove keynote 1.11. This opening is a Sound Retardant Metal Fixed Window System. See also item AD-4.B06 above.
7. Sheet A-585 DOOR SCHEDULE
 - a. The following doors need louvers: R08, R09, U05, U06, U07, U08, U09, U11. Revise DOOR PANEL TYPE to L-HM at these doors
 - b. At door T05 revise PH (Panic Hardware) column to N – No.
 - c. Clarify Aluminum Interior Storefront Head and Jamb detail. Revise all references in these columns noted 14/A-552 to **13/A-552**.

AD-4.C02 Gymnasium – Opening Revisions:

1. Sheet A-601 DOOR SCHEDULE - Revise Hardware Set for doors 107A and 118A to group 19 added to revised specification.

PART D- BIDDER QUESTIONS

AD-4.D01 Gymnasium and Academic Quad Standing Seam Metal Roof Vapor Barrier Question: Please clarify what vapor barrier to use on Standing Seam Metal Roof? See 1/A500, it also does not list type of vapor barrier to use in the specs? Please advise.

Answer: See Academic Quad Specification Standing-Seam Metal Roof Panels

Bid Set 07 41 13.16 – Basis of Design Vapor barrier specified here: Part 2.04 VAPOR BARRIER AND UNDERLAYMENT MATERIALS.

AD-4.D02 **Sexual Molestation & Abuse Liability Insurance:** We have reviewed the insurance specification and respectfully request you review and advise to our questions as follows:

13. Insurance –

13.1.2 Umbrella Liability Insurance

Please clarify and confirm the following:

- Contractor does NOT have to include Sexual Molestation and Abuse Liability in the Umbrella Liability policy.
- The required limit is \$1,000,000 each incident; \$2,000,000 policy limit for Sexual Molestation and Abuse Liability.
- The policy can be placed with insurers Authorized to do business in California.

See item AD-4.A01 above - Sexual Molestation and Abuse Liability removed from the Umbrella Liability Insurance requirements.

Answer: Contracting Requirement revised. See item AD-4.A01 above.

AD-4.D03 **Acoustic Cloud Ceiling Panels:** Can you clarify the spec for the 8 ea. ACP Acoustic Cloud Ceiling Panels shown on A-122? DET 5 & 6/A-583 calls it a "4'x8'x7/8" THK. FIBERGLASS ACOUSTICAL CLOUD PANEL BY MFGR." But I'm not seeing it included in the Acoustical Ceiling Spec 09 51 00.

Answer: Specification 09 51 00 revised. See item AD-4.B02 above.

AD-4.D04 **Gymnasium – Perimeter Clerestory Openings Question - Is the basis of design for the translucent wall system a Fiberglass System or a Polycarbonate System?**

- Specs (SECTION 08 45 23) calls for Fiberglass Sandwich Panel (FRP System)
- Drawings on A-602 call for "Translucent Polycarbonate Panels" – The spacing as designed calls for a Polycarbonate system.
- Details on A-554 call for "Fiberglass Sandwich Panel Assemblies".

If a Fiberglass system is preferred per the specifications, please note the grid spacing will drop from 2' (as depicted in the drawings) to the 8" spacing called for in the specifications. Also, to get the heights as designed, additional support will be required behind the system.

Answer: Fiberglass Sandwich Panel System per details and specification. Ignore any reference to Translucent Polycarbonate Panels. 8" spacing will be acceptable. This item is a deferred approval, additional support if required can be shown in these documents.

AD-4.D05 **Gymnasium Locker and Toilet Partition Substitution Request:**
We respectfully submit for your consideration a request to approve products as an

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accepted substitute on Bowditch Middle School New Gym Building (23-416711); please find substitution request form attached.

With over 30 years of experience, Scranton Products is the industry leader in plastic (HDPE) bathroom partitions and lockers. Constructed from premium, American-made solid plastic, our products resist dents, scratches, corrosion, graffiti, and mildew. More information regarding the benefits of our products as well as technical data sheets and MSDS forms for the appropriate product(s), confirming performance as specified, can be reviewed via the links below:

Answer: Not acceptable. Toilet Partitions are on the SMFCSD Single Source List. See invitation to bid document 00 11 16 -item #13. The lockers and benches are plastic and not similar to the basis of design products.

AD-4.D06 Gymnasium - Roofing Insulation at Low Slope Modified BUR

Questions:

1. Please clarify if on low slope modified bituminous areas that full tapered roof insulation is required? **Answer:** Yes
2. What are the minimum R-value requirements on low slope BUR areas?
Answer: R-30 average over occupied space.
3. Mechanically fasten through all layers of roof insulation – cover board – common fastener? **Answer:** No, mechanically attached base layer of thermal insulation. Subsequent layers to be adhered with adhesive.

AD-4.D07 Academic Quad - Roofing Insulation at Low Slope Modified BUR

Questions:

1. At Low Slope roof insulation, confirming that roof insulation requirements are a 4" base layer and tapered roof insulation over. **Answer:** Yes, R-30 average over occupied space.
2. Confirming that the roof structure is framed level? **Answer:** Correct.
3. Are both the top layer of tapered roof insulation & cover board adhered in adhesive? **Answer:** Correct.
4. Is the base layer mechanically attached? **Answer:** Correct.

AD-4.D08 Gymnasium - Window Treatment: Can you clarify the window shade requirement for the Gym room? The elevations do not call for any shading.

Answer: No window shades in main gymnasium space at this time.

AD-4.D08 Gymnasium – Main Electrical Switchgear: Supplemental documents folder shows OFCI electrical switchgear submittal (this does not match what is shown on the one-line). Can you please advise if main electrical switchgear is OFCI?

Answer: Yes, Main electrical switchgear is OFCI as indicated on details 2 & 4/E-701. Concrete Pad housing will be provided by electrical contractor. The material described

in the switchgear submittal issued as a supplemental bid document (for reference only) is currently on site in a storage container – shown on the supplemental bid document: *Bowditch MS New Academic Core & Gym - Milestone & Constraints Site Plan r1*. Also please note that the new switchgear enclosure infrastructure construction is described in the Academic Quad construction document set while the Electrical scope is described in the Gymnasium construction document set. Construction of this switchgear is also noted as a milestone on this drawing.

AD-4.D09 Academic Quad – Assistive Listening Specification: On detail 10 sheet G-004 notes (2) portable Assistive Listening Systems but on the specifications, it calls out LS-03-072 which is a stationary system, please clarify which system you prefer?

Answer: Specification Section 27 51 26 revised. See item AD-4.B04 above.

AD-4.D10 Academic Quad & Gymnasium - Primus Cores at Quad - Hardware specifications 08 71 00 for Gymnasium include Schlage Primus permanent cores 23-030 with hardware groups (2.3 E.), Specifications for Quad Buildings do not list these permanent cores, however, 2.3 Keying requirements are the same for both sets. For bidding purposes should Keying be included in the bid with permanent cores for both sets, or should Keying and permanent cores be excluded from both? **Answer:** Quad Door Hardware Groups to include Primus Cores. See item AD-4.B07 above.

AD-4.D11 Academic Quad - Door Hardware Questions:

1. **No FRP Doors in Quad** - Please confirm that there are no FRP doors for Quad Plans, specification 08 17 43. **Answer:** Confirmed. See also item AD-4.B05 above.
2. **Door Types Question** - Confirm there are no door type L-HM louver door, or door type HSW-60. **Answer:**
 - a. L-HM louver door - Not confirmed. See item AD-4.C01 above.
 - b. Door type HSW-60 – confirmed – not used.
3. **Threshold detail at Interior Doors** - Quad Plans, Threshold detail 4/A-585 is missing. **Answer:** Detail incorrectly called out on sheet A-585. See item AD-4.C01 above.
4. **No Panic at Door T05** - Quad Plans, Door Sch opening T05 has Y for Panic hardware, hardware group 14 has cylindrical lock, how shall this be bid? For now, assuming group 14 is correct at Office. **Answer:** No Panic Hardware needed here. See item AD-4.C01 above.
5. **Quad Plans**, please confirm frame material for interior doors, sidelights, and windows. Information in plans conflicts.
 - a. **Wood Doors in Aluminum Storefront Frames** - All interior Wood doors are shown to be in frames with Clear Anodized finish (Frame types 00-HM1, 20-HM1, and 20-HM1A) with head and jamb detail 14/A-552. Are all these frames to be hollow metal with detail 14/A-551, finish

PNT? Door Schedule Note for sidelights is Detail 15/A-551 hollow metal. Or is Storefront to furnish and install all interior frames at wood door openings? **Answer:** Yes, these are aluminum storefront opening frames – not hollow metal.

- b. **Revise Opening W5** - Adjacent windows W5 next to openings T03 & T06 are indicated to be hollow metal with detail 14/A-551. However, A-102 keynote 1.12 references details 7 & 11/A-551 Alum Storefront.
Answer: Opening W5 revised to interior aluminum storefront. See item AD-4.C01 above. Keynote 1.12 on A-102 refers to the window shade above these openings. See added sheet note in item AD-4.C01 above clarifying detail at interior storefront window head.
 - c. **Sound Requirements at Control Room** - Window Type W6 at control room next to S09 is indicated to be hollow metal with details 12 & 13/A-551. However, interior elevation views on A-412 & A-412 1.11 Keynote lists this as Alum Storefront. **Answer:** Type W6 is a Sound Retardant Metal Fixed Window System. See also item AD-4.B06 above.
 - d. **Sound Requirements at Control Room** - Do any openings (S10) or windows at control room have STC requirements, and if so, what are specifications? **Answer:** Only the Sound Retardant Metal Fixed Window System, No requirements on door S09 at this time.
6. **Quad Group #10** - There's an issue with the Quad door hardware. Some of the hardware groups do not match the description of the door. For example, the quote for Bldg. S has (2) pairs of doors with HW #10, but HW group #10 is for a single door. **Answer:** We do not understand. Quad Hardware group #10 appears to be for a pair of doors corresponding to doors S01A & S01B
 7. **Quad Group for Door #T01** - Bldg. T has single door #T01 that has hardware group #2, but hardware group #2 is for a pair of doors. **Answer:** Are you looking at the correct specification? Quad hardware group #2 appears to be for a single panel door.
 8. **Quad Group for Door #T17B** - Door #T17B is a single door with hardware group #4, but hardware group #4 is for a pair of doors. **Answer:** Are you looking at the correct specification? Quad hardware group #4 appears to be for a single panel door.

AD-4.D12 **Gymnasium - Door Hardware Questions:**

1. **Locker Room Door Hardware** - Gymnasium Plans, Door Schedule A-601, mark Y for Panic hardware for hardware groups 02 (@107B & 118B) and 08 (@107A & 118A) specification 08 71 00 have Schlage ND series cylindrical locks. If openings are to have Panic hardware, how shall they be bid? **Answer:** Yes, we want panic at the (4) main doors from the locker rooms – revised sets in revised specifications attached to this addendum. Group 02 revised for 107B & 118B and Group 19 added for 107A & 118A See item AD-4.B08 above.
2. **Hardware Group 16** - Gymnasium Plans, Door Schedule A-601 list a hardware group 16 (@102E), there is no hardware group 16 in specifications, how shall this be bid? Should it match opening 102D w/ hardware group 12?

Answer: Hardware Group 16 added to revised Gymnasium Door Hardware specification. See item AD-4.B08 above.

3. **No Pull Required at Group 15** - Hardware group 15 for pair of doors 102C has deadbolt on active door. Confirm that there is no push pull hardware at this opening. Assuming this opening is to remain locked, not for standard egress.

Answer: No pull required. Door is not for egress. It is to move equipment.

4. **FRP Door Hardware** - At Gymnasium FRP/Alum Hybrid door specification 08 17 43. Part 2.08 Hardware: shall manufacturer supply; continuous hinges, concealed adjustable bottom brush, concealed adjustable meeting stiles, removable mullions in lieu of items listed in 08 71 00? **Answer:** Provide hardware specified in section 08 71 00 as specification references.

5. **FRP Doors in Aluminum Storefront Frames** - Gymnasium FRP/Alum Hybrid door specification 08 17 43 - part 2.03 framing calls out for Special Lite model SL-450TB storefront type alum framing. What openings are to be bid with this material? Openings 108A, 107B, 118B, and 103A door schedule lists hollow metal thermally broken frames. And Openings 102A and 102B indicate aluminum frames by Storefront. Are we to bid FRP doors and hardware at openings 102A and 102B in coordination with Storefront? **Answer:** Yes. Strike framing section part 2.03 from this specification per item AD-4.B09 above.

AD-4.D13 Gymnasium & Academic Quad – Hand Dryer Substitution

Request: Regarding hand dryers for the Bowditch Middle School new Gym Building project. In the division 10 spec, it lists the Dyson V as basis of design and the XLERATOR ADA compliant with recess kit as an equal. We are requesting that the World Dryer VERDEdri #Q-974A2 (white) be added as an equal in the next addendum. Attached is the sub request and spec sheet. I added two comparison sheets to compare against both products.

Answer: To be consistent Owner/Architect want to stay with the Dyson model. The Dyson model is installed in the first phase of the reconstruction of this campus, Bldg. P Drama and Bldg. Q Science. See also item AD-4.B03 above.

AD-4.D14 Gymnasium – Cement Fiber Sub Framing Substitution Request:

Please see attached substitution request for the sub framing system used on the fiber cement panels. Also, the drawings show 1" girt sub framing but neither KWS or Smart CI make a 1" profile girt. The profile should be 1.5".

Answer: We respectfully disagree. The note on the drawing on sheet A-500 calls for a continuous insulation support system for 1" thick rigid insulation. From the specification section 07 46 46:

Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

It names no manufacturer for this support system. Provide support system for 1" thick continuous insulation as recommended by siding manufacturer.

AD-4.D15 **Quad Synthetic Turf Substitution Requests:** There have been various substitution request for the synthetic turf specification section 32 18 13.

Answer: Due to the holidays our consultant is unable to review these at this date.

ATTACHMENTS

1. SMFCUSD Final Pre-Qual Contr. List
2. 08 71 00 Door Hardware Quad Addendum 04
3. 08 71 00 Door Hardware Gym Addendum 04
4. 09 51 00-Acoustical Ceilings Addendum 04

END OF ADDENDUM



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved A/B General Contractor \$50M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Alten Construction, Inc.	Karin Romeo, Bid Coordinator	1141 Marina Way South, Richmond, CA 94804	510-234-4200	510-234-4221	bids@altenconstruction.com	705713_	A (General Engineering Contractor), B (General Building Contractor)	12/04/2024	\$60,000,000
BHM Construction, Inc.	April Karsemeyer	221 Gateway Rd West, Suite 405, Napa, CA, 94558	707-643-4580	707-643-4581	bids@bhmconstruction.com	900404_	B (General Building Contractor), A (General Engineering Contractor)	10/18/2024	\$55,000,000
C. Overaa & Co.	Martha Castañeda	200 Parr Boulevard, Richmond, CA, 94801	510-234-0926	510-237-2435	marthac@overaa.com	106793_	A (General Engineering Contractor), B (General Building Contractor)	03/17/2024	\$50,000,000
Class Leasing LLC	Darren Sylvia	1651 S Juanita St, San Jacinto, CA, 92543	951-238-7299	951-943-5768	dsylvia@classleasing.net	1001535	B (General Building Contractor)	03/22/2024	\$170,000,000
Gilbane Building Company	Alina Shiller	2033 Gateway Place, Suite 450, San Jose, CA, 95110	408-674-4400		ashiller@gilbaneco.com	777701_	B (General Building Contractor)	11/01/2024	\$325,000,000
Hellas Construction	Andrew Clough	12000 West Parmer Lane, Austin, TX, 78613	512-250-2910	512-250-1960	aclough@hellasconstruction.com	852751_	A (General Engineering Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-61 (Limited Specialty)	11/20/2024	\$50,000,000
Landmark Modernization Contractors	Ellen Kelton	4312 Anthony Court Suite B, Rocklin, CA 95677	916-663-1953	916-663-1867	ekelton@landmarkconst.net	807981_	A (General Engineering Contractor), B (General Building Contractor)	11/14/2024	\$66,000,000
Lathrop Construction Associates, Inc.	Ricky J. Martellaro	4001 Park Road Benicia CA 94510	707-746-8000	707-746-8080	bids@lathropconstruction.com	415981_	B (General Building Contractor), A (General Engineering Contractor)	12/06/2024	\$69,000,000
McGuire and Hester	Mabel Cater	2810 Harbor Bay Parkway, Alameda, CA 94502	510-632-7676	510-562-5209	estimating@mcguireandhester.com	95879_	A (General Engineering Contractor), B (General Building Contractor), C-21 (Building Moving/Demolition Contractor), C-27 (Landscaping Contractor), C-31 (Construction Zone Traffic Control Contractor), HAZ (Hazardous Substance Removal Certification)	10/24/2024	\$78,000,000
Midstate Construction Corporation	Mickale McChristian	1180 Holm Rd, Petaluma, CA, 94954	707-762-3200	707-762-0700	mickalem@midstateconstruction.com	089455_	B (General Building Contractor)	11/14/2024	\$55,000,000
Rodan Builders, Inc.	Laurie Kaminski	3486 Investment Blvd, Suite B, Hayward, CA 94545	650-508-1700	650-508-1705	lkaminski@rodanbuilders.com	858119_	A (General Engineering Contractor), B (General Building Contractor), C-21 (Building Moving/Demolition Contractor), C-13 (Fencing Contractor)	11/14/2024	\$66,000,000
S. J. Amoroso Construction Co., LLC	Marketing Department	390 Bridge Parkway, Redwood Shores, CA, 94065	714-433-2326	650-654-9002	marketing@sjamoroso.com	331024_	A (General Engineering Contractor), B (General Building Contractor)	12/04/2024	\$75,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved A/B General Contractor \$50M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Contractor)	01/25/2024	\$380,000,000
Turner Construction	Victor Nuñez	300 Frank H. Ogawa Plaza, Ste. 510, Oakland, CA 94612	510-381-9050	510-751-5435	vnunez@tcco.com	210639_	A (General Engineering Contractor), B (General Building Contractor)	07/13/2024	\$750,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-4 Hot Water \$0+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), A (General Engineering Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-38 (Refrigeration Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
Aire Sheet Metal, Inc.	Barrie Solomon	1973 East Bayshore Road, Redwood City, CA 94063	650-364-8081	650-369-8357	barrie@airesm.com	271264_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	11/14/2024	\$4,700,000
American Mechanical, INC. dba American Mechanical; IQ Controls	Kelli Blocker	1275 Boulevard Way, Walnut Creek, CA, 94595	925-946-9101	925-943-6224	kmblocker@ami-hvac.com	883177_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-43 (Sheet Metal Contractor)	11/14/2024	\$250,000
American Plumbing Systems, Inc dba APSI	Jay Hanacek	161 Palm Ave, Suite 9, Auburn, CA, 95603	530-537-2949	530-537-2597	jay@americanplumbingsystems.com	990571_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), B (General Building Contractor), C-36 (Plumbing Contractor)	11/20/2024	\$1,500,000
Bay City Mechanical, Inc.	Crystal Rougeau	870 Harbour Way South Richmond , Ca 94804	510-233-7000	510-669-9856	Crystal@baycitymech.com	645126_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor), B (General Building Contractor)	12/07/2024	\$12,500,000
Bay Point Control, Inc. DBA Marina Mechanical	Jamie Wallace	799 Thornton Street, San Leandro, CA, 94577	510-614-3500	510-614-4583	jwallace@marinam.com	416198_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-2 (Insulation and Acoustical Contractor), C-43 (Sheet Metal Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor)	03/21/2024	\$1,700,000
Bellanti Plumbing Inc.	Ron Bellanti	121 South Maple Ave #10, SOUTH SAN FRANCISCO, CA, 94080	650-588-2990	650-588-0721	rjbellanti@bellantiplumbing.com	327664_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-16 (Fire Protection Contractor)	10/18/2024	\$6,500,000
Brady Air Conditioning, Inc.	Daniela Rivera	338 No. Canal St., #5, So. San Francisco, CA, 94080	650-742-9640		ap@bradyair.com	585882_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-16 (Fire Protection Contractor)	10/24/2024	\$200,000
Dowdle & Sons Mechanical, Inc.	Shelley Dowdle	100 Tower Road American Canyon CA 94503, American Canyon, CA, 94503	707-224-6968	707-224-7885	shelley@dowdleandsonsmec h.com	542743_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), A (General Engineering Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	10/23/2024	\$6,200,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-4 Hot Water \$0+ Prequalification Application Report as of 12/14/23

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Environmental Systems, Inc.	Donna Nyblom	3353 De La Cruz Blvd., Santa Clara, CA, 95054	408-980-1711	408-980-0714	dnyblom@esite.net	422478_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-38 (Refrigeration Contractor)	11/28/2024	\$18,000,000
FAMAND INC DBA INDOOR ENVIRONMENTAL SERVICES	Jeanine Zito	1604 Airport Blvd, Santa Rosa, CA, 95403	916-803-5178	916-348-3020	jzito@ies-hvac.com	0646794	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-38 (Refrigeration Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$25,000,000
Flanders Heat And Air Systems INC.	Bret Flanders	555 peters ave #255, pleasanton, CA, 94566	925-461-3333	925-461-7419	b.flanders@sbcglobal.net	677502_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$1,200,000
ICOM Mechanical, Inc	Cindy Tatsumi	477 Burke Street, San Jose, CA, 95112	408-792-2240	408-292-4968	ctatsumi@icominc.com	408622_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), B (General Building Contractor)	09/11/2024	\$1,500,000
J.W. McClenahan Co.	Melissa Treft	2301 Palm Ave. San Mateo CA 94403,	650-345-1691	650-345-5681	mtreft@jwmcco.com	308818_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-42 (Sanitation System Contractor), C-60 (Welding Contractor)	11/14/2024	\$13,000,000
Kevin M Sullivan & Associates Inc.	Beverly Nunes	431 N Buchanan Circle #2, Martinez, CA, 94553	925-825-5625 x214	925-825-5681	samantha@sullivanhvac.com	887975_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-36 (Plumbing Contractor)	02/27/2024	\$5,000,000
Los Angeles Air Conditioning, Inc.	Jasmin Castanon-Carrillo	1714 Lindbergh Ct., La Verne, CA, 91750	909-596-7077	909-596-6657	jasmin@laair.net	208872_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	03/21/2024	\$3,700,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), A (General Engineering Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-7 (Low Voltage Systems Contractor)	11/20/2024	\$8,500,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-38 (Refrigeration Contractor), C-43 (Sheet Metal Contractor)	02/28/2024	\$12,500,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-4 Hot Water \$0+ Prequalification Application Report as of 12/14/23

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ROUNTREE PLUMBING AND HEATING INC.	STEPHEN SINGEWALD	1624 Santa Clara Dr. Suite 120, Roseville, CA, 95661	650-298-0312		dcrabb@rountreeinc.com	265489_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), HAZ (Hazardous Substance Removal Certification), A (General Engineering Contractor), B (General Building Contractor)	04/18/2024	\$5,600,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000
Stephen Ciari Plumbing and Heating, Inc.	Steve Ciari	1054 Elm St, San Jose, CA, 95126	408-296-6010	408-296-0645	alena@ciariplumbing.com	828351_	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	11/21/2024	\$9,700,000
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), A (General Engineering Contractor), B (General Building Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous	01/25/2024	\$380,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-7 Low Voltage \$1.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ALESSANDRO ELECTRIC INCORPORATED	CLINT ALESSANDRO	11335 Sunrise Gold Circle Rancho Cordova, CA 95742	916-283-6966	916-283-6967	estimating@alessandroelectr ic.com	867775_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	11/14/2024	\$7,000,000
ARAM Electric Inc	Arturo Ramirez	2000 Alvarado St. Unit B, San Leandro, CA, 94577	510-357-2726	510-373-2333	admin@aramelectric.com	978810_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	01/31/2024	\$1,300,000
Audeamus dba Sebastian	Ron Cato	7600 N. Palm Ave, Fresno, CA, 93711	559-432-5800	559-432-5858	estimating@sebastiancorp.c om	940822_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), A (General Engineering Contractor)	03/17/2024	\$3,000,000
Avidex Industries LLC	Ron Ponce	20382 Hermana Circle, Lake Forest, CA, 92630	949-428-6333	949-428-6334	biddesk@avidex.com	981651_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	03/13/2024	\$4,900,000
Cal-Pacific Construction Inc	Kennedy Chan	1009 Terra Nova Blvd. , Pacifica, CA, 94044	650-557-1238 x109	650-557-1239	kc@pacific888.com	830908_	C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-36 (Plumbing Contractor)	12/04/2024	\$15,000,000
EKC Enterprises, Inc.	Greg Alavezos	4658 E Weathermaker Ave, FRESNO, CA, 93703	559-438-0330 x1000	559-438-0333	prequal@ekccorp.com	916095_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	11/22/2024	\$9,500,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	11/20/2024	\$8,500,000
Pacific Power & Systems, Inc.	Beth Parker	4970 Peabody Road, Fairfield, CA, 94533	904-345-4529	707-759-7688	bethp@norleegroup.com	458315_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	01/31/2024	\$3,000,000
PCD	Christian Velasquez	1032 Maxwell Drive, Santa Rosa, CA, 95401	707-546-3633	707-575-6818	bids@pcdinc.net	527657_	C-7 (Low Voltage Systems Contractor)	11/14/2024	\$3,000,000
Radonich Corp DBA Cal Coast Telecom	Marie Pernick	886 Faulstich Court, San Jose, CA 95112	408-275-7212	408-275-8895	estimating@cctcom.net	732886_	C-7 (Low Voltage Systems Contractor)	04/12/2024	\$15,000,000
Reliable Monitoring Services (dba RMS Construction)	Ricky Mendoza	2698 JUNIPERO AVE STE 105-107, SIGNAL HILL, CA, 90755	562-676-2140	805-435-1647	rmendoza@rmslifesafety.co m	900304_	C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor)	03/30/2024	\$1,500,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C- 4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000
Taft Electric Company	Travis Roy	1694 Eastman Avenue, Ventura, CA, 93003	805-642-0121	805-650-9015	troy@taftelectric.com	772245_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor)	04/06/2024	\$5,500,000
Tennyson Electric, LLC.	Michelle Coatney	7275 National Drive Suite A- 2, Livermore, CA, 94550	925-390-0104	925-606-7656	estimating@tennysonelec.co m	717998_	C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor), C- 10 (Electrical Contractor)	11/14/2024	\$15,500,000
Vanden Bos Electric, Inc.	Patrick Burke	502 Giuseppe Court #5, Roseville, CA 95678	916-773-1500	916-773-1973	Pat@vdbelectric.com	627898_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), B (General Building Contractor)	12/04/2024	\$6,500,000
Walker Telecomm, Inc.	Angel McDonald	412 Main Street, Wheatland, CA, 95692	530-652-4169	530-641-1258	angel@walkertelecomm.com	953866_	C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), B (General Building Contractor)	11/14/2024	\$11,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-10 Electrical \$7.8M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
4 Point Power, Inc. DBA 4 Point Electric	Paula Herrera	1313 N. Milpitas Blvd #161, Milpitas, Ca. 95035	408-823-1754	408-529-8250	paula@4pointpowerinc.com	1016759	C-10 (Electrical Contractor)	11/14/2024	\$3,000,000
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-38 (Refrigeration Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
Agresti Electric Inc. dba Cocconi Electric	Laura Agresti	1025 Tanklage Road Suite E, San Carlos, CA, 94070	650-610-8586	650-610-8587	lagresti@cocconielectric.com	601745_	C-10 (Electrical Contractor)	06/12/2024	\$1,250,000
ALESSANDRO ELECTRIC INCORPORATED	CLINT ALESSANDRO	11335 Sunrise Gold Circle Rancho Cordova, CA 95742	916-283-6966	916-283-6967	estimating@alessandroelectric.com	867775_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor)	11/14/2024	\$7,000,000
ARAM Electric Inc	Arturo Ramirez	2000 Alvarado St. Unit B, San Leandro, CA, 94577	510-357-2726	510-373-2333	admin@aramelectric.com	978810_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor)	01/31/2024	\$1,300,000
Atlas/Pellizzari Electric Inc	Jim Weishaar	450 Howland St, Redwood City, CA, 94063	650-364-1204	650-364-6193	jimw@atlas-pellizzari.com	375862_	C-10 (Electrical Contractor)	12/04/2024	\$7,000,000
Audeamus dba Sebastian	Ron Cato	7600 N. Palm Ave, Fresno, CA. 93711	559-432-5800	559-432-5858	estimating@sebastiancorp.com	940822_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor), A (General Engineering Contractor)	03/17/2024	\$3,000,000
Avidex Industries LLC	Ron Ponce	20382 Hermana Circle, Lake Forest, CA, 92630	949-428-6333	949-428-6334	biddesk@avidex.com	981651_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor)	03/13/2024	\$4,900,000
Bay Point Control, Inc. DBA Marina Mechanical	Jamie Wallace	799 Thornton Street, San Leandro, CA, 94577	510-614-3500	510-614-4583	jwallace@marinam.com	416198_	C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-2 (Insulation and Acoustical Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	03/21/2024	\$1,700,000
Bear Electrical Solutions, Inc	Andrew Bader	P.O Box 924, Alviso, CA, 95002	408-449-5178	408-449-5147	andrew@bear-electrical.com	982079_	C-10 (Electrical Contractor), A (General Engineering Contractor), C-31 (Construction Zone Traffic Control Contractor), C-61 (Limited Specialty)	09/11/2024	\$1,500,000
Best Electrical Co., Inc	Ruth Fallon	667 Walnut Street, San Jose, CA 95110	408-287-2040	408-287-0487	ruthg@besteleco.com	261313_	C-10 (Electrical Contractor)	04/03/2024	\$4,500,000
Bockmon & Woody Electric Co., Inc.	Arlene Larsen	1528 El Pinal Drive, Stockton, CA, 95205	209-464-4878	209-464-2615	arlene@bockmonwoody.com	588308_	C-10 (Electrical Contractor), A (General Engineering Contractor)	10/23/2024	\$13,000,000
Bowen Engineering and Environmental	Erik Bowen	4664 S. Cedar Ave, Fresno, CA, 93725	559-233-7464	559-233-7468	office@bowendemo.com	816496_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-21 (Building Moving/Demolition Contractor), C-22 (Asbestos Abatement Contractor), HAZ (Hazardous Substance Removal Certification), ASB (Asbestos Certification), C-39 (Roofing Contractor), C-33 (Painting and Decorating Contractor), C-61 (Limited Specialty)	09/11/2024	\$1,200,000
Cal-Pacific Construction Inc	Kennedy Chan	1009 Terra Nova Blvd. , Pacifica, CA, 94044	650-557-1238 x109	650-557-1239	kc@pacific888.com	830908_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor), C-16 (Fire Protection Contractor), C-36 (Plumbing Contractor)	12/04/2024	\$15,000,000
Collins Electrical Company Inc.	Araceli Torres	3412 Metro Drive, Stockton, CA, 95213	209-466-3691	209-466-3146	atorres@collinselectric.com	115427_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-31 (Construction Zone Traffic Control Contractor)	02/10/2024	\$41,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-10 Electrical \$7.8M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Con J Franke Electric Inc	Lori Smith	317 N. Grant Street, Stockton, CA 95202, CA, 95202	209-462-0717	209-462-2556	lori.smith@cjfranke.com	288366_	C-10 (Electrical Contractor)	10/23/2024	\$7,100,000
Del Monte Electric Co Inc.	Tracy O'Brien	6998 Sierra Court, Dublin, CA, 94583	925-829-6000	925-829-6833	tbrien@delmonteelectric.co m	161955_	C-10 (Electrical Contractor)	11/22/2024	\$7,000,000
Diversified Power Corporation	Scott Berryhill	1285 Stratford Avenue STE G 316, Dixon, CA, 95620	707-678-6328	707-678-8768	scottdpc@sbcglobal.net	766894_	C-10 (Electrical Contractor)	03/13/2024	\$2,000,000
Eco Energy Solutions, Inc. dba High Volt Electric	Karo Gyonjyan	4485 Runway St., Simi Valley, CA, 93063	818-993-3732	805-422-8117	karo@highvoltelectric.com	963370_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor)	11/14/2024	\$3,500,000
Edward W. Scott Electric Co., Inc.	Abhinav Agrawal	500 W. Ohio Ave, Richmond, CA, 94901	415-206-7120	510-965-9554	aagrawal@scottelectric.com	190426_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor)	11/22/2024	\$8,000,000
EKC Enterprises, Inc.	Greg Alavezos	4658 E Weathermaker Ave, FRESNO, CA, 93703	559-438-0330 x1000	559-438-0333	prequal@ekccorp.com	916095_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor)	11/22/2024	\$9,500,000
Elcor Electric, Inc.	Sarah Johnson	3310 Bassett Street, Santa Clara, CA, 95054	408-886-3009	408-986-1324	sjohnson@elcorelectric.com	500228_	C-10 (Electrical Contractor)	04/10/2024	\$24,000,000
FIRE SYSTEM SOLUTIONS, INC.	Jorge Moran	4277 W Richert Ave Ste 103, Fresno, CA, 93722	559-275-4894	559-275-4898	jmoran@firesystemsolutions. com	982763_	C-10 (Electrical Contractor), C-16 (Fire Protection Contractor)	10/18/2024	\$1,150,000
FOS ELECTRIC INC	Steve Tsvetkov	1556 FITZGERALD DR #349, Pinole, CA, 94564	510-219-6265		steve@foselectric.net	1028928	C-10 (Electrical Contractor)	11/14/2024	\$4,000,000
General Lighting Service, Inc.	Christian Cusella	306 Mathew Street, Santa Clara CA 95050	408-298-6670	408-298-6795	connie@gls-inc.net	466869_	C-10 (Electrical Contractor)	10/23/2024	\$6,000,000
Golden Bay Fence Plus Iron works, Inc.	Paul Chavez	4104 South B Street, Stockton, CA, 96206	209-944-9754	209-944-5812	wmoreno@goldenbayfence.c om	664905_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-13 (Fencing Contractor), C-23 (Ornamental Metal Contractor)	12/06/2024	\$8,900,000
Grand Electric & Construction Co., Inc.	Samuel Lee	133 Tanforan Ave., San Bruno, CA, 94066	650-588-5678	650-588-6678	sam@grandelec.com	948360_	C-10 (Electrical Contractor)	04/03/2024	\$2,150,000
H.A. Bowen Electric, Inc.	Paul Leal	2055 Williams Street, San Leandro, CA, 94577	510-483-0500	510-483-7210	paul@bowenelectric.com	384915_	C-10 (Electrical Contractor)	12/05/2024	\$3,500,000
Hellas Construction	Andrew Clough	12000 West Parmer Lane, Austin, TX, 78613	512-250-2910	512-250-1960	aclough@hellasconstruction. com	852751_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-61 (Limited Specialty)	11/20/2024	\$50,000,000
Johnson Controls Fire Protection LP	Athena Stephenson	3568 Ruffin Road South, San Diego, CA, 92123	657-465-0920	858-633-9101	athenamarie.stephenson@jci .com	986047_	C-10 (Electrical Contractor), C-16 (Fire Protection Contractor)	11/14/2024	\$1,500,000
LEWIS AND TIBBITTS, INC	RHONDA FULTZ	1470 Industrial Av, Sunnyvale, CA, 95112	408-925-0220	408-925-0240	rfultz@diglt.com	281666_	C-10 (Electrical Contractor), A (General Engineering Contractor), C- 36 (Plumbing Contractor), C-42 (Sanitation System Contractor)	07/24/2024	\$15,000,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-16 (Fire Protection Contractor), C-20 (Warm- Air Heating, Ventilating and Air- Conditioning Contractor), C-36 (Plumbing Contractor), C-7 (Low Voltage Systems Contractor)	11/20/2024	\$8,500,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-38 (Refrigeration Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	02/28/2024	\$12,500,000
MCGRATH ELECTRIC, INC.	Jessica Marmolejo	2800 INDUSTRIAL, FAIRFIELD, CA, 94533	707-422-4131 x424	707-422-4151	jessicam@mcgrathelectricinc .com	853934_	C-10 (Electrical Contractor)	11/22/2024	\$4,500,000
McMillan Electric	Steve Varley	1480 Folsom Street, San Francisco, CA, 94103	415-826-5100	415-826-0142	svarley@mcmillanco.com	268179_	C-10 (Electrical Contractor)	12/05/2024	\$15,500,000
Mike Brown Electric Co.	Gary Ryan	561-A Mercantile Drive, Cotati, CA, 94931	707-792-8100	707-792-8110	garyr@mbelectric.com	306767_	C-10 (Electrical Contractor), A (General Engineering Contractor)	04/06/2024	\$4,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-10 Electrical \$7.8M+ Prequalification Application Report as of 12/14/23

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Niles Electric Company	Jacob Brahmst	37316 Niles Blvd Unit 5, Fremont, CA, 94536	510-797-2500	510-797-6815	jacobbrahmst@nileselec.com	168342_	C-10 (Electrical Contractor)	11/28/2024	\$2,000,000
Pacific Power & Systems, Inc.	Beth Parker	4970 Peabody Road, Fairfield, CA, 94533	904-345-4529	707-759-7688	bethp@norleegroup.com	458315_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor)	01/31/2024	\$3,000,000
PFEIFFER ELECTRIC CO., INC.	VANESA CALDERON	448 QUEENS LANE, [Enter City], CA, 00000	408-436-8523	408-436-0209	vanesa@pfeifferelectric.com	197773_	C-10 (Electrical Contractor)	04/04/2024	\$3,000,000
PMN DESIGN ELECTRIC INC dba DESIGN ELECTRIC	Agusia Moore	39 Wyoming Street, Pleasanton, CA, 94566	925-846-0650		amoore@designelco.com	348215_	C-10 (Electrical Contractor)	09/11/2024	\$9,500,000
Reliable Monitoring Services (dba RMS Construction)	Ricky Mendoza	2698 JUNIPERO AVE STE 105-107, SIGNAL HILL, CA, 90755	562-676-2140	805-435-1647	rmendoza@rmslifesafety.com	900304_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor), C-16 (Fire Protection Contractor)	03/30/2024	\$1,500,000
Smith & Sons Electric, Inc.	Charleen Lighthill	44255 Old Warm Springs Blvd, Fremont, CA 94538	510-651-4994	510-651-1954	charleen@smithandsonselectric.com	437138_	C-10 (Electrical Contractor)	10/18/2024	\$8,000,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000
Taft Electric Company	Travis Roy	1694 Eastman Avenue, Ventura, CA, 93003	805-642-0121	805-650-9015	troy@taftelectric.com	772245_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor)	04/06/2024	\$5,500,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-10 Electrical \$7.8M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Tennyson Electric, LLC.	Michelle Coatney	7275 National Drive Suite A-2, Livermore, CA, 94550	925-390-0104	925-606-7656	estimating@tennysonelec.com	717998_	C-10 (Electrical Contractor), A (General Engineering Contractor), C-7 (Low Voltage Systems Contractor)	11/14/2024	\$15,500,000
Tse Construction	Jerry Tse	699 Lewelling Blvd #146/338, San Leandro, CA, 94579	510-812-3466	510-323-2528	jerry@tsegc.com	925736_	C-10 (Electrical Contractor), B (General Building Contractor), C-33 (Painting and Decorating Contractor), C-36 (Plumbing Contractor)	05/25/2024	\$2,000,000
Vanden Bos Electric, Inc.	Patrick Burke	502 Giuseppe Court #5, Roseville, CA 95678	916-773-1500	916-773-1973	Pat@vdbelectric.com	627898_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor), B (General Building Contractor)	12/04/2024	\$6,500,000
W. Bradley Electric, LLC.	Joe Murphy	90 Hill Road, Novato, CA, 94945	415-898-1400	415-898-5991	jmurphy@wbeinc.com	390741_	C-10 (Electrical Contractor), A (General Engineering Contractor), B (General Building Contractor)	12/04/2024	\$27,000,000
Walker Telecomm, Inc.	Angel McDonald	412 Main Street, Wheatland, CA, 95692	530-652-4169	530-641-1258	angel@walkertelecomm.com	953866_	C-10 (Electrical Contractor), C-7 (Low Voltage Systems Contractor), B (General Building Contractor)	11/14/2024	\$11,000,000
Wilhite Electric Inc	Troy Wilhite	337 Preston Ct, Livermore, CA, 94551	925-443-7400		troy@wilhiteinc.com	820528_	C-10 (Electrical Contractor), B (General Building Contractor)	10/18/2024	\$2,100,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-16 Fire Protection \$800k+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-38 (Refrigeration Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
Bellant Plumbing Inc.	Ron Bellanti	121 South Maple Ave #10, SOUTH SAN FRANCISCO, CA. 94080	650-588-2990	650-588-0721	rbellant@bellantiplumbing.com	327664_	C-16 (Fire Protection Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$6,500,000
Cal-Pacific Construction Inc	Kennedy Chan	1009 Terra Nova Blvd. , Pacifica, CA, 94044	650-557-1238 x109	650-557-1239	kc@pacific888.com	830908_	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor)	12/04/2024	\$15,000,000
FIRE SYSTEM SOLUTIONS, INC.	Jorge Moran	4277 W Richert Ave Ste 103, Fresno, CA, 93722	559-275-4894	559-275-4898	jmoran@firesystemsolutions.com	982763_	C-16 (Fire Protection Contractor), C-10 (Electrical Contractor)	10/18/2024	\$1,150,000
Johnson Controls Fire Protection LP	Athena Stephenson	3568 Ruffin Road South, San Diego, CA, 92123	657-465-0920	858-633-9101	athenamaria.stephenson@jci.com	986047_	C-16 (Fire Protection Contractor), C-10 (Electrical Contractor)	11/14/2024	\$1,500,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-7 (Low Voltage Systems Contractor)	11/20/2024	\$8,500,000
Marquee Fire Protection, LLC	Theresa Gamble	3875 Atherton Road, Suite 200, Rocklin, CA 95765	916-641-7997	916-641-0775	theresa.gamble@marqueefire.com	1077494	C-16 (Fire Protection Contractor)	10/18/2024	\$4,000,000
Presidential Fire Protection, Inc.	Fabian Robles	4517 Harlin Drive, Sacramento, CA, 95826	916-379-9199	916-379-9099	Fabian@presidentialfireprotection.com	847133_	C-16 (Fire Protection Contractor)	10/24/2024	\$1,000,000
R L H FIRE PROTECTION INC	Dawn Fulton	4300 Stine Rd., Bldg 500, Bakersfield, CA 93313	661-322-9344	661-322-6816	dfulton@rlhfp.com	777717_	C-16 (Fire Protection Contractor), C-10 (Electrical Contractor), A (General Engineering Contractor)	10/18/2024	\$1,000,000
RCM Fire Protection Inc.	Deborah Stoffel	350 Enterprise Place, Tracy, CA, 95304	209-833-8228	209-833-8221	dstoffel@rcmfire.com	793205_	C-16 (Fire Protection Contractor)	04/11/2024	\$800,000
Reliable Monitoring Services (dba RMS Construction)	Ricky Mendoza	2698 JUNIPERO AVE STE 105-107, SIGNAL HILL, CA, 90755	562-676-2140	805-435-1647	rmendoza@rmslifesafety.com	900304_	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor)	03/30/2024	\$1,500,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-16 Fire Protection \$800k+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-16 (Fire Protection Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000
Walschon Fire Protection, Inc.	Anastasia Vegas	2182 Rheem Dr. Suite 200, Pleasanton , CA, 94588	650-594-1588	650-594-1613	anastasia@walschon.com	568438_	C-16 (Fire Protection Contractor)	10/30/2024	\$2,900,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-20 Mechanical \$2.2M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor), C-38 (Refrigeration Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
AGC INC	Randy Attaway	745-B Camden Ave, Campbell, CA, 95008	408-637-1135	408-369-0309	randy@agcinc.com	780352_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), C-36 (Plumbing Contractor)	11/14/2024	\$10,000,000
Aire Sheet Metal, Inc.	Barrie Solomon	1973 East Bayshore Road, Redwood City, CA 94063	650-364-8081	650-369-8357	barrie@airesm.com	271264_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-43 (Sheet Metal Contractor)	11/14/2024	\$4,700,000
Bay City Mechanical, Inc.	Crystal Rougeau	870 Harbour Way South Richmond , Ca 94804	510-233-7000	510-669-9856	Crystal@baycitymech.com	645126_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor), B (General Building Contractor)	12/07/2024	\$12,500,000
Bobo Construction, Inc.	Sarah Wilkins	9722 Kent Street, Suite A, Elk Grove, CA, 95624	916-383-7777	916-383-1681	cbobo@boboconstructioninc.com	183537_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-43 (Sheet Metal Contractor), C-61 (Limited Specialty), C-8 (Concrete Contractor), C-36 (Plumbing Contractor)	03/17/2024	\$27,800,000
DAC SERVICE, INC. DBA FOUR C'S CONSTRUCTION	Linda Chavez	1560 H Street, Fresno, CA, 93721	559-237-3990	559-237-3999	linda@fourcsmetal.com	908294_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-39 (Roofing Contractor), C-43 (Sheet Metal Contractor), B (General Building Contractor), C-36 (Plumbing Contractor)	04/25/2024	\$5,300,000
DDK Mechanical, Inc	Kenneth Seastrom	5761 Florin-Perkins Rd #9, Sacramento, CA, 95828	916-383-5190	916-383-5191	office3ddk@sbcglobal.net	855723_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	12/08/2024	\$8,000,000
Dowdle & Sons Mechanical, Inc.	Shelley Dowdle	100 Tower Road American Canyon CA 94503, American Canyon, CA, 94503	707-224-6968	707-224-7885	shelley@dowdleandsonsmec.h.com	542743_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	10/23/2024	\$6,200,000
Environmental Systems, Inc.	Donna Nyblom	3353 De La Cruz Blvd., Santa Clara, CA, 95054	408-980-1711	408-980-0714	dnyblom@esite.net	422478_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor), C-38 (Refrigeration Contractor)	11/28/2024	\$18,000,000
FAMAND INC DBA INDOOR ENVIRONMENTAL SERVICES	Jeanine Zito	1604 Airport Blvd, Santa Rosa, CA, 95403	916-803-5178	916-348-3020	jzito@ies-hvac.com	0646794	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-38 (Refrigeration Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$25,000,000
FOOTHILL AIR CONDITIONING AND HEATING, INC.	Steve Davies	17419 Farley Road West Los Gatos CA 95030	408-395-2500	408-395-2064	steve@foothillac.com	363862_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), C-43 (Sheet Metal Contractor)	10/30/2024	\$5,500,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-20 Mechanical \$2.2M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
GroundLevel Construction, Inc.	Julie Accettola	5013 Forni Dr., Unit C, Concord, CA, 94520	925-446-6084	925-446-6375	julie@groundlevelconstruction.com	991672_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), HAZ (Hazardous Substance Removal Certification)	04/10/2024	\$6,200,000
Horizons Construction Company International Inc.	Yazmin Barrera	432 W Meats Avenue, Orange, CA, 92865	714-626-0000	714-626-0006	bidding@horizonscci.com	825022_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), A (General Engineering Contractor), C-36 (Plumbing Contractor), C-12 (Earthwork and Paving Contractors), C-8 (Concrete Contractor), C-21 (Building Moving/Demolition Contractor), C-2 (Insulation and Acoustical Contractor), C-15 (Flooring and Floor Covering Contractors), C-33 (Painting and Decorating Contractor)	10/30/2024	\$9,500,000
Hydra Ventures, Inc. dba Cal Pacific Systems	Christina Gee	50 Cypress Lane, Brisbane, CA 94005	415-252-8600	415-252-8700	christina.gee@calpacificsystems.com	924244_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), A (General Engineering Contractor)	11/14/2024	\$3,500,000
J.W. McClenahan Co.	Melissa Treft	2301 Palm Ave. San Mateo CA 94403,	650-345-1691	650-345-5681	mtreft@jwmcco.com	308818_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-42 (Sanitation System Contractor), C-60 (Welding Contractor)	11/14/2024	\$13,000,000
JMS Mechanical Inc.	Kim Smuck	538 Martin Ave. Suite D, Rohnert Park, CA, 94928	707-585-0120	707-585-0121	jmsmechanical@hotmail.com	811562_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	04/19/2024	\$2,600,000
Kevin M Sullivan & Associates Inc.	Beverly Nunes	431 N Buchanan Circle #2, Martinez, CA, 94553	925-825-5625 x214	925-825-5681	samantha@sullivanhvac.com	887975_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-43 (Sheet Metal Contractor), C-36 (Plumbing Contractor)	02/27/2024	\$5,000,000
Los Angeles Air Conditioning, Inc.	Jasmin Castanon-Carrillo	1714 Lindbergh Ct., La Verne, CA, 91750	909-596-7077	909-596-6657	jasmin@laair.net	208872_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	03/21/2024	\$3,700,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-36 (Plumbing Contractor), C-7 (Low Voltage Systems Contractor)	11/20/2024	\$8,500,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-38 (Refrigeration Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	02/28/2024	\$12,500,000
OWR Mechanical, Inc. dba Monarch Mechanical	David Vargas	595 Buck Ave, Suite A, Vacaville, CA, 95688	707-374-4900		david@monarchmech.com	736565_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-36 (Plumbing Contractor)	04/06/2024	\$2,500,000
PRECISION AIR BALANCING COMPANY	Karen Fox	1240 N. Jefferson St, Ste H, Anaheim, CA, 92807	714-630-3796	714-630-3998	kfox@precisionairbalance.com	633805_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-61 (Limited Specialty)	10/18/2024	\$5,600,000
Russell Sigler Inc.	Jeffrey Myers	205 South Puente St., Brea, CA, 92821	714-421-2455		jmyers@siglers.com	960159_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	09/11/2024	\$5,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-20 Mechanical \$2.2M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Silicon Valley Mechanical, Inc.	Corissa Hulick	2115 Ringwood Avenue, San Jose, CA, 95130	408-943-0380		marketing@svminc.com	992731_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	11/21/2024	\$28,000,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-36 (Plumbing Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000
Stephen Ciari Plumbing and Heating, Inc.	Steve Ciari	1054 Elm St, San Jose, CA, 95126	408-296-6010	408-296-0645	alena@ciariplumbing.com	828351_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	11/21/2024	\$9,700,000
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000
Trahan Mechanical, Inc dba Trahan Brothers	Patrick Trahan	P.O. Box 10462 - San Rafael, CA 94912 - 60A Belvedere, San Rafael, CA, 94901	415-457-5541	415-457-5269	patrick@trahaninc.com	774154_	C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	11/14/2024	\$4,200,000



**SAN MATEO-
FOSTER CITY
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**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-34 Pipeline \$2.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Cratus, Inc.	Michael Kirwan	945 Taraval Street, #302, San Francisco, CA, 94116	415-939-2840	415-520-6037	estimating@cratusinc.com	987888_	C-34 (Pipeline Contractor), A (General Engineering Contractor)	01/31/2024	\$4,000,000
Preston Pipelines Infrastructure LLC	Michelle Costanza	133 Bothelo Avenue, Milpitas, CA, 95691	408-262-1418 x113	408-262-1870	mcostanza@prestonpipelines.com	1059395	C-34 (Pipeline Contractor), A (General Engineering Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$46,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-36 Plumbing \$1.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
AGC INC	Randy Attaway	745-B Camden Ave, Campbell, CA, 95008	408-637-1135	408-369-0309	randy@agcinc.com	780352_	C-36 (Plumbing Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	11/14/2024	\$10,000,000
ALLIED HEATING & AIR CONDITIONING, INC.	Sargon Michael	12 DE LUCA PLACE, SAN RAFAEL, CA, 94901	415-459-5232 x210	415-459-0407	smichael@alliedhvac.com	453261_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	09/11/2024	\$1,500,000
American Plumbing Systems, Inc dba APSI	Jay Hanacek	161 Palm Ave, Suite 9, Auburn, CA, 95603	530-537-2949	530-537-2597	jay@americanplumbingsystems.com	990571_	C-36 (Plumbing Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	11/20/2024	\$1,500,000
Bay City Mechanical, Inc.	Crystal Rougeau	870 Harbour Way South Richmond , Ca 94804	510-233-7000	510-669-9856	Crystal@baycitymech.com	645126_	C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), B (General Building Contractor)	12/07/2024	\$12,500,000
Bay Point Control, Inc. DBA Marina Mechanical	Jamie Wallace	799 Thornton Street, San Leandro, CA, 94577	510-614-3500	510-614-4583	jwallace@marinam.com	416198_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-2 (Insulation and Acoustical Contractor), C-43 (Sheet Metal Contractor), C-10 (Electrical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	03/21/2024	\$1,700,000
Bellanti Plumbing Inc.	Ron Bellanti	121 South Maple Ave #10, SOUTH SAN FRANCISCO, CA, 94080	650-588-2990	650-588-0721	rjbellanti@bellantiplumbing.com	327664_	C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-16 (Fire Protection Contractor)	10/18/2024	\$6,500,000
Bobo Construction, Inc.	Sarah Wilkins	9722 Kent Street, Suite A, Elk Grove, CA, 95624	916-383-7777	916-383-1681	cbobo@boboconstructioninc.com	183537_	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-61 (Limited Specialty), C-8 (Concrete Contractor)	03/17/2024	\$27,800,000
Cal-Pacific Construction Inc	Kennedy Chan	1009 Terra Nova Blvd. , Pacifica, CA, 94044	650-557-1238 x109	650-557-1239	kc@pacific888.com	830908_	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-7 (Low Voltage Systems Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor)	12/04/2024	\$15,000,000
DAC SERVICE, INC. DBA FOUR C'S CONSTRUCTION	Linda Chavez	1560 H Street, Fresno, CA, 93721	559-237-3990	559-237-3999	linda@fourcsmetal.com	908294_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-39 (Roofing Contractor), C-43 (Sheet Metal Contractor), B (General Building Contractor)	04/25/2024	\$5,300,000
DDK Mechanical, Inc	Kenneth Seastrom	5761 Florin-Perkins Rd #9, Sacramento, CA, 95828	916-383-5190	916-383-5191	office3ddk@sbcglobal.net	855723_	C-36 (Plumbing Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	12/08/2024	\$8,000,000



**SAN MATEO-
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SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-36 Plumbing \$1.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Dinelli Plumbing Incorporated	John Dinelli	1160 Chess Drive suite #5, Foster, CA, 94404	650-372-9456	650-372-9469	johndinelli@dinelliplumbing.com	801472_	C-36 (Plumbing Contractor)	07/24/2024	\$8,600,000
Dowdle & Sons Mechanical, Inc.	Shelley Dowdle	100 Tower Road American Canyon CA 94503, American Canyon, CA, 94503	707-224-6968	707-224-7885	shelley@dowdleandsonsmec.h.com	542743_	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	10/23/2024	\$6,200,000
Environmental Systems, Inc.	Donna Nyblom	3353 De La Cruz Blvd., Santa Clara, CA, 95054	408-980-1711	408-980-0714	dnyblom@esite.net	422478_	C-36 (Plumbing Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-38 (Refrigeration Contractor)	11/28/2024	\$18,000,000
FAMAND INC DBA INDOOR ENVIRONMENTAL SERVICES	Jeanine Zito	1604 Airport Blvd, Santa Rosa, CA, 95403	916-803-5178	916-348-3020	jzito@ies-hvac.com	0646794	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-38 (Refrigeration Contractor)	10/18/2024	\$25,000,000
Flanders Heat And Air Systems INC.	Bret Flanders	555 peters ave #255, pleasanton, CA, 94566	925-461-3333	925-461-7419	b.flanders@sbcglobal.net	677502_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	10/18/2024	\$1,200,000
Horizons Construction Company International Inc.	Yazmin Barrera	432 W Meats Avenue, Orange, CA, 92865	714-626-0000	714-626-0006	bidding@horizonscci.com	825022_	C-36 (Plumbing Contractor), B (General Building Contractor), A (General Engineering Contractor), C-12 (Earthwork and Paving Contractors), C-8 (Concrete Contractor), C-21 (Building Moving/Demolition Contractor), C-2 (Insulation and Acoustical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-15 (Flooring and Floor Covering Contractors), C-33 (Painting and Decorating Contractor)	10/30/2024	\$9,500,000
Hydra Ventures, Inc. dba Cal Pacific Systems	Christina Gee	50 Cypress Lane, Brisbane, CA 94005	415-252-8600	415-252-8700	christina.gee@calpacificsystems.com	924244_	C-36 (Plumbing Contractor), B (General Building Contractor), A (General Engineering Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	11/14/2024	\$3,500,000
ICOM Mechanical, Inc	Cindy Tatsumi	477 Burke Street, San Jose, CA, 95112	408-792-2240	408-292-4968	ctatsumi@icominc.com	408622_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), B (General Building Contractor)	09/11/2024	\$1,500,000
J.W. McClenahan Co.	Melissa Treft	2301 Palm Ave. San Mateo CA 94403,	650-345-1691	650-345-5681	mtreft@jwmcco.com	308818_	C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-42 (Sanitation System Contractor), C-60 (Welding Contractor)	11/14/2024	\$13,000,000
Kevin M Sullivan & Associates Inc.	Beverly Nunes	431 N Buchanan Circle #2, Martinez, CA, 94553	925-825-5625 x214	925-825-5681	samantha@sullivanhvac.com	887975_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-43 (Sheet Metal Contractor)	02/27/2024	\$5,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-36 Plumbing \$1.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
LEWIS AND TIBBITTS, INC	RHONDA FULTZ	1470 Industrial Av, Sunnyvale, CA, 95112	408-925-0220	408-925-0240	rfultz@diglt.com	281666_	C-36 (Plumbing Contractor), A (General Engineering Contractor), C-10 (Electrical Contractor), C-42 (Sanitation System Contractor)	07/24/2024	\$15,000,000
M3 MEP, LLC	Anisa Gutierrez-Castro	5101 Florin Perkins Rd, Sacramento, CA, 95826	916-381-8080	916-386-0363	estimating@mark-three.com	1098716	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-7 (Low Voltage Systems Contractor)	11/20/2024	\$8,500,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-10 (Electrical Contractor), B (General Building Contractor), C-38 (Refrigeration Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	02/28/2024	\$12,500,000
MPI - Miller Plumbing Inc.	David Miller	949 N Cataract Ave #L, San Dimas CA 91773	626-714-5555		nathan@mpiplumbing.com	720581_	C-36 (Plumbing Contractor), C-34 (Pipeline Contractor)	03/30/2024	\$1,300,000
OWR Mechanical, Inc. dba Monarch Mechanical	David Vargas	595 Buck Ave, Suite A, Vacaville, CA, 95688	707-374-4900		david@monarchmech.com	736565_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	04/06/2024	\$2,500,000
Paragon Mechanical, Inc.	Michael Orth	16160 Caputo Drive, Morgan Hill, CA, 95037	408-727-7303	408-566-6190	morth@paragonmechanical.com	490427_	C-36 (Plumbing Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	04/06/2024	\$2,000,000
Rivera Equipment dba Valley Industrial Mechanical	Raymond Rivera	PO Box 3457, Victorville, CA, 92393	760-646-7974		cortney@revim.co	1051483	C-36 (Plumbing Contractor)	03/17/2024	\$4,600,000
ROUNTREE PLUMBING AND HEATING INC.	STEPHEN SINGEWALD	1624 Santa Clara Dr. Suite 120, Roseville, CA, 95661	650-298-0312		dcrabb@routtreeinc.com	265489_	C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), HAZ (Hazardous Substance Removal Certification), A (General Engineering Contractor), B (General Building Contractor)	04/18/2024	\$5,600,000
Silicon Valley Mechanical, Inc.	Corissa Hulick	2115 Ringwood Avenue, San Jose, CA, 95130	408-943-0380		marketing@svminc.com	992731_	C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	11/21/2024	\$28,000,000
Smith Mechanical-Electrical-Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	10/18/2024	\$3,500,000
Stephen Ciari Plumbing and Heating, Inc.	Steve Ciari	1054 Elm St, San Jose, CA, 95126	408-296-6010	408-296-0645	alena@ciariplumbing.com	828351_	C-36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	11/21/2024	\$9,700,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-36 Plumbing \$1.1M+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-36 (Plumbing Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000
Tse Construction	Jerry Tse	699 Lewelling Blvd #146/338, San Leandro, CA, 94579	510-812-3466	510-323-2528	jerry@tsegc.com	925736_	C-36 (Plumbing Contractor), B (General Building Contractor), C-10 (Electrical Contractor), C-33 (Painting and Decorating Contractor)	05/25/2024	\$2,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-38 Refrigeration \$0+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-38 (Refrigeration Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-16 (Fire Protection Contractor), C-42 (Sanitation System Contractor)	10/18/2024	\$12,000,000
American Mechanical, INC. dba American Mechanical; IQ Controls	Kelli Blocker	1275 Boulevard Way, Walnut Creek, CA, 94595	925-946-9101	925-943-6224	kmblocker@ami-hvac.com	883177_	C-38 (Refrigeration Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	11/14/2024	\$250,000
Bay Point Control, Inc. DBA Marina Mechanical	Jamie Wallace	799 Thornton Street, San Leandro, CA, 94577	510-614-3500	510-614-4583	jwallace@marinam.com	416198_	C-38 (Refrigeration Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-2 (Insulation and Acoustical Contractor), C-43 (Sheet Metal Contractor), C-10 (Electrical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C- 36 (Plumbing Contractor)	03/21/2024	\$1,700,000
Environmental Systems, Inc.	Donna Nyblom	3353 De La Cruz Blvd., Santa Clara, CA, 95054	408-980-1711	408-980-0714	dnyblom@esite.net	422478_	C-38 (Refrigeration Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-43 (Sheet Metal Contractor)	11/28/2024	\$18,000,000
FAMAND INC DBA INDOOR ENVIRONMENTAL SERVICES	Jeanine Zito	1604 Airport Blvd, Santa Rosa, CA, 95403	916-803-5178	916-348-3020	jzito@ies-hvac.com	0646794	C-38 (Refrigeration Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C- 36 (Plumbing Contractor)	10/18/2024	\$25,000,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-38 (Refrigeration Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	02/28/2024	\$12,500,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-38 Refrigeration \$0+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.com	92_____	C-38 (Refrigeration Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C-9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), C-42 (Sanitation System Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-42 Sanitation \$300K+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
ACCO ENGINEERED SYSTEMS INC dba ACCO ENGINEERED SYSTEMS	Cindi Adler	888 East Walnut Street, Pasadena, CA 91101(HQ)1133 Aladdin Avenue San Leandro, CA 94577	818-244-6571	000-000-0000	cadler@accoes.com	120696_	C-42 (Sanitation System Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-10 (Electrical Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-38 (Refrigeration Contractor), C-16 (Fire Protection Contractor)	10/18/2024	\$12,000,000
J.W. McClenahan Co.	Melissa Treft	2301 Palm Ave. San Mateo CA 94403,	650-345-1691	650-345-5681	mtreft@jwmcco.com	308818_	C-42 (Sanitation System Contractor), C- 36 (Plumbing Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-60 (Welding Contractor)	11/14/2024	\$13,000,000
LEWIS AND TIBBITTS, INC	RHONDA FULTZ	1470 Industrial Av, Sunnyvale, CA, 95112	408-925-0220	408-925-0240	rfultz@diglt.com	281666_	C-42 (Sanitation System Contractor), A (General Engineering Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor)	07/24/2024	\$15,000,000
Swinerton Builders	Rebecca Anicich	2880 Lakeside Drive, Suite 300 Santa Clara, CA 95054	925-200-4628	877-349-7149	rebecca.anicich@swinerton.c om	92_____	C-42 (Sanitation System Contractor), A (General Engineering Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-12 (Earthwork and Paving Contractors), C-5 (Framing and Rough Carpentry Contractor), C-2 (Insulation and Acoustical Contractor), C- 9 (Drywall Contractor), C-8 (Concrete Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-33 (Painting and Decorating Contractor), C-23 (Ornamental Metal Contractor), C-29 (Masonry Contractor), C-39 (Roofing Contractor), C-50 (Reinforcing Steel Contractor), C-51 (Structural Steel Contractor), C-38 (Refrigeration Contractor), C-61 (Limited Specialty), C-6 (Cabinet, Millwork and Finish Carpentry Contractor), C-35 (Lathing and Plastering Contractor), C-36 (Plumbing Contractor), C-55 (Water Conditioning Contractor), ASB (Asbestos Certification), C-10 (Electrical Contractor), C-21 (Building Moving/Demolition Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$380,000,000
Preston Pipelines Infrastructure LLC	Michelle Costanza	133 Bothelo Avenue, Milpitas, CA, 95691	408-262-1418 x113	408-262-1870	mcostanza@prestonpipeline s.com	1059395	C-42 (Sanitation System Contractor), A (General Engineering Contractor), C-16 (Fire Protection Contractor), C-34 (Pipeline Contractor), HAZ (Hazardous Substance Removal Certification)	01/25/2024	\$46,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-43 Sheet Metal \$600k+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Aire Sheet Metal, Inc.	Barrie Solomon	1973 East Bayshore Road, Rewdood City, CA 94063	650-364-8081	650-369-8357	barrie@airesm.com	271264_	C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	11/14/2024	\$4,700,000
ALLIED HEATING & AIR CONDITIONING, INC.	Sargon Michael	12 DE LUCA PLACE, SAN RAFAEL, CA, 94901	415-459-5232 x210	415-459-0407	smichael@alliedhvac.com	453261_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	09/11/2024	\$1,500,000
American Mechanical, INC. dba American Mechanical; IQ Controls	Kelli Blocker	1275 Boulevard Way, Walnut Creek, CA, 94595	925-946-9101	925-943-6224	kmblocker@ami-hvac.com	883177_	C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor)	11/14/2024	\$250,000
Bay City Mechanical, Inc.	Crystal Rougeau	870 Harbour Way South Richmond , Ca 94804	510-233-7000	510-669-9856	Crystal@baycitymech.com	645126_	C-43 (Sheet Metal Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), B (General Building Contractor)	12/07/2024	\$12,500,000
Bay Point Control, Inc. DBA Marina Mechanical	Jamie Wallace	799 Thornton Street, San Leandro, CA, 94577	510-614-3500	510-614-4583	jwallace@marinam.com	416198_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor), C-2 (Insulation and Acoustical Contractor), C-10 (Electrical Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	03/21/2024	\$1,700,000
Bayside Mechanical, Inc	Mazen Tawasha	333 N. Amphlett Blvd, San Mateo, CA, 94401	650-296-4608		mazen@baysideinc.com	842690_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor)	04/11/2024	\$50,000
Best Contracting Services, Inc.	Myris Guballa	4301 Bettencourt Way Union City, CA 94587	310-328-6969 x210	310-328-9176	estimating@bestcontracting. com	456263_	C-43 (Sheet Metal Contractor), A (General Engineering Contractor), B (General Building Contractor), C-17 (Glazing Contractor), C-39 (Roofing Contractor)	10/23/2024	\$30,000,000
Bobo Construction, Inc.	Sarah Wilkins	9722 Kent Street, Suite A, Elk Grove, CA, 95624	916-383-7777	916-383-1681	cbobo@bobobconstructioninc. com	183537_	C-43 (Sheet Metal Contractor), A (General Engineering Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-61 (Limited Specialty), C-8 (Concrete Contractor), C-36 (Plumbing Contractor)	03/17/2024	\$27,800,000
Brady Air Conditioning, Inc.	Daniela Rivera	338 No. Canal St., #5, So. San Francisco, CA, 94080	650-742-9640		ap@bradyair.com	585882_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor), C-16 (Fire Protection Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	10/24/2024	\$200,000
Commercial Waterproofing Systems, Inc. dba ERC Roofing & Waterproofing	Garrett Clark	1630 Palm Street, Santa Ana, CA, 92701	714-667-6000	714-667-7000	estimating@ercroofing.com	781499_	C-43 (Sheet Metal Contractor), A (General Engineering Contractor), B (General Building Contractor), C-39 (Roofing Contractor)	01/31/2024	\$1,100,000
DAC SERVICE, INC. DBA FOUR C'S CONSTRUCTION	Linda Chavez	1560 H Street, Fresno, CA, 93721	559-237-3990	559-237-3999	linda@fourcsmetal.com	908294_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-39 (Roofing Contractor), B (General Building Contractor), C-36 (Plumbing Contractor)	04/25/2024	\$5,300,000
DDK Mechanical, Inc	Kenneth Seastrom	5761 Florin-Perkins Rd #9, Sacramento, CA, 95828	916-383-5190	916-383-5191	office3ddk@sbcglobal.net	855723_	C-43 (Sheet Metal Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-36 (Plumbing Contractor)	12/08/2024	\$8,000,000



**SAN MATEO-
FOSTER CITY
SCHOOL DISTRICT**

**Bowditch Academic Core 21-214A & Gym Project 24-214B
Approved C-43 Sheet Metal \$600k+ Prequalification Application Report as of 12/14/23**

Company	Contractor	Address	Phone	Fax	Email	License Number	License Classifications	Expires	Approval Limit
Environmental Systems, Inc.	Donna Nyblom	3353 De La Cruz Blvd., Santa Clara, CA, 95054	408-980-1711	408-980-0714	dnyblom@esite.net	422478_	C-43 (Sheet Metal Contractor), B (General Building Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor), C-20 (Warm-Air Heating, Ventilating and Air-Conditioning Contractor), C-38 (Refrigeration Contractor)	11/28/2024	\$18,000,000
FAMAND INC DBA INDOOR ENVIRONMENTAL SERVICES	Jeanine Zito	1604 Airport Blvd, Santa Rosa, CA, 95403	916-803-5178	916-348-3020	jzito@ies-hvac.com	0646794	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-38 (Refrigeration Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$25,000,000
Fertado Heating and Air	Becky Fertado	2504 Verne Roberts Circle Suite 101, Antioch, CA, 94509	925-754-2730	925-754-2748	fertadoheatnair@sbcglobal.n et	792474_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor)	11/22/2024	\$2,000,000
FOOTHILL AIR CONDITIONING AND HEATING, INC.	Steve Davies	17419 Farley Road West Los Gatos CA 95030	408-395-2500	408-395-2064	steve@foothillac.com	363862_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), B (General Building Contractor)	10/30/2024	\$5,500,000
JMS Mechanical Inc.	Kim Smuck	538 Martin Ave. Suite D, Rohnert Park, CA, 94928	707-585-0120	707-585-0121	jmsmechanical@hotmail.com	811562_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor)	04/19/2024	\$2,600,000
Kevin M Sullivan & Associates Inc.	Beverly Nunes	431 N Buchanan Circle #2, Martinez, CA, 94553	925-825-5625 x214	925-825-5681	samantha@sullivanhvac.com	887975_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-36 (Plumbing Contractor)	02/27/2024	\$5,000,000
Matrix HG, Inc	Ashley Silva	115 Mason Circle, suite B, Concord, CA, 94520	925-459-9200	925-459-9220	projects@matrixhginc.com	812232_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-10 (Electrical Contractor), C-36 (Plumbing Contractor), B (General Building Contractor), C-38 (Refrigeration Contractor), C-4 (Boiler, Hot Water Heating and Steam Fitting Contractor)	02/28/2024	\$12,500,000
OWR Mechanical, Inc. dba Monarch Mechanical	David Vargas	595 Buck Ave, Suite A, Vacaville, CA, 95688	707-374-4900		david@monarchmech.com	736565_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-36 (Plumbing Contractor)	04/06/2024	\$2,500,000
PAC SHIELD Roof Services Inc	Gabriela Lapizco	5151 Pentecost Dr. Ste A-1, Modesto, CA, 95356	800-689-4716		glapizco@pacshield.com	1031725	C-43 (Sheet Metal Contractor), C-39 (Roofing Contractor)	09/11/2024	\$3,750,000
Paragon Mechanical, Inc.	Michael Orth	16160 Caputo Drive, Morgan Hill, CA, 95037	408-727-7303	408-566-6190	morth@paragonmechanical. com	490427_	C-43 (Sheet Metal Contractor), B (General Building Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-36 (Plumbing Contractor)	04/06/2024	\$2,000,000
Smith Mechanical-Electrical- Plumbing	Koren Cloud	1340 W. Betteravia Road, Santa Maria, CA, 93455	805-621-5000	805-621-5050	kcloud@smithmep.com	420418_	C-43 (Sheet Metal Contractor), A (General Engineering Contractor), B (General Building Contractor), C-2 (Insulation and Acoustical Contractor), C- 4 (Boiler, Hot Water Heating and Steam Fitting Contractor), C-7 (Low Voltage Systems Contractor), C-9 (Drywall Contractor), C-10 (Electrical Contractor), C-16 (Fire Protection Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor), C-36 (Plumbing Contractor)	10/18/2024	\$3,500,000
Trahan Mechanical, Inc dba Trahan Brothers	Patrick Trahan	P.O. Box 10462 - San Rafael, CA 94912 - 60A Belvedere, San Rafael, CA, 94901	415-457-5541	415-457-5269	patrick@trahaninc.com	774154_	C-43 (Sheet Metal Contractor), C-20 (Warm-Air Heating, Ventilating and Air- Conditioning Contractor)	11/14/2024	\$4,200,000

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- B. This Section includes the following, but is not necessarily limited to:
 - 1. Door Hardware, including electric hardware.
 - 2. Storefront and Entrance door hardware.
 - 3. Digital keypad/reader access control devices.
 - 4. Power supplies for electric hardware.
 - 5. Thresholds, gasketing and weather-stripping.
 - 6. Door silencers or mutes.
- C. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
 - 1. Section 08 11 13 - Hollow Metal Doors and Frames.
 - 2. Section 08 17 43 - FRP Flush Doors.
 - 3. Section 28 31 00 - Intrusion Systems.
 - 4. Section 28 46 00 - Fire Alarm System.

1.3 REFERENCES (USE DATE OF STANDARD IN EFFECT AS OF BID DATE.)

- A. 2019 California Building Code, CCR, Title 24.
- B. BHMA – Builders' Hardware Manufacturers Association
- C. DHI – Door and Hardware Institute
- D. NFPA - National Fire Protection Association.
 - 1. NFPA 80 - Fire Doors and Other Opening Protectives
 - 2. NFPA 105 - Smoke and Draft Control Door Assemblies
- E. SDI - Steel Door Institute
- F. UL - Underwriters Laboratories.
 - 1. UL 10C - Fire Tests of Door Assemblies
 - 2. UL 305 - Panic Hardware
- G. WHI - Warnock Hersey Incorporated

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. General: Submit in accordance with Conditions of the Contract and Division 01 Specification sections.
- B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Submit six (6) copies of schedule organized vertically into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
 1. Include a Cover Sheet with;
 - a. Job Name, location, telephone number.
 - b. Architects name, location and telephone number.
 - c. Contractors name, location, telephone number and job number.
 - d. Suppliers name, location, telephone number and job number.
 - e. Hardware consultant's name, location and telephone number.
 2. Job Index information included;
 - a. Numerical door number index including; door number, hardware heading number and page number.
 - b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
 - c. Manufacturers' names and abbreviations for all materials.
 - d. Explanation of abbreviations, symbols, and codes used in the schedule.
 - e. Mounting locations for hardware.
 - f. Clarification statements or questions.
 - g. Catalog cuts and manufacturer's technical data and instructions.
 3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number – HW -1)					
			(a) 1 Single Door #1 - Exterior from Corridor 101	(b) 90°	(c) RH
			(d) 3' 0"x7' 0" x 1-3/4" x (e) 20 Minute (f) WD x HM		
(g) 1	(h)	(i) ea	(j) Hinges - (k) 5BB1HW 4.5 x 4.5 NRP (l) 1/2 TMS	(m) 626	(n) IVE
2	6AA	1 ea	Lockset - ND50PD x RHO x RH x 10-025 x JTMS	626	SCH

(a) - Single or pair with opening number and location. (b) - Degree of opening (c) - Hand of door(s) (d) - Door and frame dimensions and door thickness. (e) - Label requirements if any. (f) - Door by frame material. (g) - (Optional) Hardware item line #. (h) - Keyset Symbol. (i) - Quantity. (j) - Product description. (k) - Product Number. (l) - Fastenings and other pertinent information. (m) - Hardware finish codes per ANSI A156.18. (n) - Manufacture abbreviation.

- D. Make substitution requests in accordance with Division 01. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.
- E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

- F. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- G. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.
- H. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

1.5 QUALITY ASSURANCE

- A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
 - 1. Responsible for detailing, scheduling and ordering of finish hardware.
 - 2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing. To maintain the integrity of patented key systems provide a letter of authorization from the specified manufacturer indicating that supplier has authorization to purchase the key system directly from the manufacturer.
 - 3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.
- C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.
- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
 - 1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.
- B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.

- C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.
- D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

1.7 WARRANTY

- A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
 - 1. Locksets: Ten (10) years.
 - 2. Closers: Thirty (30) years.
 - 3. Exit devices: Three (3) years.
 - 4. All other hardware: Two (2) years.

1.8 MAINTENANCE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.9 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference at least one week prior to beginning work of this section.
- B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key District Personnel, and Project Inspector.
- C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review District's keying standards.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

<u>Item</u>	<u>Manufacturer</u>	<u>Acceptable Substitutes</u>
Hinges	Ives	Or Approved Equal
Locks, Latches & Cylinders	Schlage	None – District Standard
Exit Devices	Von Duprin	None – District Standard
Closers	LCN	Or Approved Equal
Push, Pulls & Protection Plates	Ives	Or Approved Equal

Flush Bolts	Ives	Or Approved Equal
Dust Proof Strikes	Ives	Or Approved Equal
Coordinators	Ives	Or Approved Equal
Stops	Ives	Or Approved Equal
Overhead Stops	Glynn-Johnson	Or Approved Equal
Thresholds	Zero	Pemko, National Guard
Seals & Bottoms	Zero	Pemko, National Guard

2.2 MATERIALS

- A. Hinges: Exterior out-swinging door butts shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
 - 1. Hinges shall be sized in accordance with the following:
 - a. Height:
 - 1) Doors up to 42" wide: 4-1/2" inches.
 - 2) Doors 42" to 48" wide: 5 inches.
 - b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
 - c. Number of Hinges: Furnish 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
 - 2. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.
- B. Continuous Hinges: As manufactured by Ives, an Allegion Company. UL rated as required.
- C. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" design, fastened with through-bolts and threaded chassis hubs.
 - 1. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
 - a. Abusive Locked Lever Torque Test: Minimum 3,100 inch-pounds without gaining access.
 - b. Offset lever pull: Minimum 1,600 foot pounds without gaining access.
 - c. Vertical lever impact: Minimum 100 impacts without gaining access.
 - 2. Cycle life: Tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers
 - 3. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
 - 4. Cylinders: Refer to "KEYING" article, herein.
 - 5. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of lever.
 - 6. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
 - 7. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.
 - 8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 - 9. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
 - 10. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 - 11. Provide wired electrified options as scheduled in the hardware sets.
 - a. 12 through 24 volt DC operating capability, auto-detecting
 - b. Selectable EL (fail safe)/EU (fail secure) operating mode via switch on chassis

- c. 0.230A (230mA) maximum current draw
 - d. 0.010A (10mA) holding current
 - e. Modular / "plug in" request to exit switch
- 12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
- D. Exit devices: Von Duprin as scheduled.
 - 1. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 - 2001 standards.
 - 2. All internal parts shall be of cold-rolled steel with zinc dichromate coating.
 - 3. Mechanism case shall have an average thickness of .140".
 - 4. Compression spring engineering.
 - 5. Non-handed basic device design with center case interchangeable with all functions.
 - 6. All devices shall have quiet return fluid dampeners.
 - 7. All latchbolts shall be deadlocking with 3/4" throw and have a self-lubricating coating to reduce friction and wear.
 - 8. Device shall bear UL label for fire and or panic as may be required.
 - 9. All surface strikes shall be roller type and utilize a plate underneath to prevent movement.
 - 10. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
 - 11. Furnish glass bead kits for vision lites where required.
 - 12. All Exit Devices to be sex-bolted to the doors.
 - 13. Panic Hardware shall comply with CBC Section 11B.404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
 - a. Provide exit devices UL certified to meet maximum 5 pound requirements according to the California Building Code section 11B-309.4, and UL listed for Panic Exterior Fire Exit Hardware.

- E. Access control reader: [SCHLAGE MTK15](#)
 - 1. Requirements: Read Only Multi-technology Contactless reader with integrated keypad
 - a. Provide access control card readers manufactured by a global company who is a recognized leader in the production of access control devices. Card reader manufactured for non-access control applications are not acceptable
 - b. Provide multi-technology contactless readers which can read access control data from both 125 kHz and 13.56 MHz contactless smart cards and NFC-compatible. Provide multi-technology contactless reader optimally designed for use in access control applications that require reading both 125 kHz Proximity and 13.56 MHz contactless smart cards by providing:
 - 1) Configuration allows reader to be enabled to read smart, proximity or both technologies at the same time.
 - 2) A migration platform to upgrade from the most popular 125 kHz proximity technologies to MIFARE or MIFARE DESFire EV1 by reading both 125 kHz proximity technology and 13.56 MHz contactless smart card technology.
 - 3) Guaranteed compatibility to read all standard data formats ensuring card-to-reader interoperability in multi-location installations and multi-card/reader populations.
 - 4) Secure access control data exchange between the smart card and the reader utilizing diversified keys and mutual authentication sequences.
 - 5) Universal compatibility with most access control systems.
 - 6) Ease of installation through industry standard wiring methods.
 - 7) Compatibility with legacy 125 KHz proximity access control formats (all standard formats up to 37 bits, including HID Corporate 1000 formats).
 - 8) Optimal read range and read speed for increased access control throughput.
 - 9) Global availability.
 - 10) Product construction suitable for both indoor and outdoor applications.

- 11) Customizable behavior for indicator lights and beeper.
- c. Provide cabling for multi-technology contactless readers as follows:
 - 1) Cable distance: (Wiegand): 500 feet (150m)
 - 2) Cable type: 5-conductor #22 AWG
 - 3) Standard reader termination: 18" (0.5m) wire harness

- F. Closers: LCN as scheduled. Place closers inside building, stairs, room, etc.
1. Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles must be provided.
 2. All door closers shall be fully hydraulic and have full rack and pinion action with a shaft diameter of a minimum of 11/16 inch and piston diameter of 1 inch to ensure longevity and durability under all closer applications.
 3. All parallel arm closers shall incorporate one piece solid forged steel arms with bronze bushings. 1-9/16" steel stud shoulder bolts, shall be incorporated in regular arms, hold-open arms, arms with hold open and stop built in. All other closers to have forged steel main arms for strength, durability, and aesthetics for versatility of trim accommodation, high strength and long life.
 4. All parallel arm closers so detailed shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. This advanced backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. The intensity of the backcheck shall be fully adjustable by tamper resistant non-critical screw valve.
 5. Closers shall be installed to permit doors to swing 180 degrees.
 6. All closers shall utilize a stable fluid withstanding temperature range of 120 degrees F. to -30 degrees F. without requiring seasonal adjustment of closer speed to properly close the door.
 7. Provide the manufactures drop plates, brackets and spacers as required at narrow head rails and special frame conditions. NO wood plates or spacers will be allowed.
 8. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position. Per 11B-404.2.8.1, door shall take at least 5 seconds to move from an open position of 90 degrees to a position of 12 degrees from the latch jamb.
- G. Flush Bolts and Dust Proof Strikes: Automatic Flush Bolts shall be of the low operating force design. Utilize the top bolt only model for interior doors where applicable and as permitted by testing procedures.
1. Manual flush bolts only permitted on storage or mechanical openings as scheduled.
 2. Provide dust proof strikes at openings using bottom bolts.
- H. Door Stops:
1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
 2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
 3. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.

- I. Protection Plates: Fabricate either kick, armor, or mop plates with four beveled edges. Provide kick plates 10" high and 2" LDW. Sizes of armor and mop plates shall be listed in the Hardware Schedule. Furnish with machine or wood screws of bronze or stainless to match other hardware.
- J. Thresholds: As Scheduled and per details.
 - 1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope.
 - 2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection".
 - 3. Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).
 - 4. Thresholds shall comply with CBC Section 11B-404.2.5.
- K. Seals: Provide silicone gasket at all rated and exterior doors.
 - 1. Fire-rated Doors, Resilient Seals: UL10C Classified complies with NFPA 80 & NFPA 252. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements.
 - 2. Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer. Furnish fire-labeled opening assembly complete and in full compliance with UL10C Classified complies with NFPA 80 & NFPA 252. Where required, intumescent seals vary in requirement by door type and door manufacture -- careful coordination required.
 - 3. Smoke and Draft Control Doors, Provide UL10C Classified complies with NFPA 80 & NFPA 252 for use on "S" labeled Positive Pressure door assemblies.
- L. Door Shoes and Door Top Caps: Provide door shoes at all exterior wood doors and top caps at all exterior out-swing doors.
- M. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

- N. Power Supplies: Von Duprin PS900
 - 1. Requirements:
 - a. Provide power supplies approved by manufacturer of supplied electrified hardware.
 - b. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
 - c. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
 - d. Provide power supplies with the following features:
 - 1) 12/24 VDC Output, field selectable.
 - 2) Class 2 Rated power limited output.
 - 3) Universal 120-240 VAC input.
 - 4) Low voltage DC, regulated and filtered.
 - 5) Polarized connector for distribution boards.
 - 6) Fused primary input.
 - 7) AC input and DC output monitoring circuit w/LED indicators.
 - 8) Cover mounted AC Input indication.
 - 9) Tested and certified to meet UL294.
 - 10) NEMA 1 enclosure.
 - 11) Hinged cover w/lock down screws.
 - 12) High voltage protective cover.

- A. Furnish a Proprietary Schlage masterkey system as directed by the owner or architect. Key system to be designated and combined by the Schlage Master Key Department even if pinned by the Authorized Key Center, Authorized Security Center or a local authorized commercial dealer.
- B. A detailed keying schedule is to be prepared by the owner and/or architect in consultation with a representative of Allegion or an Authorized Key Center or Authorized Security Center. Each keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.
- C. Extend the original Schlage masterkey system established for the project.
- D. Furnish all cylinders in in Schlage Full Size Interchangeable Core (FSIC). Pack change keys independently (PKI).
- E. Furnish Primus Patent Protected Schlage cylinders.
- F. Furnish construction keying for doors requiring locking during construction.
 - 1. Provide F keyway construction cores
- G. Furnish all keys with visual key control.
 - 1. Stamp key "Do Not Duplicate".
 - 2. Stamp (BHMA) key symbol on key.
- H. Furnish all cylinders with visual key control.
 - 1. Stamp (BHMA) key symbol on side of cylinder (CKC).
- I. Furnish mechanical keys as follows:
 - 1. Furnish 2 cut change keys for each different change key code.
 - 2. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
 - 3. Furnish 1 cut control key cut to each SKD combination.

2.4 FINISHES

- A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.
- B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.
- C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.
- D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

2.5 FASTENERS

- A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- B. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.

- D. Provide expansion anchors for attaching hardware items to concrete or masonry.
- E. All exposed fasteners shall have a phillips head.
- F. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.
- B. Beginning of installation means acceptance of existing conditions.
- C. Fire-Rated Door Assembly Inspection: Upon completion of the installation, all fire door assemblies shall be inspected to confirm proper operation of the closing device and latching device and that only the manufacturer's furnished fasteners are used for installation and that it meets all criteria of a fire door assembly per NFPA 80 (Standard for Fire Doors and Other Opening Protectives) 2016 Edition. A written record shall be maintained and transmitted to the Owner to be made available to the Authority Having Jurisdiction (AHJ). The inspection of the swinging fire doors shall be performed by a certified FDAI (Fire Door Assembly Inspector) with knowledge and understanding of the operating components of the type of door being subjected to the inspection. The record shall list each fire door assembly throughout the project and include each door number, an itemized list of hardware set components at each door opening, and each door location in the facility.

3.2 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.
- B. Use the templates provided by hardware item manufacturer.
- C. Mounting heights for hardware shall be as recommended by the Door and Hardware Institute. Operating hardware will to be located between 34" and 44" AFF.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- G. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.

3.3 ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
 - 1. Adjust and maintain door and gate closers per CBC Sec. 11B-404.2.8.1 so that from an open position of 90 degrees, the time required to move the door a position of 12 degrees from the latch is 5 seconds minimum.
- B. Clean adjacent surface soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.
- E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.4 HARDWARE LOCATIONS

- A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

3.5 FIELD QUALITY CONTROL

- A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

3.6 SCHEDULE

- A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.
- B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.
- C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

Manufacturers Abbreviations (Mfr.)

COB	=	Coburn	Cane Bolts
GLY	=	Glynn-Johnson Corporation	Overhead Door Stops
IVE	=	Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof Strikes, Kick Plates, Door Stops & Silencers
LCN	=	LCN	Door Closers
LOC	=	Locinox	Gate Closer
SCE	=	Schlage Electronics	Battery keypad lock, multi tech readers, power supplies
SCH	=	Schlage Lock Company	Locks, Latches & Cylinders
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

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GROUP NO. 01

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE 12/16/24/28 VAC/VDC	630	VON
1	EA	LOCK GUARD	LG14	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	JAMB SEAL	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 02

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE 12/16/24/28 VAC/VDC	630	VON
1	EA	LOCK GUARD	LG14	630	IVE
1	EA	OH STOP & HOLDER	100H	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 03

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	153A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 04

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE 12/16/24/28 VAC/VDC	630	VON
1	EA	LOCK GUARD	LG14	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH TBWMS	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 05

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PRIVACY W/DB & IND	L9496R 06A L583-363 F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	153A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 06

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM	ND96RD RHO F KEYWAY	626	SCH
		LOCK			
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	JAMB SEAL	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 07

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM	ND96RD RHO F KEYWAY	626	SCH
		LOCK			
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	JAMB SEAL	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 08

3	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	153A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 09

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL CLASSROOM LOCK	ND94RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	JAMB SEAL	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 10

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO	626	VON
1	EA	ELEC PANIC HARDWARE	QELX-PA-AX-99-L-NL-06	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 F KEYWAY	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	FLOOR STOP	FS18S	BLK	IVE
2	SET	MEETING STILE	328AA-S	AA	ZER
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 11

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE 12/24 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 12

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE 12/24 VAC/VDC	630	VON
1	EA	OH STOP & HOLDER	100H	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

GROUP NO. 13

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE

GROUP NO. 14

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL OFFICE LOCK	ND91RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

GROUP NO. 15

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	WALL STOP	WS401/402CVX	626	IVE

GROUP NO. 16

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY W/INDICATOR	L9040 06A L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

GROUP NO. 17

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 18

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL CLASSROOM LOCK	ND94RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE

GROUP NO. 19

HARDWARE BY FOLDING DOOR
MFR

GROUP NO. 20

2	SET	CLOSER/HINGE	MAMMOTH 180		LOX
1	EA	REMOVABLE MULLION	BY GATE FABRICATOR		
1	EA	PANIC HARDWARE	PA-AX-99-EO	626	VON
1	EA	PANIC HARDWARE	PA-AX-99-L-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH

GROUP NO. 21

1	SET	CLOSER/HINGE	MAMMOTH 180		LOX
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH

GROUP NO. 22

6	EA	HINGE	BY GATE FABRICATOR		
2	EA	CANE BOLT	95-562	602	COB
1	EA	LOCKABLE DROP FORK LATCH	BY GATE FABRICATOR		
1	EA	PADLOCK LESS CYL-KNK	KS43F2200	606	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	CONSTRUCTION CORE	23-030 F KEYWAY	626	SCH

GROUP NO. 23

3	EA	HINGE	BY GATE FABRICATOR		
1	EA	CANE BOLT	95-562	602	COB
1	EA	LOCKABLE DROP FORK LATCH	BY GATE FABRICATOR		
1	EA	PADLOCK LESS CYL-KNK	KS43F2200	606	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	CONSTRUCTION CORE	23-030 F KEYWAY	626	SCH

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SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- B. This Section includes the following, but is not necessarily limited to:
 - 1. Door Hardware, including electric hardware.
 - 2. Storefront and Entrance door hardware.
 - 3. Digital keypad/reader access control devices.
 - 4. Power supplies for electric hardware.
 - 5. Thresholds, gasketing and weather-stripping.
 - 6. Door silencers or mutes.
- C. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
 - 1. Section 08 11 13 - Hollow Metal Doors and Frames.
 - 2. Section 08 17 43 - FRP Flush Doors.
 - 3. Section 28 31 00 - Intrusion Systems.
 - 4. Section 28 46 00 - Fire Alarm System.

1.3 REFERENCES (USE DATE OF STANDARD IN EFFECT AS OF BID DATE.)

- A. 2019 California Building Code, CCR, Title 24.
- B. BHMA – Builders' Hardware Manufacturers Association
- C. DHI – Door and Hardware Institute
- D. NFPA - National Fire Protection Association.
 - 1. NFPA 80 - Fire Doors and Other Opening Protectives
 - 2. NFPA 105 - Smoke and Draft Control Door Assemblies
- E. SDI - Steel Door Institute
- F. UL - Underwriters Laboratories.
 - 1. UL 10C - Fire Tests of Door Assemblies
 - 2. UL 305 - Panic Hardware
- G. WHI - Warnock Hersey Incorporated

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. General: Submit in accordance with Conditions of the Contract and Division 01 Specification sections.
- B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Submit six (6) copies of schedule organized vertically into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
 1. Include a Cover Sheet with;
 - a. Job Name, location, telephone number.
 - b. Architects name, location and telephone number.
 - c. Contractors name, location, telephone number and job number.
 - d. Suppliers name, location, telephone number and job number.
 - e. Hardware consultant's name, location and telephone number.
 2. Job Index information included;
 - a. Numerical door number index including; door number, hardware heading number and page number.
 - b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
 - c. Manufacturers' names and abbreviations for all materials.
 - d. Explanation of abbreviations, symbols, and codes used in the schedule.
 - e. Mounting locations for hardware.
 - f. Clarification statements or questions.
 - g. Catalog cuts and manufacturer's technical data and instructions.
 3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number – HW -1)					
			(a) 1 Single Door #1 - Exterior from Corridor 101	(b) 90°	(c) RH
			(d) 3' 0"x7' 0" x 1-3/4" x (e) 20 Minute (f) WD x HM		
(g) 1	(h)	(i) ea	(j) Hinges - (k) 5BB1HW 4.5 x 4.5 NRP (l) 1/2 TMS	(m) 626	(n) IVE
2	6AA	1 ea	Lockset - ND50PD x RHO x RH x 10-025 x JTMS	626	SCH

(a) - Single or pair with opening number and location. (b) - Degree of opening (c) - Hand of door(s) (d) - Door and frame dimensions and door thickness. (e) - Label requirements if any. (f) - Door by frame material. (g) - (Optional) Hardware item line #. (h) - Keyset Symbol. (i) - Quantity. (j) - Product description. (k) - Product Number. (l) - Fastenings and other pertinent information. (m) - Hardware finish codes per ANSI A156.18. (n) - Manufacture abbreviation.

- D. Make substitution requests in accordance with Division 01. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.
- E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- F. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

- G. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.
- H. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

1.5 QUALITY ASSURANCE

- A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
 - 1. Responsible for detailing, scheduling and ordering of finish hardware.
 - 2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing. To maintain the integrity of patented key systems provide a letter of authorization from the specified manufacturer indicating that supplier has authorization to purchase the key system directly from the manufacturer.
 - 3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.
- C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.
- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
 - 1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.
- B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.
- C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.
- D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

1.7 WARRANTY

- A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
1. Locksets: Ten (10) years.
 2. Closers: Thirty (30) years.
 3. Exit devices: Three (3) years.
 4. All other hardware: Two (2) years.

1.8 MAINTENANCE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.9 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference at least one week prior to beginning work of this section.
- B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key District Personnel, and Project Inspector.
- C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review District's keying standards.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

<u>Item</u>	<u>Manufacturer</u>	<u>Acceptable Substitutes</u>
Hinges	Ives	Or Approved Equal
Locks, Latches & Cylinders	Schlage	None – District Standard
Exit Devices	Von Duprin	None – District Standard
Closers	LCN	Or Approved Equal
Push, Pulls & Protection Plates	Ives	Or Approved Equal
Flush Bolts	Ives	Or Approved Equal
Dust Proof Strikes	Ives	Or Approved Equal
Coordinators	Ives	Or Approved Equal
Stops	Ives	Or Approved Equal
Overhead Stops	Glynn-Johnson	Or Approved Equal

Thresholds	Zero	Pemko, National Guard
Seals & Bottoms	Zero	Pemko, National Guard

2.2 MATERIALS

- A. Hinges: Exterior out-swinging door butts shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
 - 1. Hinges shall be sized in accordance with the following:
 - a. Height:
 - 1) Doors up to 42" wide: 4-1/2" inches.
 - 2) Doors 42" to 48" wide: 5 inches.
 - b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
 - c. Number of Hinges: Furnish 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
 - 2. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.
- B. Continuous Hinges: As manufactured by Ives, an Allegion Company. UL rated as required.
- C. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" design, fastened with through-bolts and threaded chassis hubs.
 - 1. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
 - a. Abusive Locked Lever Torque Test: Minimum 3,100 inch-pounds without gaining access.
 - b. Offset lever pull: Minimum 1,600 foot pounds without gaining access.
 - c. Vertical lever impact: Minimum 100 impacts without gaining access.
 - 2. Cycle life: Tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers
 - 3. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
 - 4. Cylinders: Refer to "KEYING" article, herein.
 - 5. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of lever.
 - 6. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
 - 7. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.
 - 8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 - 9. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
 - 10. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 - 11. Provide wired electrified options as scheduled in the hardware sets.
 - a. 12 through 24 volt DC operating capability, auto-detecting
 - b. Selectable EL (fail safe)/EU (fail secure) operating mode via switch on chassis
 - c. 0.230A (230mA) maximum current draw
 - d. 0.010A (10mA) holding current
 - e. Modular / "plug in" request to exit switch
 - 12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
- D. Exit devices: Von Duprin as scheduled.
 - 1. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 - 2001 standards.
 - 2. All internal parts shall be of cold-rolled steel with zinc dichromate coating.
 - 3. Mechanism case shall have an average thickness of .140".
 - 4. Compression spring engineering.
 - 5. Non-handed basic device design with center case interchangeable with all functions.

6. All devices shall have quiet return fluid dampeners.
7. All latchbolts shall be deadlocking with 3/4" throw and have a self-lubricating coating to reduce friction and wear.
8. Device shall bear UL label for fire and or panic as may be required.
9. All surface strikes shall be roller type and utilize a plate underneath to prevent movement.
10. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
11. Furnish glass bead kits for vision lites where required.
12. All Exit Devices to be sex-bolted to the doors.
13. Panic Hardware shall comply with CBC Section 11B.404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
 - a. Provide exit devices UL certified to meet maximum 5 pound requirements according to the California Building Code section 11B-309.4, and UL listed for Panic Exterior Fire Exit Hardware.

E. Access control reader: [SCHLAGE MTK15](#)

1. Requirements: Read Only Multi-technology Contactless reader with integrated keypad
 - a. Provide access control card readers manufactured by a global company who is a recognized leader in the production of access control devices. Card reader manufactured for non-access control applications are not acceptable
 - b. Provide multi-technology contactless readers which can read access control data from both 125 kHz and 13.56 MHz contactless smart cards and NFC-compatible. Provide multi-technology contactless reader optimally designed for use in access control applications that require reading both 125 kHz Proximity and 13.56 MHz contactless smart cards by providing:
 - 1) Configuration allows reader to be enabled to read smart, proximity or both technologies at the same time.
 - 2) A migration platform to upgrade from the most popular 125 kHz proximity technologies to MIFARE or MIFARE DESFire EV1 by reading both 125 kHz proximity technology and 13.56 MHz contactless smart card technology.
 - 3) Guaranteed compatibility to read all standard data formats ensuring card-to-reader interoperability in multi-location installations and multi-card/reader populations.
 - 4) Secure access control data exchange between the smart card and the reader utilizing diversified keys and mutual authentication sequences.
 - 5) Universal compatibility with most access control systems.
 - 6) Ease of installation through industry standard wiring methods.
 - 7) Compatibility with legacy 125 KHz proximity access control formats (all standard formats up to 37 bits, including HID Corporate 1000 formats).
 - 8) Optimal read range and read speed for increased access control throughput.
 - 9) Global availability.
 - 10) Product construction suitable for both indoor and outdoor applications.
 - 11) Customizable behavior for indicator lights and beeper.
 - c. Provide cabling for multi-technology contactless readers as follows:
 - 1) Cable distance: (Wiegand): 500 feet (150m)
 - 2) Cable type: 5-conductor #22 AWG
 - 3) Standard reader termination: 18" (0.5m) wire harness

F. Closers: LCN as scheduled. Place closers inside building, stairs, room, etc.

1. Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles must be provided.

2. All door closers shall be fully hydraulic and have full rack and pinion action with a shaft diameter of a minimum of 1 1/16 inch and piston diameter of 1 inch to ensure longevity and durability under all closer applications.
 3. All parallel arm closers shall incorporate one piece solid forged steel arms with bronze bushings. 1-9/16" steel stud shoulder bolts, shall be incorporated in regular arms, hold-open arms, arms with hold open and stop built in. All other closers to have forged steel main arms for strength, durability, and aesthetics for versatility of trim accommodation, high strength and long life.
 4. All parallel arm closers so detailed shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. This advanced backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. The intensity of the backcheck shall be fully adjustable by tamper resistant non-critical screw valve.
 5. Closers shall be installed to permit doors to swing 180 degrees.
 6. All closers shall utilize a stable fluid withstanding temperature range of 120 degrees F. to -30 degrees F. without requiring seasonal adjustment of closer speed to properly close the door.
 7. Provide the manufactures drop plates, brackets and spacers as required at narrow head rails and special frame conditions. NO wood plates or spacers will be allowed.
 8. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position. Per 11B-404.2.8.1, door shall take at least 5 seconds to move from an open position of 90 degrees to a position of 12 degrees from the latch jamb.
- G. Flush Bolts and Dust Proof Strikes: Automatic Flush Bolts shall be of the low operating force design. Utilize the top bolt only model for interior doors where applicable and as permitted by testing procedures.
1. Manual flush bolts only permitted on storage or mechanical openings as scheduled.
 2. Provide dust proof strikes at openings using bottom bolts.
- H. Door Stops:
1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
 2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
 3. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.
- I. Protection Plates: Fabricate either kick, armor, or mop plates with four beveled edges. Provide kick plates 10" high and 2" LDW. Sizes of armor and mop plates shall be listed in the Hardware Schedule. Furnish with machine or wood screws of bronze or stainless to match other hardware.
- J. Thresholds: As Scheduled and per details.
1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope.
 2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection".
 3. Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).
 4. Thresholds shall comply with CBC Section 11B-404.2.5.
- K. Seals: Provide silicone gasket at all rated and exterior doors.

1. Fire-rated Doors, Resilient Seals: UL10C Classified complies with NFPA 80 & NFPA 252. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements.
 2. Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer. Furnish fire-labeled opening assembly complete and in full compliance with UL10C Classified complies with NFPA 80 & NFPA 252. Where required, intumescent seals vary in requirement by door type and door manufacture -- careful coordination required.
 3. Smoke and Draft Control Doors, Provide UL10C Classified complies with NFPA 80 & NFPA 252 for use on "S" labeled Positive Pressure door assemblies.
- L. Door Shoes and Door Top Caps: Provide door shoes at all exterior wood doors and top caps at all exterior out-swing doors.
- M. Power Supplies: Von Duprin PS900
1. Requirements:
 - a. Provide power supplies approved by manufacturer of supplied electrified hardware.
 - b. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
 - c. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
 - d. Provide power supplies with the following features:
 - 1) 12/24 VDC Output, field selectable.
 - 2) Class 2 Rated power limited output.
 - 3) Universal 120-240 VAC input.
 - 4) Low voltage DC, regulated and filtered.
 - 5) Polarized connector for distribution boards.
 - 6) Fused primary input.
 - 7) AC input and DC output monitoring circuit w/LED indicators.
 - 8) Cover mounted AC Input indication.
 - 9) Tested and certified to meet UL294.
 - 10) NEMA 1 enclosure.
 - 11) Hinged cover w/lock down screws.
 - 12) High voltage protective cover.
- N. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

2.3 KEYING

- A. Furnish a Proprietary Schlage masterkey system as directed by the owner or architect. Key system to be designated and combined by the Schlage Master Key Department even if pinned by the Authorized Key Center, Authorized Security Center or a local authorized commercial dealer.
- B. A detailed keying schedule is to be prepared by the owner and/or architect in consultation with a representative of Allegion or an Authorized Key Center or Authorized Security Center. Each keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.
- C. Extend the original Schlage masterkey system established for the project.
- D. Furnish all cylinders in Schlage Full Size Interchangeable Core (FSIC). Pack change keys independently (PKI).
- E. Furnish Primus Patent Protected Schlage cylinders.

- F. Furnish construction keying for doors requiring locking during construction.
 - 1. Provide F keyway construction cores
- G. Furnish all keys with visual key control.
 - 1. Stamp key "Do Not Duplicate".
 - 2. Stamp (BHMA) key symbol on key.
- H. Furnish all cylinders with visual key control.
 - 1. Stamp (BHMA) key symbol on side of cylinder (CKC).
- I. Furnish mechanical keys as follows:
 - 1. Furnish 2 cut change keys for each different change key code.
 - 2. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
 - 3. Furnish 1 cut control key cut to each SKD combination.

2.4 FINISHES

- A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.
- B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.
- C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.
- D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

2.5 FASTENERS

- A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- B. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.
- D. Provide expansion anchors for attaching hardware items to concrete or masonry.
- E. All exposed fasteners shall have a phillips head.
- F. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.

- B. Beginning of installation means acceptance of existing conditions.
- C. Fire-Rated Door Assembly Inspection: Upon completion of the installation, all fire door assemblies shall be inspected to confirm proper operation of the closing device and latching device and that only the manufacturer's furnished fasteners are used for installation and that it meets all criteria of a fire door assembly per NFPA 80 (Standard for Fire Doors and Other Opening Protectives) 2016 Edition. A written record shall be maintained and transmitted to the Owner to be made available to the Authority Having Jurisdiction (AHJ). The inspection of the swinging fire doors shall be performed by a certified FDAI (Fire Door Assembly Inspector) with knowledge and understanding of the operating components of the type of door being subjected to the inspection. The record shall list each fire door assembly throughout the project and include each door number, an itemized list of hardware set components at each door opening, and each door location in the facility.

3.2 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.
- B. Use the templates provided by hardware item manufacturer.
- C. Mounting heights for hardware shall be as recommended by the Door and Hardware Institute. Operating hardware will to be located between 34" and 44" AFF.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- G. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.

3.3 ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
 - 1. Adjust and maintain door and gate closers per CBC Sec. 11B-404.2.8.1 so that from an open position of 90 degrees, the time required to move the door a position of 12 degrees from the latch is 5 seconds minimum.
- B. Clean adjacent surface soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.
- E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and

hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.4 HARDWARE LOCATIONS

- A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

3.5 FIELD QUALITY CONTROL

- A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

3.6 SCHEDULE

- A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.
- B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.
- C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

Manufacturers Abbreviations (Mfr.)

GLY	=	Glynn-Johnson Corporation	Overhead Door Stops
IVE	=	Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof Strikes, Kick Plates, Door Stops & Silencers
LCN	=	LCN	Door Closers
SCE	=	Schlage Electronics	Battery keypad lock, multi tech readers, power supplies
SCH	=	Schlage Lock Company	Locks, Latches & Cylinders
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

GROUP NO. 01

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE 12/24 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	MEETING STILE	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 BBK 120/240 VAC	LGR	SCE

GROUP NO. 02

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE 12/24 VAC/VDC	630	VON
1	EA	LOCK GUARD	LG14	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 BBK 120/240 VAC	LGR	SCE

GROUP NO. 03

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO	626	VON
1	EA	ELEC PANIC HARDWARE	QELX-PA-AX-99-L-NL-06	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 F KEYWAY	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	SET	GASKETING	328AA-S	AA	ZER
1	SET	MEETING STILE	328AA-S	AA	ZER
1	EA	HEAD SEAL	429AA	AA	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 BBK 120/240 VAC	LGR	SCE

GROUP NO. 04

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO	626	VON
1	EA	ELEC PANIC HARDWARE	QELX-PA-AX-99-L-NL-06	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 F KEYWAY	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER
1	EA	MULTITECH READER	MTK15 12 VDC	BLK	SCE
1	EA	POWER SUPPLY	PS902 BBK 120/240 VAC	LGR	SCE

GROUP NO. 05

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 06

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	DBL CYL STORE LOCK	ND66RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

LOCKABLE ON RESTROOM SIDE TO PREVENT ACCESS TO LOCKER ROOM AFTER HOURS.

GROUP NO. 07

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL OFFICE LOCK	ND91RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 08

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS11	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 09

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY W/INDICATOR	L9040 06A L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

GROUP NO. 10

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ELEC PRIVACY LOCK	CO-200-CY-40-KP-RHO-R 4B	626	SCE
			BATTERY OPERATED F KEYWAY		
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	CONSTRUCTION CORE	23-030 F KEYWAY	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 11

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO F KEYWAY	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 12

2	EA	CONT. HINGE	112XY	628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-99-EO	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 F KEYWAY	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 13

2	EA	CONT. HINGE	112XY	628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-99-EO	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 F KEYWAY	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
2	EA	OH STOP & HOLDER	100H ADJ	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

GROUP NO. 14

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CONST LATCHING BOLT	FB51P	630	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	VANDL CLASSROOM LOCK	ND94RD RHO F KEYWAY	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
2	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	ASTRAGAL	44SP OR BY HM DOOR MFR	SP	ZER
2	EA	SILENCER	SR64	GRY	IVE

GROUP NO. 15

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CONST LATCHING BOLT	FB51P	630	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	DBL CYL DEADBOLT	B662T	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	ASTRAGAL	44SP OR BY HM DOOR MFR	SP	ZER

GROUP NO. 16

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

GROUP NO. 17

2	SET	CLOSER/HINGE	MAMMOTH 180		LOX
2	EA	PANIC HARDWARE	CDSI-PA-AX-98-L-NL-06-WH	630	VON
2	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	MORTISE CYLINDER	26-091 XQ11-948 F KEYWAY	626	SCH

GROUP NO. 18

6		HINGE	BY GATE FABRICATOR		
2	EA	CANE BOLT	0524.00021	Z	RIC
1	EA	LOCKABLE DROP FORK LATCH	BY GATE FABRICATOR		
1	EA	PADLOCK L/CYL-FSIC	KS43F3200	606	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	CONSTRUCTION CORE	23-030 F KEYWAY	626	SCH

GROUP NO. 19

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-NL-06	626	VON
1	EA	RIM CYLINDER	20-057 F KEYWAY	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS11	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

END OF SECTION

**SECTION 09 51 00
ACOUSTICAL CEILINGS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling system.
- B. Acoustical units.
- C. Acoustical Cloud Ceiling Panels.

1.02 RELATED REQUIREMENTS

- A. Section 09 22 16 - Non-Structural Metal Framing
- B. Section 21 13 13 - Wet-Pipe Fire Sprinkler System
- C. Section 23 37 13 - Air Outlets and Inlets
- D. Section 26 51 00 - Interior Lighting
- E. Section 09 54 26 - Suspended Wood Ceilings

1.03 REFERENCE STANDARDS

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire 2019.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- D. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings 2022.
- E. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels 2019.
- F. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2022.
- G. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials 2020.
- H. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions 2022.
- I. ASTM E1264 - Standard Classification for Acoustical Ceiling Products 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

- A. Product Data: Provide data on suspension system components and acoustical units.
- B. Samples: Submit two samples 6 by 6 inch (150 by 150 mm) in size illustrating material and finish of acoustical units.
- C. Samples: Submit two samples each, 6 inches (150 mm) long, of suspension system main runner, cross runner, and perimeter molding.
- D. Manufacturer's Qualification Statement.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

2. Extra Acoustical Units: Quantity equal to 5 percent of total installed.
3. Extra Suspension System Components: Quantity equal to 5 percent of total installed of each exposed component.

1.06 QUALITY ASSURANCE

- A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.07 FIELD CONDITIONS

- A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to acoustical unit installation.
- B. During and after installation, maintain ambient temperature and humidity conditions at the levels indicated for Project when occupied for its intended use.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acoustic Tiles/Panels - noted Type ACT on drawings:
 1. Provide the manufacturers indicated in the "Finish Materials List" on the Drawings.
 2. Armstrong World Industries, Inc; Optima® Tegular; Item No. 3250 and Item 3252.: www.armstrongceilings.com/#sle.
- B. Acoustical Panels - noted Type ACP on drawings:
 1. Armstrong World Industries, Inc; OPTIMA CAPZ, 3933 : www.armstrongceilings.com/#sle.
- C. Suspension Systems:
 1. Armstrong World Industries, Inc; Armstrong; Prelude XL HD 7301 main runners and cross runners.: www.armstrongceilings.com/#sle.
 2. Chicago Metallic; 200 main runners; 1204 cross runners
 3. USG Interiors; DX26 main runners; DXO-216 cross runners

2.02 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:
 1. Local authorities having jurisdiction.
- B. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- C. Flame-Spread Index: 25 or less Class A according to ASTM E1264.
- D. Smoke-Developed Index: 50 or less (UL labeled).

2.03 ACOUSTICAL UNITS

- A. Products:
 1. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
- B. Acoustical Units - General: ASTM E1264, Class A.
 1. Low-Emitting Materials: Acoustical ceilings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- C. Acoustical materials shall contain a minimum of 30 percent of recycled materials.
- D. Acoustical Panels- Type ACT: Glass fiber with membrane-faced overlay, with the following characteristics:
 1. Classification: ASTM E1264 Type XII.

2. Size: Item No. 3252: 24 by 48 inch (610 by 1219 mm)
3. Thickness: 1 inch (25 mm).
4. Light Reflectance: 0.90 percent, determined in accordance with ASTM E1264.
5. NRC Range: 0.95, determined in accordance with ASTM E1264.
6. Articulation Class (AC): 190, determined in accordance with ASTM E1264.
7. Ceiling Attenuation Class (CAC): NA, determined in accordance with ASTM E1264.
8. Panel Edge: Square tegular for interface with 15/16" exposed Tee.
9. Surface Texture: Fine.
10. Composition: Fiberglass with DuraBrite® acoustically transparent membrane.
11. Surface Finish: DuraBrite with factory-applied latex paint.
12. Color: White.
13. Suspension System: Exposed.
14. Anti-Mold/Mildew: Ceiling tiles with BioBlock® performance resist the growth of mold and mildew on the tile surface.
15. Products:
 - a. Armstrong World Industries, Inc; Optima Tegular; Item No. 3250 and Item 3252.

- E. Acoustical CloudPanel Type ACP: _____, with the following characteristics:
1. Surface Texture: Fine
 2. Composition: Fiberglass
 3. Color: White
 4. Size: 48" x 96" x 7/8"
 5. Edge Profile: Reverse Tegular 15/16" for interface with PRELUDE XL 15/16" Exposed Tee grid.
 6. Noise Reduction Coefficient(NRC): ASTM C 423; Classified with UL label on product carton 0.90
 7. Ceiling Attenuation Class (CAC)\
 8. Articulation Class (AC):
 9. Flame Spread: ASTM E 1264; Class A (UL)
 10. Light Reflectance (LR) White Panel: ASTM E 1477; 0.88
 11. Dimensional Stability: HUMIGUARD Plus
 12. Acceptable Product: OPTIMA CAPZ, 3933 as manufactured by Armstrong World Industries

2.04 SUSPENSION SYSTEM(S)

- A. Products:
 1. Provide the products indicated in the "Finish Materials List" on the Drawings.
- B. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
 1. Structural Classification: Heavy-duty, when tested in accordance with ASTM C635/C635M.
 2. Materials:
 - a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.
 3. Recycled Content: Postconsumer recycled content plus one-half of pre-consumer recycled content not less than 25 percent.
 4. Main Runners and Cross Tees: Double web type of cold rolled steel with protective coating and with painted steel caps. Width of exposed faces shall be 15/16-inch.
 5. Intersections and Connections: Provide intersections and connections capable of withstanding a mean ultimate test load of 180 pounds or twice the actual load, whichever is greater, in tension when tested in accordance with ASTM C635.
- C. Exposed Suspension System: Hot-dipped galvanized steel grid with aluminum cap.
 1. Application(s): Seismic.
 2. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.

3. Profile: Tee; 15/16 inch (24 mm) face width.
4. Finish: all exposed metal parts with a baked on vinyl finish.
5. Color: White.
6. Products:
 - a. Armstrong; Prelude XL HD 7301 main runners and cross runners
 - b. USG Corporation; DX26 main runners; DXO-216 cross runners: www.usg.com/ceilings/#sle.
 - c. Chicago Metallic; 200 main runners; 1204 cross runners

2.05 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Hanger Wire: Wire diameter sufficient for its stress at three times hanger design load will be less than yield stress of wire, but not less than 0.106-inch- (2.69-mm-) diameter wire per ASTM C635/C635M Table 1, "Direct Hung".
 1. Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.
- C. Hold-Down Clips: Manufacturer's standard clips to suit application.
- D. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.
- E. Main Beam Splice Clip: Manufacturer's standard splice clip to reinforce main beam carrier where it is cut to make transition at top and bottom of sloped ceilings.
- F. Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.
- G. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.
- H. Roll-Formed, Sheet-Metal Perimeter Edge Moldings and Trim: Same metal and finish as grid. Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
 1. Size: As required for installation conditions and specified Seismic Design Category.
 2. Edge moldings shall fit acoustical panel edge details and suspension systems indicated and match width and configuration of exposed runners unless otherwise indicated.
 3. Acoustical Sealant For Perimeter Moldings: Non-hardening, non-skinning, for use in conjunction with suspended ceiling system.
- I. Metal Edge Trim for "Cloud" Suspension Systems: Steel or extruded aluminum; provide attachment clips, splice plates, and preformed corner pieces for complete trim system.
 1. Trim Height: 1"
 2. Finish: Baked enamel.
 3. Color: White.
- J. Touch-up Paint: Type and color to match acoustical and grid units.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Install after major above-ceiling work is complete.
- B. Coordinate the location of hangers with other work.
- C. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.

3.03 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
 - 1. Comply with the additional requirements specified in DSA IR 25-2.13.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected plan.
- D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 - 1. Install in bed of acoustical sealant.
 - 2. Use longest practical lengths.
 - 3. Overlap and rivet corners.
- E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- F. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch (9 mm) clearance between grid ends and wall.
- G. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch (19 mm) clearance between grid ends and wall.
- H. Install Extruded-Aluminum Edge Moldings and Trim in accordance with ASTM C636/C636M and manufacturer's instructions.
- I. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- J. Light Fixtures
 - 1. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently per manufacturer's requirements.
 - 2. All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means per CEC Article 410.36 to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.
 - 3. Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices on each fixture. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are 8 feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed 8 feet.
 - 4. Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one #12 gage slack safety wire connected from the fixture housing to the structure above.
 - 5. Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.
 - a. Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.
 - 6. All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting 4 times the weight of the fixture.

- K. Pendant Mounted Light Fixtures:
 - 1. Where pendant mounted light fixtures are to be installed in areas with a suspended ceiling, comply with IR 24-2.13 and DSA IR 16-9.
 - 2. Support pendant-mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 2 times the weight of the fixture.
 - 3. If a pendant mounted light fixture is directly and independently braced below the ceiling, then a brace assembly is not required above the ceiling.
 - 4. If a pendant mounted light fixture is free to swing 45-degrees from vertical in all directions and is not directly and independently braced below the ceiling, then a bracing assembly is only required where the pendant hanger penetrates the ceiling. Special details are required to attach the pendant hanger to the bracing assembly to transmit the horizontal and vertical forces.
 - a. Where the weight of the fixture is less than 20-pounds, the vertical component of the brace force need not be considered so no compression strut/post is required.
 - 5. Rigid conduit shall not be used for attachment of fixtures.
- L. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, or post-installed mechanical anchors in accordance with Division 5 Section Post-Installed Anchors.
- M. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires to cast-in-place hanger inserts or postinstalled mechanical anchors in accordance with Division 5 Section Post-Installed Anchors.
- N. Do not eccentrically load system or induce rotation of runners.

3.04 SERVICES WITHIN THE CEILING

- A. All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the component. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
- B. Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one #12 gage slack safety wire attached from the terminal or service to the structure above.
- C. Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- D. Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers. The four taut #12 gage wires or other approved hangers, including their attachment to the structure above, must be capable of supporting four times the weight of the unit.
- E. All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid per Section 2.6.2 a) of IR 25-2.13. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above per Section 2.6.1 b) of IR 25-2.13. Devices weighing more than 20 lbs. shall be supported from the structure above using details provided by the registered design professional (RDP).

3.05 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Lay directional patterned units as indicated on the drawings.

- D. Fit border trim neatly against abutting surfaces.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.
 - 3. Double cut and field paint exposed reveal edges.
- G. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
- H. Where round obstructions occur, provide preformed closures to match perimeter molding.
- I. Lay acoustical insulation for a distance of 48 inches (1219 mm) either side of acoustical partitions as indicated.
- J. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.
- K. Install hold-down clips on panels within 20 ft (6 m) of an exterior door.

3.06 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m).

END OF SECTION 09 51 00

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