BID ADDENDUM 5 – DSA ADDENDUM NO. 12 DATE: 10/20/2026
Responses to Bid Questions

PROJECT:
SANGER EDUCATION COMPLEX – PHASE 3b
Development of Building L, associated site development work and Alternate Bid 1
1850 S. Fowler Ave, Fresno, CA 93727

OWNER:
SANGER UNIFIED SCHOOL DISTRICT
1905 Seventh Street
Sanger, CA 93657

ARCHITECT:
DARDEN ARCHITECTS, INC.
Attention: Mike Fennacy
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
F. (559) 446-1765

DARDEN PROJECT NO. 2171.L
DSA APPL. NO. 02-120779

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

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

INDEX OF ADDENDA TRANSMITTED HEREWITH

CHANGES TO BIDDING CONDITIONS

BIDDING CONDITIONS	AD12-CBC01 thru AD12-CBC22

CHANGES TO PREVIOUS ADDENDA

ADDENDA 8, 9, 10 AND 11	AD12-CPA01 thru AD12-CPA17

CHANGES TO SPECIFICATIONS

SPECIFICATIONS	AD12-SP01 thru AD12-SP23

CHANGES TO SHEETS:

GENERAL	AD12-G01 thru AD12-G06
ARCHITECTURAL	AD12-A01 thru AD12-A26
STRUCTURAL	AD12-S01 thru AD12-S12
PLUMBING	AD12-P01 thru AD12-P02
MECHANICAL	AD12-M01 thru AD12-M05
ELECTRICAL	AD12-E01 thru AD12-E19
PRODUCTION	AD12-PR01
CIVIL	AD12-C01 thru AD12-C04
LANDSCAPE AND IRRIGATION	AD12-L01 thru AD12-L04

BIDDING CONDITIONS:

RFPQ EXHIBIT B – PREQUALIFICATION CERTIFICATION, REVISED (refer to AD12-CBC01) ....1 page
ALLOWANCES SUMMARY (refer to AD12-CBC17) .....1 page

SPECIFICATIONS:

00 01 10 – PROJECT MANUAL TABLE OF CONTENTS (AD12) .....5 pages
01 50 00 – TEMPORARY FACILITIES AND CONTROLS (AD12) ..... 17 pages
08 70 00.01 – HARDWARE SCHEDULE (AD12) ..... 44 pages

DRAWINGS:

ARCHITECTURAL – X/A515 (refer to AD12-CPA04) ..... 1 SHEET
STRUCTURAL – X/S521 (refer to AD12-S12) ..... 1 SHEET
MECHANICAL – X/M201 (refer to AD12-M04) ..... 1 SHEET
ELECTRICAL (refer to AD12-E10 thru AD12-E14 and AD12-E19) .....7 SHEETS
CIVIL – SD/C306.4, SD/C406.4 AND SD/C407 (refer to AD12-C02 thru AD12-C04) .....3 SHEETS

CHANGES TO BIDDING CONDITIONS:

AD12-CBC01 Revised RFPQ Exhibit B – Prequalification Certification (Attached).

1. Refer to RFPQ Exhibit B – Prequalification Certification. Revise "Walnut Modular Expansion and Site Work" to read "Sanger West High School Building L Construction Project".
2. Omit RFPQ Exhibit B and replace it with the attached revised RFPQ Exhibit B – Prequalification Certification, identified as Addendum 12.

AD12-CBC02 Prequalification – Application Submission Deadline.

1. Refer to the Prequalification Application for the Sanger West High School Building L Construction Project, Page 1, Timelines – Project Prequalification, and to the Request for Proposals and Qualifications (RFPQ), Section I.C – Prequalification Applications.
2. The prequalification application submission deadline was established in the District's Prequalification Application: prequalification application packets must be completed and submitted by October 7, 2026, by 3:30 p.m. RFPQ Section I.C requires packets to be submitted no later than the deadline specified in the prequalification application materials.
3. The five (5) business day requirement of Addendum 9, Item AD9-CBC01, is the date by which a contractor must be prequalified (hold an approved prequalification) before the proposal deadline, and it must remain prequalified at the proposal deadline. It is not the deadline for submitting a prequalification application.
4. Addendum 10, Item AD10-CPA1, did not establish or revise any deadline. It restated, as a point of clarification, the October 7, 2026, 3:30 p.m. deadline published in the Prequalification Application.
5. Prequalification applications received after October 7, 2026, at 3:30 p.m. are untimely and will not be reviewed for this Contract.

AD12-CBC03 Official Location of the Bid Documents.

1. The Bid Documents, including all addenda, are posted on the District website: https://www.sanger.k12.ca.us/departments/business-services/purchasing/. Documents obtained from any other source, including plan rooms and builders exchanges, are not controlled by the District, and Proposers are responsible for confirming that they have the complete set of Bid Documents and all addenda.

AD12-CBC04 Acknowledgment of Addenda on the Proposal Form.

1. Refer to the RFPQ, Exhibit G – Proposal Form. Acknowledge each addendum by both its Bid Addendum number and its DSA Addendum number, as follows:

   a. Bid Addendum 1 – DSA Addendum No. 8.

   b. Bid Addendum 2 – DSA Addendum No. 9.

   c. Bid Addendum 3 – DSA Addendum No. 10.

   d. Bid Addendum 4 – DSA Addendum No. 11.

   e. Bid Addendum 5 – DSA Addendum No. 12 (this Addendum).

   F. Bid Addendum 6 – DSA Addendum No. 13 (if issued).

2. DSA Addenda 1 through 6 were issued, DSA approved and posted to the bid set. Addendum 7 for this bid was posted to the bid set before the current bid issuance; hence incorporated in the Base Bid Drawings and the Project Manual. Addendum 1 through 7 do not need to be acknowledged separately.

AD12-CBC05 Proposal Submission – Original and Hard Copies.

1. Refer to RFPQ Section I.D and Section V.
2. Proposers have asked whether the Proposal Form (Exhibit G), bid security, Designation of Subcontractors (Exhibit H), DVBE certification and Good Faith Efforts worksheet may be submitted as a single original, with the remaining copies of the proposal provided separately.
3. Submission of Hard Copies: One (1) sealed original bid proposal is required at the time of bid submission. In addition, bidders shall provide four (4) complete hard copies of the bid proposal no later than 10:00 AM on Monday, October 26, 2026. The hard copies shall be identical to the original bid submitted on bid day and shall include all clarifications, supplemental information, and completed subcontractor information submitted in accordance with these requirements. Hard copies are provided for administrative convenience only and shall not modify the original sealed bid. If any discrepancy exists between the original bid and the hard copies, the original sealed bid shall govern.
4. This revises RFPQ Section I.D and Section V. Refer to AD12-CBC07 for the Designation of Subcontractors.

AD12-CBC06 Proposal Submission – 75-Page Limit.

1. Refer to RFPQ Section V.
2. Proposers ask whether the 75 single-sided page limit excludes the proposal forms, tabs, cover page and cover letter.
3. The required forms and exhibits listed in RFPQ Section V, including the Proposal Form (Exhibit G), bid security and Designation of Subcontractors (Exhibit H), will not be considered as part of the page limit for the proposal itself.
4. If exhibits are also attached as separate documents, these also will not be considered as part of the page limit for the proposal itself and may or may not be reviewed or scored.

AD12-CBC07 Designation of Subcontractors.

1. Refer to RFPQ Exhibit H – Designation of Subcontractors.
2. Proposers ask (1) whether the "Portion of Work (dollar amount)" column is required with a lump sum proposal, and (2) whether the dollar amounts and phone numbers may be submitted after the proposal deadline.
3. At the time of bid submission, bidders shall provide one completed original Designation of Subcontractors form with the sealed bid. At a minimum, the form shall include: (1) subcontractor name, (2) business location, (3) portion of work, (4) contractor license number, and (5) DIR registration number. If any required information is unavailable at the time of bid opening, bidders shall provide the missing information, corrections, subcontract amount, contact telephone number, and DIR registration information by email no later than 3:30 PM on the Saturday following the bid opening to Deborah Flores at *deborah_flores@sangerusd.net*. Supplemental information submitted after bid opening shall be limited to clarification, completion, or correction of information omitted from the original submission and shall not alter the bidder's intended subcontractor designation.
4. After the award of bid to the successful contractor, a schedule of bid values will be required, and organized by the specification number that defines the scope of work. The contractors overhead, profit and general conditions shall be defined, as with the District contingency amount and all of the allowances.

AD12-CBC08 Open Book Policy.

1. Refer to RFPQ Section III.B and Section III.D.
2. Proposers ask whether the open book requirements of Section III.B (access to subcontractor bids, value engineering backup, contingency and general conditions tracking, and documentation of fees) apply to a lump sum proposal under Section III.D.
3. Refer to the addendum item AD12-CBC07 Designation of Subcontractors – Dollar Amount and Phone Number.
4. This District reserves the right to ask additional questions.

AD12-CBC09 Sublease Payments.

1. Refer to the Sublease, Section 6(a). The Total Sublease Amount, excluding allowances and contingencies, is paid in twenty-two (22) equal monthly installments in accordance with the Schedule of Sublease Payments (Exhibit A).
2. The Total Sublease Amount is the entire lump sum proposal amount (not including contingency/allowance) and is not limited to the general conditions costs.
3. The Sublease term is twenty-two (22) months, unless extended. The twenty-two (22) equal monthly payments add up to the Total Sublease Amount, which is the contract price not including contingency and allowances. If

contingency or allowance funds are used, the remaining payments will be re-calculated as provided in Section 6 of the Sublease.

AD12-CBC10 Not Used. Insurance requirements will be addressed in a subsequent addendum.

AD12-CBC11 Davis-Bacon, Copeland and Byrd Requirements.

1. Refer to the General Conditions, Section B – Davis-Bacon Act, and the related federal provisions.
2. This project is not federally funded. The Davis-Bacon Act, Copeland Anti-Kick-back Act and Byrd Anti-Lobbying provisions do not apply and are deleted for this Contract. California prevailing wage requirements (Labor Code Section 1720 et seq.) and DIR registration remain in effect.

AD12-CBC12 Milestone Deadlines.

1. Refer to the Lease-Leaseback Agreement, Section 3. The Contract Time is 548 calendar days.
2. No interim milestone deadlines are established for this Contract; liquidated damages of $1,000 per calendar day apply to the Date for Completion.

AD12-CBC13 Contract Time – Adverse Weather Allowance.

1. Refer to Section 01 11 13 – SUMMARY OF WORK (AD8), Article 1.9.A, and Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS (AD12), Paragraph 1.7.A.
2. The 2.5-month adverse weather allowance is included within the 548-calendar-day Contract Time.
3. The allowance is 2.5 calendar months of cumulative rain delay and associated impacts. Weather impacts within this allowance are to be included in the Contractor's base line schedule duration and Proposal.
4. Time adjustments (not part of the above base bid time allowance) remains eligible for a non-compensable time extension under Section 01 32 16 and the General Conditions.

AD12-CBC14 Wet-Weather and Soil Condition Risk.

1. Refer to Section 01 50 00 (AD12), Paragraph 1.7.F, and General Conditions Section 2.2.3.2.
2. A Proposer asks that the Contractor's responsibility for foreseeable wet-weather and soil conditions be limited to conditions reasonably inferable from the BSK & Associates Geotechnical Investigation, Report No. G21-049-11F.
3. No change. Paragraph 1.7.F governs.
4. The geotechnical report is provided for information in accordance with General Conditions Section 2.2.3.2.

AD12-CBC15 Deferred Approvals – DSA Review Time.

1. Refer to Addendum 9, Item AD9-CBC08, and General Conditions Section 1.2.2.2.
2. No change. Delays associated with review or approval of deferred approval submittals by DSA or any other agency are the responsibility and risk of the requesting party.
3. The Contractor shall include the DSA review periods in its base line schedule, and provide updates in the monthly schedule updates.

AD12-CBC16 DSA Approval of Addenda.

1. Refer to General Conditions Section 1.2.2.1. Addenda are submitted to the Division of the State Architect (DSA) for approval.
2. Addenda 7 through this Addendum 12 are being submitted by the Architect to DSA for review and approval.
3. Any material revision required by DSA as a condition of approving an addendum that is issued after the proposal deadline will be processed as a change to the Contract in accordance with the Contract Documents.

AD12-CBC17 Allowances.

1. Refer to RFPQ Section III.D, Lease-Leaseback Agreement Article 4, General Conditions Section 3.8, and Addendum 9, Item AD9-CBC01.
2. Refer to the attached Allowances Summary. It lists the general contingency allowance and each special allowance included in the Base Bid, with the Contract Document that establishes each one. The Base Proposal Amount shall include the $800,000 general contingency allowance and the $500,000 in special allowances, a total of $1,300,000, and the structural and reinforcing steel allowance described in Item 7. Do not include these amounts in Alternate No. 1.
3. The general contingency allowance and the special allowances are Owner allowances. Work shown on the Drawings or specified is base work and shall be included in the lump sum proposal. Payment from an allowance will be made only for Owner-directed work beyond the requirements of the Contract Documents, with the Owner's advance written approval.
4. Fencing shown on the Drawings is base work. The $50,000 chain link and ornamental fencing allowance is for additional fencing directed by the Owner.
5. Floor protection required by the Specifications is base work. The $20,000 floor protection maintenance allowance is for Owner-directed additional protection, maintenance or replacement.
6. The vapor-alkalinity control membrane system specified in Section 07 18 50 – VAPOR-ALKALINITY CONTROL is base work and is listed as a line item on the Bid Form. The $50,000 vapor-alkalinity control/remediation allowance is for Owner-directed remediation beyond the specified system.
7. Refer to Sheet X/S101, General Note 8. The allowance equal to 2% of the bid for structural steel, miscellaneous iron and reinforcing steel remains in the Contract. Include it in the Base Proposal Amount and list it as a separate line item in the Schedule of Values. The allowance shall be used at the discretion of the Structural Engineer, with the Owner's advance written approval, and unspent amounts remain the property of the Owner. The amount is 2% of each Proposer's own price for structural steel, miscellaneous iron and reinforcing steel, as determined by its steel fabricator; no fixed dollar amount is assigned.
8. Refer to AD12-SP22 for the deletion of the tile allowance in Section 09 30 00 – TILE.
9. After award, the successful Contractor shall submit a Schedule of Values organized by specification section, with each line item matching the scope of work defined in that section. The Schedule of Values shall list the following as separate line items:

    a. Contractor's overhead.

    b. Contractor's profit.

    c. General conditions.

    d. The District's general contingency allowance ($800,000).

e. Each of the thirteen (13) special allowances listed in RFPQ Section III.D and on the attached Allowances Summary.

f. The 2% structural steel, miscellaneous iron and reinforcing steel allowance (Sheet X/S101, General Note 8).

AD12-CBC18 Geotechnical Report.

1. Refer to Specification Section 31 20 00 – EARTHWORK (Addendum 9).
2. A Geotechnical Investigation was prepared by BSK & Associates, Report No. G21-049-11F, dated March 17, 2021,
3. This is available to Proposers if they reach out to BSK.
4. The EARTHWORK specification governs the scope of work.

AD12-CBC19 Existing Site Grading – Building L Pad.

1. The Building L building pad has not been rough graded or certified under a previous phase. The Contractor shall perform all earthwork, over-excavation, recompaction and testing required for the building pad and site work in accordance with the Civil Drawings, Section 31 20 00 and the geotechnical report. No certified pad will be provided.

AD12-CBC20 Excess Soil.

1. Excess soil from the Base Bid and Alternate No. 1 shall remain on the Sanger West campus. Place it in the area east of the ballfield and south of the ponding basin, at the location determined by the District.
2. Before hauling, the Contractor shall coordinate the placement area, haul route and access with the District. Haul only on routes approved by the District, and keep them clean and free of tracked soil.
3. Spread excess soil in uniform lifts and grade it to drain. Stabilize it in accordance with the SWPPP and Section 01 57 23.
4. Soil that is unsuitable for fill, such as debris, organic material or contaminated soil, shall be removed from the site and legally disposed of at the Contractor's expense.

AD12-CBC21 Building Information Modeling.

1. Building Information Modeling (BIM) and virtual design and construction (VDC) coordination are not required.
2. The Contractor shall prepare coordination drawings in accordance with Section 01 31 13 – CONTRACTOR'S PROJECT MANAGEMENT, Article 1.7 –

COORDINATION DRAWINGS, and as required by the individual Specification Sections. Coordination drawings may be prepared using two-dimensional or three-dimensional methods at the Contractor's option.

AD12-CBC22 Order of Precedence – Finish Requirements.

1. Refer to General Conditions Section 1.2.1.3 – Conflicts, and Section 1.2.2.1 – Addenda.
2. Where the finish requirements of the Contract Documents differ, the following order of precedence applies:
   a. Addenda govern over the Drawings and Specifications they revise. A later addendum governs over an earlier addendum to the extent stated (General Conditions Section 1.2.2.1).
   b. The Drawings govern finish selections, types and locations, including the Interior Finish Schedule on Sheet X/A201.
   c. The Specifications support the Drawings. They define the products, materials, installation and execution for each finish shown on the Drawings.
   d. The Specification appendices (Interior and Exterior Color Schedules) govern colors.
3. Where the Drawings and Specifications differ in the quantity or quality of the work, the more stringent requirement, the higher quality and the greater quantity of work shall be provided, in accordance with General Conditions Section 1.2.1.3.
4. Where a provision of Division 01 of the Specifications conflicts with a Division 00 Contract Document (the Agreement, General Conditions, instructions to bidders or bid form), the Division 00 provision controls, in accordance with General Conditions Section 1.2.1.3.
5. Where a discrepancy cannot be resolved by this order of precedence, notify the Architect for clarification before ordering materials or proceeding with the work.

CHANGES TO PREVIOUS ADDENDA:

AD12-CPA01 Refer to Addendum 8 – Index of Addenda Transmitted Herewith.

1. The Index omitted the Plumbing, Mechanical and Electrical items. Add the following:

    a. CHANGES TO SHEETS – PLUMBING: AD8-P01 thru AD8-P03.

    b. CHANGES TO SHEETS – MECHANICAL: AD8-M01 thru AD8-M11.

    c. CHANGES TO SHEETS – ELECTRICAL: AD8-E01.

    d. DRAWINGS – PLUMBING: 2 sheets (SD/P101.4, X/P102).

    e. DRAWINGS – MECHANICAL: 9 sheets (X/M102, X/M201, X/M202, L/M102.4, L/M201.4, L/M202.4, L/M301.4, L/M302.4, L/M401.4).

2. Where Addendum 8 identifies sheets as "X-P102", "L -M102.4", "L-M201.4" and similar, the sheet numbers are X/P102, L/M102.4, L/M201.4, etc.
3. Item number AD8-A08 was used twice. Renumber the second item (Sheet L/A614.4 – Interior Elevations L132–L202) as AD8-A11. The content of the item is unchanged.
4. Bid Addendum 1 as posted contains its attachments twice. The second set (PDF pages 278–535) duplicates the first set (PDF pages 20–277) and contains no additional changes.

AD12-CPA02 Refer to Addendum 8, Items AD8-SP10 and AD8-SP11, and Addendum 11, Item AD11-SP07 – Choir Risers and Portable Seating Platforms.

1. Addendum 8 issued two different sections under the number 11 61 23. Renumber Section 11 61 23 – CHOIR RISERS (AD8-SP10) as Section 11 61 24 – CHOIR RISERS.
2. Revise AD8-SP10 to read "Add Specification Section 11 61 24 – CHOIR RISERS"; the section was not in the Project Manual before Addendum 8.
3. Addendum 11, Item AD11-SP07 omitted only Section 11 61 23 – PORTABLE SEATING PLATFORMS AND SEAT SYSTEMS.
4. Section 11 61 24 – CHOIR RISERS remains in the Contract.
5. Section 11 61 43 – PORTABLE SEATING PLATFORMS AND SEAT SYSTEMS (AD11-SP07) replaces Section 11 61 23 – PORTABLE SEATING PLATFORMS AND SEAT SYSTEMS (AD8-SP11).
6. Where the header or footer of Section 11 61 43 (AD11-SP07) reads "116123", the section number is 11 61 43.
7. Section 11 61 24 – CHOIR RISERS, Article 2.01 – Pre-Approved Manufacturers:

a. In a bid question received October 15, 2026, a bid proposer forwarded correspondence from Wenger Corporation dated October 15, 2026. In it, Wenger stated that it had reviewed the "Platform Spec (116123)", could not meet the specification, and would not price the work. Wenger also stated that StageRight, Inc. and Staging Concepts are viable manufacturers. The correspondence was received before Addendum 11 and does not make clear whether it refers to the choir risers or the portable seating platforms. These statements were made by Wenger, not by the Architect or the Theater Consultant. Neither the Architect nor the Theater Consultant has reviewed or accepted any manufacturer as a result.

b. This Addendum does not add manufacturers to the list of pre-approved manufacturers in Article 2.01.

c. A manufacturer not listed in Article 2.01 may be proposed as a substitution in accordance with Section 01 25 00 – SUBSTITUTION PROCEDURES. The request shall include product data, shop drawings, calculations where applicable, and a point-by-point comparison with each requirement of the Section. The Architect and the Theater Consultant will review the request, and acceptance is at their sole discretion.

d. All Proposers shall base their proposals on choir risers that comply with all requirements of Section 11 61 24, regardless of manufacturer. Wenger's statement that it will not bid this work does not waive or reduce those requirements.

8. Refer to specification 11 61 43, Article 2.1.A: StageRight, Inc., Sightline Commercial and Wenger Corporation remain pre-approved to bid the platform work (AD11-SP07). Pre-approval to bid does not imply acceptance; each manufacturer is responsible for compliance with the Section. Refer to Item 3.a. Wenger's statement does not change the pre-approved list or the requirements of Section 11 61 43. Proposers shall base their proposals on platforms that comply with all requirements of the Section, regardless of manufacturer.

AD12-CPA03 Refer to Addendum 9, Item AD9-CBC13 – Temporary Utilities, and Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS (AD9).

1. Omit Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS (AD9) and replace it with the attached Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS, identified as AD12. Revisions made by this Addendum are shown in blue text. The revisions are summarized below.
2. Article 3.6 – TEMPORARY UTILITY INSTALLATION, Paragraphs E.2 (Owner-paid water) and F.2 (Owner-paid electrical service) are deleted, as intended by AD9-CBC13. The Contractor shall arrange for, provide and pay for all construction water and electrical service in accordance with Paragraphs E.1 and F.1. The

references in AD9-CBC13 to "Subparagraph G.2," "Subparagraph H.2" and "Subparagraphs G.1 and H.1" mean Article 3.6, Paragraphs E.2, F.2, E.1 and F.1.

3. Paragraph 3.5.A.6.a is revised to read: "The Contractor shall pay all charges for temporary utilities until the permanent building service is energized from the campus distribution system. After that date, the Owner will pay for electrical energy and water consumed through the permanent building services." This responds to a Proposer's request that the District pay energy costs once Building L is served from the campus electrical system on the District's meter.
4. Paragraph 3.6.A.1 is added. Existing site utilities may be used only with prior District approval, and only where such use does not disrupt or adversely affect the operation of the existing school campus, as stated in AD9-CBC13, Item 4.
5. Paragraph 1.6.A.2.e is added. It requires temporary temperature and humidity control in the spaces receiving Section 09 64 66 – RESILIENT WOOD FLOOR, in accordance with Section 09 64 66 and AD12-SP12.
6. AD9-CBC13, Item 1 remains in effect. All costs of temporary facilities and utilities are included in the Proposal in accordance with RFPQ Section III.D.1.

AD12-CPA04 Refer to Addendum 9, Item AD9-A01, and Sheet X/A515 – Detail J8, Edge of Roofing to Vertical Framing.

1. Delete Addendum 9, Item AD9-A01 in its entirety. Detail J8-X/A515 – Edge of Roofing to Vertical Framing is not omitted and remains in the Contract.
2. Omit Sheet X/A515, as revised by Addendum 5, and replace it with the attached Sheet X/A515, identified as DSA Addendum No. 12. The attached sheet is the original DSA-approved Sheet X/A515 (DSA identification stamp dated 11/6/2023). The Addendum 5 revisions to Detail J8 are withdrawn. No other changes have been made to the DSA-approved sheet, and no clouds or deltas are shown.
3. Detail J8 is noted "Typical Detail for All Roofing Transitions." It applies at the built-up roofing, including the locations on Sheets X/A502 and X/A503 noted "See Detail J8 - X/A515 for Edge of wall condition." Where Detail J8 identifies single-ply roofing components, provide the corresponding built-up roofing components in accordance with Section 07 51 13 – BUILT-UP ROOFING, as indicated on the detail ("or BUILT-UP ROOFING at similar condition").
4. Provide the sheet metal parapet cap, reglet and counter flashing, the metal framing and clips (Detail 3-X/S601), and the metal deck closure plate (Detail 7-X/S601) as shown on Detail J8.

AD12-CPA05 Refer to Addendum 9, Items AD9-A02, AD9-A03, AD9-A04 and AD9-A08 – Shades.

1. The revision of the shades from Owner-Furnished, Contractor-Installed (OFCI) to Contractor-Furnished, Contractor-Installed (CFCI) also applies to Sheet X/A401 – Opening Schedules Windows, Comments 12, 12a, 12b and 12c, and to Detail N11-X/A605 – Recessed Shade Pocket in Gypsum Ceiling. At these locations, revise "OWNER-FURNISHED ITEMS, Shades, OFCI" and "OWNER FURNISHED ITEMS, Shades" to read "Shades, Contractor-Furnished, Contractor-Installed (CFCI); refer to Specification Section 12 24 13."
2. Refer to Details N14 and K18-X/A605. Revise "Refer to Opening Schedules Sheet X/A401 & X/A402" to read "Refer to Opening Schedules Sheets X/A401, X/A403 and X/A415". Sheet X/A402 is not part of the Bid Documents.

AD12-CPA06 Refer to Addendum 9, Item AD9-P01 – Sheet SD/P101.

1. Item 2: Delete "as indicated below." The intent and scope are as follows:

    a. The site plumbing work on Sheet SD/P101 that serves Building Q, or that is identified as Building Q work, is not part of this Contract.

    b. This Contract includes the site plumbing that serves Building L, from the points of connection to the existing site utilities to Building L, as shown on Sheet SD/P101.4 (AD8) and the Building L Plumbing Drawings.

    c. Existing site plumbing that serves Building Q and the existing campus shall remain in service. Protect it in place during construction, and repair any damage at no cost to the Owner.

AD12-CPA07 Refer to Addendum 9, Item AD9-SP11 – Sections 28 55 00 and 28 55 10. (ERRCS)

1. The note added by AD9-SP11 applies to Section 28 55 00 – EMERGENCY RESPONDER RADIO COVERAGE SURVEY (AD10) and Section 28 55 10 – EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (AD10), which replaced those sections under Addendum 10 (AD10-SP14 and AD10-SP15).
2. The City of Fresno Fire Department requirements take precedence. Where Sections 28 55 00 and 28 55 10 (AD10), or the City of Fresno Fire Department ERCES Section 403.009 attached under AD10-SP16, differ from the City of Fresno Fire Department requirements in effect at the time the deferred approval package is submitted, the Fire Department requirements in effect at the time of submittal govern.
3. The Contractor shall design, permit, test and install the ERRCS to meet the Fire Department requirements, and shall include all associated costs in the Proposal, including the radio coverage survey, any added equipment or coverage, and Fire Department review and acceptance testing.

AD12-CPA08 Refer to Addendum 9, Items AD9-CBC11 and AD9-C01, and Section 01 57 23 – STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (AD10).

1. In response to a bid question, a Proposer asked whether Section 01 57 23 governs the division of SWPPP responsibilities, since Addendum 9, Items AD9-CBC11 and AD9-C01 list SWPPP preparation and Construction General Permit fees as Contractor costs. This item resolves that conflict.
2. The Building L (Phase 3b) area is incorporated into the existing Sanger Education Complex – Phase 3 & Aquatics SWPPP by a Change of Information (COI) prepared by the District's Qualified SWPPP Developer (QSD), BC&F Engineering. One master SWPPP covers the property, as for Phase 3A and the Aquatics project. BC&F prepares and oversees the SWPPP, and the Contractor implements it.
3. Responsibilities:

    a. District (BC&F, QSD): Prepare the SWPPP and the COI. Prepare and file the Construction General Permit documents, including the Annual Reports and the Notice of Termination (NOT). Pay the permit and annual fees.

    b. Contractor: Retain a Qualified SWPPP Practitioner (QSP) and implement the SWPPP, including BMP installation and maintenance, inspections, sampling and final stabilization. Provide the BMP documentation, inspection reports, photographs, training logs and records needed for the filings.

4. Addendum 9, Item AD9-CBC11, Item 2: Delete "SWPPP/Construction General Permit fees,".
5. Addendum 9, Item AD9-C01, Item 1, is revised as follows:

    a. Revise "Include all SWPPP preparation, BMP installation and maintenance, inspection, and sampling and reporting in the bid." to read "Include all BMP installation and maintenance, inspection, and sampling in the bid."

    b. Revise "The District will file the Construction General Permit documents, including the Notice of Intent (NOI) and the Notice of Termination (NOT)." to read "The District will prepare and file the Construction General Permit documents, including the Notice of Intent (NOI), Annual Reports, and the Notice of Termination (NOT)."

    c. Revise "by providing all required information, the SWPPP, site maps, BMP documentation, inspection reports, photographs, and records." to read "by providing all required information, BMP documentation, inspection reports, photographs, training logs, and records."

d. Delete the paragraph beginning "Before each filing, the Contractor shall schedule and conduct a quality control meeting via Microsoft Teams" in its entirety.

e. The Final Stabilization, Seed Mix Submittal, Preparation and Establishment requirements remain. Non-vegetative stabilization in accordance with Section 01 57 23 may be used only where seeding cannot be established because of season or schedule, with the approval of the Civil Engineer.

6. Section 01 57 23 (AD10), as clarified by this item, governs. The Contractor's termination obligations under Section 01 57 23, Article 3.1.B are limited to the Phase 3b disturbed area.

AD12-CPA09 Refer to Addendum 9 – Index of Addenda Transmitted Herewith.

1. Revise the Changes to Sheets lines to read: "CIVIL – AD9-C01", "PLUMBING – AD9-P01", "MECHANICAL – AD9-M01" and "ELECTRICAL – AD9-E01".
2. Revise "AD9-SP01 thru AD9-SP14" to read "AD9-SP01 thru AD9-SP13", and "AD9-CPA01" to read "AD9-CPA1".
3. Item AD9-SP07: Renumber items 3 and 4 as items 1 and 2.

AD12-CPA10 Refer to Addendum 10, Items AD10-SP02 and AD10-A01 – Fireproofing.

1. Addendum 10, Item AD10-SP02 is deleted in its entirety.
2. Section 07 81 16 – FIREPROOFING (identified in AD10-SP02 as "07 81 18") is not omitted; it remains in the Project Manual and is reinstated in the Table of Contents. Refer to AD12-SP01.
3. Addendum 10, Item AD10-A01, Paragraph 2 ("Fireproofing is not required for Building L") is deleted.
4. Paragraph 1 remains: the note on Detail A8-X/A101 reads "FIREPROOFING, Where Occurs. See Detail A6/G006 for Fire-Resistance Rating locations."
5. Refer to AD12-A01 for the fireproofing and intumescent coating requirements.

AD12-CPA11 Refer to Addendum 10, Items AD10-S01 and AD10-PR01 – Tension Grid.

1. Revise all references to "Structural Sheet S521.4" to read "Structural Sheet L/S521.4".
2. AD10-S01, Paragraph D.2: Revise "2022 California Building Code and ASCE 7-16" to read "2019 California Building Code (CCR Title 24, Part 2) and ASCE 7-16". The project is approved under the 2019 California Building Standards Code (Sheet G000, Applicable Codes), and all deferred approval submittals shall be prepared under the 2019 California Building Standards Code.

3. A deferred approval submittal prepared under a later code edition will be considered only if DSA accepts it in writing before the submittal is prepared. No increase in the Contract Sum or Contract Time will be allowed for redesign or resubmittal required because a later code edition was used.
4. Refer to AD12-S01 for the tension grid and catwalk design loads.

AD12-CPA12 Refer to Addendum 10, Item AD10-M01, and Addendum 11, Item AD11-M02 – Outside Air Intake and Relief Hoods.

1. Delete "Refer to Detail A-X/M102 in this Addendum." Detail A-X/M102 is the roof exhaust fan mounting detail.
2. Revise "See Detail E7-X/A508" to read "See Detail N14-X/A506 – Manufactured Curbs, Equipment". Detail E7-X/A508 is the equipment access hatch.

AD12-CPA13 Refer to Addendum 10, Item AD10-M02, and Addendum 11, Item AD11-M03 – Duct Lining and Duct Wrap.

1. Section 23 07 13 is not included in the Project Manual. Delete the references to Section 23 07 13 in Addendum 10, Item AD10-M02 and Addendum 11, Item AD11-M03.
2. Provide the acoustic duct lining and the exterior duct wrap insulation required by AD10-M02 and AD11-M03 in accordance with Section 23 00 01 – HEATING, VENTILATING AND AIR CONDITIONING and the Mechanical Drawings. This Addendum does not establish additional product requirements.
3. Submit product data for the duct liner and duct wrap with the Section 23 00 01 submittals. The Mechanical Engineer will review the submittal, and acceptance is at the Mechanical Engineer's sole discretion.

AD12-CPA14 Refer to Addendum 11, Item AD11-SP02 – Section 09 91 00 – PAINTING.

1. Item 1: Revise "Refer to Paragraph 3, x, E, 5 (Interior Metal)" to read "Refer to Article 3.7 – SCHEDULES, Paragraph E – INTERIOR PAINT FINISHES, Subparagraph 5 – INTERIOR METALS."

AD12-CPA15 Refer to Addendum 11, Items AD11-A01, AD11-A02 and AD11-A03 – Sheets SD/A016, SD/A106.4 and SD/A206.4 – Irrigation Connections at the Existing Parking Lot and Patching of Existing Paving.

1. In response to a bid question, a Proposer asked whether the irrigation lines shown running through the existing parking lot are new or existing, and whether sawcutting, demolition and patching are required.

2. The irrigation mainline and control wiring through the existing parking lot are existing. Under Phase 2, the irrigation mainline was stubbed and capped below grade past the existing paving, with irrigation control wire conduit and a wire stub for the controller in a valve box. Connect the new irrigation to these existing stubs. Locate and expose the stubs by potholing before trenching. Where a stub is not found at the location indicated, notify the Architect before cutting any paving. Where new irrigation piping, sleeves or control wiring must cross existing asphalt concrete or concrete paving, sawcut, remove the paving, trench, backfill and patch the paving back to match existing in accordance with Items 3 through 5. Add this note to Sheets SD/A016, SD/A106.4 and SD/A206.4 (AD11). This applies to the Base Bid and to Alternate No. 1.
3. Sawcut in straight, neat lines parallel to the trench, 12 inches minimum beyond each side of the trench. Patch asphalt concrete paving to match the existing pavement section, thickness and finish, and restore any striping and markings removed. At concrete paving, remove and replace to the nearest joint.
4. Trench compaction is critical to prevent settlement of the patched paving. Backfill in accordance with Section 31 23 33 – TRENCH EXCAVATION AND BACKFILL, using clean granular backfill with a high sand content. Place backfill in lifts not exceeding 8 inches loose thickness, and compact the top 12 inches below paving to 95% relative compaction and the backfill below to 90%, with compaction testing in accordance with Section 31 23 33.
5. Repair any settlement or cracking of patched paving that occurs during the warranty period at no cost to the District.

AD12-CPA16 Refer to Addendum 11, Item AD11-S01 – Sheet L/S301.4, Housekeeping Pad Note.

1. Delete Addendum 11, Item AD11-S01 in its entirety. The reference to the concrete housekeeping pad (Structural Detail 16-X/S531) is already shown on Section B-L/S319.4. Refer to AD12-A05.

AD12-CPA17 Refer to Addendum 11, Item AD11-E05, Paragraph 5 – Alternate No. 1 North Parking Lot Electrical.

1. The Electrical drawings for the Alternate No. 1 North Parking Lot are reissued in this Addendum. Refer to AD12-E10 thru AD12-E13.

CHANGES TO SPECIFICATIONS:

AD12-SP01 Refer to Section 00 01 10 – PROJECT MANUAL TABLE OF CONTENTS.

1. Omit Section 00 01 10 – PROJECT MANUAL TABLE OF CONTENTS and replace it with the attached Section 00 01 10, identified as AD12.
2. Revisions made by previous addenda are shown in red, and revisions made by this Addendum are shown in blue.
3. The attached Table of Contents identifies the sections added, renamed, re-numbered, deleted or designated Not in Contract (NIC).

AD12-SP02 Specification Sections Not in Contract.

1. The following sections are Not in Contract (NIC):

   a. 07 54 00 – SINGLE-PLY ROOFING;

   b. 12 93 13 – BICYCLE RACKS;

   c. 32 28 70 – TENNIS COURT CONSTRUCTION; and

   d. 32 28 71 – TENNIS COURT SURFACING.

2. Bicycle vaults and bike racks: The keynote "MISCELLANEOUS SPECIALTIES, Bicycle Vault, 6 locations and Bike Rack, 3 Locations" on Sheets G005 and SD/A100 refers to existing Phase 3 work in the central campus and is Not in Contract. No bicycle vaults or bicycle racks are included in this Contract under Section 10 05 00 – MISCELLANEOUS SPECIALTIES or Section 12 93 13.

AD12-SP03 Refer to Section 31 20 00 – EARTHWORK FOR SITE: EXCAVATION, FILLING AND GRADING.

1. Renumber Section 31 20 00 – EARTHWORK FOR SITE: EXCAVATION, FILLING AND GRADING as Section 31 23 00.
2. Section 31 20 00 – EARTHWORK FOR BUILDINGS retains its number.
3. "Spec Section 31 20 00.01" on Detail C-SD/X101 refers to Section 31 20 00, Article 3.3. Other references to Section 31 20 00 on the Civil Drawings refer to Section 31 23 00.

AD12-SP04 Refer to Section 01 33 00 – SUBMITTAL PROCEDURES.

1. Sections listed in Section 01 33 00 that are not listed in Section 00 01 10 (AD12) do not apply to this Contract.

AD12-SP05 Refer to Section 08 70 00 – HARDWARE.

1. Omit Section 08 70 00.01 – HARDWARE SCHEDULE and replace it with the attached Section 08 70 00.01 – HARDWARE SCHEDULE, identified as AD12. Revisions are shown in blue. The AD12 Section incorporates the hardware revisions made during Phase 3 construction for Buildings M and Q, and the references to "RFI-006" are removed.
2. Lock Cylinders and Cores: Provide Schlage locks, exit device cylinders and mortise cylinders prepared for full-size interchangeable cores (FSIC), with permanent Schlage 23-030 FSIC cores.
3. Schlage ND series cylindrical locks and 20-700 mortise cylinder housings, each with a 23-030 core. Where a Hardware Group lists a lock with the "PD" suffix together with an "FSIC CORE 23-030", provide the lock prepared for the FSIC core. Schlage AD-200 electronic locks are not used.
4. Keying: Key the permanent cores into the District's existing Schlage keying system and grandmaster system in accordance with Paragraph 2.3.B.2.
5. Provide temporary construction cores during construction and install the permanent cores at Substantial Completion or when directed by the District.
6. Before ordering hardware, the hardware supplier shall hold a keying meeting with the District and its locksmith and submit a keying schedule for the District's approval. Include all keying, cores, construction cores and keys in the Proposal.
7. Classroom Security Locks: The Schlage ND75 classroom security lock was discontinued by the manufacturer in June 2024 and replaced by the ND78, which has the same function with a half-turn key operation. Hardware Groups 75, 75C, 75E and 75R shall be renumbered as 78, 78C, 78E and 78R, with ND78PD locks.
8. Refer to Sheet X/A403 – Opening Schedule, Opening L126a: Revise Hardware Group "75C" to read "78C".
9. Site Gate Padlocks: Hardware Groups 21G, 23G and 232G are revised to ABUS 83/45 C-L padlocks with Schlage cylinders, to match the site gate padlocks provided in Phase 3.
10. Hardware Group 99R-60 is added for 60-minute Opening L123b, Hardware Group 982G-KR is added for site gate SG57, and corrections are made to Hardware Groups 70-AA, 73, 80-AA, 99-AA, 99E, 99R, 99R-AA, 99R-A, 992AO and 992C. Hardware Groups not used in this Project are shown in gray. A Hardware Group Opening Schedule listing the Hardware Groups and openings for Building L and the site gates is added at the end of the Section. Refer to AD12-A10 and AD12-A15.

AD12-SP06 **Refer to Section 08 14 16 – WOOD DOORS, Article 2.2 – MANUFACTURED UNITS.**

1. Paragraph 2.2.A.2 (stain-grade white maple, transparent finish), Paragraph 2.2.A.3 (paint-grade birch, opaque finish) and Paragraph 2.2.A.4 (laminate-faced) describe the three wood door types. The door material and finish designations in the Opening Schedules (Sheets X/A403 and X/A415) and the Interior Finish Schedule (Sheet X/A201) determine which type applies to each opening.
2. Wood doors in Building L are Type 2.2.A.2, factory-finished white maple, unless noted otherwise. Refer to the interior color schedule at the back of the specifications for the door stain color.

AD12-SP07 **Woodwork Institute Certification.**

1. Woodwork Institute (WI) Certified Compliance Program certification, labels and certificates are required where specified, including Section 06 41 23 – MODULAR CASEWORK and the other Division 06 sections that require WI certification, and WI Premium Grade for Section 08 14 16 – WOOD DOORS. All WI fees shall be included in the Proposal.
2. The CCP certificate is only required for the Modular Casework.

AD12-SP08 **Refer to Section 08 41 00 – STOREFRONTS.**

1. Storefront and curtain wall systems are not load-bearing. They shall be designed by the Contractor's delegated engineer to support their own weight and the wind and seismic loads acting on them, and to accommodate the building movements indicated, in accordance with Sheet G000, Deferred Approval Item #1 and DSA IR 24-2.

AD12-SP09 **Refer to Section 09 29 00 – GYPSUM BOARD.**

1. Primer-Surfacer "TUFF-HIDE" (Paragraph 2.3.E) is required on gypsum board surfaces designated GB-1 – Level 5 finish (Article 3.7 – SCHEDULES, Paragraph B, Architect's Finish). Refer to the Interior Finish Schedule on Sheet X/A201 for the locations of each gypsum board finish level.
2. Tile Backing: At walls of showers and other wet areas, provide cementitious backer units in accordance with Section 09 30 00 – TILE, Paragraph 2.3.B. At other walls receiving ceramic tile, provide water-resistant gypsum board in accordance with Paragraph 2.2.D.

AD12-SP10 Refer to Section 09 30 00 – TILE – Floor Tile Setting Bed.

1. Floor tile shall be installed by the thin-set method over the concrete slab. The slabs at floor tile are not depressed.
2. At the restrooms, the slab is not depressed. The structural slab is sloped to the floor drains, as noted on Sheet L/S201A.4 ("SLOPE SLAB TO DRAIN"). Install the floor tile by the thin-set method following the slope of the slab. Where a tile detail on Sheet X/A501 shows a 2-inch mortar bed, the slope is provided by the structural slab, and the tile shall be installed by the thin-set method instead.
3. Transitions between tile and adjacent floor finishes shall be flush, or shall not exceed 1/4 inch vertical, or 1/2 inch beveled at 1:2 maximum, in accordance with CBC Section 11B-303.
4. The only slab depressions in Building L are at the resilient wood floors in Black Box Theater L115 and Drama Room L124. Refer to AD12-A04. These depressions do not apply to floor tile.

AD12-SP11 Refer to Section 07 40 00 – METAL PANELS – Perforated Panel, Canopy.

1. Intent: The canopy perforated panels at Building L shall match the canopy perforated panels installed at Buildings M and Q of Sanger Educational Complex Phase 3. Those panels were prepared by Diamond Perforated Metals, Inc. (Visalia, California).
2. Paragraph 2.1.B.2 – Specified Perforated Panels, and Paragraph 3.6.A.3 – Perforated Panel, Canopy: Revise Items c, d and f to read as follows:

    c. Material: Aluminum sheet, Alloy 5052-H32.

    d. Thickness: 0.090 inch.

    f. Perforation: Two round-hole sizes on 1.250-inch staggered centers: 1-inch nominal diameter holes in the field, and 1/4-inch diameter holes forming a hexagonal (honeycomb) graphic, matching the pattern at Buildings M and Q. No logo or lettering is included.

3. Finish: White powder-coat finish applied after fabrication, matching the color sample reviewed under Submittal 013-074000-0 for Buildings M and Q. Paragraph 2.5.F: At aluminum panels, delete "galvanized" and provide cleaning and pretreatment of the aluminum in accordance with the powder-coat manufacturer's requirements before powder coating.
4. Base the Proposal on the materials, perforation and finish described above, with the honeycomb graphic arranged across the Building L canopy panels in the manner used at Buildings M and Q. The Architect will furnish the Building L panel graphic layout during the submittal process, at no change in the

Contract Sum. Submit shop drawings showing each panel, the hole layout and the pattern orientation, and a finish sample, for the Architect's review.

5. The Building M and Q submittals and the color sample are available for review at the office of the Architect.

AD12-SP12 **Refer to Section 09 64 66 – RESILIENT WOOD FLOOR.**

1. Add to Article 2.3 – ACCESSORIES: "Neoprene Spacer: Closed-cell neoprene perimeter spacer as shown on Detail E6-L/A141.4, of the thickness and profile recommended by the flooring system manufacturer to maintain the required expansion space at walls and vertical obstructions."
2. Environmental Conditions – Theater System, AACER Flooring "AACERCUSH I PLUS" (Modified): Paragraphs 1.6.C and 1.7.A require the following conditions in the spaces receiving resilient wood flooring:

    a. Temperature: 60°F to 90°F.

    b. Relative humidity: 35% to 50% RH.

    c. Before installation: maintain the conditions for a minimum of fourteen (14) days.

    d. During installation: maintain the conditions for the seven (7) days of installation.

    e. After installation: maintain the conditions until the Owner assumes occupancy.

    f. Material acclimation: acclimate the flooring materials in the installation area for a minimum of two (2) weeks.

3. Temporary Temperature and Humidity Control: The Contractor shall provide temporary heating, cooling and dehumidification as required to maintain the conditions in Item 2 until the permanent HVAC system is complete, started, balanced and accepted for use. The building envelope, including roofing, exterior doors and glazing, shall be closed in before the conditions are established. The permanent HVAC system may be used for temporary conditioning only with the Architect's written approval, with filters provided and replaced in accordance with Section 01 50 00 and the Mechanical Specifications.
4. Monitoring: Provide continuous temperature and relative humidity data loggers in each space receiving resilient wood flooring, recording at intervals of one (1) hour or less. Submit the logs to the Architect and the flooring installer weekly, and before installation begins. Flooring materials shall not be delivered to the installation area, and installation shall not begin, until the logs show fourteen (14) consecutive days within the required conditions.

5. Include the cost of temporary temperature and humidity control and monitoring in the Proposal. The $50,000 special allowance for temporary acclimation (RFPQ Section III.D) is for Owner-directed work beyond these requirements.

AD12-SP13 Refer to Section 12 66 23 – TELESCOPIC SEATING.

1. In a bid question received, a supplier requested that Hussey Seating Company, MAXAM+ telescopic platform system with Gallery 3 seats, be accepted in lieu of the basis of design. The submitter's comparison was provided by the supplier. Neither the Architect nor the Theater Consultant has reviewed or accepted the product as a result.
2. This Addendum does not add manufacturers or products to Section 12 66 23.
3. A manufacturer or product not listed in Section 12 66 23 may be proposed as a substitution in accordance with Section 01 25 00 – SUBSTITUTION PROCEDURES. The request shall include product data, shop drawings, calculations where applicable, and a point-by-point comparison with each requirement of the Section. The Architect and the Theater Consultant will review the request, and acceptance is at their sole discretion.
4. All Proposers shall base their proposals on telescopic seating that complies with all requirements of Section 12 66 23, the seat count and layout on Sheets L/PS101.4 and L/PS102.4, and Sheet G000, Deferred Approval Item #5, regardless of manufacturer.

AD12-SP14 Refer to Section 01 91 13 – GENERAL COMMISSIONING REQUIREMENTS.

1. The District contracts directly with and pays the commissioning agent, Lawrence Engineering Group (AD9-SP02).
2. The Contractor's scope is to provide commissioning support as specified in Section 01 91 13, including participation in commissioning meetings, completion of pre-functional checklists, start-up and functional testing support, and certified Acceptance Test Technicians for the NRCA acceptance tests.

AD12-SP15 Refer to Section 21 00 00 – FIRE SPRINKLER SYSTEM.

1. This Addendum does not revise Section 21 00 00. The fire sprinkler system shall be designed, installed and calculated as shown on the Fire Protection Drawings, as revised by Addendum 11 (AD11-FP01 thru AD11-FP04), and as specified in Section 21 00 00.
2. The statement in Section 21 00 00 that "Science Classrooms shall be Ordinary Hazard Group 2" does not apply; there are no science classrooms in Building L. Hazard classifications for Building L are those indicated on the Fire Protection Drawings, as determined by the Fire Protection Engineer.

AD12-SP16 Refer to Section 23 09 23 – DIRECT DIGITAL CONTROL AND ENERGY MANAGEMENT SYSTEM.

1. Add the Building L sequences of operation (heat pump chiller WC-L1/WC-L2 staging, change-over valves, pump VFD differential-pressure control, economizer and demand-controlled ventilation, and the resilient wood floor temperature/humidity limits).
2. Delete the boiler, booster pump P-1 and WH-1 sequences that do not apply to Building L.

AD12-SP17 Refer to Section 26 77 00 – ASSISTIVE LISTENING SYSTEM (AD10).

1. Section 26 77 00 – ASSISTIVE LISTENING SYSTEM (AD10) and Section 27 41 16 – PRODUCTION AV SYSTEMS (AD8) both describe assistive listening equipment. This Addendum does not revise either Section.
2. Provide the assistive listening system in accordance with both Sections and Sheet AV001 (AD8). Where they differ, the more stringent requirement and the greater quantity apply, in accordance with General Conditions Section 1.2.1.3.
3. The Electrical Engineer and the Theater Consultant will coordinate the final system configuration during submittal review.

AD12-SP18 Refer to Section 27 13 00 (AD10), Sheet X/T201 (AD10) and Sheet X/T203 (AD10).

1. This Addendum does not revise Section 27 13 00 (AD10).
2. Where Section 27 13 00, Sheet X/T201 and Sheet X/T203 differ in the category of horizontal cabling, jacks or patch panels, provide Category 6A, in accordance with General Conditions Section 1.2.1.3 (higher quality governs).

AD12-SP19 Refer to Section 28 31 00 – FIRE ALARM AND DETECTION SYSTEMS.

1. In a bid question received, a Proposer asked whether a fire alarm system other than Gamewell may be used. Section 28 31 00, Paragraph 2.1.A names Gamewell/FCI as the manufacturer.
2. This Addendum does not revise Section 28 31 00.
3. Another manufacturer may be proposed as a substitution in accordance with Section 01 25 00 – SUBSTITUTION PROCEDURES. The request shall include product data, shop drawings, calculations where applicable, and a point-by-point comparison with each requirement of the Section. The Electrical Engineer and the District will review the request, and acceptance is at their sole discretion.
4. A substituted system shall be fully compatible with the existing campus fire alarm system, including the existing fire alarm control panels and network, annunciation, central station monitoring and the District's existing service and programming arrangements. The request shall show how the substituted system will connect to, communicate with and report through the existing campus system, without loss of any existing function.
5. If the substituted system requires any existing campus fire alarm equipment, software, firmware, licensing, network interface or monitoring equipment to be added, replaced, upgraded or reprogrammed, that work is part of the Contractor's scope and shall be included in the Proposal at no additional cost to the District. This includes revised fire alarm shop drawings and calculations, DSA review of the revised design, testing and recertification of the existing systems affected, and updates to the District's record documents.
6. All Proposers shall base their proposals on a fire alarm system that complies with all requirements of Section 28 31 00 and the Drawings.

AD12-SP20 Refer to Section 32 90 00 – LANDSCAPE CONSTRUCTION.

1. In bid questions received, a Proposer noted that Sheet SD/LI100 and Section 32 90 00 differ on topdressing mulch (Planting Note 14, "Wood Top Dress Mulch", versus Premium Walk-On Bark at a 3-inch compacted depth) and on tree staking (triple staking for box trees on SD/LI100, versus two stakes per tree in Detail 01-SD/LP200 and Paragraph 2.3.A).
2. This Addendum does not revise Sheet SD/LI100 or Section 32 90 00. Where they differ, the more stringent requirement, the higher quality and the greater quantity of work apply, in accordance with General Conditions Section 1.2.1.3. Proposers shall base their proposals on the specified Premium Walk-On Bark at a 3-inch compacted depth, and on triple staking of box trees.
3. The Landscape Architect will confirm the final mulch and staking requirements during submittal review.

AD12-SP21 **Refer to Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS (AD12), Paragraph 1.7.E – Temporary Working Surfaces.**

1. "Building pad working surfaces" are temporary working platforms required to keep the building pad stable and workable for construction traffic during wet weather. The 12-inch aggregate base working platform is not required under the building slab except where needed to maintain a stable working surface.
2. Where a working platform is placed within the building pad, it may remain in place only if it is compacted and tested as engineered fill in accordance with Section 31 20 00 and the geotechnical report and does not reduce the specified under-slab section. Otherwise, remove it before the under-slab base and vapor retarder are placed. The extent of working platforms is determined by the Contractor's means and methods and is not shown on the Drawings.

AD12-SP22 **Refer to Section 09 30 00 – TILE, Article 3.4 – CLEANING.**

1. Delete Paragraph 3.4.B – Cleaning, Removal, Replacement and Repointing of Existing Tile in its entirety, including the allowance of 100 sq. ft. in Subparagraph 3.4.B.2.a. Paragraph 3.4.B applies to existing tile in modernization work. There is no existing tile in Building L.
2. Do not include a tile allowance in the Proposal.

AD12-SP23 **Support of Cabling, Conduit and Pathways Above Suspended Ceilings. Refer to Sections 09 50 00 – ACOUSTICAL CEILINGS, 23 09 23 – DIRECT DIGITAL CONTROL AND ENERGY MANAGEMENT SYSTEM, 26 05 00 – COMMON WORK RESULTS FOR ELECTRICAL and 27 13 00.**

1. Clarification: Section 09 50 00, Paragraph 3.3.C.8.a states that lightweight items, such as a single electrical conduit not exceeding 3/4" nominal diameter, may be attached to the ceiling hanger wires, and Section 23 09 23, Paragraph 1.3.B permits EMS wiring above accessible ceilings to be installed free-air with J-hooks and wire ties. Section 26 05 00, Paragraph 3.1.E and Section 27 13 00, Paragraphs 3.2.G and 3.2.J require independent supports and prohibit attaching cables to the ceiling grid or lighting fixture wires. The acoustical ceiling manufacturer does not permit the suspension system or its hanger wires to carry loads from other trades.
2. Do not attach, support or rest any conduit, raceway, cable, cable bundle, J-hook, pathway, box, device or other item on the acoustical ceiling grid, the ceiling hanger or bracing wires, the ceiling panels, or the lighting fixture support wires.
3. Support all cabling, conduit and pathways above suspended ceilings independently from the building structure, using J-hooks, cable trays, trapezes, or dedicated support wires or rods anchored to the structure above. Space cable supports at 48 to 60 inches maximum in accordance with Section 27 13 00, and support conduit in accordance with Section 26 05 00. Dedicated support wires shall be identified so that they are distinguishable from the ceiling hanger wires. Provide seismic bracing where required.
4. Section 09 50 00, Paragraph 3.3.C.8.a: Delete in its entirety. Section 23 09 23, Paragraph 1.3.B: J-hooks for EMS wiring shall be supported independently from the structure in accordance with this item. This applies to all trades, including electrical, low voltage, fire alarm, EMS/controls, audio-visual and security.

CHANGES TO SHEETS:

GENERAL:

AD12-G01 Sheets and Details Not in Contract – Reference Only.

1. The Bid Documents include campus-wide sheets prepared for Buildings M and Q, which were constructed under a previous phase. The following sheets are Not in Contract and are included for reference only:

    a. Architectural: X/A315, X/A316, X/A317 (Custom Casework – Buildings M and Q); X/A406, X/A408, X/A409, X/A410 and X/A414 (Frame Elevations – Curtain Wall and Storefront, Buildings M and Q); X/A612 (Building Q Feature Wall); SD/A344 (Play Field Light Poles).

    b. Fire Protection: SD/F102 (Phase II Building G-H Fire Pump Room).

2. On typical (X-series) sheets that remain in the Contract, details titled or noted for Building M or Building Q are not part of this Contract, including Details A8, A11, A14 and E11-X/A512 and Details J1 and N1-X/A513 (Building M canopies); Detail A1-X/A611 (Building M Feature Wall); and Details A7 and K1-SD/A306 (Building Q Receiving Enclosure, Building M Electrical Yard Enclosure).
3. Sheet X/A401 – Opening Schedules: The storefront and glass opening schedules for Buildings M and Q are not part of this Contract. Only the Building L openings (opening numbers with an "L" room prefix) apply.

AD12-G02 Sheets Duplicated in the Alternate Bid No. 1 Drawings.

1. The following sheets appear in both the Base Bid Drawings and the Alternate Bid No. 1 Drawings: G000 through G005, SD/A305, SD/A309, SD/X101, SD/X102, SD/LI100, SD/LI200, SD/LI201, SD/LI202, SD/LP200, SD/E100 through SD/E202, X/E001 through X/E112, X/E201, X/E202 and X/E300 through X/E303.
2. The Base Bid sheet, as revised by Addenda, governs for both the Base Bid and Alternate No. 1.
3. The duplicate copies in the Alternate Bid No. 1 Drawings are void. Several of the electrical sheets in the Alternate Bid No. 1 Drawings are earlier revisions without the Addendum 4, 5 and 10 changes and shall not be used.

AD12-G03 Project Address.

1. The project site address is 1850 S. Fowler Avenue, Fresno, CA 93727.
2. Where the title blocks of the Drawings indicate "1760 S Fowler Ave", the address shall read "1850 S. Fowler Ave".

AD12-G04 References to Building M, Building Q and Phase 2 Sheets.

1. Sheets for Buildings M and Q and for Phase 2 are not part of the Bid Documents. Where a Building L or typical (X-series) sheet references one of these sheets, refer to the item of this Addendum listed below:

    a. A1-M/A140 and G4-M/A140 (L/A121.4, L/A601.4 through L/A611.4): refer to AD12-A21.

    b. 8-Q/S801 (X/A605, Detail J1), F-H/S331 (X/A510, Detail J4), B-M/S320 (X/A512, Detail J7) and 7-Q/S521 (X/M105) are not part of the Bid Documents. Anchor and support these items in accordance with the typical structural details on the X/S sheets, as required for the condition. Include this work in the Proposal.

    c. 6-X/S702 and 12-H/S521 (X/A912): refer to AD12-A17.

    d. SD/A503 and SD/A505 (SD/A401, Comments 4 and 5): refer to AD12-A10. SD/A407 (SD/A401, Comment 1, floor stop): not used; floor stops at the site gates are as listed in the Hardware Groups in Section 08 70 00.01 (AD12).

AD12-G05 "ALT BID 4" and "ALTERNATE 4" Designations.

1. Civil Sheets SD/C100.4, SD/C101.4, SD/C300.4, SD/C301.4, SD/C306.4, SD/C400.4, SD/C401.4 and SD/C406.4 carry the title suffix "(ALT BID 4)", and the Landscape .4 sheets carry the subtitle "ALTERNATE 4".
2. All work on these sheets is Base Bid.

AD12-G06 Refer to Sheet G000 – Deferred Approvals.

1. Revise the detail references "13 - X/AV113, 18 - X/AV113" to read "13 - X/AV713, 18 - X/AV713". Sheet X/AV113 does not exist.
2. Deferred Approval Item #1 – Windows, SSG, Storefronts and Curtain Walls, all openings, applies to the Building L storefront, curtain wall and window openings, including glazed window frames, in accordance with DSA IR 24-2.
3. Hollow metal door frames are not deferred approval items.
4. Deferred Approval Item #5 is the telescopic seating in the Black Box Theater L115, provided in accordance with Section 12 66 23 – TELESCOPIC SEATING. Item #4 (Building M) and Item #9 (Building Q) are not part of this Contract.

ARCHITECTURAL:

AD12-A01 Fireproofing and Intumescent Coatings. (Refer to AD12-CPA10)

1. Provide sprayed fireproofing and intumescent coatings on structural steel wherever they are called out on the Drawings. The Drawings, as approved by DSA, govern.
2. Detail A6/G006 – Fire Resistant Ratings does not reduce or delete any fireproofing or intumescent coating called out on the Drawings.
3. Fireproofing and intumescent coatings are called out on, but not limited to, the following:

    a. Sheets L/A501.4, L/A502.4 and L/A503.4: Section General Note 11, "FIRE-PROOFING. For requirements, see Detail 12."

    b. Sheets L/A511.4, L/A512.4 and L/A513.4 (AD9): all notes reading "FIRE-PROOFING, 1-Hour Assembly, See Detail Typical A7-X/A102".

    c. Sheets L/A101.4 through L/A105.4, L/A120.4 and L/A121.4: Floor Plan Legend Note 10, "FIRE ASSEMBLIES FOR STRUCTURAL STEEL".

    d. Sheet X/A201: Notes 16 and 17 (intumescent finish X-19, UL Designs X649 and X650).

    e. Typical Details X/A102, X/A103, X/A104, X/A105 and X/A506 through X/A510, where referenced from the Building L sheets.

4. Sprayed fireproofing shall comply with Section 07 81 16 – FIREPROOFING. Intumescent coatings shall comply with Section 09 91 00 – PAINTING, Finish No. X-19. Provide the UL design, fire-resistance rating and thickness indicated on the Drawings and details for each member.
5. Include all fireproofing and intumescent coatings called out on the Drawings in the Proposal.

AD12-A02 Fire Partitions at Gridlines L3 and LE.

1. The walls at Gridline L3 (between Black Box Theater L115 and Backstage Corridor L117) and at Gridline LE (between Black Box Theater L115 and Corridors L122A and L122B) are 1-hour fire partitions with 20-minute door openings, as indicated on the Building Sections, although the rated wall designation is not shown on the Floor Plans. Construct these walls as 1-hour fire-resistance-rated assemblies, continuous from the floor to the underside of the roof deck or rated assembly above, in accordance with the rated wall assemblies on Sheets X/A101 and X/A102.

2. Openings in these walls are fire-rated: L115c (coiling door, refer to AD12-A13), L115d, L115e and L117b (20 minutes). Refer to AD12-A15.
3. Firestop all penetrations of these walls, including piping, conduit, cable, cable tray, ductwork and structural members, and the joints at the top of the walls, with UL-listed firestop systems rated for the wall, in accordance with Section 07 84 00 – FIRESTOPPING.
4. Duct penetrations shall comply with CBC Section 717.5.4. Refer to the Mechanical Drawings.

AD12-A03 Fire-Rated Wall Assembly Transitions at Door 123b.

1. At Door 123b, construct Wall Assemblies E, F and G as one continuous 1-hour fire-rated assembly using the assembly with the greater number of gypsum board layers on each face.
2. Maintain the rating at the door frame and intersections, and firestop all penetrations and joints per Section 07 84 00 – FIRESTOPPING.

AD12-A04 Depressed Slab at Resilient Wood Flooring.

1. The 4-5/16 inch slab depression shown in Detail J14-L/A141.4 is based on the resilient wood floor system specified in Section 09 64 66 – RESILIENT WOOD FLOOR.
2. The flooring installer shall verify the depression depth against the approved flooring system before the slab is placed and shall notify the Architect of any difference.
3. Slab depressions occur only at Black Box Theater L115 and Drama Room L124, as shown on Sheet L/S201A.4 ("TOC = PER ARCH DETAIL J14 ON SHEET L/A141.4"). No other slabs in Building L are depressed. The restroom slabs are not depressed; they are sloped to the floor drains as noted on Sheet L/S201A.4.

AD12-A05 Mechanical Equipment Supports.

1. Water Chillers WC-L1 and WC-L2: Concrete equipment pads in accordance with Detail K1-X/A508 and Structural Detail 6-X/S527 (Addendum 11, Item AD11-A05).
2. Air Handler AH-L1, in the mechanical room: 8-inch factory curb on a 4-inch concrete housekeeping pad, in accordance with Addendum 11, Item AD11-M01, Section B-L/S319.4 and Structural Detail 16-X/S531. Air Handlers AH-L2 through AH-L5, on the roof: manufactured roof curbs in accordance with Detail J-X/M102 and Section 07 72 00 – ROOF ACCESSORIES. All curbs are furnished and installed by the Contractor. Disregard any note stating that the Architect furnishes equipment curbs.

3. Rooftop pumps: The pump platform shall be a concrete curb support in accordance with Detail 6-X/S527, with the pumps and components anchored in accordance with the Mechanical details.
4. Rough carpentry curbs are not permitted for mechanical equipment.

AD12-A06 Exterior and Interior Dimensional Letter Signage.

1. Exterior dimensional letter signage is not used in Building L.
2. Interior dimensional letters are provided only where called out on Sheet L/A608.4 (Corridor L125: 4-inch letters reading "RECORDING STUDIO", "INSTRUMENTAL MUSIC", "VOCAL MUSIC" and "DRAMA") and Sheet L/A601.4 (Detail J7-X/A603), in accordance with Section 10 05 00 – MISCELLANEOUS SPECIALTIES, Paragraph 2.4.E. Where the wording is not indicated, the wording will be provided by the District during submittal review.

AD12-A07 Toilet Accessories and Hand Dryers.

1. Toilet accessories, including the hand dryers, are Contractor-furnished and Contractor-installed in accordance with Section 10 28 13 – TOILET ACCESSORIES. Refer to Section 01 64 00 – OWNER-FURNISHED ITEMS and delete toilet accessories from the list of Owner-furnished items.
2. The hand dryers at Women L103 and Men L105 shown as "future" on Sheet L/A601.4 are part of this Contract.

AD12-A08 Refer to Sheets SD/A016 (AD11) and SD/A305 – Selective Demolition of Existing Site Improvements.

1. Selective demolition of existing site improvements shown on Sheets SD/A016 (AD11) and SD/A305 and in the SD/A General Notes shall be performed in accordance with Section 31 11 00 – SITE CLEARING and Section 01 73 29 – CUTTING AND PATCHING.

AD12-A09 Refer to Sheet SD/A401 – Site Opening Schedules and Signage Schedule.

1. The site openings in this Contract are Site Gates SG55, SG57 and SG58. Refer to AD12-A10.
2. All other gates and site openings listed on Sheet SD/A401 are outside the Base Bid and Alternate No. 1 limits of work and are Not in Contract.

AD12-A10 Refer to Sheet SD/A401 – Opening Schedule – Site Gates and Enclosure Doors (Phase 3 Alternate Bid No. 4).

1. The site gates in this Contract are SG55, SG57 and SG58, as shown on the Site Plan as revised by Addendum No. 10. They are part of the Base Bid. Revise the schedule title to read "Opening Schedule – Site Gates (Phase 3b)".
2. SG55 (pair of ornamental metal swing gates, 32'-2" x 6'-0"): Revise Hardware Group "662G" to read "232G" (padlocks). The gates are locked open or closed by school staff in accordance with Comment 5. Provide heavy-duty gate hinges, and a drop rod at each leaf with concrete receivers for both the open and closed positions, furnished with the gates.
3. SG56: Delete.
4. SG57: Revise to a pair of hollow metal doors (Door Type "F", flush) in a hollow metal frame in the CMU wall, with a keyed removable mullion. Door Material: HM. Frame: HM. Head: N14-SD/A401. Jamb and Sill: J14-SD/A401. Hardware Group: "982G-KR". Delete Comment 8. Opening: 8'-0" wide (pair of 4'-0" leaves) x 7'-10" ± high. The top of the hollow metal frame head shall align with the top of the masonry wall. The frame head and its ends shall be closed and capped flush, with no gaps or open ends. The doors swing in the direction of exit travel; the exit devices are mounted on the egress side, and the night latch trim, rim cylinder and pull are on the non-egress side.
5. SG58: Add to the schedule. Pair of ornamental metal site gates (Type OM-2), 8'-0" wide x 6'-0" high. Hardware Group: "662G" (deadbolts and Locinox hinge-closers). SG58 is an accessible gate and is not a required exit; exiting is through the hollow metal doors at SG57, which have panic hardware, to the open grass area, which serves as a safe dispersal area. The gates are locked open or closed by school staff in accordance with Comment 5. Provide the following, furnished with the gates:

    a. Lock-open posts: An ornamental metal lock-open post set in concrete at the open position of each leaf, with a keeper to receive the gate deadbolt so that each leaf can be locked in the open position. Detail J7-SD/A505, referenced in Comment 4, is not part of the Bid Documents; this paragraph governs.

    b. Center mullion: A fixed steel center mullion (stop post) anchored in a concrete footing at the center of the opening, with keepers to receive both deadbolts in the closed position. Match the gate finish.

    c. Sign: A sign mounted on the outside face of the gate, as required by Comment 5, stating that when the gate is locked, entry to the campus is through the Administration Building G. Detail A1-SD/A503 is not part of the Bid Documents. Submit the sign text, size, material and mounting to the District for approval.

d. Operation: When the gates are not locked open, they operate as self-closing gates using the Locinox Mammoth-180 hinge-closers. The active leaf has one vandal-resistant pull (Ives VR910 DT, Hardware Group 662G) on the outside face. The other leaf has no outside pull and operates from the inside only. Mount the pull in accordance with CBC Section 11B-404.2.7. Adjust the hinge-closers so that the opening force does not exceed 5 pounds and the closing speed complies with CBC Section 11B-404.2.8.

AD12-A11 Refer to Sheet SD/A102.1 – Existing Electrical Yard Enclosure (B).

1. The note "Existing Electrical Yard Enclosure (B)" is for reference only and is not part of this Contract. No work is required.

AD12-A12 Refer to Sheets SD/C301.4 and SD/C306.4 – Base Bid Concrete Site Improvements.

1. The Base Bid concrete site improvements are shown on Sheets SD/A106.4 (AD11) and SD/A206.4 (AD11), with grading on Sheets SD/C301.4 and SD/C306.4 (AD12). The Architectural site sheets govern the extent and type of paving; the Civil sheets govern grades.

AD12-A13 Refer to Sheet X/A403 – Opening Schedule – Doors 115c and 123a.

1. Opening L115c (coiling door, Black Box Theater L115 to Corridor L122A) is in the 1-hour fire partition at Gridline LE and is fire-rated. Revise the Fire Rating to read "20 Min." Comment 2 remains.
2. Opening L123a remains a 60-minute assembly per Comment 3.
3. Openings L115c and L123a are insulated rolling fire doors, Cornell/Cookson Model ERD20, in accordance with Section 08 33 00 – COILING DOORS. Each door shall be UL labeled for not less than the rating of the opening, shall have UL-listed smoke seals, and shall comply with NFPA 80.
4. Each door shall have the FireFly BB (battery backup) AR-D auto-reset release device specified in Section 08 33 00, integral to the operator, so that the door closes automatically upon a fire alarm signal and upon loss of power. Fire-rated doors shall not have any device that holds them open other than the release device.
5. Fire alarm connection: Each door is connected to the fire alarm system through a relay module in accordance with Sheet L/FA201.4 (AD10), Sheet Reference Note 5 and Detail 13-X/E503 (relay module 1,09 at Opening L115c and relay module 1,68 at Opening L123a). Provide power to the door operators and release devices in accordance with the Electrical Drawings and the manufacturer's requirements.
6. Drop-test each door at completion in accordance with Section 08 33 00 and NFPA 80, in the presence of the Inspector of Record, and reset.

AD12-A14 Refer to Sheet X/A403 – Opening Schedule – Doors 124a and 128Fa.

1. Openings L124a (Drama Room L124) and L128F a (Band Equipment Storage L128F): Revise the blank Frame Type to read "HM-1".

AD12-A15 Refer to Sheet X/A403 – Opening Schedule Doors – Bldg L – Hardware Groups.

1. Opening L115e (Black Box Theater L115 to Backstage Corridor L117) is in the 1-hour fire partition at Gridline L3. Revise the Fire Rating to read “20 Min.”, add Opening Schedule Comments 2 and 15, and revise Hardware Group “66” to read “99R-A” (fire exit hardware). Opening L115e is an exit from Black Box Theater L115 and requires panic hardware.
2. Opening L108a: Revise Hardware Group “70-AA” to read “80-AA”.
3. Opening L123b: Revise Hardware Group “99R-A” to read “99R-60”. Hardware Group 99R-60 is added in Section 08 70 00.01 (AD12) for this 60-minute opening. All hardware at Opening L123b shall be labeled and listed for the 60-minute rating.
4. Openings L124a, L124B a and L125c: Delete Opening Schedule Comments 2 and 15. These openings are not fire-rated. The fire-rated openings in Building L are L115c, L115d, L115e, L117b and L122B b (20 minutes), and L123a and L123b (60 minutes). Refer also to AD12-A13.
5. Acoustical openings (Door Material “AC” or “PAC”): Cam-lift hinges, perimeter seals, door bottoms, astragals and thresholds are furnished with the door assembly under Section 08 34 73 – ACOUSTICAL DOORS AND FRAMES. Omit the corresponding hinge, gasket, automatic door bottom, astragal and threshold items from the scheduled Hardware Group at these openings; provide all other hardware in the Hardware Group. At fire-rated acoustical Opening L115d, the door assembly shall be labeled for 20 minutes and shall achieve the scheduled STC rating.
6. Where Opening Schedule Comment 21 occurs, provide dual gaskets (S773 and S44) per Detail E1-X/A416, whether or not they are listed in the Hardware Group. At fire-rated openings, all gaskets, seals and door bottoms shall be listed for the rating of the opening.
7. Openings L124a and L126a (3'-6" wide): Provide 5" x 4-1/2" hinges in accordance with Section 08 70 00, Paragraph 2.3.A.2.c.
8. Hinge quantity and size shall comply with Section 08 70 00, Paragraphs 2.3.A.2.b and 2.3.A.2.c, where they differ from the Hardware Group.
9. Door stops and holders: Products shall be as listed in Section 08 70 00.01 – HARDWARE SCHEDULE. Details A7-X/A410 and A7-X/A416 govern location and installation only. Floor stop/holders shall not be installed at fire-rated openings.
10. Openings L115d, L117b and L122B b: The doors are held open by the magnetic wall holders in Hardware Groups 99R-QM and 992R-HO and close upon fire alarm activation, loss of power or manual release. Refer to AD12-E08 for the fire alarm connections.

AD12-A16 Refer to Sheets X/A417 and X/A501 – Thin Brick Veneer.

1. Details on Sheets X/A417 and X/A501 noted "THIN BRICK VENEER" are not used in Building L. Thin brick veneer is not part of this Contract.

AD12-A17 Refer to Sheet X/A912 – Stair Details.

1. Detail A1-X/A912 – Concrete Bench is not used in Building L. Sheet X/S702 is not part of this Contract.
2. The note "See Structural detail 6-X/S702" at the stair details and the reference "12-H/S521" (4-inch HSS outrigger) refer to sheets that are not part of the Bid Documents.
3. Refer to Sheet X/S701 for the Building L stair details, and to Detail 10-X/S525 for the 4-inch HSS outrigger.

AD12-A18 Rated Wall Legends.

1. Refer to Sheets L/A101.4 through L/A105.4, L/A120.4 and L/A121.4, Floor Plan Legend Item F18.
2. Revise "2 Hr. Fire Barrier – (1 Hr. Fire Resistive Construction, 90 Min. Door/Window Assemblies)" to read "2 Hr. Fire Barrier – (2 Hr. Fire Resistive Construction, 90 Min. Door/Window Assemblies)".
3. The rated wall legend on Sheet G008 governs the rated wall line types on all floor plan and reflected ceiling plan sheets.

AD12-A19 Refer to Sheet L/A102.4 – Black Box Theater L115.

1. Revise the note "Telescoping Bleachers, Wheelchair seat location…" to read "TELESCOPIC SEATING, Wheelchair seat location…". Telescopic seating is provided in accordance with Section 12 66 23 – TELESCOPIC SEATING (AD8). Section 12 66 13.02 – TELESCOPING BLEACHERS is Not in Contract (AD9-SP10).

AD12-A20 Refer to Sheets L/A121.4, L/A604.4 and L/A614.4 – Toilet Compartments at Restrooms L103, L105, L132 and L133.

1. At each accessible toilet compartment, the front partition and at least one side partition shall provide a toe clearance of 9 inches minimum above the floor, extending 6 inches deep minimum beyond the compartment-side face of the partition, in accordance with CBC Section 11B-604.8.1.4.
2. The note "TOILET PARTITIONS, Full Height Floor Mounted Overhead Braced Toilet Compartments" applies to the non-accessible compartments.

AD12-A21 Refer to Sheet L/A121.4 – Enlarged Floor Plans, and the Interior Elevations on Sheets L/A601.4 through L/A611.4.

1. Note 2 on Sheet L/A121.4, "Locker Bench Base, See Detail A1/M/A140", and the references to Detail G4-M/A140 on the interior elevations refer to a Building M sheet that is not part of the Bid Documents.
2. Revise "A1/M/A140" and "G4/M/A140" to read "E11-X/A608 – Metal Lockers, Bench Pedestal Anchor Detail." Provide the locker benches with pedestal bases anchored to the floor slab, as shown on Detail E11-X/A608 and in accordance with Section 10 51 13 – METAL LOCKERS, at each locker bench shown on the Drawings.

AD12-A22 Refer to Wall Assembly B and Detail E6-L/A141.4 – Black Box Theater at Gridline LF.

1. At Gridline LF, the wall between the Black Box Theater L115 and the adjacent spaces shall have two (2) layers of gypsum board as shown on Detail E6-L/A141.4.
2. Where a wall assembly tag and a section or detail differ, the more stringent requirement governs (General Conditions Section 1.2.1.3).

AD12-A23 Refer to Sheet L/A202.4 – Reflected Ceiling Plan – Black Box Theater L115.

1. Above the tension grid and catwalks in the Black Box Theater L115, the roof deck, structure, ductwork, and exposed piping and conduit are exposed and shall be painted flat black with the dry-fall paint system, Finish No. M-6 – Flat Waterborne Paint (Dry Fall), in accordance with Section 09 91 00 – PAINTING: PPG Super Tech 6-726XI flat dry-fall primer and finish coat, minimum ODFT 4.4 mils, color Flat Black. Apply by spray, and complete the painting before the tension grid and theatrical equipment are installed. Protect the floor, seating and other finished work from overspray.

AD12-A24 Refer to Sheets L/A301.4, L/A302.4 and L/A303.4 – Roof Plans – Built-Up Roof Slope.

1. Refer to the valley of the crickets.
2. Built-up roof field slopes are revised from 1/8 inch per foot to 1/4 inch per foot minimum, in accordance with CBC Section 1507.10.1.
3. Crickets shall be sloped 1/4 inch per foot minimum.
4. Provide tapered insulation as required, and adjust parapet flashing heights and overflow drain inlet elevations to suit.
5. Roof drain and overflow locations are coordinated with Sheet L/P301.4 (AD11).

AD12-A25 Section Callout F1-L/A502.4.

1. On the Building L plans, reflected ceiling plans, roof plans, elevations and sections where Section F1-L/A502.4 is cut, a second callout reading "1-L/A804.4" overlaps the section head. Disregard the "1-L/A804.4" callout.
2. The section reference is F1-L/A502.4.

AD12-A26 Refer to Sheets L/A901.4 and L/A902.4 – Stairs.

1. Sheet L/A901.4, Detail F12 (second floor stair plan): Revise "8'-3" (9 Threads at 11")" to read "9'-2" (10 Treads at 11")". The first floor stair plan, Detail A12, governs the stair run and landing location.
2. Sheet L/A902.4: Revise the section reference "F5/L/A902.4" to read "F5/L/A504.4", and the section reference "J7/L/A504.4" to read "J7/L/A902.4".
3. Stair to Catwalk L210/L211 (Detail J7-L/A902.4): The catwalk walking surface (top of steel) is at +13'-10 1/2" above the first floor, as noted "+13'-10 1/2" TOS CATWALK, TYP" on the Structural Drawings. Refer to AD12-S09. Minimum clear headroom of 6'-8" shall be maintained over the stair and the catwalk walking surface.

STRUCTURAL:

AD12-S01 Tension Grid and Catwalk Design Loads. Refer to Sheet X/S101, Section 11 61 33 (AD8) Article 2.4, Addendum 10 Item AD10-S01 Paragraph D.1, and Sheet L/PR001.4.

1. In response to a bid question, a Proposer noted that Sheet X/S101 lists a 40 psf live load for the tension grid/catwalk, while Addendum 10, Item AD10-S01 sets a 25 psf total design load for the tension grid delegated design, and asked which governs.
2. The tension grid and catwalk shall be designed for 40 psf, as listed on Sheet X/S101, to align with the building code requirements for catwalks and maintenance access. Where Section 11 61 33 (AD8) Article 2.4, Addendum 10 Item AD10-S01 Paragraph D.1, or Sheet L/PR001.4 lists a lower design load, 40 psf governs.

AD12-S02 Rigging Loads. Refer to Sheets L/PR001.4, X/S101, L/S202A.4 and L/S203A.4.

1. The roof framing over the Black Box Theater and the Drama Room is designed for the rigging loads on Sheet L/PR001.4.
2. Unistrut spot rigging beam 50 lb/LF; dead-hung pipe 25 lb/LF; Drama Room pipe grid 25 lb/LF on pipes, 300 lb point load anywhere, 5 psf overall.

AD12-S03 **Elevator Hoist and Fall Beams. Refer to Sheets L/S203A.4, L/S318.4, L/A903.4 and X/S711.**

1. The W6x25 hoist beam shall be rated for 5,000 lb minimum and labeled with its rated capacity. The W6x25 fall beam is the removable safety beam on Sheet L/A903.4. It shall support a 5,000 lb live load, with 2" minimum clearance above the beam. The elevator installer shall remove it before the elevator operates. Connections are per the structural plan and sections.
2. Elevator equipment from a manufacturer other than the basis of design (AD8-SP09) requires review by the Structural Engineer and an approved DSA Construction Change Document before foundation work.

AD12-S04 **Foundation Over-Excavation and Slurry Cap. Refer to Sheets L/S201A.4 and L/S201B.4, Note 2; Section 01 11 13 (AD8) Article 1.9.B; and Section 01 50 00 (AD12) Paragraph 1.7.B.**

1. The "3-inch sand-slurry mix" on the Structural Drawings and the "3-inch-thick lean concrete slurry cap (mud slab)" in Sections 01 11 13 and 01 50 00 are the same material: lean concrete slurry, 100 psi minimum compressive strength at 28 days.
2. The 3-inch over-excavation and slurry cap apply to spread footings, continuous footings, grade beams and the elevator pit. They do not apply to thickened slab edges and interior slab thickenings. Reinforcing clear cover at the bottom of footings is measured from the top of the slurry cap.

AD12-S05 **MEP Upper Attachments at the Roof Deck. Refer to Sheet X/S532 and Sheet X/M104 (AD11), Detail E.**

1. Non-seismic upper attachments for MEP straps and hangers at the roof deck shall be in accordance with Detail E-X/M104, as issued in Addendum 11. References to Detail E-X/M203 for these attachments shall read Detail E-X/M104.

AD12-S06 **Roof Drains. Refer to Sheet L/P301.4 (AD11) and Addendum 8, Item AD8-CPA3.**

1. Add to the AD8-CPA3 note: "Relocated roof drains and overflow drains shall remain at roof low points, shall be shown on the steel and deck shop drawings, and shall be reviewed by the Architect and the Structural Engineer before fabrication. Detail 4-X/S523 applies at every roof drain and overflow drain."

AD12-S07 Refer to Sheet L/S201A.4 – Footing Schedule – Top of Footing Elevation.

1. In response to a bid question, a Proposer asked whether the footing schedule note "top of footing elevation = -1'-6" UNO" for spread footings also applies to continuous footings.
2. The -1'-6" UNO top of footing elevation applies to the pad footings listed in the footing schedule on Sheet L/S201A.4. For continuous footings, refer to the foundation plans, sections and details.

AD12-S08 Refer to Sheet L/S202A.4 (AD8) – Catwalk Framing, Gridlines LB–LF and L3–L6 – W12 Beam to HSS Connection.

1. Add the following note at the connection of the W12 beams to the HSS12x6x1/4:

   Use L5x5x3/8 on each side sim as 3-X/S526.

AD12-S09 Refer to Sheet L/S202A.4 (AD8) – Catwalk and Tension Grid Elevations at Black Box Theater L115.

1. Catwalk: The catwalk walking surface (top of steel) is at +13'-10 1/2". The note "+13'-10 1/2" TOS CATWALK, TYP" on the Structural Drawings is correct and is not revised.
2. Tension grid: The top of the tension grid steel channel is at +19'-6", and the tension grid walking surface is at +19'-2".
3. Sheet L/PR501.4, Detail Section at Upstage Battens: Revise "+19'-6" CATWALK WALKING SURFACE" to read "+19'-6" TOP OF TENSION GRID STEEL CHANNEL". Where other sheets label +19'-6" as a catwalk walking surface, the label shall read "TOP OF TENSION GRID STEEL CHANNEL".
4. Tag the tension grid hanger sizes and spacing on the plan, and note the bottom of hanger plate elevation of +19'-0". Revise the note on Sheet L/S301.4, Section A, "TENSION GRID HANGERS PER L/A140.4", to read "TENSION GRID HANGERS PER PLAN AND 3, 4 AND 5/L/S521.4".

AD12-S10 Refer to Sheet L/S202B.4 (AD8) – Gridlines LH–LK and L2–L4 – HSS Column to HSS Beam Connection.

1. Add the following note:

   HSS12x4x1/2 along GL L2.6 & L3.6 frame over the HSS12.75x0.500 sim as 11-X/S523 except the cap plate can be the same size as the HSS12.75x0.500 with a PJP weld at the top sim as in 7-X/S522.

AD12-S11 Refer to Sheet L/S521.4 – Steel Details, Detail 5 – Tension Grid.

1. Detail 5-L/S521.4 is revised by the notes of Addendum 10, Item AD10-S01, as corrected by AD12-CPA11.

AD12-S12 Refer to Sheet X/S521, Detail 15 – Round Penetration Thru WF Beam.

1. In response to a bid question, a Proposer asked whether Detail 15-X/S521 ("one penetration per beam UNO") applies only above Black Box Theater L115, as referenced on Sheets L/S202A.4 and L/F100.4, and asked for the quantities of reinforced and unreinforced penetrations to include in the steel bids.
2. Omit Sheet X/S521 and replace it with the attached Sheet X/S521, identified as DSA Addendum No. 12. Detail 15 is revised: the "one penetration per beam" note is replaced with a minimum spacing between holes of 3 times the hole diameter or 3 times the beam depth, whichever is more, and a note is added requiring the steel fabricator to review the fire sprinkler locations for the shop drawings and the required beam penetrations.
3. Beam web penetrations per Detail 15-X/S521 are for the fire sprinkler piping. Provide them where the fire sprinkler piping crosses the beams, as shown on L/S202A.4 and L/F100.4. Running the sprinkler piping through the steel frees up the space below the bottom of steel. All penetrations shall be bid as the reinforced condition.
4. The Contractor shall lay out the sprinkler piping and coordinate the space with the other trades on the coordination drawings and steel shop drawings. The fire sprinkler locations take precedence.
5. The number of penetrations is set by the number of sprinkler pipe crossings at each beam, subject to the minimum spacing in revised Detail 15-X/S521. If the layout has 2 or 3 crossings at a beam, then 2 or 3 penetrations are required. Locations and sizes are reviewed by the Structural Engineer with the shop drawings.

PLUMBING:

AD12-P01 Water Heaters. Refer to Sheets L/P201.4, X/P102 (AD11) and X/P201 (AD11).

1. The water heaters in Custodial L104 are two (2) WH-2 units, installed as a manifolded pair in accordance with Detail A-X/P102. Revise the gas note on Sheet L/P201.4 "each WH-1" to read "each WH-2", and the label on Detail A-X/P102 "WH-1 WATER HEATER (TYP.)" to read "WH-2 WATER HEATER (TYP.)".

AD12-P02 Rainwater Leaders. Refer to Sheets L/P101.4 (AD11) and SD/C306.4.

1. Rainwater leaders below grade shall be 3 inches minimum, from the base of each 2-inch steel downspout to the site storm drain point of connection. Revise the "2"SD" labels at these connections on Sheet SD/C306.4 to read "3"SD".

MECHANICAL:

AD12-M01 Indoor and Outdoor Units IDU-L1, IDU-L2, ODU-L1 and ODU-L2. Refer to Sheet X/M203 (AD11) and Sheets L/M301.4, L/M302.4 and L/M401.4 (AD11).

1. Sheet X/M203 (AD11), Indoor Unit Schedule and Outdoor Unit Schedule: Revise the schedules so that they agree with the Mechanical plans, as follows:

    a. IDU-L2, Location: Change "L122 ELEV. EQUIP." to "L108 IDF".

    b. IDU-L2, Condensing Unit: Change "ODU-L1" to "ODU-L2".

    c. ODU-L2, Serves: Change "IDU-L1" to "IDU-L2".

    d. ODU-L2, Model: Change "TRUYAO241HA7ONA" to "TRUYA0241HA7ONA" (same as ODU-L1).

    e. IDU-L1 and ODU-L1 do not change. IDU-L1 is located in Elevator Equipment Room L122 and is served by ODU-L1.

2. Each indoor unit is powered from its outdoor unit ("Power from ODU"). Provide the interconnecting power and control wiring between each indoor and outdoor unit in accordance with the manufacturer's requirements.
3. Refrigerant Piping Sizes: The refrigerant line sizes for the IDU-L1/ODU-L1 and IDU-L2/ODU-L2 systems do not agree between the schedule and the plans. Sheet X/M203 schedules 3/8" liquid and 5/8" suction for both systems. Sheets L/M301.4, L/M302.4 and L/M401.4 (AD11) show 3/8" RL and 3/4" RS piping in some locations, and 1/4" RL and 1/2" RS piping in others, for both systems. These conflicts are resolved as follows:

    a. Size the refrigerant liquid and suction lines for each system in accordance with the equipment manufacturer's installation requirements for the scheduled equipment. Base the sizing on the actual installed routing, equivalent length and elevation difference. Where a size shown on the Drawings differs from the manufacturer's requirement, the manufacturer's requirement governs.

b. Proposals shall include all refrigerant piping, fittings, reducers, insulation, supports, roof and wall penetrations, flashing, and any additional refrigerant charge required, for liquid lines up to and including 3/8" and suction lines up to and including 3/4", along the full routing shown on the Drawings for both systems. No increase in the Contract Sum or the Contract Time will be allowed for providing the line size required by the manufacturer within this range.

c. Before fabrication, submit a refrigerant piping layout for each system with line sizes, equivalent lengths and elevation differences. Include the manufacturer's published piping sizing requirements. Submit with the Section 23 00 01 – HEATING, VENTILATING AND AIR CONDITIONING submittals for review by the Mechanical Engineer.

d. Install, test, evacuate and charge the refrigerant piping in accordance with Section 23 00 01, Paragraph 3.1.D and the manufacturer's requirements.

AD12-M02 Mechanical Equipment Supports and Upper Attachments.

1. Equipment supports for the water chillers, air handlers and pump platform shall be in accordance with AD12-A05. The concrete curb supports at the pumps shall be per Detail 6-X/S527, not 6-X/S523.
2. Non-seismic upper attachments for MEP straps and hangers at the roof deck shall be in accordance with Detail E-X/M104 (AD11). Refer to AD12-S05.

AD12-M03 Refer to Sheet X/M102, Detail J, Note 4 – Hushcore AHU Curb Infill.

1. Hushcore Model DS-45 curb infill, as required by Note 4 on Detail J-X/M102, is required at each air handler mounted on a roof curb. The curb infill shall be furnished by the air handler manufacturer as a factory accessory.
2. Sheet X/M201 – Air Handler Schedule: Add "Hushcore Model DS-45 curb infill (per Note 4, Detail J/X/M102)" to the accessories for each curb-mounted air handler.

AD12-M04 Refer to Sheet X/M201 – Air Handler Schedule.

1. Omit Sheet X/M201 (AD11) and replace with the attached Sheet X/M201, identified as DSA Addendum No. 12. Changes are clouded and identified with Delta 12.
2. Air Handlers AH-L1 and AH-L2: Cooling coils are revised to maintain the temperature and humidity conditions required by Section 09 64 66 – RESILIENT WOOD FLOOR. Refer to AD12-SP12.

3. Air Handler AH-L1: Supply fans are revised from (2) 10 hp to (2) 15 hp motors. Unit electrical data: 460V/3Ø, MCA 78 A, MOCP 110 A. Size the feeder, overcurrent protection and disconnecting means for AH-L1 to the revised data, in accordance with the CEC.
4. AD12-M03, Item 2 and AD12-A05 apply to the reissued sheet.

AD12-M05 Refer to Sheet L/E201.4 – "IDU L1" in Drama Room L124.

1. Refer to AD12-E01. IDU-L1 and ODU-L1 remain in the Contract. The "IDU L1" label in Drama Room L124 is deleted on Sheet L/E201.4 (AD12).

ELECTRICAL:

AD12-E01 Indoor Unit IDU-L1 and Outdoor Unit ODU-L1 – Electrical Connections.

1. Indoor unit IDU-L1 and outdoor unit ODU-L1 remain in the Contract, as scheduled on Sheet X/M203 (AD11) and shown on the Mechanical Drawings.
2. Sheets X/E106 and L/E201.4 are reissued with this Addendum. Refer to AD12-E14 and AD12-E19. Sheet L/E301.4 (AD10) remains in force.
3. Power to ODU-L1 is from Panel LLM1, Circuits 2 and 4 (25A/2P), as shown on Sheet X/E106. Provide the interconnecting power and control wiring between IDU-L1 and ODU-L1 in accordance with the manufacturer's requirements.
4. IDU-L1 is located in Elevator Equipment Room L122, wall-mounted above the door, as shown on Sheets L/M301.4 and X/M203 (AD11) and Detail B-X/M102. Provide the power and control connections to IDU-L1 at that location, as shown on Sheet L/E201.4 (AD12). The power connection to ODU-L1 on the roof shall be per Sheet L/E301.4 (AD10).

AD12-E02 Existing Site Electrical Conduit Stubs West of Building L. Refer to Sheet SD/E201 and Document 00 31 19 – EXISTING CONDITION INFORMATION.

1. The existing site electrical conduits shown extending west of Building L on the as-built information in Document 00 31 19 are not in the location shown. The existing conduit stubs are located west of Building M, on the far side of the fire lane.
2. Before trenching, locate and expose the existing conduit stubs by potholing, and verify their size, quantity and condition. Extend the conduits from the actual stub location to Building L, with the same size and quantity, following the general route shown on Sheet SD/E201.
3. Include in the Proposal the full length of the extension from the actual stub location, including the crossing of the fire lane west of Building M, sawcutting, trenching, backfill, and patching of paving and site improvements to match

existing. Maintain fire apparatus access across the fire lane at all times, using steel plates or phased work as needed.

AD12-E03 **Site Bollard Lights North of Building L. Refer to Sheets SD/E106 and SD/A106.4 (AD11).**

1. The four (4) bollard lights north of Building L shall be located per the Architectural drawings.

AD12-E04 **Existing Medium Voltage Switch #2 and Site Feeder Outages. Refer to Addendum 10, Items AD10-E03, AD10-E04 and AD10-E08.**

1. Outages for the work at existing MV Switch #2 and the interception of the existing site feeders shall be scheduled outside school hours, with 10 working days' written notice to the District. The Contractor and the District will coordinate the timing of this work with the school site principal. Each outage shall not exceed 8 hours. Bidders shall include overtime for weekend work. The Contractor shall provide temporary generator power during the outages to the existing fire alarm, intrusion, data (MDF/IDF) and refrigeration loads.

AD12-E05 **Emergency Lighting. Refer to Sheets L/E101.4EM, L/E102.4EM and L/E103.4EM.**

1. Emergency egress lighting shall comply with CBC 1008.3, including at each flight and landing of Stair L107 and the stair to Catwalk L210/L211. Provide emergency versions of the adjacent AD10 fixture types as required.

AD12-E06 **HVAC Unit Shutdown on Fire Alarm. Refer to Sheets X/E500 (AD10), L/FA201.4 through L/FA204.4 (AD10) and X/M201 (AD12), Air Handler Schedule Note 3.**

1. Air Handlers AH-L1 through AH-L5 shut down on fire alarm through a fire alarm relay module at each unit, as shown on the Fire Alarm Drawings, in accordance with the CMC exception for units shut down by the building fire alarm system. Duct smoke detectors are not required. This is consistent with the other buildings on the campus. Sheet X/M201, Air Handler Schedule Note 3 is revised to read: "Shut down unit on fire alarm through a fire alarm relay module."
2. Sheet L/FA204.4 (AD10), Sheet Reference Note 1: Revise "sheet L/FA201.4" to read "sheet L/FA202.4".

AD12-E07 Fire Alarm Interface with Theatrical Lighting. Refer to Sheets L/FA201.4 and L/FA203.4.

1. Fire alarm relay modules are provided for the theatrical lighting interface. Refer to Reference Note 13 on Sheet L/FA201.4 and Reference Note 4 on Sheet L/FA203.4.
2. Provide the interface wiring from the relay modules to the production lighting control system, and program the production lighting control system to respond to the fire alarm signal in accordance with Section 11 61 83 – PRODUCTION LIGHTING CONTROL SYSTEMS.

AD12-E08 Fire Alarm Door Holders. Refer to Sheet L/FA201.4 (AD10) – Building L First Floor Fire Alarm Plan Area A.

1. Sheet L/FA201.4 shows fire alarm-controlled magnetic door holders (DH) with fire alarm relay modules at Openings L115d (Black Box Theater L115), L117b (Backstage Corridor L117) and L122B b. The door holders are LCN SEM7850, wall-recessed, furnished under Section 08 70 00.01 (Hardware Groups 99R-QM and 992R-HO). Where the Fire Alarm Drawings indicate Gamewell-FCI door holders, provide the LCN SEM7850 holders. Refer to AD12-A15.
2. Connect the door holders in accordance with Sheet Reference Note 12, with 24 V auxiliary power from the fire alarm control panel, as shown on the Fire Alarm Riser Diagram, Sheet X/E500, intercepted by a fire alarm relay module. The doors are held open in normal operation and close on fire alarm, loss of power or manual release. Provide a recessed back box behind each holder, coordinated with the door swing and wall backing.
3. The door holders and relay modules are included in the fire alarm battery calculations. Include them in the fire alarm shop drawings, voltage drop calculations and sequence of operations submitted for DSA approval.

AD12-E09 Automatic Door Operators. Refer to Sheets X/E106, L/E201.4 and L/E202.4 (AD12), Sheet Reference Notes 4 and 5.

1. Openings L101c (Lobby L101) and L130b (Lobby L130) have automatic door operators (Hardware Group 992AO). At each opening, provide a dedicated 120 V, 20 A circuit to the operator (LCN 9542) at the door head and to the exit device power supply (Von Duprin PS902). Provide low voltage raceway and back boxes for the exterior activation post (Detail L1-X/A416), the interior wall actuator, the key switch and the electric power transfer (EPT10), and all wiring in accordance with the manufacturers' instructions. The circuits are Panel LL3, Circuit 38 and Panel LL4, Circuit 35, as shown on Sheets X/E106, L/E201.4 and L/E202.4 (AD12).
2. Where Sheet Reference Note 4 or 5 occurs at other exterior openings, provide the 120 V circuit, raceway and back boxes as shown, terminated in a junction

box with a blank cover for a future operator. Automatic door operators are not provided at those openings.

AD12-E10 Refer to Sheet SD/E101 – Partial Site Lighting Plan:

1. Omit Sheet SD/E101 and replace with the attached Sheet SD/E101, identified as DSA Addendum No. 12.
2. Changes are clouded and identified with Delta 12.
3. Alternate No. 1 – North Parking Lot: The site lighting fixtures, poles and conduit in the Alternate No. 1 area are revised from existing (E) to new (N) and are identified as Bid Alternate #1.
4. Intercept the existing conduit stubs and branch circuits HM1-2,4, HS1-1 and HS1-7 as noted, extend them, and connect them to the new site lighting fixtures as shown.
5. This sheet supersedes Addendum 11, Item AD11-E05, Paragraph 5.

AD12-E11 Refer to Sheet SD/E102 – Partial Site Lighting Plan:

1. Omit Sheet SD/E102 and replace with the attached Sheet SD/E102, identified as DSA Addendum No. 12.
2. Changes are clouded and identified with Delta 12.
3. Site lighting in the Alternate No. 1 area is identified as Bid Alternate #1. Equipment to remain is identified as existing (E), and new work is identified as new (N).
4. Intercept the existing conduit stub and branch circuit HS1-3 from the adjacent fixture, extend it, and connect it to the new site lighting fixture as shown.

AD12-E12 Refer to Sheet SD/E201 – Partial Site Electrical Plan:

1. Omit Sheet SD/E201 and replace with the attached Sheet SD/E201, identified as DSA Addendum No. 12.
2. Changes are clouded and identified with Delta 12.
3. Site electrical work in the Alternate No. 1 area is identified as Bid Alternate #1. Conduit and equipment designations are revised from existing (E) to new (N) where clouded, including the new (4) 4" conduit runs.

AD12-E13 Refer to Sheet SD/E202 – Partial Site Electrical Plan:

1. Omit Sheet SD/E202 and replace with the attached Sheet SD/E202, identified as DSA Addendum No. 12.
2. Changes are clouded and identified with Delta 12.

3. Site electrical work in the Alternate No. 1 area is identified as Bid Alternate #1. Conduit and equipment designations are revised from existing (E) to new (N) where clouded, including the new (4) 4" conduit runs.
4. The note requiring 120V power and a ground connection with disconnect switch to the irrigation controller (circuit LS1-58,60) is deleted. The irrigation controllers are existing. A "WIU GFI" receptacle is added as shown.

AD12-E14 Refer to Sheet X/E106 – Electrical Schedules.

1. Omit Sheet X/E106 and replace with the attached Sheet X/E106, identified as DSA Addendum No. 12. Changes are clouded and identified with Delta 12.
2. Panel LL3, Circuit 38 and Panel LL4, Circuit 35 are added for the automatic door operators. Refer to AD12-E09.

AD12-E15 Refer to Sheet X/E201, Detail 1 – Slurry Backfill at Electrical Trenches.

1. Detail 1-X/E201 – Conduit in Trench, including slurry backfill, applies at all locations where underground lighting, electrical and low voltage conduits are installed.

AD12-E16 Refer to Sheet X/E201, Details 2, 5 and 8 – In-Ground Pull Boxes.

1. All pull boxes 2' x 3' and larger shall be in accordance with Detail 2-X/E201.
2. Details 5 and 8-X/E201 are for 6-inch concrete ground rod boxes and do not apply to pull boxes 2' x 3' and larger.

AD12-E17 Refer to Sheet X/E204, Details 3 and 6 – Sound-Rated Partitions.

1. Details 3 and 6-X/E204 apply at all sound-rated partitions and fire-rated walls shown on the Architectural Drawings.
2. Sound-rated partitions are the walls indicated on the Architectural Drawings with an STC rating or with sound deadening board. Provide acoustical putty pads per Details 3 and 6-X/E204 at all electrical boxes in those walls and in fire-rated walls.

AD12-E18 Refer to Sheet X/E500 – Fire Alarm Raceways.

1. All fire alarm system wiring shall be installed in conduit or raceway, minimum 1-inch conduit, for the entire circuit and not only the home run (Reference Note 2, Sheet X/E500).

2. Provide separate dedicated conduits for signaling (notification) devices and initiating devices, as indicated on the fire alarm riser diagram and Sheets L/FA201.4, L/FA202.4 and L/FA203.4.

AD12-E19 Refer to Sheets L/E201.4 and L/E202.4 – Building L First Floor Electrical Plans, Areas A and B.

1. Omit Sheets L/E201.4 and L/E202.4 and replace with the attached Sheets L/E201.4 and L/E202.4, identified as DSA Addendum No. 12. Changes are clouded and identified with Delta 12.
2. Circuits are added for the automatic door operators at Openings L101c and L130b. Refer to AD12-E09.
3. The "IDU L1" label in Drama Room L124 is deleted. Refer to AD12-E01.

PRODUCTION – AUDIO VISUAL, LIGHTING AND RIGGING:

AD12-PR01 Refer to Sheets L/PR501.4 and L/PR502.4 – Tension Grid Details. (Refer to AD10-S01 and AD10-PR01)

1. Revise all notes reading "(UNDER STRUCTURAL WORK)", "(SSD)" and "(PLATE BY STRUCTURAL)" on Details 4, 7 and 10 to read "BY TENSION GRID DELEGATED DESIGNER, DEFERRED APPROVAL ITEM #7", except the roof steel, vertical HSS hangers and hanger bracing listed in Addendum 10, Item AD10-S01, Paragraph A.

CIVIL:

AD12-C01 Site Logistics and Fire Access During Construction.

1. Before mobilization, the Contractor shall submit a site logistics plan for District approval showing the staging fence, construction entrances, the temporary fire apparatus access route to the occupied campus and Buildings H, J and M, hydrant access, and the student separation fencing, in accordance with CFC Chapter 33 and Section 01 50 00.

AD12-C02 Refer to Sheet SD/C306.4 – Partial Grading and Drainage Plan.

1. Omit Sheet SD/C306.4 and replace with the attached Sheet SD/C306.4, identified as DSA Addendum No. 12. Changes are clouded and identified with Delta 1.

2. The finished grades and storm drainage at the concrete site improvements south and west of Building L are revised, including the storm drain inlet and 6-inch storm drain connection to the existing 8-inch storm drain, as shown.
3. Refer to AD12-G05 for the "ALT BID 4" designation. Refer to AD12-A12.

AD12-C03 Refer to Sheet SD/C406.4 – Partial Utility Plan.

1. Omit Sheet SD/C406.4 and replace with the attached Sheet SD/C406.4, identified as DSA Addendum No. 12. Changes are clouded and identified with Delta 1.
2. The sewer lateral and cleanout at the west side of Building L, and the fire service piping south of Building L, are revised as shown.
3. Refer to AD12-G05 for the "ALT BID 4" designation.

AD12-C04 Refer to Sheet SD/C407 – Utility Plan – New Drywell at the North End of the Tennis Courts.

1. Add Sheet SD/C407, identified as DSA Addendum No. 12. The scope on this sheet is limited to the drywell.
2. In response to a bid question regarding drainage at the northeast corner of the tennis courts, install a new drywell in the landscaped planter north of the tennis courts, in accordance with the Dry Well detail on Sheet SD/C407. Provide a 12-inch by 12-inch catch basin connected to the drywell with 4-inch drain pipe, and an 18-inch-wide concrete mow strip around the catch basin. Regrade the surrounding area and provide new ground cover. Coordinate the final drywell location with the District.
3. Include the drywell work and the restoration of the planter and irrigation in the Base Bid.

LANDSCAPE AND IRRIGATION:

AD12-L01 Landscape and Irrigation Limit of Work. Refer to Sheet SD/LI100 and the Landscape and Irrigation Sheets issued in Addendum 11.

1. In response to bid questions, a Proposer asked for the limit of the Building L landscape and irrigation work, since Sheets SD/LI101.4, SD/LI106.4 and SD/LP101.4 also show new mainlines, valves and trees at the parking lot areas and at the Building M and H areas, and asked whether the campus-wide tracing and mapping of the existing Baseline two-wire paths and irrigation mainlines required by Sheet SD/LI100 is in the Building L scope.
2. Base Bid: The landscape and irrigation limit of work is the work indicated on the Landscape and Irrigation Sheets issued in Addendum 11 (AD11-L01 thru AD11-L11).

3. The tracing and mapping of the existing Baseline two-wire paths and irrigation mainlines required by Sheet SD/LI100 is limited to the work within these limits and its points of connection to the existing systems.

AD12-L02 **Irrigation Sleeves. Refer to Section 32 84 00 (AD11), Paragraphs 2.2.A.4 and 3.4.A, Detail Z-SD/LI202 and the legend on Sheet SD/LI100.**

1. In response to a bid question, a Proposer noted that Section 32 84 00 calls for Schedule 40 PVC sleeves for 2" through 3" and Class 200 PVC sleeves for 4" and larger, while Detail Z-SD/LI202 and the legend on Sheet SD/LI100 call for Schedule 40 PVC for all sleeves.
2. All irrigation sleeves shall be Schedule 40 PVC, sized as shown on the Drawings. In Section 32 84 00, Paragraphs 2.2.A.4 and 3.4.A, delete the Class 200 PVC requirement for sleeves 4" and larger.

AD12-L03 **Trees and Plant Material. Refer to Sheet SD/LI100 and the Landscape and Irrigation Sheets issued in Addendum 11.**

1. In response to bid questions, a Proposer asked whether the trees shown in the paving along the loading drive on Sheets SD/LI101.4 and SD/LP101.4, which have no irrigation shown, are existing or new, and whether only the plants shown on the planting sheets are included, since the Plant Legend on Sheet SD/LI100 lists Baccharis pilularis 'Twin Peaks', Dietes bicolor, Muhlenbergia capillaris 'Regal Mist', Laurus nobilis and Quercus lobata, which do not appear on the planting sheets.
2. The existing trees along the loading drive were removed, and no trees are shown there on the Landscape and Irrigation Sheets issued in Addendum 11. No trees or tree irrigation are required along the loading drive.
3. Plant material: Only the plants shown on the planting sheets are included. Plants listed in the Plant Legend on Sheet SD/LI100 that do not appear on the planting sheets are not part of this Contract.

AD12-L04 **Decomposed Granite and Synthetic Turf. Refer to Sheets SD/LI200 and SD/LP200 (AD11) and Sheet SD/LP200 in the Alternate Bid No. 1 Drawings.**

1. In response to a bid question, a Proposer asked whether the decomposed granite and synthetic turf details on Sheet SD/LP200 in the Alternate Bid No. 1 Drawings apply.
2. Decomposed granite and synthetic turf are not part of this Contract. Sheets SD/LI200 and SD/LP200, as reissued in Addendum 11, do not include these details. The copy of Sheet SD/LP200 in the Alternate Bid No. 1 Drawings is void in accordance with AD12-G02, and its decomposed granite and synthetic turf details do not apply.

END OF ADDENDUM NO. 12

BID ADDENDUM 5 – DSA ADDENDUM NO. 12 – ATTACHMENT: ALLOWANCES SUMMARY

Sanger Education Complex – Phase 3b, Building L · Darden Project No. 2171.L · DSA Appl. No. 02-120779 · 10/20/2026

Category	Allowance	Amount ($)	Source	Status / Notes	Addendum Ref.
1. General Contingency (RFPQ)					
General contingency	General contingency allowance	$800,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance; included in the Base Bid lump sum (AD9-CBC01).	AD9-CBC01
2. Special Allowances (RFPQ – $500,000 total)					
Special allowance	Unanswered RFIs	$20,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Floor protection maintenance	$20,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Base protection is base work; allowance for Owner-directed additional work (AD12-CBC17).	AD9-CBC01
Special allowance	Crane pads	$25,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Water intrusion consultant/testing	$20,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Elevator modifications & temp usage	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Weather protection and fireproofing	$30,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Modifications as a result of deferred approvals	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Tied to deferred-approval modifications by AD9-CBC10.	AD9-CBC10
Special allowance	Signage changes	$10,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Additional vapor alkyl control/remediation	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Base 07 18 50 membrane is a Bid Form line item; allowance covers extra remediation only (AD12-CBC17).	AD9-CBC01
Special allowance	Chain link and ornamental fencing	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Fencing shown is base work; allowance for Owner-directed additions (AD12-CBC17).	AD9-CBC01
Special allowance	Temporary acclimation	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Security alarm additional provisions	$50,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
Special allowance	Mattox transformers/SSS bypass	$75,000	RFPQ Sec. III.D; Lease-Leaseback Agreement Art. 4	Owner allowance (AD9-CBC01).	AD9-CBC01
	Subtotal – special allowances	**$500,000**		**RFPQ states $500,000.**	
	TOTAL – contingency + special allowances	**$1,300,000**		**RFPQ total $1,300,000; carried in the Base Bid, not in Alternate No. 1 (AD9-CBC01).**	
3. Other Allowances in the Bid Documents					
Drawing note	Allowance equal to 2% of the bid for structural steel, misc. iron and reinforcing steel, used at the discretion of the Structural Engineer	2% of steel bid	Sheet X/S101, General Note 8	Remains in the Contract. Include in the Base Proposal Amount and list as a separate line item in the Schedule of Values. Owner approval required for use.	AD12-CBC17
Specification	Allowance of 100 sq. ft. max. of existing tile replacement		Section 09 30 00 – Tile, Para. 3.4.B.2.a	Deleted. Paragraph 3.4.B applies to existing tile in modernization work; there is no existing tile in Building L. Do not carry a tile allowance.	AD12-SP24
4. Called "Allowance" but Not a Money Allowance					
Time	Adverse weather – 2.5 months cumulative rain delay within the 548-day Contract Time		01 11 13 (AD8) 1.9.A; 01 50 00 (AD9) 1.7.A	Time allowance included in the Contract Time.	AD12-CBC13
Bid Form line item	Vapor-alkalinity control membrane (base system)		Section 07 18 50, Para. 1.1.C	Listed as a Bid Form line item and included in the Base Bid; not an allowance.	

Amounts are from RFPQ Section III.D and Lease-Leaseback Agreement Article 4. All allowances are Owner allowances; refer to AD9-CBC01 and AD12-CBC17. The 2% steel allowance (Sheet X/S101) is in addition to the $1,300,000.

EXHIBIT B - Prequalification Certification

I, _____, am authorized to represent _____ *[insert name of proposing LLB entity]* and sign this certification on its behalf to accompany the proposal that _____ *[insert name of proposing LLB entity]* is submitting for the SANGER WEST HIGH SCHOOL, BUILDING L CONSTRUCTION PROJECT lease-leaseback contract ("Contract"). I certify and declare that:

- _____ *[insert name of proposing LLB entity]* was previously prequalified by the Sanger Unified School District ("District") to submit bids and proposals on District public works contracts;
- The District issued such prequalification on _____, 2026;
- To the best of my knowledge, such prequalification has not expired; and
- The scope of such prequalification covers the Contract.

In addition, I certify and declare that: *(Choose one)*

☐ The answers and financial statements of _____ *[insert name of proposing LLB entity]* submitted in response to the previous prequalification questionnaire are still accurate and complete, and require no updated information.

☐ Some of the answers and/or financial statements of _____ *[insert name of proposing LLB entity]* submitted in response to the previous prequalification questionnaire are no longer accurate and complete, and updated information is required. Attached is a separate sheet setting forth all such updated information and answers. I understand that if this prequalification certification if submitted after the deadline for prequalification for this Contract, and if any of the updated information attached to this certification would result in my company not being prequalified for this Contract, the District reserves the right to discard and not consider my company's lease-leaseback proposal.

I understand that any statement which is proven to be false shall be grounds for disqualification of _____ *[insert name of proposing LLB entity]* from submitting a proposal for the Contract. I represent and warrant that I have authority to bind _____ *[insert name of proposing LLB entity]*.

I certify and declare that I have read all the foregoing answers in this certification and all of the documents mentioned in the certification above, and know their contents. The matters stated in this certification are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California, that the foregoing is correct.

Executed this _____ day of _____, 2026, at _____.

_____ _____

Signature Name of Proposing Contractor

_____

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END OF SECTION

SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely install all Temporary Utilities, Support Facilities, and Protection Facilities materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. ALL DIVISION 00 SPECIFICATION SECTIONS.
   2. ALL DIVISION 01 SPECIFICATION SECTIONS.
   3. ALL SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
   4. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
   5. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
   1. Shop Drawings:
      a. Project Sign.
   2. Quality Assurance/Control Submittal:
      a. Copy of Application to APCD for Dust Prevention and Control Plan.
      b. Copy of approved Application to APCD for Dust Prevention and Control Plan.
      c. Copy of Application to local City or County Engineer for Traffic Control.
      d. Copy of approved Application to local City or County Engineer for Traffic Control.
      e. Temporary Project Enclosure Plan.
      f. Site Safety Plan prior to initial filing of Construction Start Notice/Inspection Card Request.
      g. Pre-Construction Condition Documentation: Video recordings, photographs, and storm drain CCTV inspection video and report in accordance with Article 3.10.
      h. Pothole Log: Record of existing utilities exposed by hydro-excavation in accordance with Article 3.13.
      i. Pre-Construction Sanitary Sewer CCTV Inspection: Video and inspection report of the existing sanitary sewer at the point of connection in accordance with Article 3.14.
      j. Rough-In Waste Line CCTV Inspection: Video and inspection report of below-slab and below-grade plumbing waste lines, submitted before placing concrete, in accordance with Article 3.14.
   3. Closeout Submittals:
      a. Post-construction storm drain CCTV inspection video and report in accordance with Article 3.12.
      b. Post-construction plumbing waste line CCTV inspection video and report in accordance with Article 3.14.

1.3 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
      a. CARB — Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the project is located.

b. CAL/OSHA California Division of Occupational Safety and Health Administration
c. CF County of Fresno, Codes and Ordinances
d. EPA Environmental Protection Agency

B. Dust Prevention and Control Plan:
1. Prior to commencing the Work, prepare a Dust Prevention and Control Plan and obtain review and approval of the Air Pollution Control District (APCD) in the area where the project is located.
a. Prepare application and file with appropriate fees to APCD upon completion of Dust Prevention and Control Plan.
2. The Dust Prevention and Control Plan shall specify the methods of control that will be utilized, demonstrate the availability of needed equipment and personnel, and identify a responsible individual who, if needed, can authorize implementation of additional measures.
3. All construction shall comply with applicable elements of the APCD's regulations.
4. The Dust Prevention and Control Plan shall include, but not be limited to, the following:
a. Contractor's name and project identification information.
b. Procedures and measures to be implemented, but not be limited to:
1) All material excavated or graded shall be sufficiently watered to prevent excessive amounts of dust.
2) During periods of high winds, all clearing, grading, earth moving, or excavation shall cease when dust control measures are unable to avoid visible plumes.
3) All dust producing material transported off site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.
4) The area disturbed by clearing, earth moving, or excavation activities shall be minimized at all times.
5) All watering of areas shall be only to the extent required to keep the soil particles in a moist condition and not to the extent that erosion of surface soil occurs.
6) To control general fugitive dust, on-site vehicle speed shall be limited to 15 mph.
7) All areas with vehicle traffic shall be watered periodically for stabilization of dust emissions.
8) Periodically streets adjacent to the project site shall be cleaned as required to remove silts which may have accumulated from construction activities.

C. Traffic Control Plan:
1. Prior to commencing the Work, prepare a Traffic Control Plan and obtain approval of the local City or County Engineer in the area where the project is located.
a. Prepare application and file with appropriate fees to the local City or County Engineer upon completion of Traffic Control Plan.
2. The Traffic Control Plan shall include information on construction timing and phasing and proposed methods of alleviating potential hazardous and/or inconvenient conditions. Such methods can include, but are not limited to, the use of flagmen, barricades, signs, warning lights, detours, phased lane closures, coordination with adjacent property owners, and coordination with law enforcement, fire protection and other emergency service agencies.

1.4 SITE SAFETY PLAN

A. Contractor shall be responsible for the development, implementation, and maintenance of a written plan establishing a site safety plan at the project site applicable throughout all phases of the construction, repair, alteration, or demolition work.

B. It is the Contractor's responsibility to contact local Fire Authority to discuss the plan.
1. A copy of the report should be made available to the Project Inspector and local Fire Authority.
2. Plan will be turned over to the Owner and AHJ in compliance with rules and regulations, but will not be reviewed.

C. Regulatory References:
1. DSA BU 24-05 Bulletin: Fire Safety During Construction and Demolition.
2. CFC Chapter 33, Section 3308 and sub-sections.

D. Plan shall address at a minimum:
   1. Project Phases.
      a. Describe each phase of the construction, repair, alteration, or demolition work.
   2. Site Security Provisions.
   3. Site Safety Director.
      a. Designate responsible program superintendent per CFC 3308.2.
      b. Include name and contact information.
   4. Training Documentation.
      a. Document training of site safety director and fire watch personnel.
   5. Emergency Reporting Procedures.
   6. Fire Department Vehicle Access Routes.
   7. Locations of fire protection equipment.
      a. Include portable fire extinguishers, standpipes, fire department connections and fire hydrants.
   8. Smoking and Cooking Policies.
      a. Include designated area to be used where approved, and signage locations in accordance with CFC Section 3305.8.
   9. Temporary Heating Equipment.
      a. Location and safety considerations.
   10. Hot Work Operations.
   11. Control Plan for Combustible Waste.
   12. Control Plan for Flammable and Combustible Materials.
      a. Locations and methods for storage and use of flammable and combustible liquids and other hazardous materials.
   13. Renovation Work Procedures.
      a. Procedure for impairment of fire protection systems.
      b. Procedure for temporary covering of fire protection devices.
   14. Procedure for Changes.

1.5 TEMPORARY PROJECT ENCLOSURE PLAN

A. Prior to commencing the Work, prepare a Temporary Project Enclosure Plan indicating the protection of people, animals, and partial and fully completed work until occupancy by the Owner.

B. Identify temporary egress from existing occupied facilities and as required by authorities having jurisdiction.

C. The Temporary Project Enclosure Plan shall include, but not be limited to, the following:
   1. Contractor’s name and project identification information.
   2. Indicate the duration of the proposed measures based on the completion of the work as a whole and if any phases of work are identified.
   3. Indicate proposed temporary fencing and potential exit and entry paths.
      a. Show gate and door locations and indicate who has access.
   4. Indicate proposed temporary wall location(s) and potential exit and entry paths.
      a. Show door location(s) and indicate who has access.
   5. Indicate type of material used for temporary fencing, walls, gates, and doors.
   6. Indicate proposed temporary roads and paved areas.
   7. Indicate proposed temporary offices and storage areas.

1.6 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Heating and Cooling:
      a. Provide temporary heating and cooling required by construction activities for curing, acclimating the building or drying of completed installations or for protecting installed

construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed, and is maintained prior, during and after the installation in accordance with the exterior or interior building materials temperature and humidity guidelines.

1) Do not use heating units that contribute moisture to the enclosed spaces under construction.

2. Ventilation and Humidity Control:
   a. Provide temporary ventilation required by construction activities for curing, acclimating the building or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
      1) Exterior Moisture Control:
         a) Perform the installation of all exterior building cladding only after the substrate to which they are being applied is dry and ready to receive them. Do not apply any cladding if it will trap moisture inside a wall or roof cavity (i.e. insulation that has become wet for whatever reasons).
      2) Interior Moisture Control:
         a) Perform the installation of all interior moisture sensitive building materials only after the building or space is acclimated to the final environmental conditions under which the building is to be operated in accordance with the Owner's humidity control guidelines.
   b. Maintain a consistent humidity in accordance with the guidelines for those materials in the space at least seven (7) days prior to installation of any moisture sensitive materials (i.e. Veneer Plaster, Gypsum Board, Ceiling Tiles, Wood Sensitive Floors, other Flooring sensitive to moisture levels, Interior Painting, etc.).
   c. Maintain the same levels of temperature and humidity during the installation of those materials, and after the installation of those materials until the building's own mechanical systems can be turned on to maintain the facility within the Owner's temperature and humidity control guidelines.
   d. Replace any materials that have become wet and damaged due to the Contractor not properly protecting installed building materials at no additional cost to the Owner.
   e. Resilient Wood Flooring: In the spaces receiving flooring under Section 09 64 66 – RESILIENT WOOD FLOOR, maintain the temperature and relative humidity conditions required by Section 09 64 66, Paragraphs 1.6.C and 1.7.A (60°F to 90°F; 35% to 50% RH) for a minimum of fourteen (14) days before installation, during installation, and after installation until the Owner assumes occupancy. Provide the temporary heating, cooling, dehumidification and monitoring required by Addendum 12, Item AD12-SP12. Include all costs in the Contract Sum.
3. Dust control:
   a. Perform work in a manner as to minimize the spread of dust and flying particles.
   b. Thoroughly moisten all surfaces as required to prevent dust from being a nuisance to the public, neighbors and concurrent performance of other on-site work.
4. Burning: No burning will be allowed on-site.
5. Noise Control:
   a. Stationary noise sources shall be of a low-noise emission design, consistent with the best available noise reduction technology.
   b. The hours of operation of noise-generating equipment shall be restricted to 6:00 a.m. to 7:00 p.m. Monday through Friday, and to 8:00 a.m. to 6:00 p.m. on Saturday and Sunday.
   c. Mufflers shall be required on all gas and diesel-powered equipment.

B. Existing Conditions:
1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for

extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.

1.7 SCHEDULE, ADVERSE WEATHER, EXCAVATION PROTECTION, SOIL STABILIZATION, AND TEMPORARY WORKING SURFACE REQUIREMENTS

A. Adverse Weather Planning: The Contractor shall include within the Contract Time and Contract Sum an allowance for 2.5 months of cumulative rain delays and associated impacts. The Project is anticipated to experience significant and prolonged wet weather conditions during the construction period.

1. The Contractor shall be solely responsible for planning and executing all operations necessary to maintain progress during wet weather, including but not limited to:
    a. Temporary drainage systems.
    b. Dewatering operations.
    c. Soil stabilization.
    d. Erosion and sediment control measures.
    e. Access road maintenance.
    f. Protection of excavations.
    g. Pumping, diversion, and removal of stormwater.
    h. Rehandling of materials affected by weather.
2. No additional compensation or time extension shall be granted for normal seasonal rainfall, wet soil conditions, groundwater management, or other foreseeable weather-related impacts included within this allowance.

B. Foundation Excavation Protection and Slurry Cap: All building foundations shall be excavated 3 inches deeper than the elevations shown on the Contract Documents.

1. Immediately upon approval of the foundation bearing surface, the Contractor shall place a 3-inch-thick lean concrete slurry cap (mud slab) over the entire footing excavation bottom. The slurry cap shall:
    a. Protect the approved bearing surface from disturbance.
    b. Prevent degradation of foundation subgrade due to rain and groundwater.
    c. Allow removal of sloughed or softened material without disturbing approved bearing soils.
    d. Facilitate cleanout of foundation excavations following storm events.
2. Any sloughed, softened, or otherwise unsuitable material deposited above the slurry cap shall be removed immediately prior to footing construction. The Contractor shall maintain excavations in a dry and stable condition at all times.

C. Excavation Sidewall Stabilization: Where foundation excavations are anticipated to remain open during rainy periods, the Contractor shall provide temporary sidewall protection to minimize erosion, sloughing, and sediment migration into excavations.

1. Acceptable methods include:
    a. Burlap lining.
    b. Jute matting.
    c. Erosion control blankets.
    d. Geotextile fabrics.
    e. Other approved temporary stabilization systems.
2. The stabilization material shall be securely anchored and maintained throughout the duration of the excavation. Excavation sidewalls shall be inspected following each rain event and repaired as necessary prior to continuation of work.

D. Utility Trench Operations: Utility trench work shall be sequenced to minimize the duration of open trench conditions.

1. Except where specifically approved by the Owner or Engineer, the Contractor shall:
    a. Excavate, install utilities, test, and backfill within the same work shift whenever practical.
    b. Minimize the total length of open trench exposed at any one time.
    c. Prevent surface water from entering excavations.
    d. Maintain trenches free of standing water.
    e. Restore all disturbed areas immediately following utility installation.

2. Open utility trenches shall not be left exposed during forecasted rain events unless specifically approved and adequately protected. Following rain events, all trenches shall be inspected, cleaned, reconditioned, and restored to design grade prior to utility installation or backfilling. Water accumulation and saturated trench conditions require corrective measures and reinspection before work proceeds.

E. Temporary Working Surface and Soil Stabilization: The Contractor shall provide and maintain temporary soil stabilization sufficient to support construction traffic, deliveries, equipment operations, emergency access, and the work of all trades throughout the Project duration. Areas exhibiting rutting, pumping, excessive moisture, loss of bearing capacity, or unstable soil conditions shall be stabilized at the Contractor's expense.

1. At a minimum, the Contractor shall provide temporary all-weather construction access roads, staging areas, crane pads, and building pad working surfaces consisting of:
    a. Nonwoven geotextile separator fabric placed directly on prepared subgrade.
    b. Geogrid reinforcement where pumping, yielding, or unstable subgrade conditions are encountered.
    c. A minimum of 12 inches of compacted Class II aggregate base, crushed rock, or approved equivalent working platform material.
2. The Contractor shall increase section thickness and geogrid reinforcement as necessary to maintain a stable, trafficable surface for construction operations. Alternative stabilization methods may include:
    a. Lime treatment.
    b. Cement treatment.
    c. Chemical stabilization products.
    d. Aggregate working platforms.
    e. Geotextile reinforcement systems.
    f. Geogrid reinforced working surfaces.
    g. Other Engineer-approved methods.
3. The intent of this requirement is that construction operations remain functional during periods of wet weather and that trade contractors are able to perform work without excessive delays resulting from muddy, pumping, or unstable soil conditions.

F. Contractor Responsibility: The Contractor shall be solely responsible for all means and methods associated with temporary works, weather protection, excavation protection, dewatering, soil stabilization, access maintenance, erosion control, sediment control, and maintenance of suitable working conditions.

1. Claims for additional compensation associated with foreseeable wet-weather impacts, unstable soil conditions, excavation deterioration, trench collapse, groundwater management, access maintenance, pumping soils, or insufficient temporary stabilization measures shall not be considered. The Contractor shall include all costs associated with these requirements in its bid.

G. Acknowledgment of Anticipated Conditions: The Contractor acknowledges that the Project will be constructed during the rainy season and that periods of prolonged precipitation, saturated soils, difficult excavation conditions, groundwater intrusion, pumping subgrades, and reduced site accessibility are anticipated conditions and have been included in the Contractor's bid and schedule.

H. Coordination with Related Sections: This Article supplements, and shall be coordinated with, the Project's Geotechnical Investigation Report and Division 31 – Earthwork specification sections for this Project. Where a conflict occurs between this Article and those references, the more stringent requirement shall govern.

I. Building Protection & Weather-Tight Construction: The Contractor shall protect all existing facilities, newly constructed work, partially completed construction, installed materials, equipment, building systems, and finishes from damage caused by rain, wind, groundwater, surface runoff, dust, temperature extremes, and other environmental conditions throughout the duration of the Project.

1. The Contractor shall continuously implement and maintain temporary protection measures necessary to prevent water intrusion and deterioration of the Work. Protection measures shall

include, but not be limited to, temporary roofing, waterproof coverings, weatherproof enclosures, temporary walls, protection of openings, stormwater diversion measures, tarping, shrink-wrap systems, pumping, dehumidification, and other measures required to maintain the Work in a dry and protected condition.

2. Materials and equipment stored on-site shall be elevated above grade, adequately covered, and protected from weather exposure, standing water, and moisture accumulation. Moisture-sensitive materials shall not be installed until substrates and surrounding conditions comply with manufacturer requirements.
3. The Contractor shall maintain all newly constructed buildings, additions, renovated areas, and partially completed construction in a weather-tight condition as Work progresses. No portion of the Work shall be enclosed, covered, or concealed while moisture is present within assemblies or construction materials beyond manufacturer-recommended limits.
4. The Contractor shall take all necessary precautions to prevent water intrusion into occupied areas, completed construction, concealed spaces, wall assemblies, ceiling assemblies, electrical rooms, communication rooms, mechanical spaces, and areas designated to receive moisture-sensitive finishes or equipment.
5. Following each storm event, the Contractor shall inspect the Project and immediately repair deficiencies in temporary protection systems. Any water intrusion, moisture damage, mold growth, corrosion, deterioration, staining, warping, contamination, or damage resulting from inadequate protection shall be corrected by the Contractor at no additional cost to the Owner.
6. Any materials, finishes, equipment, systems, or completed Work determined to be damaged as a result of weather exposure or inadequate protection shall be removed and replaced with new materials meeting the Contract Documents. Drying, cleaning, repair, and restoration efforts shall not relieve the Contractor of the obligation to provide new materials where damage or deterioration has occurred.
7. The Contractor shall include all costs associated with temporary weather protection, moisture control, inspections, temporary enclosures, dehumidification, drying operations, repairs, replacement of damaged materials, and maintenance of a weather-tight structure within the Contract Sum. No additional compensation or extension of Contract Time shall be granted for failure to adequately protect the Work.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top rails.

B. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide galvanized-steel bases for supporting posts.

C. Fencing Windscreen Privacy Screen: Polyester fabric scrim with grommets for attachment to chain-link fence, sized to height of fence, in color selected by Architect from manufacturer's standard colors.

D. Wood Barrier Fence: Plywood, 8 feet high, framed with four 2-by-4-inch rails, with preservative-treated wood posts spaced not more than 8 feet apart.

E. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less in accordance with ASTM E84 and passing NFPA 701 Test Method 2.

F. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum 36 by 60 inches.

G. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

A. Field Offices:

1. General Note: Provide one (1) 2A:10B:C Wall Surface Mounted Fire Extinguisher in each field office as a minimum per the CSFM.
2. Contractor's Field Office:
    a. Size: Nominal 10 feet wide minimum, approximately 400 square feet minimum (half of this office is to be reserved for a conference room for job site meetings).
    b. Equipment:
        1) Table for review of Drawings.
        2) Files, rack and shelves as required to store Contract Drawings and Project Record Drawings in a neat, orderly manner.
        3) One copy of each code listed in Specification Section - REGULATORY REQUIREMENTS.
        4) Telephone.
        5) Internet Connection.
        6) Plain Paper Copier / FAX Machine.
        7) Conference room table and chairs for at least 10 people.
    c. Facilities:
        1) Adequate light and power.
        2) Adequate heating, ventilation and air conditioning.
    d. Control and Access:
        1) Door shall be lockable and key shall be supplied to Architect and access shall be limited to Owner, Architect, Inspector and Contractor.
    e. All of the above items shall be subject to Architect's approval.
3. Project Inspector's Field Office:
    a. Size: Nominal 10 feet wide minimum, approximately 400 square feet minimum (sized for two (2) Owner's Inspectors, and a desk for the Architect's use).
    b. Equipment:
        1) Three (3) 48" x 96" layout tables for review of the drawings by each Inspector.
        2) Three (3) 30" x 60" standard desks with two drawers on one side of each desk (the third desk will be used by the Architect when visiting the site).
        3) Three (3) secretarial task chairs with five point rolling bases.
        4) Three (3) 4-drawer legal size, full suspension, lockable file cabinets.
        5) Three (3) 60" high x 36" wide x 12" deep free standing bookcases with four (4) adjustable shelves for each bookcase.
        6) Three (3) 12-capacity rolling, vertical "Plan Holds" with adjustable brackets for 30" x 42" wide drawings.
        7) Three (3) 36" x 48" tackboards mounted to walls as directed by the Owner's Inspector.
        8) Three (3) drafting stools.
        9) Space for one copy of each code listed in Specification Section - REGULATORY REQUIREMENTS.
        10) Two telephones.
        11) Internet Connection.
        12) One Plain Paper Copier / FAX Machine.
    c. Facilities:
        1) Adequate light and power.
        2) Adequate heating, ventilation and air conditioning (ducted central HVAC).
        3) Electric water cooler with both hot and cold water.
    d. Control and Access:
        1) Door shall be lockable and key shall be supplied to Architect and access shall be limited to Owner, Architect, Inspectors and Contractor.
    e. All of the above items shall be subject to Architect's approval.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.

1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating, Cooling, and Dehumidifying Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.

C. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

D. Project Sign:

1. The Contractor shall furnish and erect at location as directed by the Architect one sign board approximately 4 feet x 8 feet, fabricated of 3/4 inch exterior grade plywood with a sturdy frame attached to 4 inch x 4 inch x 14 foot redwood posts set 4 feet in the ground minimum, and substantially braced.
2. The sign to be painted on signboard shall be of design in 4 colors as directed by the Architect.
3. Lettering shall be of style shown, neatly executed by a skilled sign painter.
4. The information to be lettered on sign shall be as furnished by the Architect.
5. Sign will include the names of the Contractor, Owner, Architect, and the project designation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:

1. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
2. Execution of work under this specification section shall constitute acceptance of existing conditions.
3. Obtain all necessary permits and authorizations by regulatory agencies required to perform the work under this section.

3.2 PREPARATION

A. Coordination:

1. Before proceeding, verify plans match existing conditions.
2. Coordinate work under this specification with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:

1. The Contractor shall verify and protect existing landscaping, asphalt area, concrete walkways, and other site improvements to remain on the site before proceeding with the Work.
2. Prior to starting Work, hose bibbs, utility lines, etc., to be abandoned and removed within the construction area shall be stubbed off outside the limits of construction.
3. Verify and protect utilities to remain within the construction area and provide special construction for their protection.

3.3 TEMPORARY FACILITIES, GENERAL

A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.4 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
   1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.
C. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
   1. Prior to commencing work, isolate the HVAC system in area where work is to be performed in accordance with coordination drawings.
      a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
      b. Maintain negative air pressure within work area, using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
   2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
   3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.

3.5 IMPLEMENTATION

A. General:
   1. Perform Work and provide and maintain Temporary Utilities and Temporary Facilities in accordance with the requirements of all regulatory authorities having jurisdiction.
   2. Contractors shall cooperate with other contractors and the Owner in the use of the site, Temporary Utilities, Temporary Facilities and shall adjust their operations to maintain harmonious relations and uninterrupted progress of the Work.
   3. The Contractor shall assume all responsibility for the provision and maintenance of these Temporary Utilities and Temporary Facilities and for the provisions of public safety where the operations under this Contract interface with public areas.
   4. Relocate and modify Temporary Utilities and Temporary Facilities, as required by progress of the Work.
   5. Remove Temporary Utilities and Temporary Facilities upon completion of the Project.
   6. Temporary Utilities and Temporary Facilities are to be provided and maintained from commencement of Work until final acceptance.
      a. The Contractor shall pay all charges for temporary utilities until the permanent building service is energized from the campus distribution system. After that date, the Owner will pay for electrical energy and water consumed through the permanent building services.

3.6 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.
   1. Existing site utilities, including power, water and other services, may be used only with prior District approval, and only where such use does not disrupt or adversely affect the operation of the existing school campus.
B. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
   1. Install temporary service or connect to existing service.
C. Sewers: Provide temporary service to remove effluent lawfully.

D. Storm Drainage: Provide temporary service as necessary to remove storm water. Work shall be performed in accordance with the requirements of the Storm Water Pollution Prevention Plan (SWPPP), if any. If no SWPPP is required, then follow local authorities having jurisdiction requirements.

E. Water:
   1. The Contractor will arrange and pay for all water supply for all purposes of construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.
   2. Deleted.

F. Electrical:
   1. The Contractor shall provide and pay for all electrical facilities and services for all purposes of power and lighting for construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.
      a. The Contractor shall pay for cost of electrical energy required in connection with the testing of such equipment as generators, transformers, power machinery, and similar equipment installed in the work.
   2. Deleted.
   3. The Contractor will provide electrical energy to all subcontractors as required on or about the premises.
   4. The Contractor will provide power outlets having adequate electrical characteristics and lighting of adequate intensity for the use of other contractors within reasonable distances from their needs and within a reasonable period of time after the other contractors have requested them.

G. Telephone:
   1. The Contractor shall provide and pay for all telephone service and telephone equipment in the Field Offices until completion of the Work.
      a. Provide an additional dedicated phone line for modem/network connection in the Project Inspector's Field Office for use by the Architect's representative.

H. Heating:
   1. Provide temporary heat required by construction activities, for curing or drying of completed installations or protection of installed construction from adverse effects of low temperatures or high humidity.
   2. Select UL or FM approved equipment that will not have a harmful effect on completed installations or elements being installed.
      a. Except where use of the permanent heating system is authorized, provide temporary units that do not introduce moisture into the newly constructed building spaces.
      b. Use of gasoline-burning space heaters, open flame, or salamander type heating units is prohibited.
   3. Coordinate ventilation requirements to produce the ambient condition required and minimize consumption of energy.

3.7 SUPPORT FACILITIES INSTALLATION

A. Offices and Storage:
   1. Provide temporary offices and storage facilities located within the construction area.
   2. Protect materials, construction work and their operations from weather, vandalism, and theft.

B. Sanitary Facilities:
   1. Provide adequate, self-contained toilets as required for all persons employed on the Project.
   2. In no case shall the permanent plumbing fixtures of the Project be used for this purpose.

C. Temporary Roads and Paved Areas:
   1. Construct and maintain temporary roads and paved areas adequate for construction operations and fire protection during construction.

D. Traffic Controls:

1. Implement procedures and measures outlined in the local jurisdiction's approved Traffic Control Plan.
2. Maintain access for fire-fighting equipment and access to fire hydrants.
3. Conduct work and comply with applicable building codes and regulations regarding the use of public streets and sidewalks and the proper barricading and lighting of public thoroughfares surrounding the construction activities.
4. Provide and maintain access as required to perform work.
5. Repair all damage as a result of work performed on the project to adjacent roads, streets, drives and walks. Restore to condition as good as existed at commencement of the Work.

E. Project Sign:
1. Install project sign as submitted and approved.
2. No other signs will be allowed on the project.

F. Existing Elevator Use:
1. Use of Owner's existing elevators will be permitted, provided elevators are cleaned and maintained in a condition acceptable to the Owner.
2. Do not load elevators beyond their rated weight capacity.

G. Existing Stair Use:
1. Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to the Owner.

3.8 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Existing Facilities:
1. Protect existing vegetation, equipment, structures, utilities, and other improvements at project site and on adjacent properties, except those indicated to be removed or altered. Damage occurring during the course of construction shall be repaired to condition at the start of the Work.

B. Environmental:
1. Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

C. Project Enclosure:
1. Implement procedures and measures outlined in Temporary Project Enclosure Plan.
2. Project enclosure shall protect materials, construction work, and operations from vandalism, theft, and to exclude the intrusion of the public into the construction area.
3. Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by the Owner from fumes and noise.
4. Maintain security by limiting number of keys and restricting distribution to authorized personnel.

D. Barriers: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades.

E. Covered Walkway: Erect protective, covered walkway for passage of individuals through or adjacent to Project site. Coordinate with entrance gates, other facilities, and obstructions. Comply with regulations of authorities having jurisdiction.
1. Provide overhead decking, protective enclosure walls, handrails, barricades, warning signs, exit signs, lights, safe and well-drained walkways, and similar provisions for protection and safe passage.
2. Paint and maintain appearance of walkway for duration of the Work.

3.9 CLEANING

A. Clean in accordance with Specification Section – PROJECT CLOSEOUT.
1. At all times, keep the premises free from accumulations of waste materials or rubbish caused by employees or the Work.
2. Clean all soiled surfaces to remain immediately.

3. At the completion of the Work, remove all rubbish from and about the building and all tools, scaffolding, and surplus materials and shall leave the Work "broom clean" or its equivalent.
4. Clean and restore existing parking lots, drive aisles, paved areas, and pavement markings used for construction activities in accordance with Article 3.11.
5. Hydro-flush and video inspect the existing storm drain system in accordance with Article 3.12.
6. Hydro-jet clean and video inspect the plumbing waste lines in accordance with Article 3.14.

3.10 PRE-CONSTRUCTION CONDITION DOCUMENTATION

A. General: Before mobilization, and before beginning any demolition, excavation, staging, or other construction activities, the Contractor shall document the existing condition of the Project site and adjacent areas by video recording and photographs. This documentation will establish the baseline condition of the site at the start of the Work.

B. Areas to be Documented: At a minimum, document the following:

1. Existing parking lots, drive aisles, and other paved areas within, adjacent to, and used for access to the Work, including pavement surfaces, curbs, gutters, sidewalks, striping, pavement markings, accessible parking markings, and signage.
2. Areas the Contractor intends to use for construction access, haul routes, staging, material storage, worker parking, and field offices.
3. Existing buildings, walls, fences, gates, landscaping, irrigation, site furnishings, light standards, utility structures, and other site improvements adjacent to the Work.
4. Existing storm drain system within, adjacent to, and downstream of the area of Work, as specified below.
5. Existing sanitary sewer at and downstream of each point of connection of the Work, in accordance with Article 3.14.

C. Storm Drain CCTV Inspection: Perform a closed-circuit television (CCTV) video inspection of the existing storm drain system, including all pipes, inlets, catch basins, manholes, cleanouts, and drainage structures located within and adjacent to the area of Work, and extending downstream from each point of connection of the Work to the storm drain system to where the storm drain ties into the existing manholes in the existing drive aisle. See Sheet SD/C301.4.

1. The CCTV inspection shall be performed by a firm regularly engaged in pipeline video inspection, using a camera with pan-and-tilt capability, adequate lighting, and an on-screen footage counter.
2. Video shall identify the date, location, upstream and downstream structures, pipe size and material, direction of travel, and distance along the pipe.
3. Provide a written inspection report with a key plan identifying each pipe segment and structure inspected, and noting sediment, debris, standing water, cracks, breaks, offset or separated joints, root intrusion, deformation, and other defects. Identify defects using NASSCO PACP coding or another format acceptable to the Architect.
4. Where existing pipe segments are not accessible or cannot be inspected because of obstructions, notify the Architect in writing before proceeding.

D. Video and Photograph Requirements:

1. Video recordings shall be high-definition digital color video with date and time stamp, and with audio narration identifying the location being recorded.
2. Photographs shall be digital color, date stamped, and keyed to a site plan.
3. Record at a pace and level of detail sufficient to clearly show existing damage, cracking, staining, faded or damaged striping, and other deficiencies.

E. Notification: Notify the Owner, Architect, and Project Inspector not less than forty-eight (48) hours before recording so that their representatives may attend.

F. Submittal: Submit one (1) complete digital copy of all video recordings, photographs, and the CCTV inspection report to the Architect and Owner not less than seven (7) days before the start of site work. Site work shall not begin until this documentation has been submitted.

G. Existing conditions not clearly recorded in the pre-construction documentation will be considered to have been in good, undamaged condition at the start of the Work. Damage to these areas shall be repaired by the Contractor at no additional cost to the Owner.

H. The Contractor shall include all costs for pre-construction condition documentation in the Contract Sum.

3.11 USE AND RESTORATION OF EXISTING PARKING LOTS AND PAVED AREAS

A. Protection: Where the Contractor uses existing parking lots, drive aisles, or paved areas for construction access, staging, material storage, worker parking, or other construction-related activities, the Contractor shall protect those surfaces from damage and excessive soiling throughout the duration of the Work.

B. Cleaning: At completion of construction, and before final acceptance, the Contractor shall thoroughly clean all affected parking lots and paved areas. Cleaning includes removing construction debris, dirt, dust, mud, tire marks, oil stains, paint overspray, adhesive residue, and other construction-related contaminants. Cleaning methods shall not damage existing pavement surfaces.

C. Pavement Markings: The Contractor shall inspect all existing pavement striping, markings, legends, accessible parking markings, directional arrows, fire lanes, curb markings, and related traffic control markings within areas affected by construction activities. Any striping or markings damaged, faded, obscured, removed, or otherwise adversely affected by construction operations shall be restriped to match existing conditions. Restriping shall use materials and colors consistent with the existing installation and shall comply with applicable code requirements.

D. Cost: The Contractor shall bear all costs of cleaning, repairs, and restriping required as a result of construction activities.

E. Acceptance: Acceptance of the Work is contingent on the Owner's determination that parking lot surfaces and pavement markings have been restored to a clean, safe, and fully functional condition equal to that recorded in the pre-construction condition documentation required by Article 3.10.

3.12 PROTECTION, FLUSHING, AND VIDEO INSPECTION OF EXISTING STORM DRAIN SYSTEM

A. Protection During Construction: Protect the existing storm drain system within, adjacent to, and downstream of the area of Work from sediment, dirt, debris, concrete, slurry, washout water, and other construction-related materials throughout the duration of the Work.

1. Provide and maintain inlet protection at all storm drain inlets and catch basins that may receive runoff from the area of Work, in accordance with the Storm Water Pollution Prevention Plan (SWPPP), if any, and the requirements of authorities having jurisdiction.
2. Inspect inlet protection after each rain event and remove accumulated sediment and debris. Repair or replace damaged inlet protection immediately.
3. Do not wash or discharge concrete, mortar, plaster, paint, slurry, or other construction materials into the storm drain system.
4. On a monthly basis throughout construction, open the storm drain manholes in the existing drive aisle at the downstream limit indicated on Sheet SD/C301.4, and clean out any dirt, sediment, and debris that has entered the storm drain system. Notify the Project Inspector at least forty-eight (48) hours before each cleanout, and record the date and findings of each cleanout in the daily construction log.

B. Hydro-Flushing: At completion of construction, and before final acceptance, clean the existing storm drain system within, adjacent to, and downstream of the area of Work, to the same limits documented under Article 3.10.

1. Hydro-flush all storm drain pipes using high-pressure water jetting equipment, and remove all dirt, sediment, and debris from pipes, inlets, catch basins, manholes, and drainage structures.
2. Capture all flushed water, sediment, and debris at the downstream structure using a vacuum truck or other approved method. Do not allow flushed material to discharge to downstream storm drain systems, the public storm drain system, or receiving waters.
3. Remove and legally dispose of all collected materials off the Owner's property.
4. Cleaning methods shall not damage existing pipes, joints, or structures.

C. Post-Construction CCTV Inspection: After hydro-flushing is complete, perform a CCTV video inspection of the same storm drain pipes and structures documented under Article 3.10, using the

same equipment, procedures, and report format, so that the results can be compared directly with the pre-construction inspection.

D. Review with Owner: Submit the post-construction video recordings and inspection report to the Architect and Owner. The Contractor shall meet with the Owner and Architect to review the results and compare them with the pre-construction inspection.
   1. Where the video shows remaining dirt, sediment, or debris, re-flush the affected pipes and structures and repeat the CCTV inspection.
   2. Where the video shows damage not recorded in the pre-construction inspection, including cracks, breaks, offset or separated joints, deformation, or damaged structures, repair or replace the damaged pipe or structure as directed by the Architect, and repeat the CCTV inspection of the repaired segments.
   3. Repeat the above until the Owner accepts the condition of the storm drain system.

E. Cost: The Contractor shall bear all costs of protection, hydro-flushing, CCTV inspection, re-cleaning, repairs, and re-inspection required by this Article.

F. Acceptance: Acceptance of the Work is contingent on the Owner's acceptance of the post-construction CCTV inspection of the storm drain system.

3.13 HYDRO-EXCAVATION AT EXISTING UTILITIES

A. General: Use hydro-excavation (vacuum excavation using pressurized water and a vacuum system) for the following:
   1. Potholing to locate and verify the location, depth, size, and material of existing utilities.
   2. Trench excavation where new trenches cross existing utilities, or come within the tolerance zone of existing utilities as defined in California Government Code Section 4216 (24 inches on each side of the outside edge of the utility).

B. Do not use mechanical excavation equipment within the tolerance zone of an existing utility until that utility has been fully exposed by hydro-excavation.

C. Utility Locating: Before excavation, contact Underground Service Alert (USA North 811) and have existing utilities marked as required by California Government Code Section 4216. Locate on-site private utilities not marked by USA North 811 using a private utility locating service.

D. Operating Requirements:
   1. Use water pressure and nozzle types that will excavate without damaging existing pipe, conduit, coatings, tracer wire, or encasement.
   2. Collect all excavated slurry in a vacuum truck and legally dispose of it off the Owner's property. Do not discharge slurry to the storm drain system, landscape areas, or paved surfaces.
   3. Backfill and compact pothole and trench excavations in accordance with the Division 31 Earthwork sections, and restore paving and other surfaces to match existing.

E. Pothole Log: Record the location, depth to top, size, material, and condition of each existing utility exposed, with locations tied to permanent site features, and record this information on the Project Record Drawings. Submit the pothole log to the Architect before installing new utilities that cross or connect to existing utilities.

F. Conflicts: Where an existing utility conflicts with the Work, notify the Architect in writing immediately and do not proceed in the affected area until directed.

G. Damage: Existing utilities damaged by the Contractor's operations shall be reported immediately to the Owner and the utility owner, and repaired at no additional cost to the Owner.

H. Cost: The Contractor shall include all costs of utility locating, hydro-excavation, slurry disposal, backfill, and surface restoration in the Contract Sum.

3.14 CLEANING AND VIDEO INSPECTION OF PLUMBING WASTE LINES

A. General: Clean and perform closed-circuit television (CCTV) video inspections of the plumbing waste lines serving the Work, including the following:
   1. All new below-slab and below-grade sanitary waste piping, building drains, and building sewers, from the most upstream cleanout of each branch to the point of connection to the existing site sanitary sewer system.

2. The existing site sanitary sewer from each point of connection of the Work downstream to and including the first existing downstream manhole.
3. Coordinate with the Division 22 Plumbing sections and the Civil Drawings. Where this Article and other sections differ, the more stringent requirement shall govern.

B. Inspection Firm, Equipment, and Report: CCTV inspections shall comply with the firm, equipment, video, and report requirements of Article 3.10, Paragraphs C and D, and the following:
1. Use a camera head sized for the pipe being inspected, with self-leveling or pan-and-tilt capability, adequate lighting, and an on-screen footage counter.
2. Identify defects using NASSCO PACP and LACP coding, or another format acceptable to the Architect.
3. Perform inspections from cleanouts and manholes. Do not cut into piping for camera access without the Architect's written approval.

C. Pre-Construction Inspection of Existing Sanitary Sewer: Before beginning site work, perform a CCTV video inspection of the existing sanitary sewer described in Paragraph A.2, and submit it with the Pre-Construction Condition Documentation required by Article 3.10.

D. Protection During Construction:
1. Keep open ends of waste piping, cleanouts, floor drains, floor sinks, and fixture connections capped or plugged at all times, except when actively being worked on.
2. Do not wash out or discharge concrete, mortar, grout, plaster, drywall joint compound, paint, slurry, adhesives, or other construction materials into fixtures, floor drains, floor sinks, mop sinks, cleanouts, or other openings in the waste piping system.
3. Remove construction materials and debris that enter the waste piping immediately upon discovery.

E. Rough-In Inspection of Below-Slab Waste Lines: After below-slab and below-grade waste piping has been installed, tested as required by the California Plumbing Code (CPC), backfilled, and compacted, and before placing the vapor retarder and concrete slab-on-grade, perform a CCTV video inspection of all below-slab and below-grade waste piping.
1. Notify the Architect and Project Inspector not less than forty-eight (48) hours before the inspection so that their representatives may attend.
2. Submit the video recordings and inspection report to the Architect, and obtain the Architect's review, before placing concrete over the piping.
3. Correct deficiencies listed in Paragraph H, and repeat the CCTV inspection of the corrected segments, before placing concrete.

F. Final Cleaning: At completion of construction, after fixtures, floor drains, and equipment have been installed and connected, and before final review, clean all waste lines described in Paragraph A.
1. Hydro-jet all waste piping using high-pressure water jetting equipment, with nozzles and pressures appropriate for the pipe material and size, and remove all dirt, sediment, construction debris, and foreign material. Do not use mechanical cutters, chain flails, or root cutters without the Architect's written approval.
2. Capture all flushed water and debris at the downstream manhole using a vacuum truck or other approved method. Do not allow debris to pass into the sanitary sewer beyond the limit described in Paragraph A.2, and do not discharge flushed material to the storm drain system.
3. Remove and legally dispose of all collected materials off the Owner's property.
4. Cleaning methods shall not damage existing or new pipes, joints, fittings, cleanouts, or structures.

G. Post-Construction CCTV Inspection: After final cleaning is complete, perform a CCTV video inspection of all waste lines described in Paragraph A, using the same equipment, procedures, and report format as the pre-construction and rough-in inspections, so that the results can be compared directly.

H. Deficiencies: The following conditions will be considered deficient and shall be corrected:
1. Remaining dirt, sediment, debris, concrete, grout, or other construction materials.
2. Sags or bellies that retain standing water, or piping installed at less than the slope required by the CPC and the Drawings.
3. Cracks, breaks, holes, deformation, or out-of-round pipe.

4. Offset, separated, or improperly made joints and connections.
5. Fittings installed contrary to the CPC, the Drawings, or the Division 22 Plumbing sections, including improper change-of-direction fittings.
6. Damage to the existing sanitary sewer not recorded in the pre-construction inspection.

I. Review with Owner: Submit the post-construction video recordings and inspection report to the Architect and Owner. The Contractor shall meet with the Owner and Architect to review the results and compare them with the pre-construction and rough-in inspections.

1. Where the video shows remaining dirt, sediment, or debris, re-clean the affected piping and repeat the CCTV inspection.
2. Where the video shows deficiencies, repair or replace the affected piping as directed by the Architect, including removal and restoration of slabs, finishes, paving, landscaping, and other work as required to access the piping, and repeat the CCTV inspection of the repaired segments.
3. Repeat the above until the Owner accepts the condition of the plumbing waste lines.

J. Cost: The Contractor shall bear all costs of protection, hydro-jetting, CCTV inspections, re-cleaning, repairs, restoration, and re-inspection required by this Article.

K. Acceptance: Acceptance of the Work is contingent on the Owner's acceptance of the post-construction CCTV inspection of the plumbing waste lines.

END OF SECTION

SECTION 08 70 00.01 – HARDWARE SCHEDULE

1.1 SCHEDULES

A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.

B. The Door Schedule on the Drawings indicates which hardware set is used with each door.

GLY	=	Glynn-Johnson Corporation	Overhead Door Stops
GRR	=	Grainger	Magnetic Door Holder
HAG	=	Hagar	Continuous Hinges
IVE	=	Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof Strikes, Push-Pull & Kick Plates, Door Stops & Silencers
LOC	=	Locinox	Gate closers
NGP	=	National Guard Products	Thresholds, Gasketing & Weather-stripping
NOR	=	Norton	Door closers
PEM	=	Pemko	Thresholds, Gasketing & Weather-stripping
SCE	=	Schlage Electronics	Electronic Door Components
SCH	=	Schlage Lock Company	Locks, Latches & Cylinders; Accessible Levers: Schlage Sparta Levers.
TRI	=	Trimco	ADA Pocket Door Pulls & Flush Pulls
VON	=	Von Duprin	Exit Devices
ZER	=	Zero	Smoke Seals & Weatherstripping

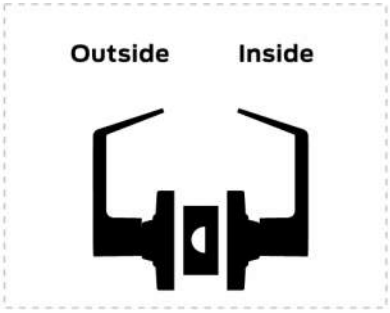
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Schlage ANSI

ND10S **F75**

Passage latch

· Both levers always unlocked.



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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER (see note)	SR64	GRY	IVE

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	AUTO DOOR BOTTOM	411ASL	-	PEM

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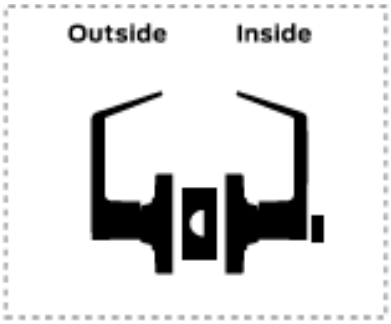
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	(/7 + %)	LG12	630	IVE
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	WALL STOP / HOLDER	FS42 W/ 1268 TRIMCO PLATE ANCHOR	626	IVES
1	EA	DOOR BOTTOM	216AFG	AL	PEM
1	EA	DOOR BOTTOM SWEEP	345A	AL	PEM

Schlage ANSI
ND40S **F76**
Bath/bedroom privacy lock
- Push-button locking.
- Can be opened from outside with a small screwdriver.
- Turn inside lever or close door to release button.



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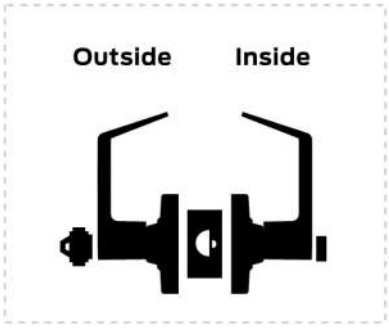
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PRIVACY LOCK	ND40S SPA	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PRIVACY LOCK	ND40S SPA	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR

Schlage ANSI
ND50PD F82
Entrance/office lock
- Push-button locking.
- Push-button locks outside lever until it is unlocked with key or by turning inside lever.



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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	319CN	-	PEM
1	EA	AUTO DOOR BOTTOM	411ASL	-	PEM

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	SURFACE CLOSER	7500M	689	NOR

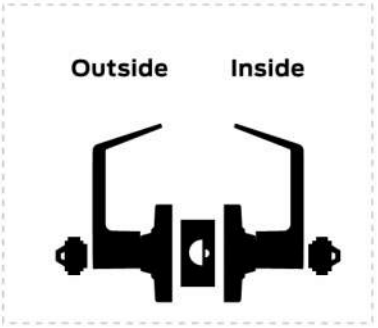
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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		

Schlage ANSI
ND66PD **F91**
Store lock†
- Key in either lever locks or unlocks both levers.



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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	DBL CYL STORE LOCK	ND66PD SPA	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND66PD SPA	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	S773 (MATCH FRAME PAINT)	-	PEM
3	EA	ACOUSTICAL GASKETING	S44 (MATCH FRAME PAINT)	-	PEM
1	EA	AUTO DOOR BOTTOM	360AA	-	ZERO
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	DBL CYL STORE LOCK	ND66PD SPA	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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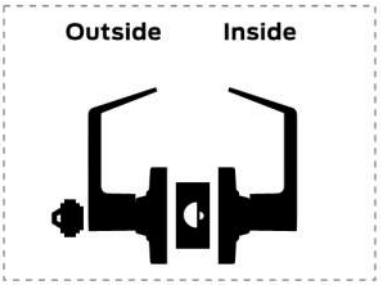
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	DBL CYL STORE LOCK	ND66PD SPA	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	SURFACE CLOSER	7500M	689	NOR`
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

Schlage ANSI

ND70PD **F84**

Classroom lock

- Outside lever locked and unlocked by key.
- Inside lever always unlocked.



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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	AUTO DOOR BOTTOM	411ASL	-	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	319CN	-	PEM
3	EA	ACOUSTICAL GASKETING	S44 (MATCH FRAME PAINT)	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	DOOR BOTTOM GASKETING	4301CPKL	-	PK
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
			BALANCE OF HARDWARE BY DOOR MANUFACTURER		

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	SURFACE CLOSER	7500M	689	NOR
			BALANCE OF HARDWARE BY DOOR MANUFACTURER		

NOTES:
Hinges, Sound Seals, and Auto Door Bottom provided by Acoustical Door Mfg.
Prepare the door for a 3-3/4" lock backset.
Use the Door Mfg "Z" Bracket for the parallel mount closer.
Coordinate the Z-Bracket and lock backset with the Acoustical Supplier/installer.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	FAC RESTRM W/IND CYL	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
3	EA	SILENCER	SR64	GRY	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	FAC RESTRM W/IND CYL	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	(/7 + %)	LG12	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		

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QTY		DESCRIPTION		CATALOG NUMBER	
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	1214CK & 1268CK	626	TRI
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND70PD SPA 14-042 ANTI-FRICTION LATCH	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
2	EA	SILENCER	SR64	GRY	IVE
1	EA	MEETING STILE	328AA	AA	ZER

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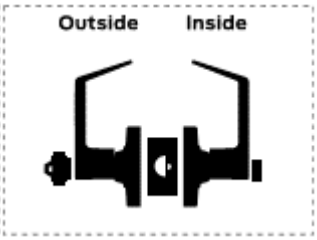
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE

Schlage ANSI

ND73PD **F90**

Corridor lock

- Locked or unlocked by key from outside.
- Push-button locking from inside.
- Turn inside lever or close door to release button.
- When outside lever is locked by key it can only be unlocked by key.
- Inside lever is always unlocked.



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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CORRIDOR LOCK	ND73PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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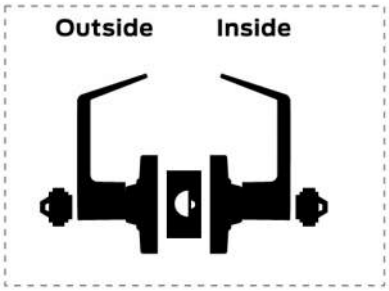
EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND73PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	319CN	-	PEM

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EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CORRIDOR LOCK	ND73PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR



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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND78PD SPA XN12-035	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND78PD SPA XN12-035	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND78PD SPA XN12-035	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	WALL STOP / HOLDER	WS40	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	CLASSROOM SECURITY	ND78PD SPA XN12-035	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	(/7 + %)	LG12	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR

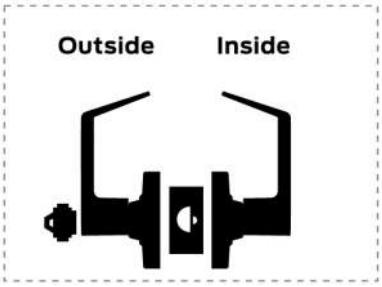
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1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND78PD SPA XN12-035	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

Schlage ANSI
ND80PD F86
Storeroom lock
- Outside lever is fixed.
- Entrance by key only.
- Inside lever always unlocked.



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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	AUTO DOOR BOTTOM	4301CPKL, SURFACE APPLIED	-	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	S773 (MATCH FRAME PAINT)	-	PEM
3	EA	ACOUSTICAL GASKETING	S44 (MATCH FRAME PAINT)	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH

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1	EA	FSIC CORE	23-030	626	SCH
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR HEAD SWEEP	345A (SECURE TO HM FRAME)	AL	PEM
1	EA	DOOR BOTTOM	216AFG	AL	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	(/7 + %)	LG12	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE
0	EA	LESS DOOR BOTTOM	¾" UNDERCUT FOR DRAINAGE		

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
6	EA	SILENCER	SR64	GRY	IVE
1	EA	MEETING STILE	328AA	AA	ZER
0	EA	LESS DOOR BOTTOM	¾" UNDERCUT FOR DRAINAGE		

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80") SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80") SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

%)* % % +" ?-= . & % % (/7 0 1 %1 % " 1% 2 / 1/ (/(&

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
2	EA	SILENCER	SR64	GRY	IVE
1	EA	MEETING STILE	328AA	AA	ZER

%)* % % +" ?-= . & % % (/7 0 1 %1 % / 1/ (/(& 4 & +) &7 &

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	DOOR STOP	FS18S	BLK	IVE
1	SET	PERIMETER SEALS	770	AA	ZER
1	SET	MEETING STILE	1840/41 ASTRAGALS	AA	ZER
2	EA	AUTO DOOR BOTTOM	360AA	AA	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
2	EA	SILENCER	SR64	GRY	IVE
1	EA	MEETING STILE	328AA	AA	ZER

%)* % % +" ?-= . & % % (/7 0 5 %1 % " 1% 2 / 1/ (/(&

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	(/7 + %)	LG12	630	IVE
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES

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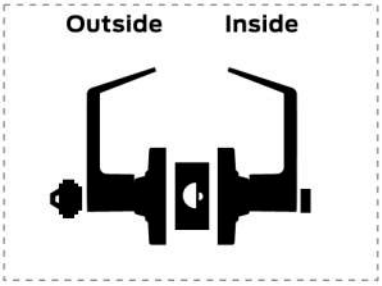
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	MEETING STILE	328AA	AA	ZER

Schlage ANSI

ND85PD -

Faculty restroom lock

- Outside lever is fixed.
- Entrance by key only.
- Push-button in inside lever activates visual occupancy indicator, allowing only emergency master key to operate.
- Turn inside lever or close door to release visual occupancy indicator.
- Rotation of inside spinner-button provides lock-out feature by keeping indicator thrown.



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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	SILENCER	319CN	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	319CN	GRY	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
,		))' (	':<, *1 1 0+& 1)1/ %	;=;	&/
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

1 %1 %) 5 %1 % " 1/ %)* %

PANIC HARDWARE GROUP LEGEND

B= INTERIOR SINGLE DOOR WITH NO CLOSER
CG= VON DUPRIN 98/99 SERIES EXIT DEVICE
B== " 1% OF DOORS WITH CLOSERS
B D DOOR WITH ACOUSTICAL GASKETS
B D DOOR WITH LOW ENERGY AUTO OPENER
B/ = INTERIOR DOOR, WITH /(& % & HOLD OPEN
B = 5 %1 % DOOR WITH CLOSER & HOLD OPEN
B (= (/ % 1/ (/7
B = 51 (9
B = (/ % 0 1/) % & "&
B%= INTERIOR RATED DOOR WITH CLOSER
B&= INTERIOR STOREFRONT DOOR
B %= TEMPERATURE RISE FIRE-RATED

Classroom Security Function “-2SI” to be used at all Fire Rated INTERIOR Classroom Doors





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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	319CN	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC0 0 " 1/) 31/ *1 / +& 1/ ( ) +'(&7 &

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	S773 (MATCH FRAME PAINT)	-	PEM
3	EA	ACOUSTICAL GASKETING	S44 (MATCH FRAME PAINT)	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC% 0 %) " 1/) 31/ *1 / +& 1/ ( ) +'(&7 &

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99L-F-2SI-17-SNB-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	ADA T-TURN RIM CYLIN	XB13-088	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC%0 0 %) " 1/) 31/ *1 / +& 1/ ( ) +'(&7 &

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99L-F-2SI-17-SNB-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	ADA T-TURN RIM CYLIN	XB13-088	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	S773 (MATCH FRAME PAINT)	-	PEM
3	EA	ACOUSTICAL GASKETING	S44 (MATCH FRAME PAINT)	-	PEM
1	EA	AUTO DOOR BOTTOM	411ASL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % &/)+(

NOTE: HARDWARE GROUP INCLUDES A WALL-MOUNTED KEY SWITCH (SCE 653-1414 L2) INTENDED TO ENABLE OR DISABLE THE ACCESS-CONTROL AND AUTOMATIC-OPERATOR FUNCTIONS FOR THIS OPENING. THE KEY SWITCH PROVIDES MANUAL ON/OFF CONTROL OF THE SYSTEM AND SHALL BE COORDINATED WITH THE ELECTRICAL AND LOW-VOLTAGE INTEGRATOR FOR FINAL FUNCTIONALITY

%)* % % +" CC 0 5 %1 % & % 6%) % *1 " 1/ %)* % E + " % %

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD EPT	AL	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	QEL+-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	MORTISE CYLINDER	20-001 114 USE W/ KEY SWITCH	626	SCH
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	SURF. AUTO OPERATOR	9542 SURFACE-MOUNTED WITH 9540 MOUNTING PLATE	689	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-836T WIRED (EXTERIOR)	630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-836TW WIRELESS (INTERIOR)	630	LCN
,	EA	WIRELESS RECEIVER	8310-865	-	LCN
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KEY SWITCH	653-1414 L2	630	SCE
1	EA	POWER SUPPLY	PS902 900-BBK 900-2RS-FA	LGR	VON
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % &/)+(

HARDWARE GROUP INCLUDES A WALL-MOUNTED KEY SWITCH (SCE 653-1414 L2) INTENDED TO ENABLE OR DISABLE THE ACCESS-CONTROL AND AUTOMATIC-OPERATOR FUNCTIONS FOR THIS OPENING. THE KEY SWITCH PROVIDES MANUAL ON/OFF CONTROL OF THE SYSTEM AND SHALL BE COORDINATED WITH THE ELECTRICAL AND LOW-VOLTAGE INTEGRATOR FOR FINAL FUNCTIONALITY

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	DOOR GASKETS	BY STOREFRONT	-	-
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

& :

1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

3	EA	SILENCER	SR64	GRY	IVE

%)* % % +" CC 0 5 %1 %) % *1 " 1/ %)* % :

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

& :

1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM

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%)* % % +" CC 0 5 %1 %) % F 51 (9G *1 " 1/ %)* %

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)	-	PEM
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC % 0 5 %1 % %)) % F 51 (9G *1 " 1/ %)* %

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-F-EO-PA Fire Rated Hardware, where occurs See plans for rated wall locations	626	VON
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	KEYED REMOVABLE MULLION	KR9954-154STAB-MT54	689	VON
2	EA	EXIT HARDWARE	CDSI-PA-AX-99-L-2SI-17-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX (LEVER)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX (CD-)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
5	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	ACOUSTICAL GASKETING	319CN	-	PEM
1	EA	MULLION SEAL	8780N	N	ZER
2	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC= 0 5 %1 % " 1% 6 & % 6%) %& *1 " 1/ %)* % E + " % %

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	CONT. HINGE	224HD EPT	AL	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB-MT54	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	ELEC PANIC HARDWARE	QEL+-99-NL-OP 110NL-MD/WD	626	VON
1	EA	MORTISE CYLINDER	20-001 114 USE W/ KEY SWITCH	626	SCH
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
1	EA	SURF. AUTO OPERATOR	9542 SURFACE-MOUNTED WITH 9540 MOUNTING PLATE	689	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-836T WIRED (EXTERIOR)	630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-836TW WIRELESS (INTERIOR)	630	LCN

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,	EA	WIRELESS RECEIVER	8310-865	-	LCN
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KEY SWITCH	653-1414 L2	630	SCE
1	EA	POWER SUPPLY	PS902 900-BBK 900-2RS-FA	LGR	VON
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	FLOOR STOP	FS18S	BLK	IVE

& :

1) Install the FLOOR STOP/holder at the inactive leaf
2) The Auto-Operator is to be held open by using the key switch.
3) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

1	EA	WEATHERSTRIPPING	188S-BK	S-BK	ZER
1	EA	DOOR BOTTOM	222APK	AL	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB -MT54	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	RIM CYLINDER	20-057-ICX (NIGHT LATCH)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
4	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	DOOR GASKETS	BY STOREFRONT	-	-
1	EA	MULLION SEAL	8780N	N	ZER
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

& :

1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	FIRE/LIFE WALL MAG	SEM7820 (Floor Mounted)	689	LCN
2	EA	PANIC HARDWARE	5CC8C0 0('(0" (Concealed vertical cable device with lever)	626	VON
-	EA	CLOSERS	BY STOREFRONT (Calibre Double Acting Concealed Overhead)	-	-
-	EA	PIVOT	BY STOREFRONT (Bottom Center Pivot)	-	-
-	EA	SMOKE SEALS	BY STOREFRONT	-	-

%)* % % +" CC= 0 5 %1 % " 1% 6) %& *1 " 1/ %)* %

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB -MT54	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX (NL)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

& :

1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

3	EA	WEATHERSTRIPPING	319CN	-	PEM
2	EA	DOOR BOTTOM	222APK	AL	PEM

%)* % % +" CC= 0 0 5 %1 % " 1% 6) %& *1 " 1/ %)* % 0 / +& 1/ (

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB -MT54	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX (NL)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE

2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

& :

1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
2	EA	DOOR BOTTOM	222APK	AL	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB -MT54	689	VON
2	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	MORTISE CYLINDER	20-057-ICX	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX (NL)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	COORDINATOR	COR X FL	628	IVE

& :
1) At Hollow Metal Doors and Frames, PROVIDE the following additional hardware:

3	EA	WEATHERSTRIPPING	319CN	-	PEM
2	EA	DOOR BOTTOM	222APK	AL	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB -MT54	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-EO-PA	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL-990-PA	626	VON
1	EA	MORTISE CYLINDER	20-057-ICX	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M OUTSWING	689	NOR
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	SET	WEATHER SEAL	SUPPLY WITH DOOR AND FRAME ASSEMBLY		
1	EA	MULLION SEAL	8780N	N	ZER
1	EA	THRESHOLD	196A-228A-195A (SEE DETAILS)		
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE

%)* % % +" CC% 0 61% %) 1 %1 %4 51) 31/ 6 % /(&&%) %& XB13-088 is an ADA Thumb-Turn Rim Cylinder

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	ADA T-TURN RIM CYLIN	XB13-088	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR

1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	ADA T-TURN RIM CYLIN	XB13-088	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
3	EA	ACOUSTICAL GASKETING	350CSR	-	PEM
1	EA	AUTO DOOR BOTTOM	412CSL	-	PEM
1	EA	SADDLE THRESHOLD	151 (verify color)	-	PEM

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	ADA T-TURN RIM CYLIN	XB13-088	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE AND FIRE GASKETING	188S-BK (UL 10C, 60-MINUTE LISTED)	S-BK	ZER

NOTE: All hardware in this group shall be labeled and listed for a 60-minute fire door assembly (positive pressure, UL 10C), including the fire exit hardware, hinges, closer and gasketing. Acoustical gaskets, automatic door bottoms and saddle thresholds are not used at this opening. Floor transition at the opening per Detail E11-X/A416. Do not provide hold-open devices.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
10	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
1	EA	FIRE EXIT HARDWARE	AX-99-EO-F-SNB-PA	626	VON
2	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	KEYED REMOVABLE MULLION	KR9954-154STAB-MT54	689	VON
1	EA	MULLION SEAL	8780N	N	ZER

NOTE: Verify the Hardware Group with the supplier and ensure that the hardware components are compatible with the system.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
,		" 1/ %)* %	50CC0(060CC-0"	;=;	3
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	FIRE/LIFE WALL MAG	SEM7850 WALL RECESSED	689	LCN
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
,		" 1/ %)* %	@ 0CC0(060CC-0"	;=;	3
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	FIRE/LIFE WALL MAG	SEM7850 WALL RECESSED	689	LCN
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
,		" 1/ %)* %	50CC0 060"	;=;	3
,		" 1/ %)* %	50CC0(060CC-0"	;=;	3
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	7500M	689	NOR
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850 WALL RECESSED	689	LCN
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	KEYED REMOVABLE MULLION	KR9954-154STAB-MT54	689	VON
1	EA	MULLION SEAL	8780N	N	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
10	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
2	EA	RIM CYLINDER	20-057-ICX	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4040XP (UL TESTED ASSEMBLY CLOSURE)	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
1	EA	FLOOR STOP	FS18S	BLK	IVE

NOTE: Verify the Hardware Group with the supplier and ensure that the hardware components are compatible with the system. Provide the Closure listed with the UL system; if possible use the, Norton 7500 Series, which is a District Standard.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
5	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	FIRE EXIT HARDWARE	AX-99-L-F-2SI-17-SNB-PA	626	VON
2	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	4040XP (UL TESTED ASSEMBLY CLOSURE)	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	SMOKE SEALS	188S-BK	S-BK	ZER
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	KEYED REMOVABLE MULLION	KR9954-154STAB-MT54	689	VON
1	EA	MULLION SEAL	8780N	N	ZER

NOTE: Verify the Hardware Group with the supplier and ensure that the hardware components are compatible with the system. Provide the Closure listed with the UL system; if possible use the, Norton 7500 Series, which is a District Standard.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PADLOCK	ABUS 83/45 C-L WITH SCHLAGE CYLINDER W/ GALV. STEEL CHAIN FIRE DEPARTMENT ACCESS LOCK DETERMINE WITH THE DISTRICT DEPARTMENT THE STANDARD METHOD OF SECURING THE LOCK TO THE GATE	- SATIN BRASS	ABUS

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	HINGE	LOXINOX MAMMOTH 180	SILVER	LOX
1	EA	PANIC HARDWARE	AX22-210NL SP28-299 HEX-KEY DOGGING-GBK	626	VON
1	EA	RIM CYLINDER HOUSING	20-079 WITHOUT CORE	626	SCH
1	EA	CONSTRUCTION CORE	SUPPLIED BY DISTRICT	-	SCH
1	EA	PERMANENT CYLINDER	SUPPLIED BY DISTRICT	626	SCH
1	EA	DOORSTOP	FS18S	BLK	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PADLOCK	ABUS 83/45 C-L WITH SCHLAGE CYLINDER	-	ABUS
1	EA	FSIC CORE	23-030	626	SCH

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	PADLOCK	ABUS 83/45 C-L WITH SCHLAGE CYLINDER	-	ABUS
2	EA	FSIC CORE	23-030	626	SCH

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DEADBOLT LOCK	B662P	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	CONTINUOUS HINGE	112XY (cut to match gate height)	-	IVES
1	EA	WALL STOP-HOLDER	3EHX5	-	GRR

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DEADBOLT LOCK	B662P	626	SCH
1	EA	FSIC CORE	23-030	626	SCH

NOTE: THESE GATES ARE LOCKED OPEN AND CLOSED

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	DEADBOLT LOCK	B662P	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
2	EA	HINGE CLOSER	MAMMOTH-180	BLACK	LOC
1	EA	DOOR PULL	VR910 DT (OUTSIDE FACE OF ACTIVE LEAF ONLY)	630	IVE

NOTE: THESE GATES ARE LOCKED OPEN AND CLOSED

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	DEADBOLT LOCK	B662P	626	SCH
4	EA	FSIC CORE	23-030	626	SCH
2	EA	HINGE CLOSER	MAMMOTH-180	BLACK	LOC
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES

NOTE: THESE GATES ARE LOCKED OPEN AND CLOSED

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	KICK PLATE	SEE GATE DETAILS	-	-
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	CLOSER	MAMMOTH-180	SILVER	LOC

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	7500M	689	NOR
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
3	EA	SILENCER	SR64	GRY	IVE

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-PA-AX-98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	KICK PLATE	SEE GATE DETAILS	-	-
1	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	CLOSER	MAMMOTH-180	SILVER	LOC

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	PANIC HARDWARE	98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
6	EA	SILENCER	SR64	GRY	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE

1	EA	DUSTPROOF STRIKE	DP2	626	IVE
1	EA	MEETING STILE	328AA	AA	ZER

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	AL	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-154STAB-MT54	689	VON
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX	626	SCH
1	EA	FSIC MORT. CYL.	20-700 114 (MULLION)	626	SCH
2	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES
1	EA	MULLION SEAL	8780N	N	ZER
6	EA	SILENCER	SR64	GRY	IVE

NOTE: Hollow metal frame and pair of hollow metal doors in the CMU wall, with keyed removable mullion. Each leaf has a rim exit device. Hardware is the same as Hardware Group 982G except that the automatic flush bolts, dustproof strike and meeting stile astragal are replaced by the keyed removable mullion and mullion seal.

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HINGE CLOSER	LOXINOX MAMMOTH 180	SILVER	LOX
1	EA	MULLION	SEE DETAILS	-	-
1	EA	PANIC HARDWARE	CDSI-PA-AX-98-EO-PA	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-98-NL-OP-110NL-MD/WD	626	VON
1	EA	RIM CYLINDER	20-057-ICX (NL)	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
3	EA	FSIC CORE	23-030	626	SCH
1	EA	DOOR PU-LL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES

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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HINGE CLOSER	LOXINOX MAMMOTH 180	SILVER	LOX
1	EA	MULLION	SEE DETAILS	-	-
2	EA	PANIC HARDWARE	CDSI-PA-AX-98-L-996L-06	626	VON
2	EA	RIM CYLINDER	20-057-ICX	626	SCH
2	EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
4	EA	FSIC CORE	23-030	626	SCH
2	EA	FLOOR STOP / HOLDER	FS42 W/ 1268CK TRIMCO PLATE ANCHOR	626	IVES

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The following schedule lists the Hardware Groups used in Building L and the openings at which they occur, based on Sheet X/A403 – Opening Schedules as revised by Addendum No. 12.

Hardware Groups shown in gray in this Section are not used in this Project and are included for reference only.

Where this schedule and Sheet X/A403 conflict, notify the Architect before ordering hardware.

	% H	@ !
70-AA	L124 a (Drama Room); L124B a (Drama Storage); L126A a (Live Room); L126B a (Control); L126C a (Amp); L203 a (Control); L203 e (Control)	7
70C-A	L103 a (Women); L105 a (Men); L132 a (Girls); L133 a (Boys)	4
73	L116A a (Restroom); L118A a (Restroom)	2
73-A	L116 a (Dressing Rm); L118 a (Dressing Rm)	2
78C	L126 a (Vestibule)	1
80	L104 a (Custodial); L124 b (Drama Room); L126D a (Storage); L128 e (Band/Instrumental Music); L128F a (Band Equipment Storage); L128F b (Band Equipment Storage); L129 e (Choir/Vocal Music); L131 a (Custodial)	8
80-AA	L108 a (IDF); L114 c (Ticket Booth); L124A a (Drama Office); L128A a (Music Office); L128G a (AV); L129A a (AV/Storage); L129C b (Music Office); L208 a (AV Equipment)	8
80C	L128B a (Sheet Music); L128C a (Color Guard Storage); L128D a (Band Uniform Storage); L129B a (Sheet Music Storage); L129D a (Robe Storage)	5
80E	L127 a (Mechanical)	1
99-A	L106 a (Vestibule); L112 a (Vestibule); L113 a (Vestibule); L205 a (Mechanical); L206 a (Stair)	5
99-AA	L107 a (Stairs); L115 a (Black Box Theater); L115 b (Black Box Theater)	3
99R-A	L115 e (Black Box Theater; 20-minute, refer to AD12-A31)	1
99E	L117 a (Backstage Corridor); L120 a (Electrical); L122 a (Elevator Equipment); L128 b (Band/Instrumental Music); L129 a (Choir/Vocal Music)	5
99R-60	L123 b (Scene/Wood Shop)	1
99R-QM	L115 d (Black Box Theater); L117 b (Backstage Corridor)	2
992-A	L124B b (Drama Storage); L128 a (Band/Instrumental Music); L128E a (Percussion Room/Storage); L129 d (Choir/Vocal Music)	4
992AO	L101 c (Lobby); L130 b (Lobby)	2
992C	L125 c (Corridor)	1
992E	L101 b (Lobby); L122B a (Corridor); L125 b (Corridor); L130 d (Lobby)	4
992E-A	L123 c (Scene/Wood Shop); L128E c (Percussion Room/Storage)	2
992R-HO	L122B b (Corridor)	1
None	L115c (Black Box Theater; 20-minute) and L123a (Scene/Wood Shop; 60-minute): fire-rated coiling doors, and L123d (Scene/Wood Shop): coiling door; hardware, operators and the FireFly fire alarm release per Section 08 33 00 – COILING DOORS (refer to AD12-A07). L121a (Elevator) and L221 (Elevator): hoistway doors by the elevator manufacturer.	–

	% H	@ !
232G	SG55 (large pair of ornamental metal swing gates) – padlocks	1
662G	SG58 (pair of ornamental metal site gates, accessible gate) – deadbolts and hinge-closers; locked open or closed by school staff	1
982G-KR	SG57 (pair of hollow metal doors and frame in CMU wall, with keyed removable mullion)	1
$	' $ (;C >	<=

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GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   a) *ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   b) *ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   c) *RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   d) *ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   e) *ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   f) *LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   g) *GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [/SD/X101]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.*
12. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS.*

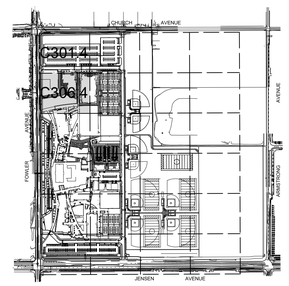
TOPOGRAPHIC SURVEY NOTES:

1. *EXISTING ELEVATIONS SHOWN ARE DESIGN GRADES FROM PREVIOUS CONSTRUCTION PHASES. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT. CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY DISCREPANCIES AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.



KEYMAP

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

GRADING AND DRAINAGE LEGEND:

BST	BOTTOM OF STEP
C	CONCRETE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
G	GUTTER
GR	STORM DRAIN GRATE
L	LIP OF GUTTER
MS	MOWSTRIP
P	PAVEMENT
TC	TOP OF CURB
TST	TOP OF STEP
TW	TOP OF WALL
VG	VALLEY GUTTER
(344.9)	DESIGN ELEVATION FROM PREVIOUS PHASE, SEE TOPOGRAPHIC SURVEY NOTE
328.78	NEW FINISHED GRADE
	DIRECTION OF SURFACE DRAINAGE
	BUILDING OVER-EXCAVATION LIMITS, SEE DETAIL [C/SD/X101]
	LIMITS OF GRADING
G.B.	GRADE BREAK
S=0.0050	PIPE SLOPE AND DIRECTION OF FLOW
	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY, COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
	SWALE AND DIRECTION OF FLOW
1	V12 STORM DRAIN INLET PER DETAIL [E/SD/X101]
2	TRENCH DRAIN PER DETAIL [E/SD/X102]
3	CONNECT TO EXISTING STORM DRAIN LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
4	P6 INLET PER DETAIL [F/SD/X101]
5	SEE PLUMBING PLANS FOR CAN WASH AREA DRAIN
6	SEE ARCH PLAN FOR CONTINUATION OF STORM DRAIN
7	ROLLED CONCRETE CURB PER DETAIL A/SD/306.4
8	PLACE 4"PVC PIPE THROUGH WALL, MATCH CONCRETE ELEVATIONS
CO	SURFACE CLEANOUT PER DETAIL [B/SD/X101]
SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [A/SD/X101]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF STORM
	CAP OR PLUG

General Notes

Blair, Church & Flynn CONSULTING ENGINEERS
Blair, Church & Flynn Consulting Engineers
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER — JANE R. BALLANTYNE — No. 47453 — CIVIL — STATE OF CALIFORNIA

Consultant 8/7/23 Date Signed:

SANGER EDUCATIONAL COMPLEX - PHASE III
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

SITE DEVELOPMENT
PARTIAL GRADING AND DRAINAGE PLAN
Drawing

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www.dardenarchitects.com
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LICENSED ARCHITECT — ROBERT K. FENDT — Exp. 4-30-27 — No. C23724 — STATE OF CALIFORNIA

Architect

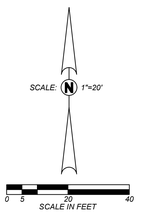
No.	Revision/Submission	Date
1	ADDENDUM 12	10/19/2026

Revision

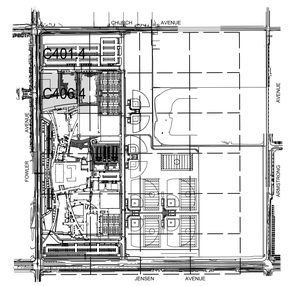
	Designed By: BAA	Copyright 2026 Darden Architects
Scale: AS NOTED	Drawn By: MJA	SD/C306.4
Project Number: 2171	Checked By: LRB	AD12
Date: 8/7/2023	Reviewed By: JDB	

Drawing: P:\2261226-0395\Site\ProductionDrawings\226395_gr01.dwg; C306 — 80'.ctb
Plot by: ahammouda Oct 19, 2026 - 4:46pm





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KEYMAP

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

UTILITY LEGEND:

F	EXISTING FIRE MAIN TO REMAIN, SIZE AS NOTED ON PLANS
S	SEWER MAIN, SIZE AS NOTED ON PLANS. PIPE BEDDING AND BACKFILL PER DETAIL [A/SD/X101]
W	WATER MAIN, SIZE AND FITTINGS AS NOTED ON PLAN. THRUST BLOCKS PER DETAIL [J/SD/X101]. PIPE BEDDING AND BACKFILL PER DETAIL [A/SD/X101].
F	FIRE MAIN, SIZE AS NOTED ON PLANS, MIN. 42" COVER. THRUST BLOCKS PER DETAIL [J/SD/X101]. PIPE BEDDING AND BACKFILL PER [A/SD/X101].
F	FIRE PUMP MAIN, SIZE AS NOTED ON PLANS, MIN. 42" COVER. THRUST BLOCKS PER DETAIL [J/SD/X101]. PIPE BEDDING AND BACKFILL PER [A/SD/X101]. SEE SHEET [SD/F101] FOR LENGTHS OF FIRE PUMP MAIN.
SD	STORM DRAIN PIPE, SEE GRADING PLAN
FF	FINISHED FLOOR
FL	FLOWLINE
CO	SEWER CLEANOUT PER DETAIL [B/SD/X101]
CV	CHECK VALVE PER DETAIL [H/SD/X101]
FDC	FIRE DEPARTMENT CONNECTION PER DETAIL [H/SD/X101]
FH	FIRE HYDRANT ASSEMBLY PER PUBLIC WORKS STD W-3
PIV	POST INDICATOR VALVE PER DETAIL [H/SD/X101]
WV	WATER VALVE PER DETAIL [K/SD/X101]
	DRINKING FOUNTAIN PER DETAIL [B/SD/X102]
	DRYWELL PER DETAIL [B/SD/X102]
HB	HOSE BIBB PER DETAIL [K/SD/X103]
	THRUST BLOCK PER DETAIL [J/SD/X101]
	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY. COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
	PIPE SLOPE AND DIRECTION OF FLOW
1	CONNECT TO EXISTING WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
2	CONNECT TO EXISTING SEWER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
3	CONNECT TO EXISTING FIRE LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.

GENERAL SITE UTILITY NOTES:

1. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION, AND INSTALLATION. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.
3. SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE ALIGNMENT.
4. COORDINATE EXACT POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.
5. SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. CONSTRUCT NEW CONCRETE IMPROVEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER. SEE ARCHITECTURE PLAN.
6. INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
7. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL, ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
8. ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.
9. PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM INSTALLATIONS. CONTRACTOR TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
10. IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL INSTALL A STEM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.
11. BACKFILL UTILITY TRENCHES PER DETAIL [D/SD/X101].
12. ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND DETAIL [F/SD/X101] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.

General Notes

Blair, Church & Flynn CONSULTING ENGINEERS
Blair, Church & Flynn Consulting Engineers
451 Clovis Avenue, Suite 200
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Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER — WAYNE R. BRADLEY — No. 47033 — CIVIL — STATE OF CALIFORNIA

8/7/23
Date Signed

Consultant

SANGER EDUCATIONAL COMPLEX - PHASE III
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727

Project

SITE DEVELOPMENT
PARTIAL UTILITY PLAN

Drawing

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LICENSED ARCHITECT — MICHAEL K. FENNOY — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

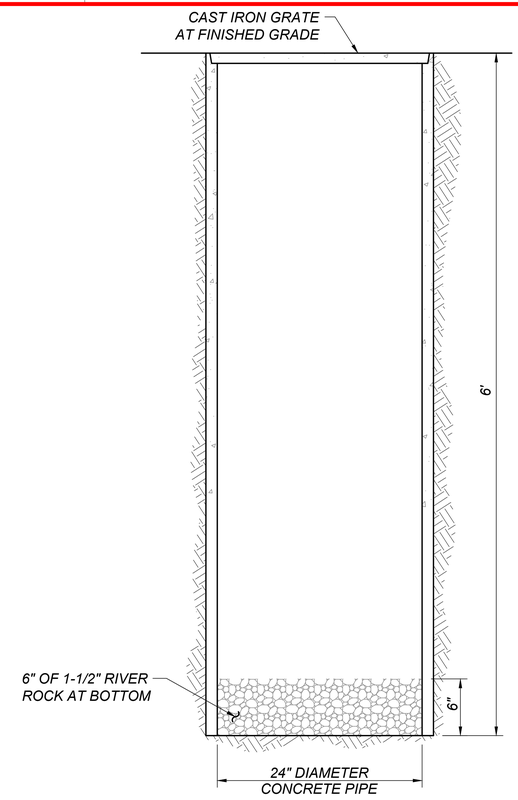
No.	Revision/Submission	Date
1	ADDENDUM 12	10/19/2026

Revision

	Designed By: BAA	Copyright 2026 Darden Architects
Scale: AS NOTED	Drawn By: MJA	SD/C406.4
Project Number: 2171	Checked By: LRB	
Date: 8/7/2023	Reviewed By: JDB	AD12

Drawing: P:\2261226-0395\Site\ProductionDrawings\226395_sd01.dwg, C406.4 — BCF.ctb
Plot by: ahammoudo Oct 19, 2026 — 4:46pm

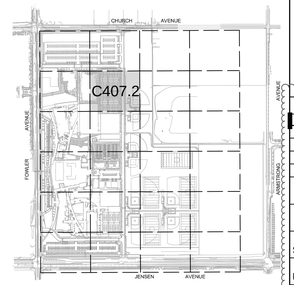
Install a new drywell within the landscaped area. Regrade the surrounding area and provide new ground cover. Coordinate the final drywell location with the District. Provide a 12" x 12" catch basin connected to the drywell with 4-inch drain pipe, and install an 18-inch-wide concrete mow strip around the catch basin.



X/# DRY WELL
NOT TO SCALE

SCALE: N 1"=20'
0 5 20 40
SCALE IN FEET

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KEYMAP

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

THE SCOPE ON THIS SHEET IS LIMITED TO THE DRYWELL.

General Notes

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Blair, Church & Flynn Consulting Engineers
451 Clovis Avenue, Suite 200
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Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER — JAMES R. BAILEY — No. 47,637 — Civil — STATE OF CALIFORNIA
8/7/23 Date Signed

Consultant

SANGER EDUCATIONAL COMPLEX - PHASE III
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727

Project

SITE DEVELOPMENT

Drawing

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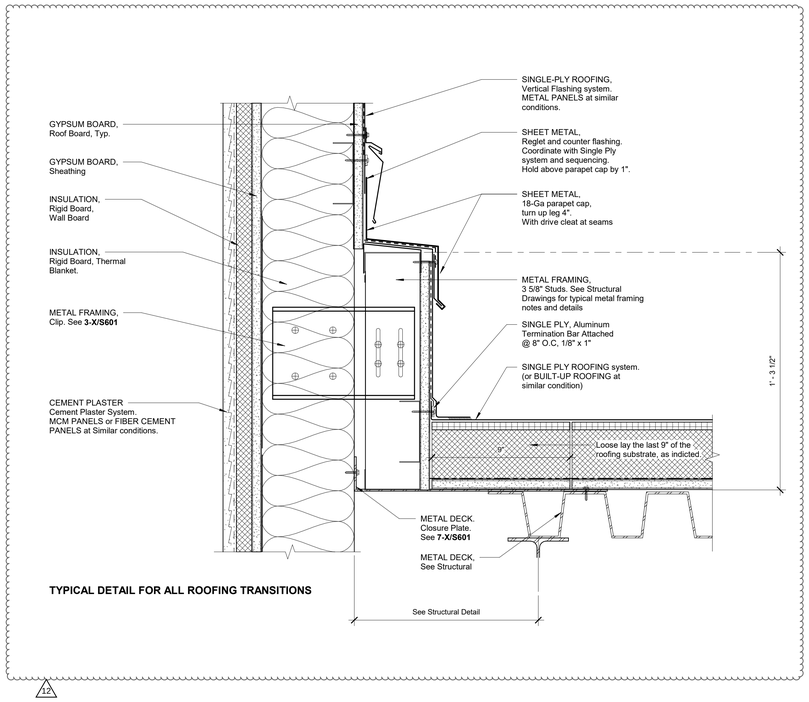
LICENSED ARCHITECT — ANDREW K. FENOCCHIO — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
12	ADDENDUM 12	10/20/2026

Revision

	Designed By: BAA	Copyright 2023 Darden Architects
Scale: AS NOTED	Drawn By: MJA	
Project Number: 2171	Checked By: LRB	SD/C407
Date: 8/7/2023	Reviewed By: JDB	AD12

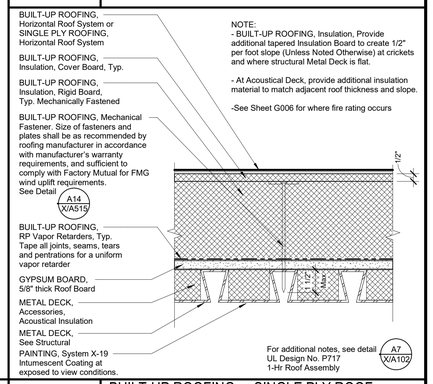


TYPICAL DETAIL FOR ALL ROOFING TRANSITIONS

12

J8 — 3" = 1'-0"

Edge of Roofing to Vertical Framing Detail



NOTE:
- BUILT-UP ROOFING, Insulation, Provide additional tapered Insulation Board to create 1/2" per foot slope (Unless Noted Otherwise) at crickets and where structural Metal Deck is flat.

- At Acoustical Deck, provide additional insulation material to match adjacent roof thickness and slope.

-See Sheet G006 for where fire rating occurs

J14 — 3" = 1'-0"

BUILT-UP ROOFING or SINGLE PLY ROOF @ Acoustical Deck

NOTES:

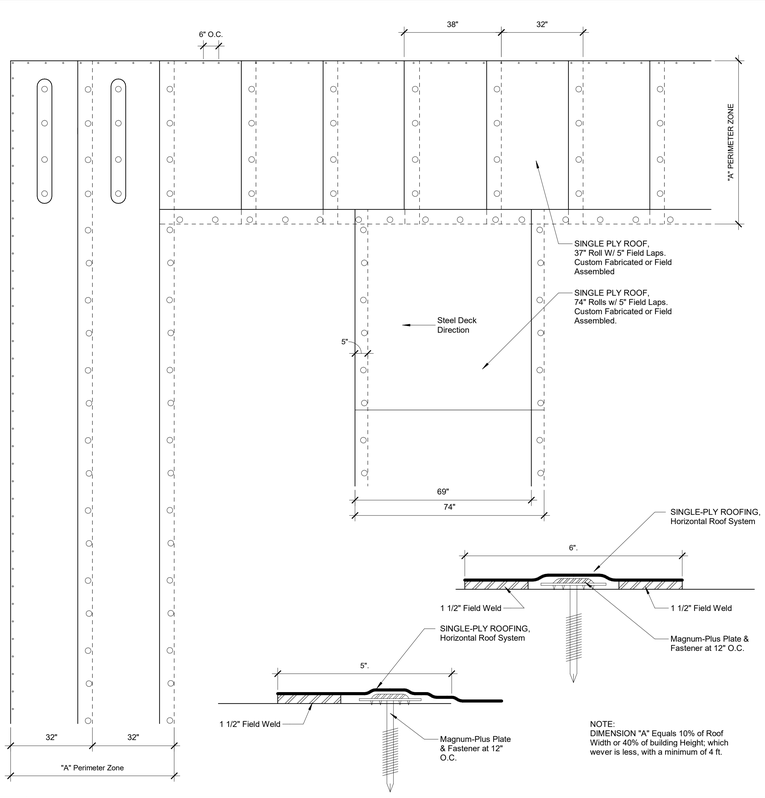
With the exception of the transitional bar dividing the fully adhered area from the mechanically attached area, all attachment must be installed perpendicular to the metal deck flute orientation.

Perimeter and corner width dimensions are determined based on the lesser product derived by multiplying the building height by .4 (40%) or the lesser building dimension by .1 (10%).

Spacing between rows of securement is reduced by the following factors: perimeter - 60% of the panel width installed in the field of the roof since nobody manufactures a 60% sheet, half sheets are typically used. corner - 40% of the panel width installed in the field of the roof.

A1 — 1/2" = 1'-0"

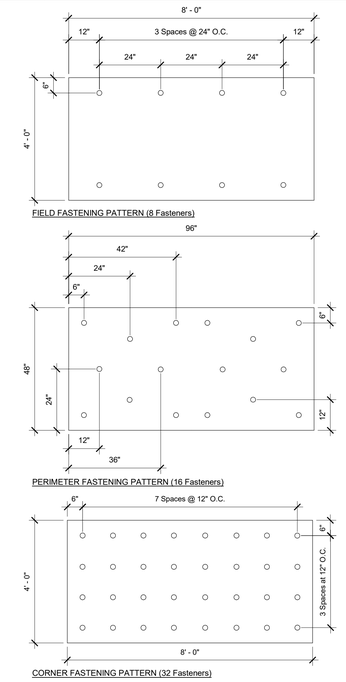
SINGLE PLY ROOF, Attachments



NOTE:
DIMENSION "A" Equals 10% of Roof Width or 40% of building Height; which wever is less, with a minimum of 4 ft.

A7 — 1/2" = 1'-0"

SINGLE PLY ROOFING, Perimeter and Corner Attachments



INSULATION / COVERBOARD ATTACHMENT PATTERN NOTES

- Secure rigid insulation board to structure with mechanical faster / plates. Secure #12 fasteners tight and flat to substrate with no dimpling, and with fastener extending 1 inch (25 mm) minimum into roof deck; do not overdrive fasteners. Place pressure plates on insulation in required fastening patterns to achieve FM rating and secure in accordance with manufacturer's instructions.
- Mechanically attached insulation and cover board with Class 1 FM Global (FMG 4470) 3" high-strength steel disc washers and fasteners, in the patterns indicated above, and as required for wind uplift requirements.
- Fasteners shall be factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.
- See Specification BUILT-UP ROOFING & SINGLE PLY ROOFING for additional requirements and notes.

A14 — 1/2" = 1'-0"

INSULATION / COVERBOARD, Attachment Pattern

DSA File No.: *10-H15*

DSA Application No.: *02-120779*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

General Notes

Consultant

SANGER EDUCATION COMPLEX - PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

EXTERIOR DETAILS - ROOF
Drawing

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LICENSED ARCHITECT — REGIS K. FONG — No. C23724 — Exp. 4-30-23 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
12	ADDENDUM 12	10/20/2026

Revision

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Designed Designer
Drawn By: RM
Checked By: TA
Reviewed Approver

Scale: As indicated
Project Number: 2171
Date: 12/22/22

X/A515
AD12

10/24/2023 3:12:28 PM
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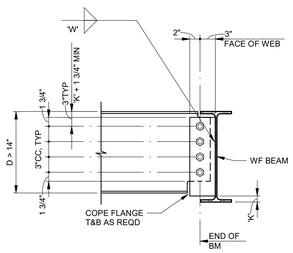
TYPICAL DETAILS

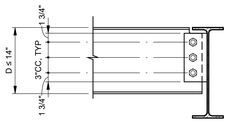
APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

A X/S521 WF BEAM CONNECTION SCHEDULE

BEAM SIZE	NO. & DIA. BOLTS	SHEAR PL THICKNESS 'T'	'W'
W6 & C6	(2) 5/8"Ø A325-N (ALIGNED HORIZONTAL)	1/4	3/16
C8 & C10	(2) 7/8"Ø A325-N	1/4	3/16
W8 & W10	(2) 7/8"Ø A325-N	1/4	3/16
W12 & W14	(3) 7/8"Ø A325-N	1/4	3/16
W16	(4) 7/8"Ø A325-N	3/8	1/4
W18	(5) 7/8"Ø A325-N	3/8	1/4
W21	(5) 7/8"Ø A325-N	3/8	1/4
W24	(6) 7/8"Ø A325-N	3/8	1/4
W27	(7) 7/8"Ø A325-N	3/8	1/4
W30	(8) 1"Ø A490-N	1/2	5/16
W33	(9) 1"Ø A490-N	1/2	5/16
W36	(10) 1"Ø A490-N	1/2	5/16

NOTES:
1. THIS SCHEDULE APPLIES TO NON-FRAME CONNECTIONS, TYPICAL.
2. SHEAR PL MAY BE ASTM A36 OR ASTM A572 GR 50.

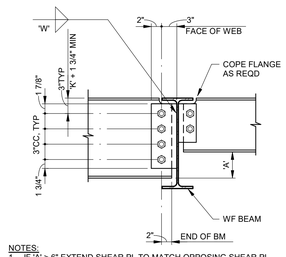




SEE LEFT FOR ADDL INFO

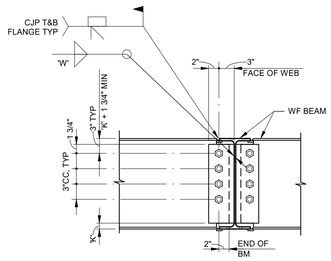
NOTES:
1. CONTRACTOR MAY USE HORIZONTAL SHORT SLOTTED HOLES FOR THESE CONNECTIONS ONLY. THE SHORT SLOTTED HOLES SHALL BE IN THE SHEAR PL WITH HARDENED WASHERS PROVIDED OVER THE SLOTS. TYPE 'N' BEARING CONNECTIONS SHALL BE USED.
2. FOR SHEAR PLATE THICKNESS, BOLTS, & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 1 X/S521 — NO SCALE
WF BEAM TO BEAM ONE SIDE



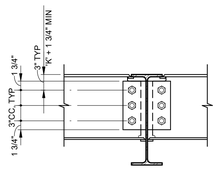
NOTES:
1. IF 'A' > 6" EXTEND SHEAR PL TO MATCH OPPOSING SHEAR PL.
2. CONTRACTOR MAY USE HORIZONTAL SHORT SLOTTED HOLES FOR THESE CONNECTIONS ONLY. THE SHORT SLOTTED HOLES SHALL BE IN THE SHEAR PL WITH HARDENED WASHERS PROVIDED OVER THE SLOTS. TYPE 'N' BEARING CONNECTIONS SHALL BE USED.
3. FOR SHEAR PLATE THICKNESS, BOLTS, & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 2 X/S521 — NO SCALE
WF BEAM TO BEAM TWO SIDES

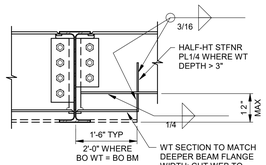


EQUAL BEAM DEPTHS

NOTE:
FOR SHEAR PLATE THICKNESS, BOLTS, & WELDING INFORMATION NOT SHOWN, SEE **A/X/S521**

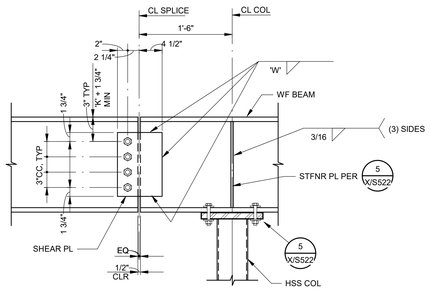


UNEQUAL BEAM DEPTHS CONDITION 1
SEE "EQUAL BEAM DEPTHS" FOR INFO NOT NOTED



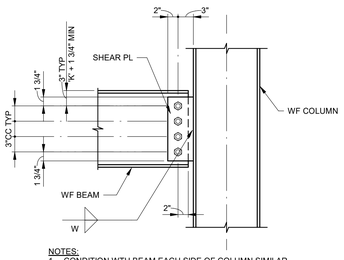
UNEQUAL BEAM DEPTHS CONDITION 2
SEE "EQUAL BEAM DEPTHS" FOR INFO NOT NOTED

DETAIL 3 X/S521 — NO SCALE
WF BEAM TO BEAM NON-FRAME MOMENT



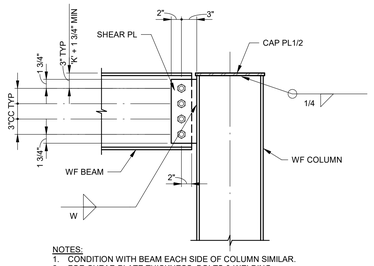
NOTE:
FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 4 X/S521 — NO SCALE
WF BEAM TO BEAM SPLICE



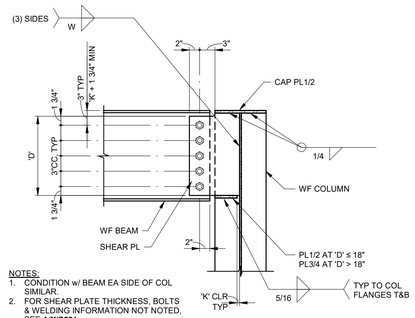
NOTES:
1. CONDITION WTH BEAM EACH SIDE OF COLUMN SIMILAR.
2. FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 5 X/S521 — NO SCALE
WF BEAM TO COLUMN FLANGE AT FLOOR



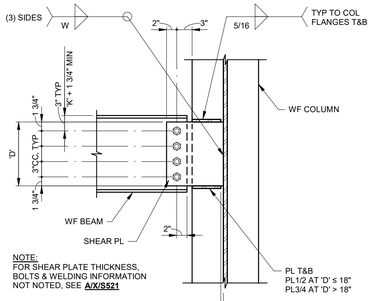
NOTES:
1. CONDITION WITH BEAM EACH SIDE OF COLUMN SIMILAR.
2. FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 6 X/S521 — NO SCALE
WF BEAM TO COLUMN FLANGE AT ROOF



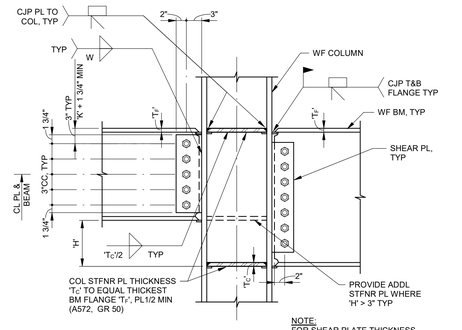
NOTES:
1. CONDITION w/ BEAM EA SIDE OF COL SIMILAR.
2. FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 7 X/S521 — NO SCALE
WF BEAM TO COLUMN WEB AT ROOF



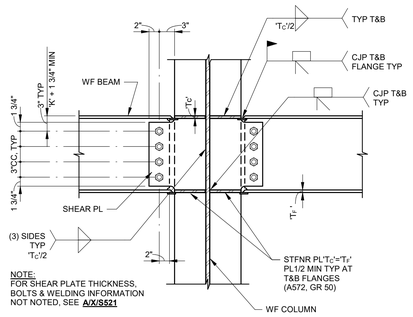
NOTE:
FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 8 X/S521 — NO SCALE
WF BEAM TO COLUMN WEB AT FLOOR



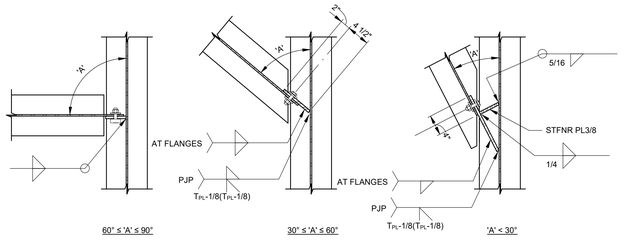
NOTE:
FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 9 X/S521 — NO SCALE
BEAM TO COL FLANGE NON-MOMENT FRAME



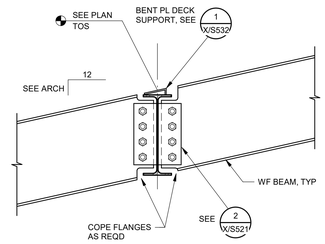
NOTE:
FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**

DETAIL 10 X/S521 — NO SCALE
BEAM TO COLUMN WEB NON-MOMENT FRAME



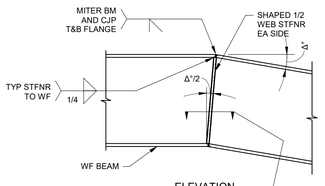
NOTES:
1. FOR SHEAR PL, FILLET WELDS, AND BOLTS, SEE **A/X/S521**
2. FOR DIMENSIONS AND SPACING NOT SHOWN, SEE **1/X/S521**
3. FILLET WELDING AT BM WEBS SHALL CONFORM TO AWS D1.1 3.9.3. INCREASE WELD SIZE AS REQUIRED BY ROOT OPENING AND SHEAR PLATE END PREP TO MAINTAIN EFFECTIVE THROAT.

DETAIL 11 X/S521 — NO SCALE
SKEWED WF BEAM TO BEAM



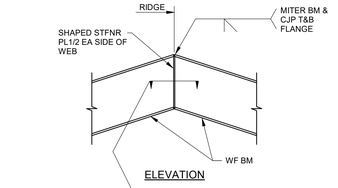
NOTE:
OMIT ONE BOLT WHERE SLOPE DOES NOT ALLOW FOR TOTAL NUMBER OF BOLTS NOTED IN SCHEDULE **A/X/S521**

DETAIL 12 X/S521 — NO SCALE
SLOPED WF BEAM TO BEAM

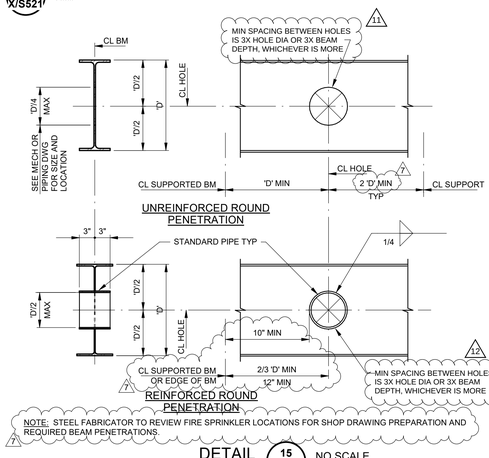


NOTE:
AT PL EXTENSION NOT AT JOINT, USE 1/2" REINFORCING PLATE TOP & BOTT x BEAM WIDTH, SIM AS 8/X/S521 OR USE FULL DEPTH TAB FOR BEAM CONNECTION.

DETAIL 13 X/S521 — NO SCALE
WF BEAM SPLICE AT CHANGE IN SLOPE

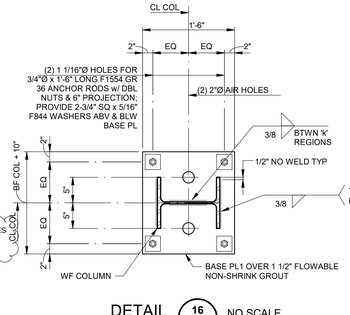


DETAIL 14 X/S521 — NO SCALE
MITERED WF BEAM AT RIDGE

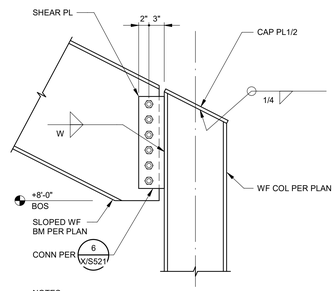


NOTE: STEEL FABRICATOR TO REVIEW FIRE SPRINKLER LOCATIONS FOR SHOP DRAWING PREPARATION AND REQUIRED BEAM PENETRATIONS.

DETAIL 15 X/S521 — NO SCALE
ROUND PENETRATION THRU WF BEAM



DETAIL 16 X/S521 — NO SCALE
BASE PLATE AT WF COLUMN



NOTES:
1. FOR SHEAR PLATE THICKNESS, BOLTS & WELDING INFORMATION NOT NOTED, SEE **A/X/S521**.
2. IF REQUIRED NUMBER OF BOLTS WON'T FIT DUE TO BOTTOM FLANGE BEING CUT OFF, PROVIDE TWO ROWS OF BOLTS & INCREASE WELDING BY 1/16" WIDTH.

DETAIL 17 X/S521 — NO SCALE
WF BEAM TO COLUMN FLANGE AT SLOPED FLOOR

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

BUEHLER
600 Q STREET, SUITE 200
SACRAMENTO, CA 95811
916 443 0303

Consultant

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Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

TYPICAL INFORMATION
TYPICAL STEEL DETAILS
Drawing

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LICENSED ARCHITECT — DARDEL K. P. FERRO — No. C23724 — Exp. 4-30-27 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
7	ADDENDUM 7	9/10/2026
12	ADDENDUM 12	10/20/2026

Revision

Scale: 1" = 1'-0"
Project Number: 2171
Date: 12/20/2022
Designed By:
Drawn By:
Checked By: AAS
Reviewed By:

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X/S521
AD12

9/10/2026 4:22:49 PM
C:\revit\2022-0124_Sanger Ed Center Phase III_R18_Central_bzueh@buehlerengineering.com.rvt

AIR HANDLER SCHEDULE

DESIGNATION		AH M1	AH M2 / AH M3	AH M4	AH M5	AH M6	AH M7	AH Q1	AH Q2	AH Q3	AH Q4	AH Q5	AH L1	AH L2	AH L3	AH L4	AH L5
SUPPLY FAN	AIR FLOW (CFM)	14,500	30,000	12,425	12,700	9,000	8,300	12,150	8,000	14,000	9,000	8,500	19,320	5,060	6,475	2,890	5,000
	TOTAL SP (IN WC)	5.6	5.3	4.5	4.4	4.6	4.3	4.5	4.3	4.9	4.6	5.2	4.2	4.3	4.7	4.15	4.3
	ESP (IN WC)	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.3	2.0	2.0	2.0	2.0
	MIN. OSA (CFM)	4,535	12,320	4,575	7,600	3,485	1,760	8480	2,250	4,940	2,650	2,975	7,100	1,200	200	700	750
	HP/BRAKE HP TOTAL	2@15 / 24.3	4@15 / 41.0	2@7.5 / 12.8	2@7.5 / 13.7	2@7.5 / 10.4	2@5 / 9.5	2@ 7.5 / 13.9	2@5 / 8.6	2@10 / 18.3	2@7.5 / 11.3	2@7.5 / 10.5	1 2@ 15 / 10.1	7.5 / 5.5	10 / 7.4	5 / 2.95	7.5 / 5.39
	VOLTS/PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
	FAN TYPE/CLASS	SWSI / H	SWSI / M	SWSI / H	SWSI / H	SWSI / M	SWSI / H	SWSI / M	SWSI / M	SWSI / M	SWSI / M	SWSI / M	SWSI / I	SWSI / I	SWSI / I	SWSI / I	SWSI / I
	ISOLATOR DEFL. (IN)	2	2	2	2	2	2	2	2	2	2	2	1 2	2	2	2	2
	UNIT MCA / MOCP / FLA	71 / 110 / 61	140.6 / 200 / 120.65	41 / 60 / 35.7	41 / 60 / -	36 / 50	28 / 40 / -	41 / 60	28 / 40 / -	57 / 80 / -	36.1 / 50	40 / 60 / 35	78 / 110 / 68	18.6 / 25 / 15.8	25.7 / 35 / 22.2	13.6 / 20 / 11.6	18.6 / 25 / 15.8
	LIGHTS/RECEPTACLE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
LIGHT/REC. MCA/MOCP/FLA		13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6	13.3 / 15 / 10.6
RETURN FAN	AIR FLOW (CFM)	14,500	30,000	9,125	12,700	9,000	8,300	12,150	8,000	14,000	9,000	8,500	19,320	5,060	6,475	2,890	5,000
	ESP (IN WC)	1.5	1.0	1.5	1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0
	HP/BRAKE HP TOTAL	2@7.5 / 13.05	4@7.5 / 20.75	2@5 / 7.6	2@5 / 7.8	2@5 / 5.9	2@3 / 4.2	2@5 / 7.3	2@ 3 / 4.7	2@7.5 / 11.6	2@ 3 / 5.9	2@5 / 6.15	2@ 7.5 / 5.4	3 / 2.11	5 / 3.03	1.5 / 1.0	3 / 2.1
	VOLTS/PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
	FAN TYPE/CLASS	SWSI / M	SWSI / M	SWSI / H	SWSI / H	SWSI / M	SWSI / M	SWSI / H	SWSI / M	SWSI / M	SWSI / M	SWSI / M	SWSI / I	SWSI / M	SWSI / M	SWSI / M	SWSI / M
COOLING COIL	ISOLATOR DEFL. (IN)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	SENSIBLE (MBH)	430.62	1093	409	475	341	234	510	239	447	272	289.2	1 754.0	182.8	212.6	96.6	155.4
	TOTAL (MBH)	438.24	1109	427	500	312	254	535	254	475	292	303.8	995.5	247.8	277.1	126.7	211.0
	COIL SIZE/ROWS	25 / 6	65.6SF / 4	29.6 / 6	29.6 / 6	20.5 / 6	20.8 / 4	28.6 / 6	20.0 / 6	28.6 / 6	20.5 / 6	16.8 / 6	48.3 / 8	12.3 / 8	13.44 / 6	7.99 / 6	12.3 / 6
	AIR PD (IN WC)	0.652	0.4	0.24	.4	.4	0.3	.4	.33	.47	.44	.576	0.62	0.65	0.65	0.38	0.49
	EADB/EAWB (°F)	85.7 / 65.5	92 / 67	85 / 65.5	89.1 / 66.5	86 / 65.3	80.7 / 64	93.3 / 67.8	82.3 / 64.4	84 / 65	82.6 / 64.5	86 / 65.5	86.5 / 68	84.8 / 68	84.8 / 68	85 / 68	83.2 / 68
	LADB/LAWB (°F)	57 / 55.57	57 / 55	55 / 53.4	55 / 53	54.3 / 52.5	54.5 / 53.6	55 / 54	55 / 54	55 / 53	55 / 53	55 / 53.55	51 / 50.8	52 / 51.9	55.0 / 54.25	54.7 / 53.9	55 / 54.5
	GPM/PD (FT)	87.34 / 3.0	221 / 6.3	85 / 5.3	100 / 7.0	63 / 5.7	52 / 7.9	106 / 8	50 / 2.3	94 / 6.4	59 / 5.1	60.55 / 5.7	164.0 / 5.7	42.7 / 7.9	55.2 / 6.9	25.2 / 10.9	30.68 / 2.85
	EWT/LWT (°F)	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55
	BRANCH SIZE	2.5	4	3	3	2.5	2.5	3	2.5	3	2.5	2.5	3	2	2.0	1.5	2.0
	VALVE TYPE	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	3-WAY	2-WAY	2-WAY	2-WAY	3-WAY
HEATING COIL	CAPACITY (MBH)	345.96	715	316	375	257	244	263	198	340	225	193.4	737.5	166.1	202.8	141.0	156.3
	COIL SIZE/ROWS	24SF / 2	65.6SF / 2	28.7 / 2	29 / 2	21 / 2	19.3SF / 2	29.9 / 2	19.8 / 2	28.7 / 2	20.8 / 2	16.8 / 2	49.1 / 2	12.3 / 2	13.65 / 2	7.99 / 2	12.3 / 2
	AIR PD (IN WC)	0.186	.16	.059	.2	.15	.07	.15	.1	.13	.12	.14	0.09	0.11	0.14	0.09	0.11
	GPM/PD (FT)	34.66 / 0.48	72 / 5.8	32 / 1.0	38 / 1.8	26 / 1.1	25 / 1.0	26 / 3.1	20 / .2	34 / .5	23 / 1.0	19.38 / 0.41	73 / 13.9	16.6 / 2.1	20.3 / 3.2	14.1 / 1.5	15.7 / 0.36
	EAT/LAT (F)	70 / 92	70 / 92	70 / 93.4	70 / 97.2	70 / .96	70 / 97	70 / 90	70 / 92	70 / 92	70 / 93	70 / 90.98	57 / 76	62.4 / 92.7	62 / 91.3	70 / 92.7	62 / 91.2
	EWT/LWT (F)	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120
	BRANCH SIZE	2.5	2.5	2	2	2	2	2	1.5	2	1.5	2.5	1.5	1.5	1.5	1.5	1.5
	VALVE TYPE	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	3-WAY	2-WAY	2-WAY	2-WAY	3-WAY
FILTER	QUANTITY/SIZE	3@12"x24"	4@16"x20"	3@12"x24"	3@12"x24"	4@16"x25"	4@16"x25"	3@12"x24"	4@16"x25"	3@12"x24"	4@16"x25"	2@20"x20"	(36) 20"x 20"x2"	(6) 16"x 20"x2"	(4) 16"x 20"x2"	(1) 20"x 24"x2"	(6) 16"x 20"x2"
		2@16"x20"	2@20"x24"	2@16"x20"	2@16"x20"	3@20"x25"	3@20"x25"	2@16"x20"	3@20"x25"	2@16"x20"	3@20"x25"	4@20"x24"	-	-	(2) 16"x 25"x2"	(1) 24"x 24"x2"	-
		6@20"x20"	-	6@20"x24"	6@20"x24"	-	-	6@20"x24"	-	6@20"x24"	-	-					
	FINAL PD (IN WC)	1.00	.50	.58	.50	.50	.50	.50	.50	.50	.50	1.0	1.00	1.00	1.00	1.00	1.00
	EFFICIENCY (MERV)	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
HUMIDIFIER	STEAM CBS/HR	-	244.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	AIR TEMP (°F) GAIN	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ENTERING DB (°F)	-	59.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	AIR FLOW CFM	-	30,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
TYPE		ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	INDOOR	OUTDOOR	OUTDOOR	OUTDOOR	OUTDOOR
MODEL NUMBER		CSAA025	CSAA066	CSAA030	CSAA030	CSAA021	CSAA021	CSAA030	CSAA021	CSAA030	CSAA021	CSAA017	CSAA050	CSAA012	CSAA014	CSAA008	CSAA012
SERVICE		BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG L - MECH RM	BLDG L - ROOF	BLDG L - ROOF	BLDG L - ROOF	BLDG L - ROOF
OPER. WT. (LBS)		9,000	23,000	10,000	10,000	9,000	8,000	10,000	9,000	10,000	9,000	9,000	1 10,700	4,285	4,420	3,291	4,206
ACCESSORIES		2,3,4,5	1,2,3,4,5	1,2,3,4,5	2,3,4,5	2,3,4,5	2,3,4,5	2,3,4,5,6	2,3,4,5	2,3,4,5	2,3,4,5	2,3,4,5	2,3,4	3,4,5,7,8	3,4,5,7,8	3,4,5,7,8	3,4,5,7,8

1. AHU-M2 & AHU-M3 SHALL HAVE FACTORY INSTALLED REVERSE OSMOSIS HUMIDIFIERS.
2. AHU-M1 THRU AHU-L1 TO BE PROVIDED WITH BACKDRAFT DAMPERS ON THE SUPPLY AND RETURN FANS.
3. SUPPLY DUCT SMOKE DETECTOR FOR AUTOMATIC FAN SHUT-DOWN UPON SMOKE DETECTION.
4. LOW LEAK, DOUBLE WALL CONSTRUCTION WITH CURB READY BASE RAIL, HINGED ACCESS PANELS, AND SINGLE POINT POWER CONNECTION.
5. ROOF CURB BY ARCH. SEE ARCH. SPECS AND DETAILS. WEIGHT INCLUDES CURB. CONTRACTOR SHALL COORDINATE.
6. PROVIDE SUPPLY FAN VFD CONTROLLED BY FOOD SERVICE DEMAND CONTROL SYSTEM.
7. PROVIDE 5 YEAR PARTS AND LABOR WARRANTY.
8. FANS SHALL HAVE FACTORY PROVIDED 2" VIBRATION ISOLATION.

OMIT - FROM PREVIOUS PHASE

CEILING FAN SCHEDULE

DESIGNATION	CF Q1 THRU CF Q3
NO. OF BLADES	8
VOLTS (AC) / PHASE	115 / 1
MAX RPM	158
MOCP	10
DRIVE	DIRECT
MOUNTING	BEAM
MANUFACTURER	BIG ASS FANS
DIAMETER (FT.)	12
MODEL NUMBER	ESSENCE
CONTROL	WALL SWITCH
SERVICE	MPR 100
OPER. WT. (LBS)	100
ACCESSORIES	1, 2

1. 3' MIN EXTENSION TUBE FOR COMPLIANCE WITH NFPA 13 11.1.7(3).
2. INTERLOCK W/ FIRE ALARM SYSTEM FOR AUTO-MATIC SHUT-DOWN UPON ALARM.

OMIT - FROM PREVIOUS PHASE

EXHAUST FAN SCHEDULE

DESIGNATION	EF M1	EF M2	EF M3	EF M4	EF M5 THRU EF M6	EF M7	EF M8	EF M9	EF M10	EF M11	EF M12
CFM	1700	1665	325 - 350	1065	325 - 350	4280	700	325 - 350	3100	700	3100
ESP (IN WC)	1.0	1.2	0.35	1.2	0.35	1.75	0.4	0.35	1.5	0.4	1.5
HP / WATTS / BHP	.75 / - / .51	.75 / - / .38	.25 / - / .04	.75 / - / .38	.25 / - / .04	3 / - / 1.95	.25 / - / .04	.25 / - / .04	2 / - / 1.3	.25 / - / .04	2 / - / 1.3
VOLTS/PHASE	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	460 / 3	120 / 1	120 / 1	208 / 1	120 / 1	208 / 1
RPM	1334	1374	953	1374	953	1055	1093	953	1302	1093	1302
TIP SPEED/SONES	5804 / 12.2	5262 / 10.3	2791 / 5.2	5262 / 10.3	2791 / 5.2	6766 / 18.1	3184 / 4.6	2791 / 5.2	6305 / 16.8	3184 / 4.6	6305 / 16.8
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	CUE-160HP-VG	CUE-140-VG	G-099-VG	CUE-140-VG	G-099-VG	CUE-240HP-VGD	G-100-VG	G-099-VG	CUE-180-VG	G-100-VG	CUE-180-VG
CONTROL	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS
SERVICE	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M	BLDG. M
OPER. WT. (LBS)	125	100	50	100	50	300	50	50	150	50	150
ACCESSORIES	1	1	1	1	1	1	1	1	1	1	1

1. PROVIDE WITH BACKDRAFT DAMPER, VARI GREEN CONTROL SYSTEM W/ EMS INTERFACE AND SPEED CONTROL DIAL ON MOTOR.

OMIT - FROM PREVIOUS PHASE

EXHAUST FAN SCHEDULE (CONT.)

DESIGNATION	EF Q1	EF Q2	EF Q3 THRU EF Q5	EF Q6	EF Q7	EF Q8	EF Q9	EF L1	EF L2 AND EF L3	EF L4
CFM	150	1200	1874	1796	2075	1118	425	220	600	150
ESP (IN WC)	0.4	2.0	2.0	2.0	1.2	3.25	0.35	0.4	0.4	0.4
HP / WATTS / BHP	1/15 / - / .02	1.0 / - / .04	3.0 / - / 1.23	2.0 / - / 1.19	1.0 / - / .73	3.0 / - / 1.54	.25 / - / .04	1/15 / - / .02	1/10 / - / .08	1/15 / - / .02
VOLTS/PHASE	120 / 1	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	120 / 1	120 / 1	120 / 1	120 / 1
RPM	1549	1,715	1,770	1,770	1,178	2,101	953	1549	1642	1549
TIP SPEED/SONES	3295 / 4.4	6,565 / 9.9	8,535 / 19.7	8,439 / 19.5	5,746 / 12.7	10,038 / 33	2791 / 5.2	3295 / 4.4	4674 / 8.1	3295 / 4.4
DRIVE	DIRECT	DIRECT	BELT	BELT	BELT	BELT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G-070-VG	CUE-160XP-VG	CUBE-240XP-VGD-30	CUBE-240XP-VGD-30	GB-200HP-VGD-10	CUBE-240XP-VGD-30	G-099-VG	G-070-VG	G-090-VG	G-070-VG
CONTROL	EMS	KIT. HOOD CONTROL	KIT. HOOD CONTROL	KIT. HOOD CONTROL	EMS	KIT. HOOD CONTROL	EMS	EMS	EMS	EMS
SERVICE	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. Q	BLDG. L	BLDG. L	BLDG. L
OPER. WT. (LBS)	30	100	175	175	125	300	60	30	30	30
ACCESSORIES	1	1,2	1,2,3	1,2,3	1	1,2	1	1	1	1

1. PROVIDE WITH BACKDRAFT DAMPER, VARI GREEN CONTROL SYSTEM W/ EMS INTERFACE AND SPEED CONTROL DIAL ON MOTOR.
2. PROVIDE WITH CLEAN-OUT PORT, SS BIRD SCREEN, UL 705 LISTED, VENTILATED CURB EXTENSION WITH HINGED CURB CAP & GREASE TRAP; FACTORY DISCONNECT SWITCH WITH PIGTAIL.
3. PROVIDE WITH AUTO BELT TENSIONER, GRIP NOTCH BELTS.

OMIT - FROM PREVIOUS PHASE

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
410 E. Clinton Way, Suite 101
Fresno, CA 93727
(559) 431-0101 FAX (559) 431-1342
22040

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. DONALDSON
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Exp. 9-30-23
MECHANICAL
STATE OF CALIFORNIA

Consultant

SANGER EDUCATION COMPLEX - PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727

Project

TYPICAL INFORMATION
MECHANICAL SCHEDULES

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERNANDEZ
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
12	DSA Addendum #12	10/20/26

Revision

Designed By:

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Scale:

Drawn By: LEG

Project Number: 2171

Checked By:

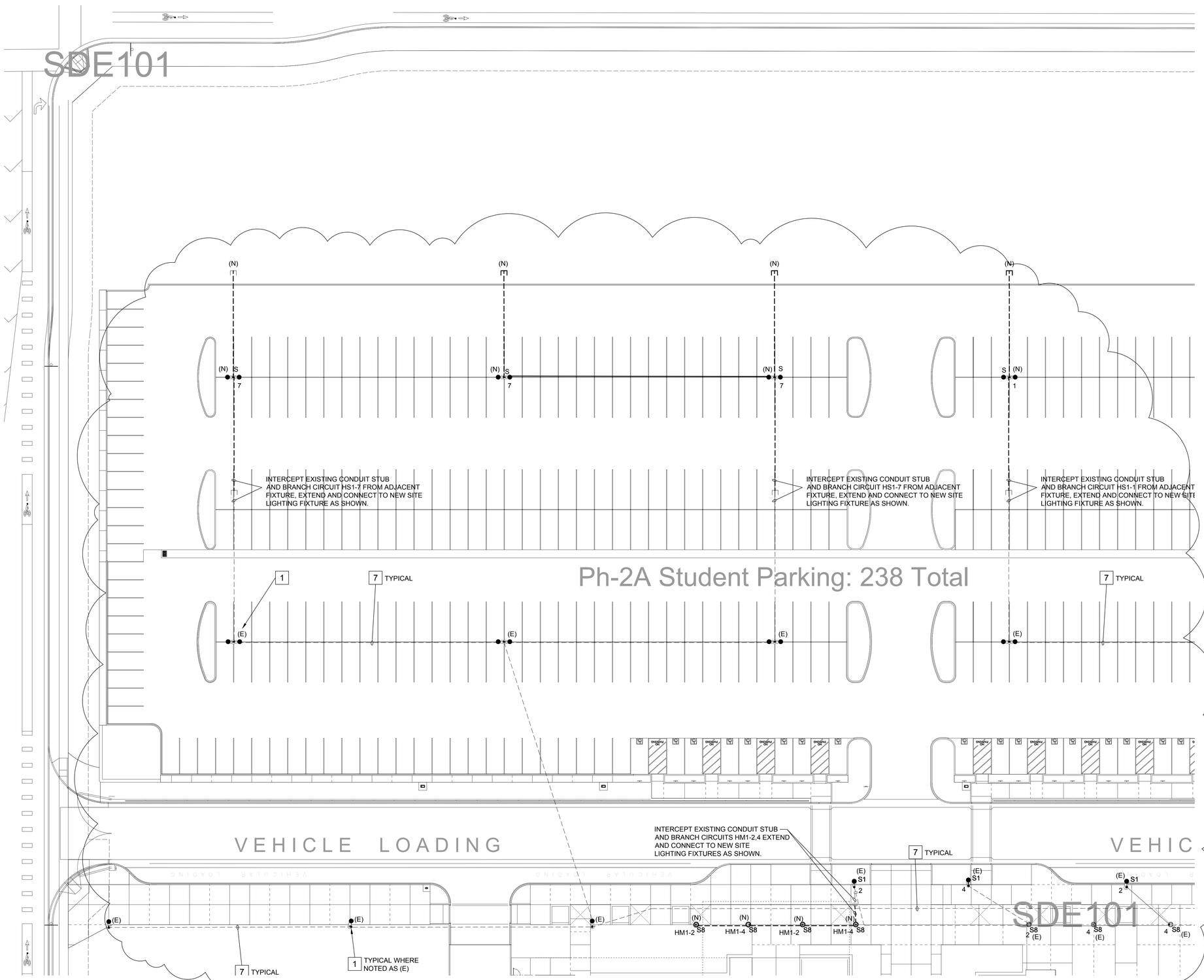
Date: 08/11/23

Reviewed By:

X/M201

AD12

19 October 2026 2:26 PM P:\2022\22040 Sanger USD Ed Center Phase 3\4-Drawings\4 M\M201 – SCHEDULES.dwg anthonyb



PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

ALTERNATE BID #1

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. EXISTING SITE LIGHTING FIXTURE TO REMAIN, PROTECT IN PLACE.
2. ROUTE BRANCH CIRCUIT(S) THROUGH LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
3. ELECTRICAL / LIGHTING PANELBOARD, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104, AND PANEL SCHEDULE SHEETS.
4. LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
5. 11" X 17" PULLBOX AT FUTURE SPORTS LIGHTING FIXTURE LOCATION.
6. FUTURE SPORTS LIGHTING CABINET LOCATION.
7. EXISTING SITE LIGHTING CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

SEE SHEET X/E105 FOR LIGHTING FIXTURE SCHEDULE.

REFER TO SHEET X/E201 FOR CONDUIT IN TRENCH DETAIL AND TYPICAL SITE DETAILS.

REFER TO SHEET X/E202 FOR POLE MOUNTED FIXTURE CONCRETE BASE DETAILS.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED.

General Notes

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/25
Consultant THOMA #22-8060

SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

SITE DEVELOPMENT

PARTIAL SITE LIGHTING PLAN
Drawing

darden architects
ARCHITECTURE
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www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT GORDON K. FENWICK No. C23724 Exp. 4-30-27 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

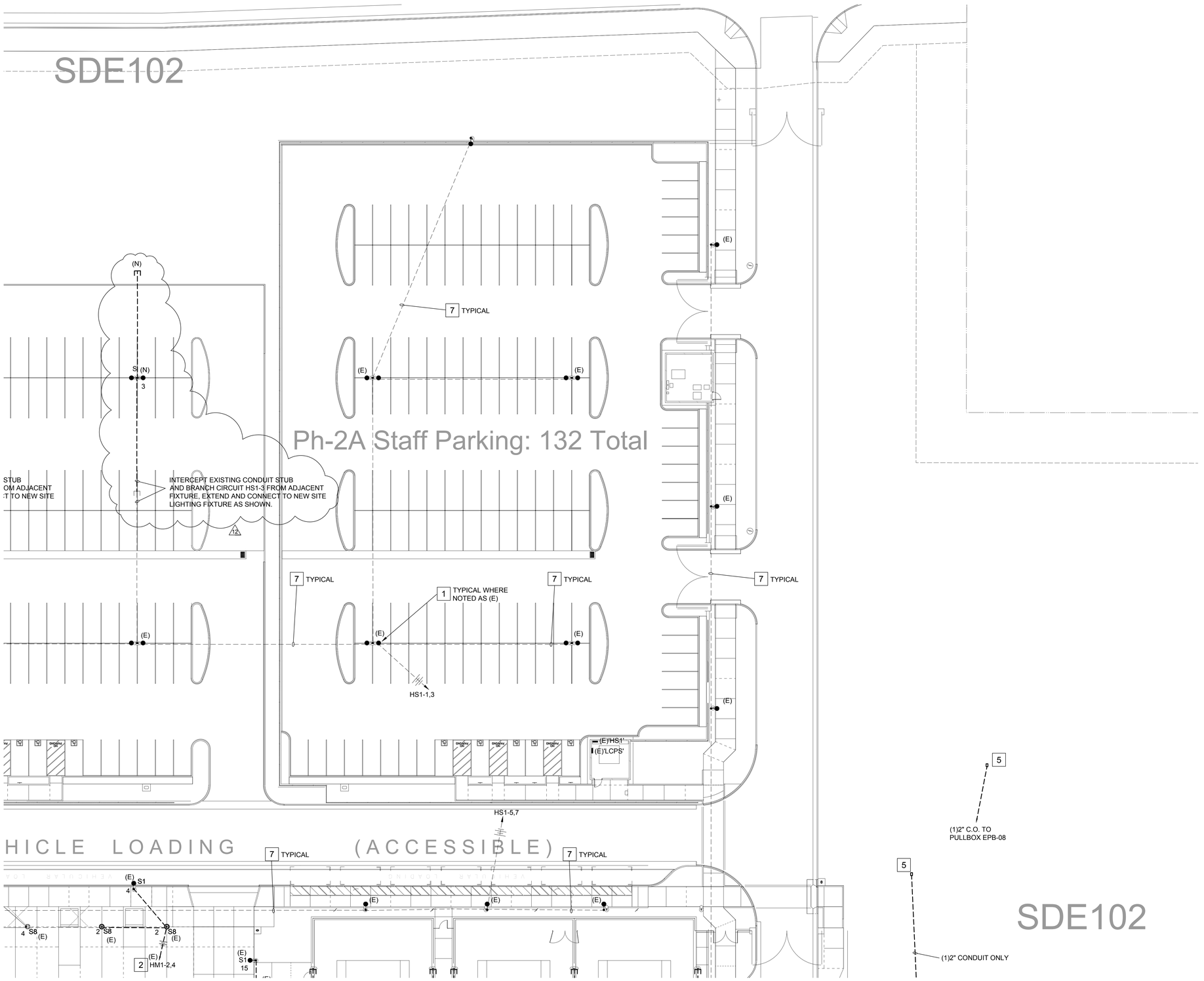
Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	
Project Number: 2171	Checked By:	
Date: 08/27/24	Reviewed By:	

SD/E101
AD12

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SDE102



SDE102

ALTERNATE BID #1

PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. EXISTING SITE LIGHTING FIXTURE TO REMAIN, PROTECT IN PLACE.
2. ROUTE BRANCH CIRCUIT(S) THROUGH LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
3. ELECTRICAL / LIGHTING PANELBOARD, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104, AND PANEL SCHEDULE SHEETS.
4. LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
5. 11" X 17" PULLBOX AT FUTURE SPORTS LIGHTING FIXTURE LOCATION.
6. FUTURE SPORTS LIGHTING CABINET LOCATION.
7. EXISTING SITE LIGHTING CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

SEE SHEET X/E105 FOR LIGHTING FIXTURE SCHEDULE.

REFER TO SHEET X/E201 FOR CONDUIT IN TRENCH DETAIL AND TYPICAL SITE DETAILS.

REFER TO SHEET X/E202 FOR POLE MOUNTED FIXTURE CONCRETE BASE DETAILS.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

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EXPIRES: 06/30/25
Consultant THOMA #22-8060

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SITE DEVELOPMENT

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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT MICHAEL K. FERRUCCI No. C23724 Exp. 4-30-27 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

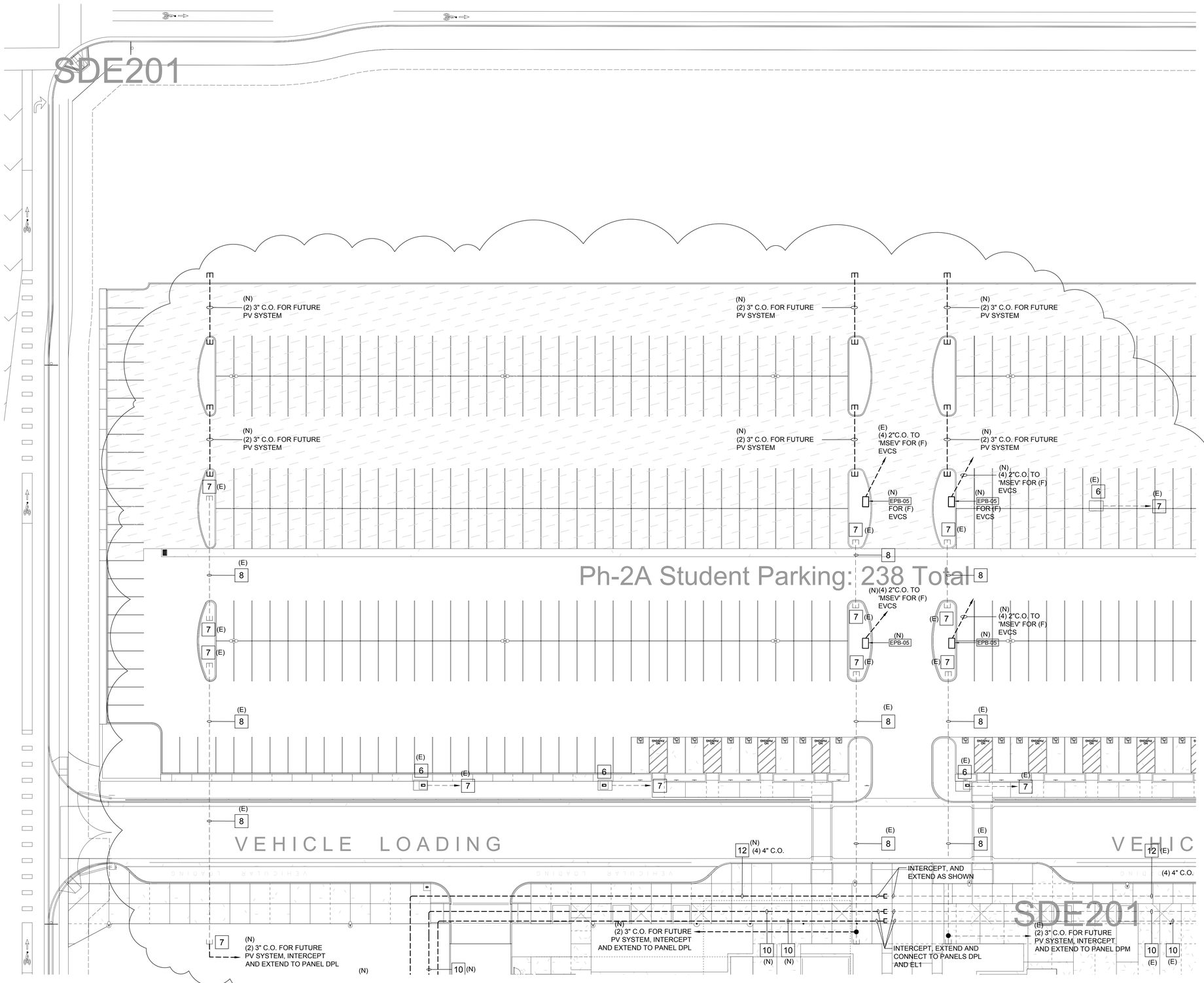
Revision

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Designed By:
Scale: As indicated
Drawn By:
Project Number: 2171
Checked By:
Date: 08/27/24
Reviewed By:

SD/E102
AD12

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PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

☐ Sheet Reference Notes

1. ELECTRICAL / DISTRIBUTION PANEL, SEE SINGLE LINE DIAGRAM SHEETS X/E102, X/E103, AND X/E104.
2. PAD MOUNTED TRANSFORMER, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104.
3. UNDERGROUND FEEDER, SEE SINGLE LINE DIAGRAM.
4. PAD MOUNTED MEDIUM VOLTAGE SECTIONALIZING SWITCH, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102 AND REFER TO SPECIFICATIONS.
5. EXISTING ELECTRIC EQUIPMENT TO REMAIN, PROTECT IN PLACE.
6. EXISTING ELECTRICAL PULLBOX TO REMAIN, PROTECT IN PLACE.
7. EXISTING CONDUIT STUB TO REMAIN, CONFIRM LOCATION AND PROTECT IN PLACE.
8. EXISTING POWER DISTRIBUTION SYSTEM CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.
9. INTERCEPT EXISTING CONDUITS, EXTEND TO NEW EQUIPMENT AND INSTALL FEEDER AS PER SINGLE LINE DIAGRAM.
10. UNDERGROUND POWER DISTRIBUTION SYSTEM FEEDER / CONDUIT ONLY STUB, SEE SINGLE LINE DIAGRAM.
11. CAST OUTLET BOX WITH GFI RECEPTACLE AND WHILE IN USE CAST TYPE COVER, SEE DETAIL 6-X/E206 FOR MOUNTING.
12. UNDERGROUND MEDIUM VOLTAGE FEEDER / SPARE CONDUITS, SEE SINGLE LINE DIAGRAM.
13. FUTURE SPORTS LIGHTING CABINET LOCATION.

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
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PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED.

General Notes

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

SITE DEVELOPMENT

PARTIAL SITE ELECTRICAL PLAN
Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
RUSSELL K. FERRARO
No. C29724
Exp. 4-30-27
STATE OF CALIFORNIA
Architect

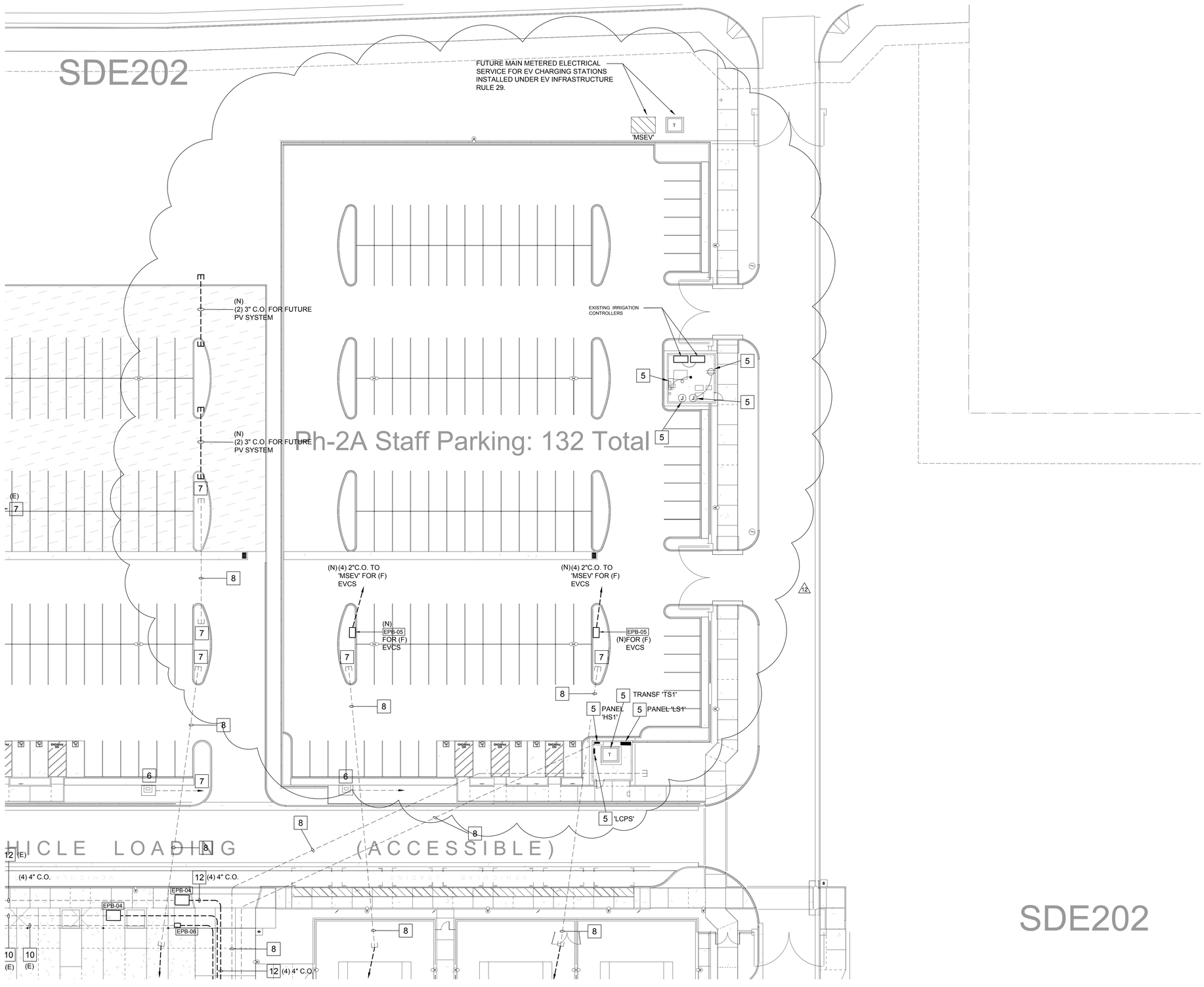
No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	
Project Number: 2171	Checked By:	
Date: 08/27/24	Reviewed By:	

SD/E201
AD12

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PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

ALTERNATE BID #1

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. ELECTRICAL / DISTRIBUTION PANEL, SEE SINGLE LINE DIAGRAM SHEETS X/E102, X/E103, AND X/E104.
2. PAD MOUNTED TRANSFORMER, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104.
3. UNDERGROUND FEEDER, SEE SINGLE LINE DIAGRAM.
4. PAD MOUNTED MEDIUM VOLTAGE SECTIONALIZING SWITCH, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102 AND REFER TO SPECIFICATIONS.
5. EXISTING ELECTRIC EQUIPMENT TO REMAIN, PROTECT IN PLACE.
6. EXISTING ELECTRICAL PULLBOX TO REMAIN, PROTECT IN PLACE.
7. EXISTING CONDUIT STUB TO REMAIN, CONFIRM LOCATION AND PROTECT IN PLACE.
8. EXISTING POWER DISTRIBUTION SYSTEM CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.
9. INTERCEPT EXISTING CONDUITS, EXTEND TO NEW EQUIPMENT AND INSTALL FEEDER AS PER SINGLE LINE DIAGRAM.
10. UNDERGROUND POWER DISTRIBUTION SYSTEM FEEDER / CONDUIT ONLY STUB, SEE SINGLE LINE DIAGRAM.
11. CAST OUTLET BOX WITH GFI RECEPTACLE AND WHILE IN USE CAST TYPE COVER, SEE DETAIL 6-X/E206 FOR MOUNTING.
12. UNDERGROUND MEDIUM VOLTAGE FEEDER / SPARE CONDUITS, SEE SINGLE LINE DIAGRAM.
13. FUTURE SPORTS LIGHTING CABINET LOCATION.

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

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LICENSED ARCHITECT MICHAEL K. FERRADOTTI No. C23724 Exp. 4-30-27 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	*SD/E202*
Project Number: 2171	Checked By:	AD12
Date: 08/27/24	Reviewed By:	

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(N) PANEL LL2

BUS RATING: 200A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 60 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM (RM 120)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
2.57%	173		R	1	RESTROOM RECEPTACLES	20	1	12	540 / 900			10	3	20	TELESCOPIC SEATING	2	N		105	0.81%
2.01%	162		R	3	CUSTODIAL GFCI	20	1	10		720 / 900		10	3			4	N		105	0.81%
2.71%	175		R	5	LOBBY RECEPTACLES	20	1	10			900 / 900	10	3			6	N		105	0.81%
2.08%	140		R	7	TICKET BOOTH RECEPTACLES	20	1	12	540 / 900			10	3	20	TELESCOPIC SEATING	8	N		102	0.79%
2.08%	140		R	9	TICKET BOOTH RECEPTACLES	20	1	12		540 / 900		10	3			10	N		102	0.79%
2.77%	140		R	11	FOYER RECEPTACLES	20	1	12			720 / 900	10	3			12	N		102	0.79%
2.77%	140		R	13	CORRIDOR RECEPTACLES	20	1	12	720 / 900			10	3	20	TELESCOPIC SEATING	14	N		102	0.79%
1.62%	82		R	15	CORRIDOR RECEPTACLES	20	1	12		720 / 900		10	3			16	N		102	0.79%
				17	SPARE	20	1				0 / 900	10	3			18	N		102	0.79%
				19	SPARE	20	1		0 / 900			10	3	20	TELESCOPIC SEATING	20	N		102	0.79%
				21	SPARE	20	1			0 / 900		10	3			22	N		102	0.79%
				23	SPARE	20	1				0 / 900	10	3			24	N		102	0.79%
				25	SPARE	20	1		0 / 100			12	1	20	COILING DOOR	26	R		100	0.28%
				27	SPARE	20	1			0 / 0			1	20	SPARE	28				
				29	SPARE	20	1				0 / 500	12	1	20	COILING DOOR	30	N	5	88	1.21%
0.83%	60		R	31	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12	500 / 500			12	1	20	RESTROOM RECEPTACLES	32	R		45	0.62%
0.83%	60		R	33	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12		500 / 360		12	1	20	DRESSING ROOM RECEPTACLES	34	R		52	0.51%
0.83%	60		R	35	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12			500 / 500	12	1	20	ELEVATOR VIDEO COMMUNICATIONS EQUIPMENT	36	N	7		
1.03%	75		R	37	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12	500 / 500			12	1	20	DRESSING ROOM LIGHTING	38	L	1		
1.03%	75		R	39	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12		500 / 500		12	1	20	DRESSING ROOM LIGHTING	40	L	1		
1.03%	75		R	41	DRESSING ROOM RECEPTACLES CONTROLLED	20	1	12			500 / 540	10	1	20	LOOBY RECEPTACLES	42	R		175	1.63%
1.72%	125	7	N	43	ELEVATOR EQUIP ROOM LIGHTING/RECEPTACLES	20	1	12	500 / 0				1	20	SPARE	44				
1.72%	125	7	N	45	ELEVATOR CONTROLLER	20	1	12		500 / 0			1	20	SPARE	46				
1.38%	125	7	N	47	ELEVATOR CAB LIGHTING	20	1	12			400 / 50	12	1	20	HVAC CONTACTOR	48	N	4		
2.39%	125	7	N	49	ELEVATOR EQUIP ROOM EXHAUST FAN	20	1	12	696 / 2000			10	2	30	ELEVATOR CONSTRUCTION RECEPTACLE	50		7		
1.72%	125	7	N	51	ELEVATOR PIT LIGHTING/RECEPTACLES	20	1	12		500 / 2000		10	2		ELEVATOR CONSTRUCTION RECEPTACLE	52		7		
2.53%	125	7	N	53	ELEVATOR PIT SUMP PUMP	20	1	10			1176 / 0		1	20	SPARE	54				
1.72%	125	7	N	55	ELEVATOR RECALL CONTROL PANEL	20	1	12	500 / 50			12	1	20	LDATA PANEL SHUNT TRIP CIRCUIT BREAKER	56	N			
		7		57	ELEVATOR LIGHT	20	1	12		100 / 50		12	1	20	ELEVATOR SHUNT TRIP CIRCUIT BREAKER	58	N	7		
		7		59	ELEVATOR RECEPTACLE	20	1	12			180 / 100	12	1	20	METERING EQUIPMENT	60	N			

	PHASE A	PHASE B	PHASE C
CON:	11246	10590	9666
25%:	125	125	0
SUB:	0	0	0
TOT:	11371	10715	9666
AMPS	95	89	81

LOAD (VA)	LOAD TYPE LEGEND	
9900	R	RECEPTACLE
1000	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
16322	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL LL3

BUS RATING: 200A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 60 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM (RM 120)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.61%	130		R	1	DRAMA ROOM RECEPTACLES	20	1	10	720 / 900			10	1	20	DRAMA OFFICE RECEPTACLES	2	R		145	2.25%
1.93%	130		R	3	DRAMA ROOM RECEPTACLES	20	1	12		540 / 720		10	1	20	DRAMA OFFICE RECEPTACLES CONTROLLED	4	R		145	1.80%
1.93%	130		R	5	DRAMA ROOM RECEPTACLES	20	1	12			540 / 720	10	1	20	MUSIC OFFICE RECEPTACLES	6	R		155	1.92%
1.29%	130		R	7	DRAMA ROOM GFCI	20	1	12	360 / 720			10	1	20	MUSIC OFFICE RECEPTACLES CONTROLLED	8	R		155	1.92%
1.79%	130		R	9	DATA RACK	20	1	12		500 / 540		12	1	20	SHEET MUSIC RECEPTACLES	10	R		148	2.20%
1.79%	130		R	11	DATA RACK	20	1	12			500 / 500	12	1	20	AV RECEPTACLES	12	R		145	1.99%
2.07%	120		R	13	DRAMA ROOM SPEAKER	20	1	10	1000 / 900			10	1	20	COLOR GUARD STORAGE RECEPTACLES	14	R		177	2.74%
2.07%	120		R	15	DRAMA ROOM SPEAKER	20	1	10		1000 / 900		10	1	20	BAND STORAGE RECEPTACLES	16	R		175	2.71%
2.79%	180		R	17	DRAMA STORAGE RECEPTACLES	20	1	10			900 / 540	12	1	20	CORRIDOR RECEPTACLES	18	R		180	2.67%
1.56%	132		N	19	DRYER	50	2	6	3000 / 720			10	1	20	CONTROL ROOM RECEPTACLES	20	R		167	2.07%
1.56%	132		N	21			2	6		3000 / 900		10	1	20	SHEET MUSIC STORAGE RECEPTACLES	22	R		180	2.79%
1.53%	130		N	23	DRYER	50	2	6			3000 / 540	10	1	20	MUSIC OFFICE RECEPTACLES	24	R		200	1.86%
1.53%	130		N	25			2	6	3000 / 540			10	1	20	MUSIC OFFICE RECEPTACLES CONTROLLED	26	R		200	1.86%
1.82%	132		N	27	WASHER	20	1	12		500 / 500		12	1	20	AUTOMATIC DOOR	28	N		127	1.75%
1.82%	132		N	29	DRYER	20	1	12			500 / 500	12	1	20	AUTOMATIC DOOR	30	N		164	2.26%
1.86%	135		N	31	WASHER	20	1	12	500 / 500			12	1	20	AUTOMATIC DOOR	32	N		58	0.80%
1.86%	135		N	33	DRYER	20	1	12		500 / 500		12	1	20	AUTOMATIC DOOR	34	N		63	0.87%
1.92%	206		R	35	2ND FLOOR MECHANICAL RECEPTACLES	20	1	10			540 / 500	12	1	20	MOTORIZED SCREEN	36	N		45	0.62%
2.70%	145		R	37	2ND FLOOR CATWALK RECEPTACLES	20	1	10	1080 / 500			12	1	20	AUTOMATIC DOOR	38	N		127	1.75%
0.70%	75		R	39	2ND FLOOR VESTIBULE RECEPTACLES	20	1	10		540 / 100		12	1	20	CER-1	40	N		100	0.28%
1.74%	112		R	41	2ND FLOOR CATWALK RECEPTACLES	20	1	10			900 / 900	10	1	20	2ND FLOOR CONTROL ROOM RECEPTACLES	42	R		140	2.17%
1.65%	120		R	43	DRAMA ROOM PLD IOC	20	1	12	500 / 0				1	20	SPARE	44				
2.15%	125		R	45	DRAMA ROOM	20	1	10		1000 / 1500		10	2	30	PROJECTOR	46	N		70	1.04%
0.11%	80		N	47	BCELTS-1	20	3	12			100 / 1500	10	2			48	N		70	1.04%
0.11%	80		N	49	BCELTS-1	20	3	12	100 / 500			12	1	20	PLD GNC DEVICE	50	R		120	1.65%
0.11%	80		N	51	BCELTS-1	20	3	12		100 / 100		12	1	20	HVAC CONTACTORS	52	N	4		
			N	53	HVAC CONTACTORS	20	1	12			100 / 500	12	1	20	CER-1	54	N		100	1.38%
				55	SPARE	20	1		0 / 0				1	20	SPARE	56				
	28		N	57	MECH EMS PANEL	20	1			100 / 100		12	1	20	DRAMA ROOM	58	L	1		
0.39%	26		R	59	ELECTRIC ROOM	20	1	12			540 / 100	12	1	20	FIRE ALARM CONTROL CIRCUIT	60	N	4		

	PHASE A	PHASE B	PHASE C
CON:	15540	13640	13920
25%:	0	25	0
SUB:	0	0	0
TOT:	15540	13665	13920
AMPS	130	114	116

LOAD (VA)	LOAD TYPE LEGEND	
21700	R	RECEPTACLE
100	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
21300	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL LL4

BUS RATING: 100A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ROBE STORAGE ROOM (RM 129D)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.89%	65		R	1	DATA RACK	20	1	12	500 / 540			12	1	20	CORRIDOR RECEPTACLES	2	R		100	1.49%
0.89%	65		R	3	DATA RACK	20	1	12		500 / 720		12	1	20	RESTROOM GFCI	4	R		90	1.78%
1.79%	65		R	5	CHOIR/MUSIC SPEAKER	20	1	12			1000 / 720	10	1	20	PERCUSSION ROOM RECEPTACLES	6	R		187	2.32%
1.14%	83		N	7	MOTORIZED SCREEN	20	1	12	500 / 720			10	1	20	PERCUSSION ROOM RECEPTACLES	8	R		187	2.32%
1.23%	83		R	9	CHOIR/MUSIC RECEPTACLES	20	1	12		540 / 500		12	1	20	BAND MUSIC RECEPTACLE	10	R		144	1.98%
1.14%	83		R	11	CHOIR/MUSIC SPEAKER	20	1	12			500 / 540	12	1	20	BAND MUSIC RECEPTACLE	12	R		144	2.14%
2.52%	102		R	13	CHOIR/MUSIC RECEPTACLES	20	1	12	900 / 900			12	1	20	BAND MUSIC SPEAKER	14	R		80	1.98%
0.95%	64		R	15	CHOIR/MUSIC RECEPTACLES	20	1	12		540 / 540		12	1	20	BAND MUSIC RECEPTACLE	16	R		80	1.19%
1.27%	64		R	17	CHOIR/MUSIC RECEPTACLES	20	1	12			720 / 500	12	1	20	MOTORIZED SCREEN	18	N		80	1.10%
1.17%	85		N	19	AUTOMATIC DOOR	20	1	12	500 / 500			10	1	20	BAND MUSIC SPEAKER	20	R		88	0.76%
1.02%	74		N	21	AUTOMATIC DOOR	20	1	12		500 / 500		12	1	20	DATA RACK	22	R		88	1.21%
1.73%	126		N	23	AUTOMATIC DOOR	20	1	12			500 / 500	12	1	20	DATA RACK	24	R		88	1.21%
0.15%	110	4	N	25	SMOKE FIRE DAMPER	20	1	12	50 / 500			12	1	20	BAND MUSIC PROJECTOR	26	R		110	1.51%
0.55%	110		N	27	HAND DRYER	30	2	10		500 / 500		10	2	30	HAND DRYER	28	N		100	0.50%
0.55%	110		N	29	HAND DRYER		2	10			500 / 500	10	2		HAND DRYER	30	N		100	0.50%
0.50%	100		N	31	HAND DRYER	30	2	10	500 / 500			10	2	30	HAND DRYER	32	N		90	0.45%
0.50%	100		N	33	HAND DRYER		2	10		500 / 500		10	2		HAND DRYER	34	N		90	0.45%
1.03%	75		N	35	AUTOMATIC DOOR	20	1	12			500		1	20	SPARE	36				
				37	SPARE	20	1						1	20	SPARE	38				
				39	SPARE	20	1						1	20	SPARE	40				
				41	SPARE	20	1						1	20	SPARE	42				

PANEL NOTES:

	PHASE A	PHASE B	PHASE C
CON:	6610	6340	6480
25%:	0	0	0
SUB:	0	0	0
TOT:	6610	6340	6480
AMPS	55	53	54

LOAD (VA)	LOAD TYPE LEGEND	
12380	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
7050	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL LLM1

BUS RATING: 100A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 60 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM (RM120)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.12%	35	5	M	1	EF-L1	20	1	10	200 / 1976			8	2	25	ODU-L1	2	M	5	200	2.46%
1.77%	195	5	M	3	EF-L2	20	1	10		528 / 1976		8	2			4	M	5	200	2.46%
2.59%	285	5	M	5	EF-L3	20	1	10			528 / 400	12	1	20	WH-2	6	M		168	1.85%
2.91%	320	5	M	7	EF-L4	20	1	10	528 / 100			12	1	20	SMOKE FIRE DAMPERS	8	N	4	33	0.09%
1.95%	210		R	9	ROOF RECECPTACLE	20	1	10		540 / 100		12	1	20	SMOKE FIRE DAMPERS	10	N	4	150	0.41%
2.14%	230		R	11	ROOF RECECPTACLE	20	1	10			540 / 100	12	1	20	SMOKE FIRE DAMPERS	12	N	4	180	0.50%
1.98%	320		R	13	ROOF RECECPTACLE	20	1	10	360 / 150			12	1	20	SMOKE FIRE DAMPERS	14	N	4	71	0.29%
			M	15	VVH-1ST FLR	20	1	12		225 / 50		12	1	20	SMOKE FIRE DAMPERS	16	N	4	112	0.15%
			M	17	VVH-1ST FLR	20	1	12			150 / 200	12	1	20	MOTORIZED TRAP PRIMER	18	N		135	0.74%
			M	19	VVH-1ST FLR	20	1	12	225 / 100			12	1	20	EMS PANEL	20	N		200	0.55%
			M	21	VVH-1ST FLR	20	1	12		150			1	20	SPARE	22				
			M	23	VVH-2ND FLR	20	1	12			75 / 100	12	1	20	EMS PANEL	24	N			
0.55%	200		N	25	AH-L1 CONTROLS	20	1	12	100 / 0				2	30	SPARE	26				
0.55%	200		N	27	AH-L2 CONTROLS	20	1	12		100 / 0			2		SPARE	28				
		4	N	29	SMOKE FIRE DAMPER	20	1	12			50 / 100	12	1	20	FIRE SPRINKLER BELL	30	N	4	185	0.51%
0.63%	230		N	31	AH-L3 CONTROLS	20	1	12	100 / 4440			SLD	3	100	PANEL LLM2	32				
0.66%	240		N	33	AH-L4 CONTROLS	20	1	12		100 / 4440		SLD	3			34				
0.58%	210	5	N	35	WC-L2 HEATER	20	1	12			100 / 3540	SLD	3			36				
				37	SPARE	25	2		0 / 100				1	20	WC-L1 HEATER	38	N	5	200	
				39	SPARE		2			0 / 100		12	1	20	SMOKE FIRE DAMPERS	40	N		100	0.28%
0.69%	250		N	41	AH-L5 CONTROLS	20	1	12			100 / 0		1	20	SPARE	42				
				43	SPARE	20	1		0 / 0							44				
				45	SPARE	20	1			0 / 0						46				
				47	SPARE	20	1				0 / 0					48				
				49	SPARE	20	1		0 / 0							50				
				51	SPARE	20	1			0 / 0						52				
				53	SPARE	20	1				0 / 0					54				
				55	SPARE	20	1		0 / 0							56				
				57	SPARE	20	1			0 / 0						58				
				59	SPARE	20	1				0 / 0					60				

	PHASE A	PHASE B	PHASE C
CON:	6403	6333	5983
25%:	0	0	0
SUB:	0	0	0
TOT:	6403	6333	5983
AMPS	53	53	50

LOAD (VA)	LOAD TYPE LEGEND	
1440	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
3009	M	MECHANICAL
0	K	KITCHEN APPLIANCE
1850	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

LL1 SURFACE MOUNT, ELECTRIC ROOM L120 WITH 400AMP MAIN BREAKER

BUS RATING: 400A, 120/208V, 3PH, 4W
NEMA 1
AIC RATING: 65K

DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	CALC TYPE
12	PANEL LL2	150	3	SLD	11371 (94.8A) 0.00%	10715 (89.3A) 0.00%	9666 (80.6A) 0.00%	
14	PANEL LL3	200	3	SLD	15040 (125.3A) 0.01%	13665 (113.9A) 0.01%	13920 (116.0A) 0.01%	
220	PANEL LL4	100	3	SLD	6610 (55.1A) 0.05%	6340 (52.8A) 0.05%	5980 (49.8A) 0.05%	
125	PANEL LDATA	100	3	SLD	3860 (32.2A) 0.02%	4720 (39.3A) 0.02%	4080 (34.0A) 0.02%	
	SURGE PROTECTION	60	3	SLD				
40	L103 HAND DRYER	30	2	10	500 (4.2A) 0.20%	500 (4.2A) 0.20%		
50	L103 HAND DRYER	30	2	10		500 (4.2A) 0.25%	500 (4.2A) 0.25%	
150	L116A HAND DRYER	30	2	10	500 (4.2A) 0.75%	500 (4.2A) 0.75%		
150	L118A HAND DRYER	30	2	10	500 (4.2A) 0.75%		500 (4.2A) 0.75%	
170	L105 HAND DRYER	30	2	10		500 (4.2A) 0.84%	500 (4.2A) 0.84%	
170	L105 HAND DRYER	30	2	10	500 (4.2A) 0.84%	500 (4.2A) 0.84%		
				KVA (AMPS):	38.88 (324.0A)	37.94 (316.2A)	35.15 (292.9A)	

Total KVA 111.97
Total Amps 311

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

DPL - SURFACE MOUNT, ELECTRIC ROOM L120

BUS RATING: 1000A, 277/480V, 3PH, 4W
NEMA 1
AIC RATING: 65k

DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	CALC TYPE
28	PANEL HL1	100	3	SLD	7370 (26.6A) 0.00%	3496.25 (12.6A) 0.00%	2837.5 (10.2A) 0.00%	
33	PANEL HLM1	400	3	SLD	70510 (254.5A) 0.02%	57140 (206.3A) 0.01%	70090 (253.0A) 0.02%	
	SPARE	60	3	SLD	0	0	0	
27	TRANS TL1 / PANEL LL1	175	3	SLD	38881 (140.4A) 0.01%	37940 (137.0A) 0.01%	35146 (126.9A) 0.01%	
60	WC-L1	200	3	SLD	44320 (160.0A) 0.02%	44320 (160.0A) 0.02%	44320 (160.0A) 0.02%	
65	WC-L2	200	3	SLD	44320 (160.0A) 0.02%	44320 (160.0A) 0.02%	44320 (160.0A) 0.02%	
55	PANEL ARP-2	100	3	SLD	2500 (9.0A) 0.00%	2375 (8.6A) 0.00%	2375 (8.6A) 0.00%	
34	TRANS TLRP / PANEL TLM	125	3	SLD	14500 (52.3A) 0.00%	14500 (52.3A) 0.00%	14500 (52.3A) 0.00%	
31	TRANS TLAV / PANEL AV1	80	3	SLD	10500 (37.9A) 0.00%	8500 (30.7A) 0.00%	8500 (30.7A) 0.00%	
	ELEVATOR	150	3	SLD	14404 (52.0A)	14404 (52.0A)	14404 (52.0A)	
	SURGE PROTECTION DEVICE	60	3	SLD	0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
				KVA (AMPS):	247.31 (892.8A)	227.00 (819.5A)	236.49 (853.8A)	

NOTE: REFER TO LOAD SUMMARY ON SINGLE LINE DIAGRAM
Total KVA 710.79
Total Amps 855

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

(N) PANEL HL1

BUS RATING: 100A 277/480V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM (RM 120)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
3.01%	300		L	1	1ST FLOOR SOUTH/EAST	20	1	10	3102 / 300			10	1	20	EXTERIOR LIGHTING	2	L	1,2		
2.19%	280		L	3	1ST FLOOR SOUTH/WEST	20	1	10		2417 / 300		10	1	20	EXTERIOR LIGHTING	4	L	1,2		
0.98%	150		L	5	1ST FLOOR WOOD SHOP	20	1	12			1270 / 500	12	1	20	THEATER	6	L	1		
0.95%	205		L	7	1ST FLOOR NORTH	20	1	12	894 / 500			12	1	20	THEATER	8	L	1		
				9	SPARE	20	1			0 / 0			1	20	SPARE	10				
				11	SPARE	20	1				0 / 0		1	20	SPARE	12				
0.97%	170		L	13	2ND FLOOR	20	1	12	1100 / 0				1	20	SPARE	14				
			N	15	LIGHTING CONTROL PANEL	20	1	12		100 / 0			1	20	SPARE	16				
			L	17	SECOND FLOOR THEATER	20	1	12			500 / 0		1	20	SPARE	18				
				19	SPARE	20	1		0 / 0				1	20	SPARE	20				
				21	SPARE	20	1			0 / 0			1	20	SPARE	22				
				23	SPARE	20	1				0 / 0		1	20	SPARE	24				
				25	SPARE	20	1		0 / 0							26				
				27	SPARE	20	1			0 / 0						28				
				29	SPARE	20	1				0 / 0					30				
				31	SPARE	20	1		0 / 0							32				
				33	SPARE	20	1			0 / 0						34				
				35	SPARE	S	1				0 / 0					36				
				37	SPARE	20	1		0 / 0							38				
				39	SPARE	20	1			0 / 0						40				
				41	SPARE	20	1				0 / 0					42				

	PHASE A	PHASE B	PHASE C
CON:	5896	2817	2270
25%:	1474	679	568
SUB:	0	0	0
TOT:	7370	3496	2838
AMPS	27	13	10

LOAD (VA)	LOAD TYPE LEGEND	
0	R	RECEPTACLE
10883	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
100	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL EL1

BUS RATING: 100A 277/480V, 3PH, 4W
MAIN: 100A L,S,I MAIN BREAKER
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 42 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
		1	L	1	2ND FLOOR CORRIDOR	20	1	10	1295 / 1428			12	1	20	1ST FLOOR SOUTH	2	L	1	300	2.21%
		1	L	3	2ND FLOOR CORRIDOR	20	1	10		1435 / 859		12	1	20	1ST FLOOR NORTH	4	L	1	205	0.91%
		1,2	L	5	THEATER	20	1	12			720 / 495	12	1	20	2ND FLOOR	6	L	1,2	150	0.38%
				7	SPARE	20	1		0 / 0				1	20	SPARE	8				
				9	SPARE	20	1			0 / 0						10				
				11	SPARE	20	1				0 / 0					12				
				13	SPARE	20	1		0 / 0							14				
				15	SPARE	20	1			0 / 0						16				
				17	SPARE	20	1				0 / 0					18				
				19	SPARE	20	1		0 / 345			10	1	20	EXTERIOR	20	L	1,2		
				21	SPARE	20	1			0 / 175		10	1	20	EXTERIOR	22	L	1,2		
				23	SPARE	20	1				0 / 0					24				
		1,2	L	25	EXTERIOR LIGHTING	20	1	10	200 / 0							26				
				27	SPARE	20	1			0 / 0						28				
				29	SPARE	20	1				0 / 500	12	1	20	ERRC SYSTEM	30	N	4		

	PHASE A	PHASE B	PHASE C
CON:	3268	2469	1715
25%:	817	617	304
SUB:	0	0	0
TOT:	4085	3086	2019
AMPS	15	11	7

LOAD (VA)	LOAD TYPE LEGEND	
0	R	RECEPTACLE
6952	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
500	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL HLM1

BUS RATING: 400A 277/480V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 60 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 65 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELECTRIC ROOM (RM 120)
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.63%	160	5	M	1	AH-L1	90	3	2	15512 / 4377			10	3	25	AH-L5	2	M	5	275	1.94%
0.63%	160	5	M	3			3	2		15512 / 4377		10	3			4	M	5	275	1.94%
0.63%	160	5	M	5			3	2			15512 / 4377	10	3			6	M	5	275	1.94%
1.20%	170	5	M	7	AH-L2	25	3	10	4377 / 3213			10	3	20	AH-L4	8	M	5	220	1.14%
1.20%	170	5	M	9			3	10		4377 / 3213		10	3			10	M	5	220	1.14%
1.20%	170	5	M	11			3	10			4377 / 3213	10	3			12	M	5	220	1.14%
1.49%	240	5	M	13	AH-L3	35	3	8	6150 / 2106			12	3	20	P-L1	14	M	5	205	1.11%
1.49%	240	5	M	15			3	8		6150 / 2106		12	3			16	M	5	205	1.11%
1.49%	240	5	M	17			3	8			6150 / 2106	12	3			18	M	5	205	1.11%
				19	SPARE	20	1		13300 / 2106			12	3	20	P-L2	20	M	5	210	1.14%
		5	M	21	P-L5	20	3	12		3047 / 2106		12	3			22	M	5	210	1.14%
		5	M	23			3	12			3047 / 2106	12	3			24	M	5	210	1.14%
		5	M	25			3	12	3047 / 1330			12	3	20	P-L3	26	M	5	120	0.41%
		5	M	27	P-L6	20	3	12		3047 / 1330		12	3			28	M	5	120	0.41%
		5	M	29			3	12			3047 / 1330	12	3			30	M	5	120	0.41%
		5	M	31			3	12	3047 / 1330			12	3	20	P-L4	32	M	5	125	0.43%
				33	SPARE	20	1			1330		12	3			34	M	5	125	0.43%
				35	SPARE	20	1				1330	12	3			36	M	5	125	0.43%
0.10%	40	7		37	TRANSFORMER TL2	70	3	4	6403 / 2106			12	3	20	P-L7	38	M	5		
				39			3	4		6333 / 2106		12	3			40	M	5		
				41			3	4			5983 / 2106	12	3			42	M	5		
				43	P-L8	20	3	12	2106 / 0				3	30	SPARE	44				
				45			3	12		2106 / 0			3			46				
				47			3	12			2106 / 0		3			48				
				49	SPARE	20	1		0 / 0				3	30	SPARE	50				
				51	SPARE	50	1			0 / 0			3			52				
1.55%	230	5		53	WH-1	50	1	2			13300 / 0		3			54				
				55	SPARE	20	1		0 / 0							56				
				57	SPARE	20	1			0 / 0						58				
				59	SPARE	20	1				0 / 0					60				

	PHASE A	PHASE B	PHASE C
CON:	70510	57140	70090
25%:	0	0	0
SUB:	0	0	0
TOT:	70510	57140	70090
AMPS	255	206	253

LOAD (VA)	LOAD TYPE LEGEND	
0	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
146103	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

PANEL SCHEDULE NOTES

1. LONG CONTINUOUS LOAD (LCL). ADDITIONAL 25% ADDED AT BOTTOM OF PANEL. FEEDER CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
2. ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROLS.
3. "SHUNT TRIP" TYPE BREAKER REQUIRED.
4. PROVIDE RED HANDLE AND LOCKING DEVICE ON THIS CIRCUIT BREAKER, FOR ALL FIRE ALARM AND ALL EMERGENCY CIRCUITS.
5. VERIFY CIRCUIT BREAKER SIZE AND LOAD WITH SERVING EQUIPMENT APPROVED SUBMITTALS, PRIOR TO PURCHASING EQUIPMENT.
6. ROUTE BRANCH CIRCUIT(S) THROUGH LAB STATION EMERGENCY CONTROLS, SEE DIAGRAM ON SHEET X/E204.
7. PROVIDE LOCKING DEVICE ON THIS CIRCUIT BREAKER.

PANEL SCHEDULE DIRECTORY		
LL2	LLM1	DPL
LL3	LL1	HL1
LL4	EL1	HLM1

General Notes

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THOMA #22-8060
Consultant

SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

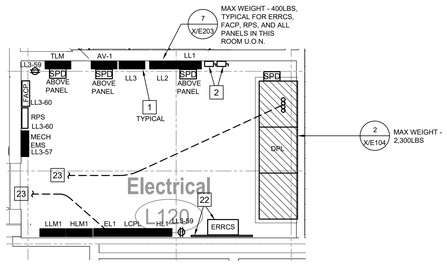
TYPICAL INFORMATION
ELECTRICAL SCHEDULES
Drawing

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Architect

No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

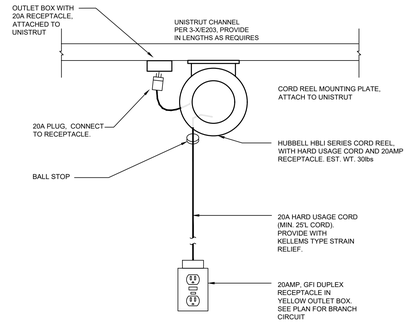
Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	X/E106
Project Number: 2171	Checked By:	
Date: 08/27/24	Reviewed By:	AD12



1 ENLARGED PLAN AT ELECTRIC ROOM 120

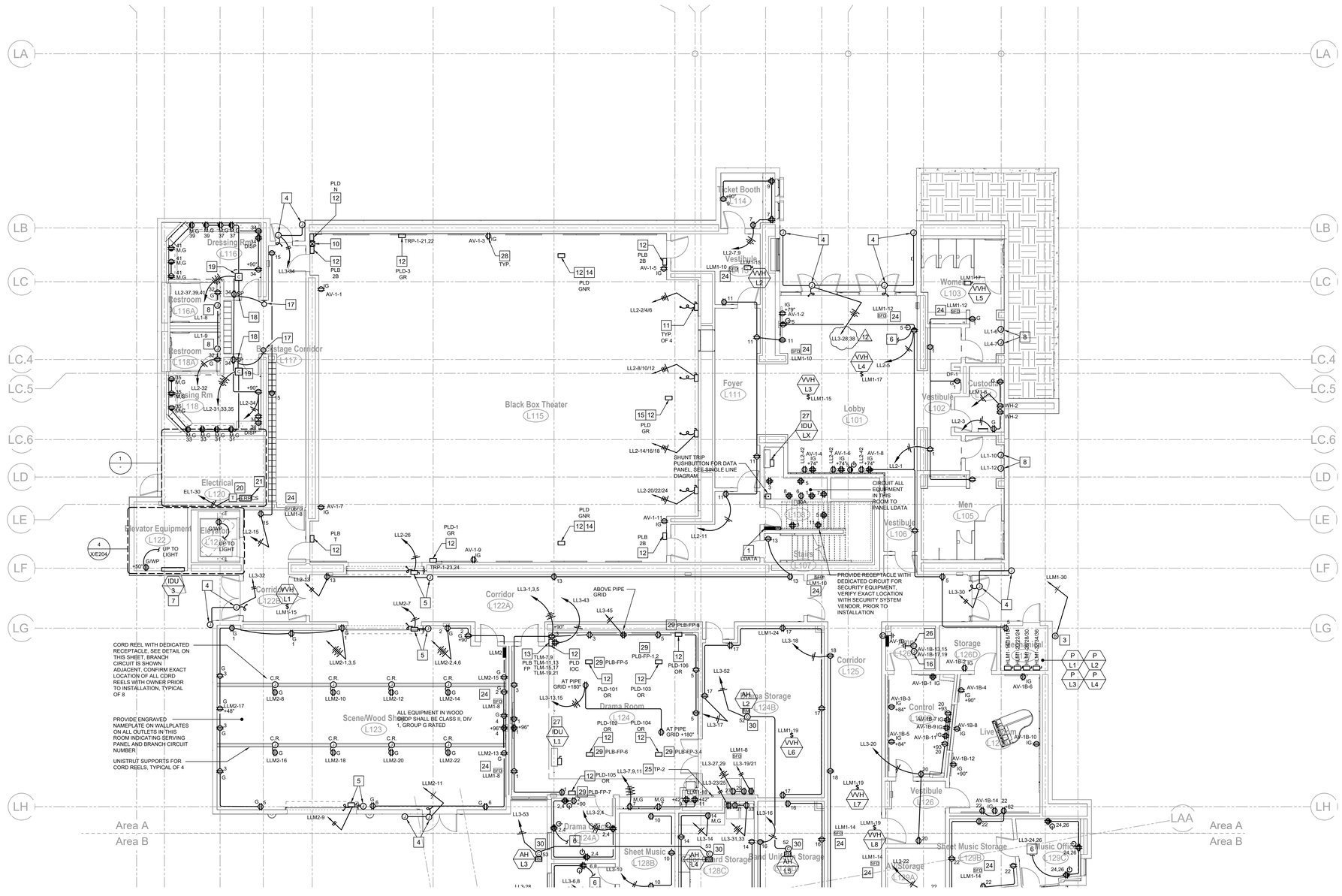
SCALE: 1/4"=1'-0"



2 CORD REEL MOUNTING DETAIL

SCALE: NOT TO SCALE

NOTE:
FOR CLARIFICATION, SOME HOMERUNS HAVE NOT BEEN SHOWN ON THIS SHEET. CONTRACTOR TO PROVIDE ALL REQUIRED HOMERUNS. REFER TO PANEL SCHEDULES FOR CONDUCTORS SIZES



BUILDING L FIRST FLOOR ELECTRICAL PLAN AREA A

SCALE: 1/8"=1'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. ELECTRICAL PANEL, SEE SINGLE LINE DIAGRAM AND REFER TO PANEL SCHEDULES.
2. LOCATIONS FOR FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCHES.
3. PROVIDE 120V CONNECTION TO FIRE SPRINKLER BELL AS PER FIRE PROTECTION DRAWINGS.
4. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER CONTROLLER AND LOW VOLTAGE CONTROLS ROUGH-IN AT INTERIOR AND EXTERIOR BOLLARDS (AS APPLICABLE) AS PER ARCHITECTURAL PLANS AND DOOR MANUFACTURERS RECOMMENDATIONS.
5. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER AND ROUGH-IN FOR LOW VOLTAGE CONTROLS AND LOW VOLTAGE WIRING AS PER MANUFACTURER'S INSTRUCTIONS.
6. BRANCH CIRCUIT UP TO LIGHTING CONTROLS, SEE LIGHTING CONTROL PLANS.
7. PROVIDE LINE VOLTAGE CONNECTION TO INDOOR UNIT FROM CORRESPONDING OUTDOOR UNIT AS PER MECHANICAL PLANS.
8. PROVIDE CONNECTION TO ELECTRIC HAND DRYER PER HAND DRYER MANUFACTURERS RECOMMENDATIONS.
9. (1) 1-1/4" C.O. TO PANEL INDICATED.
10. MISCELLANEOUS POWER COMPANY SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
11. FIELD COORDINATE MOUNTING LOCATION WITH TELESCOPIC SEATING CONTRACTOR. TYPICAL OF 4.
12. PRODUCTION LIGHTING DEVICE. REFER TO PRODUCTION LIGHTING SHEETS FOR MORE INFORMATION.
13. PROVIDE (8) 20A ISOLATED GROUND DEDICATED CIRCUITS TO PRODUCTION LIGHTING PUSHBUTTON PANEL STATION. REFER TO PRODUCTION LIGHTING SHEETS FOR MORE INFORMATION.
14. MOUNT PRODUCTION LIGHTING DEVICE TO UNDERSIDE OF CATWALK.
15. MOUNT PRODUCTION LIGHTING DEVICE TO PIPE BELOW CONTROL BOOTH WINDOW.
16. PROVIDE (4) 20A ISOLATED GROUND DEDICATED CIRCUITS TO AV EQUIPMENT RACKS. CONNECT RACEWAY USING NON-CONDUCTIVE CONDUIT TO MAINTAIN ISOLATED GROUND.
17. STEADY-ON LED RED PILOT LIGHT, MOUNT ADJACENT TO DOOR, LIGHT TO INDICATE WHEN RECEPTACLES AND LIGHTING ABOVE DRESSING ROOM COUNTERS ARE ENERGIZED, VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
18. SWITCH FOR CONTROL OF RECEPTACLES AND LIGHTING ABOVE DRESSING ROOM COUNTER.
19. 6 POLE DRESSING ROOM CONTROLS CONTACTOR FOR CONTROL OF ABOVE COUNTER RECEPTACLES COUNTER AND 'DR' TYPE FIXTURE LIGHTING BRANCH CIRCUITS, MOUNT IN NEMA 1 ENCLOSURE IN ACCESSIBLE CEILING SPACE.
20. PROVIDE 500VA, 277-120V TRANSFORMER IN NEMA 1 ENCLOSURE HIGH ON WALL FOR ERRC SYSTEM EQUIPMENT POWER.
21. 3" GRS CONDUIT TO ROOF AND BETWEEN FLOORS FOR ERRCS CABLING, REFER TO ARCHITECTURAL PLANS 2-HR RATED PATHWAY LOCATIONS.
22. EMERGENCY RESPONDER RADIO COVERAGE SYSTEM EQUIPMENT (ERRCS), REFER TO SPECIFICATIONS, PROVIDE 3/4" THICK FIRE RATED 4' X 8' PLYWOOD BKBD BEHIND ERRCS EQUIPMENT.
23. UNDERGROUND POWER DISTRIBUTION SYSTEM FEEDER, SEE SINGLE LINE DIAGRAM AND SITE ELECTRICAL PLANS.
24. PROVIDE 120V CONNECTION TO SMOKE FIRE DAMPER AS PER MECHANICAL PLANS.
25. PROVIDE 120V CONNECTION TO MOTORIZED TRAP PRIMER AS PER PLUMBING PLANS.
26. PROVIDE #3/0 AWG CABLE FOR CONNECTION TO AV EQUIPMENT RACKS TO ISOLATED GROUND, AS PER AV DRAWINGS, BRING INTO RACK USING NON-CONDUCTIVE CONDUIT TO COPPER IG BUS.
27. PROVIDE LINE VOLTAGE FROM INDOOR UNIT TO CORRESPONDING OUTDOOR UNIT AS PER MECHANICAL PLANS.
28. REFER TO PRODUCTION LIGHTING DRAWINGS FOR SPECIFIC REQUIREMENTS FOR ALL "IG" TYPE RECEPTACLES.
29. DEDICATED CIRCUIT(S), RUN TO PRODUCTION RELAY PANEL STATION.
30. CONTACTOR FOR HVAC UNIT SHUTDOWN, SEE 3-X/E503.

General Notes

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Project

BUILDING L FIRST FLOOR ELECTRICAL PLAN AREA A
Drawing

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Architect

No.	Revision/Submission	Date
13	RFP 13	08/27/24
28	CCD #28	02/20/25
9	ADDENDUM #9	10/02/26
12	ADDENDUM #12	10/19/26

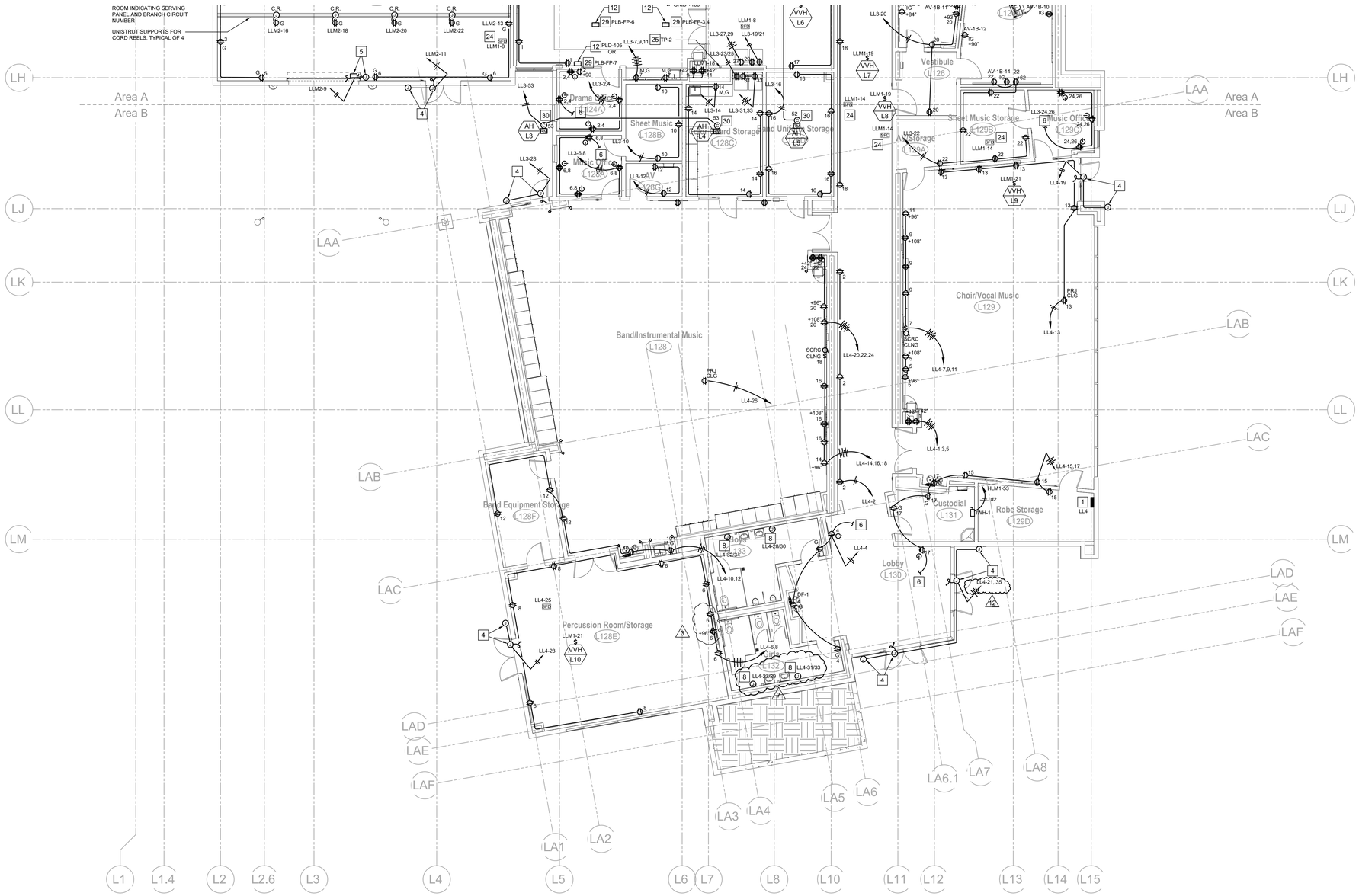
Revision

Designed By:
Drawn By:
Checked By:
Reviewed By:
Scale: As indicated
Project Number: 2171
Date: 08/27/24

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L/E201.4
AD12

NOTE:
FOR CLARIFICATION, SOME HOMERUNS HAVE NOT BEEN SHOWN ON THIS SHEET. CONTRACTOR TO PROVIDE ALL REQUIRED HOMERUNS. REFER TO PANEL SCHEDULES FOR CONDUCTORS SIZES



BUILDING L FIRST FLOOR ELECTRICAL PLAN AREA B

SCALE: 1/8"=1'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. ELECTRICAL PANEL, SEE SINGLE LINE DIAGRAM AND REFER TO PANEL SCHEDULES.
2. LOCATIONS FOR FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCHES.
3. PROVIDE 120V CONNECTION TO FIRE SPRINKLER BELL AS PER FIRE PROTECTION DRAWINGS.
4. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER CONTROLLER AND LOW VOLTAGE CONTROLS ROUGH-IN AT INTERIOR AND EXTERIOR BOLLARDS (AS APPLICABLE) AS PER ARCHITECTURAL PLANS AND DOOR MANUFACTURERS RECOMMENDATIONS.
5. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER AND ROUGH-IN FOR LOW VOLTAGE CONTROLS AND LOW VOLTAGE WIRING AS PER MANUFACTURER'S INSTRUCTIONS.
6. BRANCH CIRCUIT UP TO LIGHTING CONTROLS, SEE LIGHTING CONTROL PLANS.
7. NOT USED.
8. PROVIDE CONNECTION TO ELECTRIC HAND DRYER PER HAND DRYER MANUFACTURERS RECOMMENDATIONS.
9. (1) 1-1/4" C.O. TO PANEL INDICATED.
10. REFER TO PRODUCTION LIGHTING DRAWINGS FOR SPECIFIC REQUIREMENTS FOR ALL "IG" TYPE RECEPTACLES.

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Architect

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Revision

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Date: 08/27/24	Reviewed By:	AD12

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