ADDENDUM "6"

REFERENCE: P.E. Replacement Project
College of the Redwoods
7351 Tompkins Hill Road
Eureka, California 95501
DSA Application # 01-119705
DSA File # 12-C1

FROM: tBP Architecture
1777 Oakland Blvd., Suite 320
Walnut Creek, CA 94596

TO: Division of State Architect – Oakland Regional Office
1515 Clay Street, Suite 1201
Oakland, CA 94612

This Addendum "6", dated September 5, 2024, forms a part of the Contract Documents, and modifies the Bid Documents approved by DSA on January 16, 2024, and Addendum "1" dated June 18, 2024, Addendum "2", dated July 1, 2024, Addendum "3", dated July 23, 2024, Addendum "4" dated August 20, 2024, and Addendum "5" dated August 23, 2024.

This Addendum consists of 41 pages and all attachments noted herein.

MODIFICATIONS TO PROJECT MANUAL / SPECIFICATIONS:

Replaced Specifications:

	Section	Title
1.	00 52 00	Agreement Forms (Construction Agreement Form)
2.	07 41 13	Standing-Seam Metal Roof and Wall Panels
3.	09 62 53	Synthetic Turf Flooring

MODIFICATIONS TO DRAWINGS:

Replaced Drawings: (Full Size Sheets)

Revisions are indicated by a revision cloud around the revised portion of the drawing and marked with a Delta “6”.

	Drawing:	Title	Dated
1.	G001	Sheet Index, Project Directory	9-05-24
2.	C001	Civil Notes	9-05-24
3.	1A704	Interior Elevations Weight Room - PE	9-05-24
4.	1A708	Interior Elevations - PE	9-05-24
5.	1A801	Finish Schedule - PE	9-05-24
6.	2A801	Room Finish Schedule - FH	9-05-24
7.	A909.8	Interior Details	9-05-24
8.	P601	Schedules	9-05-24

Attachments:

Specifications:

	Section	Title
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Drawings:

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END OF
ADDENDUM 6

Supporting Documents:

1. Answers to Bidder's Questions

SECTION 00 52 00
AGREEMENT FORMS

CONSTRUCTION AGREEMENT

CONTRACT NO. _____
(Construction Agreement)

==========

This Agreement shall not be enforceable until ratified and approved by the Redwoods Community College District's Governing Board. The estimated board meeting is February 6, 2024.

(§1.1) Parties: (Public Agency) **REDWOODS COMMUNITY COLLEGE DISTRICT**
7351 Tompkins Hill Rd., Eureka, CA 955001

(Contractor) _____
Address: _____
_____

(§1.2) Effective Date: _____

(§1.3) The Work: **PE Replacement Project**

(§1.4) Substantial Completion Time: **929 Calendar Days** from the Notice to Proceed.

(§1.4.1) Final Completion Milestone for the Field House, Gym and associated work: **60 Calendar Days** from Substantial Completion.
(§1.4.2) College completion of move out of existing PE buildings: **35 Calendar Days** from Substantial Completion of the Field House & Gym
(§1.4.3) Demolition of existing PE buildings and Final Completion: **120 Calendar Days** from College completion of move into new buildings.
(§1.4.4) Total duration to Final Completion: **1083 Calendar Days** from the Notice to Proceed

(§1.5) The Bidder acknowledges that this project contains a Final Completion Milestone and bidder agrees that this milestone must be substantially completed and accepted by the Owner before a written "Notice to Proceed" is issued for the demolition of the existing Art Building. Bidder also agrees to pay, as liquidated damages the amounts specified below for each consecutive calendar day after the expiration of the consecutive calendar days allowed for each phase.

(§1.5.1) Liquidated Damages, Substantial Completion **$2,000/** per calendar day Work is delayed

(§1.5.2) Liquidated Damages, Remaining Work and Final Completion: **$1,000 /** per calendar day Remaining Work is delayed for 1) Final Completion Milestone (§1.4.1) Gym and Field House and 2) Final Completion of Demolition of the existing PE Buildings (§1.4.3).

(§1.6) Public Agency's Agent: **REDWOODS COMMUNITY COLLEGE DISTRICT ("District")**

(§1.7) Contract Sum: **____MILLION,_____THOUSAND,_____HUNDRED DOLLARS and NO CENTS ($00,000,000.00)**

2. SCOPE OF WORK:

The Work consists of:

1. CONSTRUCTION OF A NEW PHYSICAL EDUCATION BUILDING WITH SPECTATOR GYMNASIUM
2. CONSTRUCTION OF A NEW FIELD HOUSE BUILDING WITH INTERIOR PRACTICE FIELD
3. SITE WORK INCLUDING RETAINING WALLS, FIRE LANES, PARKING SPACES, FIRE HYDRANTS, UTILITIES, PATHS OF TRAVEL, SITE LIGHTING, FLATWORK, LANDSCAPING, AND OTHER SITE DEVELOPMENT
4. ABATEMENT OF HAZARDOUS MATERIALS AND DEMOLITION OF THE EXISTING PHYSICAL EDUCATION / FIELD HOUSE BUILDINGS AND SURROUNDING SITE AREAS
5. SITE RESTORATION AT DEMOLISHED BUILDINGS
6. NEW GENERATOR AND TRANSFORMERS
7. OTHER WORK AS INDICATED IN THE CONTRACT DOCUMENTS

3. WORK CONTRACT, CHANGES

(a) By their signatures below, effective on the above date, these parties promise and agree as set forth in this Agreement, incorporating by these references labor and materials contained in Section 2, Scope of Work.

(b) Contractor shall, at Contractor's own cost and expense, and in a workmanlike manner, fully and faithfully perform and complete the work; and will furnish all materials, labor, services, equipment, and transportation necessary, convenient and proper in order fairly to perform the requirements of this contract, all strictly in accordance with the Public Agency's plans, drawings and specifications.

(c) The work can be changed only with Public Agency's prior written order specifying such change and its cost agreed to by the parties; and the Public Agency shall never have to pay more than specified in Section 1.7 without such an order.

4. TIME: NOTICE TO PROCEED AND ACCEPTANCE

(a) Contractor shall start this work as directed in the specifications or the Notice to Proceed and shall complete it as specified in Section 1, Completion Time.

(b) Remaining Work after Substantial Completion. If the Architect or District determines that the work required by the Contract is Substantially Complete during any inspection conducted pursuant to this Agreement or Specification Section 01 77 00, Closeout Procedures, the Contractor shall be notified of that determination and the District shall determine if there is Remaining Work. A list of Remaining Work shall be issued only by the District or the Architect and only after the District has certified Substantial Completion. The District or Architect shall give the Contractor the necessary instructions for correction or completion of the Remaining Work, and the Contractor shall immediately comply with and execute such instructions within the Contract Time. Upon completion of the Remaining Work, another inspection shall be made that shall constitute the Final Inspection, provided the Remaining Work has been completed to the satisfaction of the District. If the remaining work has been completed to the satisfaction of the District, the District shall make the final acceptance and notify the Contractor in writing of this acceptance as of the date of Final Inspection.

(c) Final Acceptance – Upon due notice from the Contractor of completion of the entire project, the District shall make an inspection. If all construction provided for and contemplated by the contract is found to be completed to the District's satisfaction, then that inspection shall constitute the Final Inspection and the District shall notify the Contractor in writing of final acceptance effective as of the date of the Final Inspection.

(d) Default for failure to Complete Remaining Work In the event the Contract Time expires before the Remaining Work is completed to the satisfaction of the District, the District may provide notice to the Contractor that the Remaining Work shall be completed by Contractor to the satisfaction of the District within ten consecutive calendar days from the date of such notice. The failure of the Contractor to satisfactorily complete the Remaining Work within the ten days shall entitle to District to declare Contractor in default and thereafter terminate the Contract. The ten-day notice provided under this paragraph shall not be construed as adding any time to the Contract Time and is a time period solely for the purposes of providing notice of default.

(e) Application for Final Payment. After the Contractor has completed all Remaining Work to the satisfaction of the District and delivered all maintenance and operating instructions, schedules, guarantees, warranties, bonds, certificates of inspection, marked-up record documents and other documents as required by the Contract, and after the District or Architect has indicated that the work is acceptable, Contractor may make application for final payment following the Payments Procedures for progress payments. The final application for payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to the District) of all liens arising out of or filed in connection with the work on the project.

(f) Final Payment and Acceptance. If the Architect determines that the work has been completed and the Contractor's other obligations under the Contract have been fulfilled, the Architect shall, within ten working days after receipt of the final application for payment, indicate in writing the Architect's recommendation of payment and present the application to District for payment. Thereupon the Architect shall prepare a Certificate of Final Completion. Otherwise, Architect shall return the application to Contractor indicating in writing the reasons for refusing to recommend final payment. Contractor shall make the corrections identified in the Architect's refusal to recommend final payment. Thirty days after presentation to District of the application and accompanying documentation, with the Architect's recommendation and notice of acceptability of the work, the amount recommended by Architect shall be come due and payable by District to Contractor.

5. LIQUIDATED DAMAGES

5.1 LIQUIDATED DAMAGES - SUBSTANTIAL COMPLETION

If the Contractor fails to complete this contract and this Work within the time fixed therefore, allowance being made for contingencies as provided herein, Contractor becomes liable to the Public Agency for all its loss and damage there from; and because, from the nature of the case, it is and will be impracticable and extremely difficult to ascertain and fix the Public Agency's actual damage from any delay in performance hereof, it is agreed that Contractor will pay as liquidated damages to the Public Agency the reasonable sum specified in Section 1, the result of the parties' reasonable endeavor to estimate fair average compensation therefore, for each calendar day's delay in finishing said Work or Phase of Work; and if the same be not

paid, Public Agency may, in addition to its other remedies, deduct the same from any money due or to become due Contractor under this Contract. If the Public Agency for any cause authorizes or contributes to a delay, suspension of work or extension of time, its duration shall be added to the time allowed for completion, but it shall not be deemed a waiver nor be used to defeat any right of the Agency to damages for non-completion or delay hereunder. Pursuant to Government Code Section 4215, the Contractor shall not be assessed liquidated damages for delay in completion of the work, when such delay was caused by the failure of the Public Agency or the owner of a utility to provide for removal or relocation of existing utility facilities.

5.2 LIQUIDATED DAMAGES-THE REMAINING WORK.

The Remaining Work, as such work is determined by the Public Agency or Public Agency's Representative, shall be completed within the Contract Time or any proper extension thereof granted by Public Agency. If the Contractor shall neglect, fail or refuse to complete the Remaining Work within the Contract Time or any proper extension thereof granted by the Public Agency, then the Contractor does hereby agree, as part consideration for the awarding of this Contract, to pay to the Public Agency the amount specified in the Contract, not as a penalty but as liquidated damages for the Remaining Work for each such breach of Contract set forth herein for each and every consecutive calendar day that the Contractor shall be in default after expiration of the Contract Time.

6. INTEGRATED DOCUMENTS

The plans, drawings and specifications and special provisions of the Public Agency's Invitation to Bid, and Contractor's accepted bid for this work are hereby incorporated into this Contract; and they are intended to cooperate, so that anything exhibited in the plans or drawings and not mentioned in the specifications or special provisions, or vice versa, is to be executed as if exhibited, mentioned and set forth in both, to the true intent and meaning thereof when taken all together; and differences of opinion concerning these shall be finally determined by the Public Agency.

7. PAYMENT

(a) For strict and literal fulfillment of these promises and conditions, and full compensation for all this work, the Public Agency shall pay the Contractor the sum specified in Section 1, except that in unit price contracts the payment shall be for finished quantities at unit bid prices.

(b) On or about the first day of each calendar month, the Contractor shall submit to the Public Agency a verified application for payment, supported by a statement showing all materials actually installed during the preceding month, the labor expended thereon, and the cost thereof; whereupon, after checking, the Public Agency shall issue to Contractor a certificate for the amount determined to be due, minus five (5%) percent thereof pursuant to the Public Agency's General Terms and Conditions, but not until defective work and materials have been removed, replaced and made good.

8. PAYMENTS WITHHELD

(a) The Public Agency or its agent may withhold any payment, or because of later discovered evidence nullify all or any certificate for payment, to such extent and period of time only as may be necessary to protect the Public Agency from loss because of:

(1) Defective work not remedied, or work not completed, or
(2) Claims filed or reasonable evidence indicating probable filing, or
(3) Failure to properly pay subcontractors or for material or labor, or
(4) Reasonable doubt that the work can be completed for the balance then unpaid, or
(5) Damage to another contractor, or
(6) Damage to the Public Agency, other than damage due to delays.

(b) The Public Agency shall use reasonable diligence to discover and report to the Contractor, as the work progresses, the materials and labor which are not satisfactory to it, so as to avoid unnecessary trouble or cost to the Contractor in making good any defective work or parts.

(c) Thirty-five (35) calendar days after Public Agency files its notice of completion of the entire work, it shall issue a certificate to the Contractor and pay the balance of the contract price after deducting all amounts withheld under this contract, provided the Contractor shows that all claims for labor and materials have been paid, no claims have been presented to the Public Agency based on acts or omissions of the Contractor, and no liens or withhold notices have been filed against the work or site, and provided there are not reasonable indications of defective or missing work or of late-recorded notices of liens or claims against Contractor.

9. INSURANCE

Contractor's Liability Insurance: Before the commencement of the Work, the Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in California as admitted carriers with a financial rating of at least A status as rated in the most recent edition of Best's Insurance Reports or as amended by the Supplementary General Conditions, if any, such insurance as will protect the Public Agency from claims set forth below, which may arise out of or result from the Contractor's operations under the Contract and for which the Contractor may be legally liable, whether such operations are by the Contractor, by a Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

(a) Claims for damages because of bodily injury, sickness, disease, or death of any person. District would require indemnification and coverage for employee claim;

(b) Claims for damages insured by usual personal injury liability coverage, which are sustained by a person as a result of an offense directly or indirectly related to employment of such person by the Contractor or by another person;

(c) Claims for damages because of injury or destruction of tangible property, including loss of use resulting therefrom, arising from operations under the Contract Documents;

(d) Claims for damages because of bodily injury, death of a person, or property damage arising out of the ownership, maintenance, or use of a motor vehicle, all mobile equipment, and vehicles moving under their own power and engaged in the Work;

(e) Claims involving contractual liability applicable to the Contractor's obligations under the Contract Documents, including liability assumed by and the indemnity and defense obligations of the Contractor and the Subcontractors; and

(f) Claims involving Completed Operations, Independent Contractors' coverage, and Broad Form property damage, without any exclusions for collapse, explosion, demolition, underground coverage, and excavating. (XCU)

(g) Claims involving sudden or accidental discharge of contaminants or pollutants.

Subcontractor Insurance Requirements: The Contractor shall require its Subcontractors to take out and maintain ~~similar~~ public liability insurance and property damage insurance as required under the above paragraph, titled "Contractor's Liability Insurance, in amounts commensurate with the value of the subcontract. A "claims made" or modified "occurrence" policy shall not satisfy the requirements of the above paragraph, titled "Contractor's Liability Insurance, without prior written approval of the District.

Additional Insured Endorsement Requirement: The Contractor shall name, on any policy of insurance, the District, Architect, Construction Manager, Inspector, the State of California, their officers, employees, agents and independent contractors as Additional Insured. Subcontractors shall name the Contractor, the District, Architect, Construction Manager, Inspector, the State of California, their officers, employees, agents and independent contractors as Additional Insured.

The Additional Insured Endorsement included on all such insurance policies shall be on a CG 2010 11 85 form, CG2033 07 04 (Operations) and a CG2037 07 04 (Completed Operations) or their equivalent, and shall state that coverage is afforded the additional insured with respect to claims arising out of operations and Completed Operations performed by or on behalf of the insured. If the Additional Insured have other insurance which is applicable to the loss, such other insurance shall be on an excess or contingent basis. The insurance provided by the Contractor must be designated in the policy as primary to any insurance obtained by the Public Agency. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

Workers' Compensation Insurance: During the term of this Contract, the Contractor shall provide workers' compensation insurance for all of the Contractor's employees engaged in Work under this Contract on or at the Site of the Project and, in case any of the Contractor's Work is subcontracted, the Contractor shall require the Subcontractor to provide workers' compensation insurance for all the Subcontractor's employees engaged in Work under the subcontract. Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by the Contractor's insurance. In case any class of employees engaged in Work under this Contract on or at the Site of the Project is not protected under the Workers' Compensation laws, the Contractor shall provide or cause a Subcontractor to provide adequate insurance coverage for the protection of those employees not otherwise protected. The Contractor shall file with the District certificates of insurance as required under Section 00 70 00, Article 11.6, and in compliance with Labor Code § 3700.

Specific Insurance Requirement: Contractor shall take out and maintain ~~and shall require all subcontractors, if any, whether primary or secondary, to take out and maintain~~:

(a) Workers' Compensation Insurance: $1,000,000.00; Contractor is aware of and complies with Labor Code Section 3700 and the Worker's Compensation Law.

(b) Comprehensive General Liability Insurance with a combined single limit per occurrence of not less than $5,000,000.00 and $10,000,000.00 project specific aggregate, or Commercial General Liability Insurance (including automobile insurance) which provides limits of not less than:

(1)	Per occurrence (combined single limit)	$5,000,000.00
(2)	Project Specific Aggregate (for this project only)	$10,000,000.00
(3)	Products and Completed Operations	$5,000,000.00

(c) Insurance Covering Special Hazards

The following Special hazards shall be covered by riders or riders to above mentioned public liability insurance or property damage insurance policy or policies of insurance, in amounts as follows:

(1)	Automotive and truck where operated in amounts	$1,000,000.00
(2)	Material Hoist where used in amounts	$1,000,000.00
(3)	Explosion, Collapse and Underground (XCU coverage)	$1,000,000.00

(d) In addition, provide Excess Liability Insurance coverage in the amount of Two Million Dollars ($2,000,000.00).

(e) There shall be no endorsements or exclusions related to soils movement or subsidence including: soil erosion, freezing or thawing, improperly compacted soil or construction defects, roots of trees or shrubs, collapse of storm or sewer drains, or natural occurring shrink or swell soil.

Builder's Risk/ "All Risk" Insurance/ Course-of-Construction Insurance Requirements: The Contractor, during the progress of the Work and until final acceptance of the Work by District upon completion of the entire Contract, shall maintain Builder's Risk, Course of Construction or similar first party property coverage issued on a replacement cost value basis consistent with the total replacement cost of all insurable Work and the Project included within the Contract Documents. Coverage is to insure against all risks of accidental direct physical loss, and must include, by the basic grant of coverage or by endorsement, the perils of vandalism, malicious mischief (both without any limitation regarding vacancy or occupancy), fire, sprinkler leakage, civil authority, sonic boom, earthquake, flood, collapse, wind, lightning, smoke and riot. The coverage must include debris removal, demolition, increased costs due to enforcement of building ordinance and law in the repair and replacement of damage and undamaged portions of the property, and reasonable costs for the Architect's and engineering services and expenses required as a result of any insured loss upon the Work and Project which is the subject of the Contract Documents, including completed Work and Work in progress, to the full insurable value thereof. Such insurance shall include the District and the Architect as additional named insureds, and any other person with an insurable interest as designated by the District. The **maximum deductible** for this policy shall be **no greater than $250,000** unless approved by the District.

The Contractor shall submit to the District for its approval all items deemed to be uninsurable. The risk of the damage to the Work due to the perils covered by the "Builder's Risk/All Risk" Insurance, as well as any other hazard which might result in damage to the Work, is that of the Contractor and the surety, and no claims for such loss or damage shall be recognized by the District nor will such loss or damage excuse the complete and satisfactory performance of the Contract by the Contractor.

10. BONDS

Bond Requirements: Prior to commencing any portion of the Work, the Contractor shall furnish separate payment and performance bonds for its portion of the Work which shall cover 100% faithful performance of and payment of all obligations arising under the Contract Documents and/or guaranteeing the payment in full of all claims for labor performed and materials supplied for the Work. All bonds shall be provided by a corporate surety authorized and admitted to transact business in California as sureties.

To the extent, if any, that the Contract Price is increased in accordance with the Contract Documents, the Contractor shall, upon request of the Public Agency, cause the amount of the bonds to be increased accordingly and shall promptly deliver satisfactory evidence of such increase to the Public Agency. To the extent available, the bonds shall further provide that no change or alteration of the Contract Documents (including, without limitation, an increase in the Contract Price, as referred to above), extensions of time, or modifications of the time, terms, or conditions of payment to the Contractor will release the surety. If the Contractor fails to furnish the required bonds, the Public Agency may terminate the Contract for cause.

On signing this contract, Contractor shall deliver to Public Agency for approval good and sufficient bonds with sureties, in amount(s), specified in the specifications or special provisions, guaranteeing faithful performance of this contract and payment for all labor and materials hereunder.

11. FAILURE TO PERFORM

If the Contractor at any time refuses or neglects, without fault of the Public Agency or its agent(s), to supply sufficient materials or workers to complete this agreement and work as provided herein, for a period of ten days or more after written notice thereof by the Public Agency, the Public Agency may furnish same and deduct the reasonable expenses thereof from the contract price.

12. LAWS APPLY: General

Both parties recognize the applicability of various federal, state and local laws and regulations, especially Chapter 1 of Part 7 of the California Labor Code (beginning with Section 1720, and including Sections 1735, 1777.5, 1777.6, forbidding discrimination) and intend that this agreement complies therewith. The parties specifically stipulate that the relevant penalties and forfeitures provided in the Labor Code, especially in Sections 1775, 1776, and 1813, concerning prevailing wages and hours, shall apply to this agreement as though fully stipulated herein.

13. SUBCONTRACTORS

Public Contract Code Sections 4100-4113 are incorporated herein.

14. WAGE RATES

(a) Pursuant to Labor Code Section 1773, the Director of the Department of Industrial Relations has ascertained the general prevailing rates of wages per diem, and for holiday and overtime work, in the

locality in which this work is to be performed, for each craft, specified in the call for bids for this work and are on file with the Public Agency, and are hereby incorporated herein.

(b) This schedule of wages is based on a working day of eight (8) hours unless otherwise specified; and the daily rate is the hourly rate multiplied by the number of hours constituting the working day. When less than that number of hours are worked, the daily wage rate is proportionately reduced, but the hourly rate remains as stated.

(c) The Contractor, and all subcontractors, must pay at least these rates to all persons on this work, including all travel, subsistence, and fringe benefit payments provided for by applicable collective bargaining agreements. All skilled labor not listed above must be paid at least the wage scale established by collective bargaining agreement for such labor in the locality where such work is being performed. If it becomes necessary for the Contractor or any subcontractor to employ any person in a craft, classification or type of work (except executive, supervisory, administrative, clerical or other non-manual workers as such) for which no minimum wage rate is specified, the contractor shall immediately notify the Public Agency which shall promptly determine the prevailing wage rate therefore and furnish the Contractor with the minimum rate based thereon, which shall apply from the time of the initial employment of the person affected and during the continuance of such employment.

15. HOURS OF LABOR

Eight hours of labor in one calendar day constitutes a legal day's work, and no worker employed at any time on this work by the Contractor or by any subcontractor shall be required or permitted to work longer thereon except as provided in Labor Code Sections 1810-1815.

16. APPRENTICES

Properly indentured apprentices may be employed on this work in accordance with Labor Code Sections 1777.5 and 1777.6, forbidding discrimination.

17. PREFERENCE FOR MATERIALS

The Public Agency desires to promote the industries and economy of Humboldt County, and the Contractor therefore promises to use the products, workers, laborers and mechanics of this County in every case where the price, fitness and quality are at least equal.

18. ASSIGNMENT

This agreement binds the heirs, successors, assigns, and representatives of the Contractor; but Contractor cannot assign it in whole or in part, nor any monies due or to become due under it, without the prior written consent of the Public Agency and the Contractor's surety or sureties, unless they have waived notice of assignment.

19. NO WAIVER BY PUBLIC AGENCY

Inspection of the work and/or materials, or approval of work and/or materials inspected, or statement by any officer, agent or employee of the Public Agency indicating the work or any part thereof complies with the requirements of this contract, or acceptance of the whole or any part of said work and/or materials, or payments therefore, or any combination of these acts, shall not relieve the Contractor of Contractor's obligation to fulfill this contract as prescribed; nor shall the Public Agency be thereby stopped from bringing any action for damages or enforcement arising from the failure to comply with any of the terms and conditions hereof.

20. HOLD HARMLESS AND INDEMNITY

(a) Contractor promises to and shall hold harmless and indemnify from the liabilities as defined in this section.

(b) The Indemnitees benefited and protected by this promise are the Public Agency and its elective and appointive boards, commissions, officers, agents and employees.

(c) The liabilities protected against are any liability or claim for damage of any kind allegedly suffered, incurred or threatened because of actions defined below, including personal injury, death, property damage, inverse condemnation, or any combination of these, regardless of whether or not such liability, claim or damage was unforeseeable at any time before the Public Agency approved the improvement plan or accepted the improvements as completed, and including the defense of any suit(s) or action(s) at law or equity concerning these.

(d) The actions causing liability are any act or omission (negligent or non-negligent) in connection with the matters covered by this contract and attributable to the contractor, subcontractor(s), or any officer(s), agent(s), or employee(s) of one or more of them.

(e) Non-conditions: The promise and agreement in this section is not conditioned or dependent on whether or not any Indemnities has prepared, supplied, or approved any plan(s), drawing(s), specifications(s) or special provision(s) in connection with this work, has insurance or other indemnification covering any of these matters, or that the alleged damage resulted partly from any negligent or willful misconduct of any Indemnities.

21. EXCAVATION

Contractor shall comply with the provisions of Labor Code Section 6705, if applicable, by submitting to Public Agency a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during trench excavation.

22. Not Used

23. WARRANTY

(a) In addition to any other warranties or guaranties in the Contract Documents, the Contractor warrants, except as provided in paragraph (i) of this clause, that work performed under this contract

conforms to the contract requirements and is free of any defect in equipment, material, or design furnished, or workmanship performed by the Contractor or any subcontractor or supplier at any tier.

(b) This warranty shall continue for a period of 1 year from the date of final acceptance of the Work, unless otherwise provided or extended in the Contract Documents. If the District takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the District takes possession.

(c) The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to District-owned or controlled real or personal property, when that damage is the result of—

(1) The Contractor's failure to conform to contract requirements; or

(2) Any defect of equipment, material, workmanship, or design furnished.

(d) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for 1 year or as otherwise provided or extended from the date of repair or replacement.

(e) The District shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage.

(f) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the District shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.

(g) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall—

(1) Obtain all warranties that would be given in normal commercial practice;

(2) Require all warranties to be executed, in writing, for the benefit of the District, if directed by the District; and

(3) Enforce all warranties for the benefit of the District, if directed by the District.

(h) In the event the Contractor's warranty under paragraph (b) of this clause has expired, the District may bring suit at its expense to enforce a subcontractor's, manufacturer's, or supplier's warranty.

(i) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defects of material or design furnished by the District nor for the repair of any damage that results from any defect in District-furnished material or design.

(j) This warranty shall not limit the District's rights under the Inspection and Acceptance clause of this contract with respect to latent defects, gross mistakes, or fraud.

24. CONSEQUENTIAL DAMAGES

The Contractor and Public Agency waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes:

(a) Damages incurred by the Public Agency for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

(b) Damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination. Nothing contained in this subparagraph shall be deemed to preclude an award of liquidated direct damages, when applicable, in accordance with the requirements of the Contract Documents.

25. HAZARDOUS MATERIALS

(a) If reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos, lead or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Public Agency in writing.

(b) The Public Agency shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to verify that it has been rendered harmless. The Public Agency shall furnish in writing to the Contractor the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written notification from the Public Agency and Contractor. The Contract Time shall be extended appropriately.

26. SAFETY

(a) **Safety Programs.** In addition to and as required by other Sections of the Contract Documents, the Contractor shall be solely responsible for initiating, maintaining and supervising all safety programs required by applicable law, ordinance, regulation or governmental orders in connection with the performance of the Contract, or otherwise required by the type or nature of the Work. The Contractor's safety program shall include all actions and programs necessary for compliance with California or federally statutorily mandated workplace safety programs, including without limitation, compliance with the California Drug Free Workplace Act of 1990 (California Government Code §§8350 et seq.). Without limiting or relieving the Contractor of its obligations hereunder, the Contractor shall require that its Subcontractors similarly initiate and maintain all appropriate or required safety programs. Prior to commencement of Work, the Contractor shall meet with the campus Buildings and Grounds Manager, Project Manager, and Construction Manager to review Contractor's safety precautions and implementation of safety programs during the Work.

(b) **Safety Precautions.** In addition to and as required by other Sections of the Contract Documents, the Contractor shall be solely responsible for initiating and maintaining reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to: (i) employees on the Work and other persons who may be affected thereby; (ii) the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and (iii) other property or items at the site of the Work, or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction. The Contractor shall take adequate precautions and measures to protect existing roads, sidewalks, curbs, pavement, utilities, adjoining property and improvements thereon (including without limitation, protection from settlement or loss of lateral support) and to avoid damage thereto. Without adjustment of the Contract Price or the Contract Time, the Contractor shall repair, replace or restore any damage or destruction of the foregoing items as a result of performance or installation of the Work.

(c) **Safety Signs, Barricades.** In addition to and as required by other Sections of the Contract Documents, the Contractor shall erect and maintain, as required by existing conditions and conditions resulting from performance of the Contract, reasonable safeguards for safety and protection of property and persons, including, without limitation, posting danger signs and other warnings against hazards, promulgating safety regulations and notifying Districts and users of adjacent sites and utilities.

(d) **Safety Notices.** In addition to and as required by other Sections of the Contract Documents, the Contractor shall give or post all notices required by applicable law and comply with applicable laws, ordinances, rules, regulations and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

27. Not Used

28. SIGNATURES AND ACKNOWLEDGEMENT

Public Agency, By: _____
Keith Flamer – President/Superintendent

Note to Contractor: (1) Execute acknowledgement form below, and (2) if a corporation, affix Corporate Seal.

Contractor, hereby also acknowledging awareness of and compliance with Labor Code S1861 concerning Worker's Compensation Law.

Contractor:

By: _____ (CORPORATE SEAL)
(Designate Official Capacity – **COMPANY NAME)**

_____
Print NAME and TITLE

_____ _____
License Number Federal ID Number

NOTARY PUBLIC

==========

State of California)ss. ACKNOWLEDGEMENT (By Corporation, Partnership or Individual)
County of Humboldt)

The person(s) signing above for Contractor, known to me in individual and business capacity as stated, personally appeared before me today and acknowledged that he/she/they executed it and that the corporation or partnership named above executed it.

Dated: _____

_____ (NOTARIAL SEAL)

END OF SECTION 00 52 00

SECTION 07 41 13 - STANDING-SEAM METAL ROOF AND WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes standing-seam metal roof and wall panels, M-21 and M-05.
B. Accessories including concealed anchor clips, fasteners, metal framing members, perimeter flashing, snow guards, underlayment, trim and penetration treatments.
C. Related Sections:

1. Section 07 27 26 for air and water barriers.
2. Section 07 42 00 for composite metal panels.
3. Section 07 42 13 for insulated metal wall panels.
4. Section 07 62 00 "Flashings and Sheet Metalwork.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Meet with Architect, metal panel Installer, metal panel manufacturer's representative and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review structural loading limitations of deck during and after roofing.
6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
8. Review temporary protection requirements for metal panel systems during and after installation.
9. Review procedures for repair of metal panels damaged after installation.

B. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.3 SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

B. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.

C. Samples

1. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.
2. Include similar Samples of trim and accessories involving color selection.
3. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
4. Metal Panels: 12 inches long by actual panel width. Include clips, fasteners, closures, and other metal panel accessories.

D. Qualification Data: For Installer.
E. Product Test Reports: For each product, for tests performed by a qualified testing agency.
F. Field quality-control reports.
G. Sample Warranties: For special warranties.
H. Closeout submittals: Maintenance Data: For metal panels to include in maintenance manuals.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
C. Retain first subparagraph below for large-scale mockup. Indicate portion of roof represented by mockup on Drawings or draw mockup as separate element.
D. Build mockup of typical roof area and eave, including fascia, and soffit as shown on Drawings; approximately 48 inches by full thickness, including attachments, underlayment, and accessories.
E. Build mockups for typical roof area only, including accessories.
F. Each type of exposed seam and seam termination.
G. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
H. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

1.6 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.7 COORDINATION

A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.8 WARRANTY

A. Material Warranty: Standard form in which manufacturer agrees to repair or replace items that fail in materials or workmanship within specified warranty period. The items covered by the warranty include structural performance and finish performance.

1. Warranty Period: 2 years from date of Substantial Completion.

B. Installers "Weather-tight" Warranty: The Manufacturer Certified Installer shall provide a "leak-free" roofing warranty in which the installer agrees to repair leaks discovered in the roofing system under the terms outlined by the roofing manufacturer within the specified warranty period.

1. Warranty Period: 2 years from date Substantial Completion.

C. Weather-tight Warranty: Provide manufacturer's limited weathertightness warranty in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 20 years from date Substantial Completion,

D. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:

a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

E. Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof and wall panel assemblies that fail to remain weathertight, including leaks, within specified warranty period.

1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Energy Performance: Provide roof and wall panels that are listed on the EPA/DOE's ENERGY STAR "Roof Product List" for steep-slope roof products.

1. Solar reflective index (SRI): Not less than 29 per ASTM E1980.
2. Reflectance and Emissivity:

a. Solar Reflectance: Not less than 0.25 per ASTM test methods C1549 or E1918, or CRRC-1 Method #1.

3. Thermal Emissivity: Not less than 0.75 per ASTM C1371.

B. Energy Performance: Provide roof and wall panels according to one of the following when tested according to CRRC-1:

1. Three-year, aged solar reflectance of not less than and emissivity of not less than 0.75.

C. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:

1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.
3. Deflection Limits: For wind loads, no greater than 1/240 of the span.
4. Test-Pressure Difference: 6.24 lbf/sq. ft.

D. Water Penetration under Static Pressure: Provide metal roof and wall panel systems designed to resist penetration of water under static pressure. Testing shall be based on ASTM E331 and E1646. Roof and wall panels when tested shall have no water leakage at 10 pounds per square foot.

E. Wind-Uplift Resistance: Provide metal roof and wall panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.

1. Uplift Rating: UL 90.

F. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

G. Finish Characteristics:

1. Gloss: 15 +/- 5 tested in accordance with ASTM D523
2. Pencil Hardness: HB - H tested in accordance with ASTM D3363
3. Flexibility, T-Bend: 1-2T bend tested in accordance with ASTM D4145
4. Flexibility, Mandrel: No cracking tested in accordance with ASTM D522
5. Adhesion: No adhesion loss tested in accordance with ASTM D3359
6. Reverse Impact: No cracking or adhesion loss tested in accordance with ASTM D2794
7. Abrasion Resistance: 65 +/- 10 liters tested in accordance with ASTM D968
8. Graffiti Resistance: Minimal effect

9. Acid Pollutant Resistance: No effect tested in accordance with ASTM D1308
10. Salt Fog Resistance: Passes 1000 hours tested in accordance with ASTM B117
11. Cyclic Salt Fog and UV Exposure: Passes 2016 hours tested in accordance with ASTM D5894
12. Humidity Resistance: Passes 1500 hours when tested in accordance with ASTM D2247 and D714
13. Color Retention: Passes 5000 hours when tested in accordance with ASTM G153 and G154
14. Chalk Resistance: Maximum chalk is a rating of 8 when tested in accordance with ASTM D4214, Method A
15. Color Tolerances: Greater than 5?E units on panels when tested in accordance with ASTM D2244.

H. General: Provide factory-formed metal roof and wall panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.

1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E 1514.

2.2 STANDING-SEAM METAL ROOF AND WALL PANELS

A. Formed with integral ribs at panel edges and intermediate stiffening ribs symmetrically spaced between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels and lapping and interconnecting side edges of adjacent panels.

1. System based on Versa-Span SB roof and wall panels by Taylor Metal Products.
2. Or equal.
3. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
    a. Nominal Thickness: 0.0236-inches (24 gauge).
4. Clips: Two-piece floating to accommodate thermal movement.
    a. Material: 0.028-inch- nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.

B. Roof and wall panel Description:

1. Panels: 1.75” Snap Seam Metal Roof Panel
    a. Material: Steel
    b. 24 Gauge: minimum thickness of .0236-inches.
2. Thickness and yield strength as required for performance indicated: ASTM A653: Steel Sheet, Zinc Coated (Galvanized) Class G90 by the Hot Dip Process. For projects with multiple profiles of varied combinations of profiles, rib patters and finishes, show on drawing.
3. Panel Width and Pattern: 18-inches with striated pattern.

C. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.

1. Thermal Stability: Stable after testing at 300 deg F; ASTM D 1970.
2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D 1970.
3. System based on Ultra by GCP Applied Technologies, or equal.

D. Slip Sheet: ~~Manufacturer's recommended slip sheet, of type required for application.~~Not required.

E. Miscellaneous Metal Subframing and Furring: ASTM C 645; cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 coating designation or ASTM A 792/A 792M, Class AZ50 coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.

F. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

G. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

H. Panel Fasteners: Self-tapping screws designed to withstand design loads.

I. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.

1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
2. Exposed Joint Sealant: ASTM C 920; silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
3. Concealed Joint Sealant: Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.
4. Do not allow the silicone sealant to be in contact with the butyl sealant.

2.3 RIGID INSULATION-ROOF APPLICATION ONLY

A. ACFoam®-II Rigid Polyisocyanurate Roof Insulation, ASTM C1289 Type II, Class 1 Grade 2 (20 Psi) as manufactured by Atlas, or equal.

B. Complies with UL 2818 and has Green Guard Gold certification. Gold Standard for Chemical Emissions for Building Materials.

2.4 ACCESSORIES

A. Custom formed closure /fascia panels to match standing seam assemblies

2.5 FABRICATION

A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
C. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
D. Provide panels in full length from ridge to eave. Transverse seams not allowed.
E. Seams:

1. Panel seams shall interlock entire length of seam.
2. Design standing seam to lock up and resist joint disengagement during design wind uplift conditions as calculated according to local building codes.
3. Provide pre-installed sealant within confines of panel’s female leg to aid in resistance of leaks and provide panel-to-panel seal while allowing expansion and contraction movement.
4. Seams shall be continuously locked or crimped together by mechanical means during installation. Seaming tools shall be sourced from manufacturer.

F. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
2. Sealed Joints: Form non-expansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
3. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
4. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.

    a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

2.6 FINISHES

A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Steel Panels and Accessories:

1. Polyvinylidine Fluoride, full 70 percent Kynar 500®or Hylar 5000®, consisting of a baked-on 0.15-0.20 mil corrosion resistant primer and a baked-on 0.70-0.80 mil finish coat with a specular gloss of 8 to 15 when tested in accordance with ASTM D523 at 60 degree with a dry film thickness of not less than 0.2 mil for primer and 0.8 mil for topcoat.
2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.
3. Seam Sealant: Factory apply high-grade butyl mastic sealant within the confines of panel’s female leg, designed to seal against adjacent male panel leg.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
B. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof and wall panel manufacturer.
C. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof and wall panel manufacturer.
D. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
E. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 UNDERLAYMENT INSTALLATION

A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated on Drawings, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Extend underlayment into gutter trough. Roll laps with roller. Cover underlayment within 14 days.
B. Slip Sheet: Apply slip sheet over underlayment before installing metal roof and wall panels.
C. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 07 62 00 Flashing and Sheet Metalwork.

3.4 METAL PANEL INSTALLATION

A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise

indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.

B. Fasteners:

1. Steel Panels: Use stainless-steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.

C. Anchor Clips: Anchor metal roof and wall panels and other components of the Work securely in place, using manufacturer's approved fasteners according to manufacturers' written instructions.

D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.

E. Standing-Seam Metal Roof and wall panel Installation: Fasten metal roof and wall panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.

1. Install clips to supports with self-tapping fasteners.
2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
3. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.
4. Seamed Joint: Crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof and wall panel, and factory-applied sealant are completely engaged.
5. Watertight Installation:
    a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
    b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
    c. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.
6. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting and provide for thermal expansion. Coordinate installation with flashings and other components.
    a. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal roof and wall panel

manufacturers; or, if not indicated, types recommended by metal roof and wall panel manufacturer.

F. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

G. Gutters: Join sections with riveted and soldered or lapped and sealed joints. Attach gutters to eave with gutter hangers spaced not more than 36 inches o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.

H. Downspouts: See Section 05 50 00.

1. Connect downspouts to underground drainage system indicated.

I. Pipe Flashing: Form flashing around pipe penetration and metal roof and wall panels. Fasten and seal to metal roof and wall panels as recommended by manufacturer.

J. Dissimilar Metals or Materials:

1. Where panel or trim may come in contact with dissimilar metals or treated lumber, fabricate transition to facilitate drainage and minimize possibility of galvanic action. Galvanic action can cause panels and trim to fail prematurely.
2. At points of contact with dissimilar metal or treated lumber, coat panel and trim with protective paint or separate materials with a weatherproof underlayment.

3.5 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet on slope and location lines as indicated and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.6 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect metal roof and wall panel installation, including accessories. Report results in writing.

B. Remove and replace applications of metal roof and wall panels where tests and inspections indicate that they do not comply with specified requirements.

C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.

D. Prepare test and inspection reports.

3.7 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

SECTION 09 62 53 – SYNTHETIC TURF FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes Synthetic turf system consisting of Office of Environmental Health and Safety (OEHS) approved turf components, yarns, backings and infill.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Scheduling and sequencing: Schedule installations for minimal impact on other disciplines.
B. Coordination: Coordinate slab depression and below slab utilities.
C. Preinstallation Conference: Conduct conference at Project site.

1.3 SUBMITTALS

A. Product Data:

1. Submit manufacturer's catalog cuts, brochures, specifications; preparation and installation instructions and recommendations; storage, handling requirements and recommendations.
2. Submit manufacturer's instructions for installation.
3. Submit manufacturer's instructions for maintenance for the proper care and preventative maintenance of the synthetic turf system, including painting and markings.

B. Shop Drawings:

1. Show installation methods and construction indicating field verified conditions, clearances, measurements, terminations, drainage.

    a. Note deviations from contract documents. Include miscellaneous details for posts, inserts, covers, edge termination, utility vaults etc. required for a complete installation.
    b. Indicate composite striping plan, identifying inlaid markings, logos and graphics.

2. Provide a layout drawing showing expected layout of turf.

C. Samples:

1. Submit a synthetic turf sample, 12 x 12 inches, representing the turf carpet portion of the product proposed for this project.
2. Submit a 1-gallon zip lock bag of graded sand and cryogenic rubber crumb infill.

D. Qualification Data: For Installer, manufacturer and factory-authorized service representative.
E. Sample Warranty: For manufacturer's warranty.
F. Maintenance Data: For synthetic turf to include in maintenance manuals.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section. The turf contractor and/or the turf manufacturer:

1. Shall be experienced in the manufacture and installation of specified type of infilled slit-film synthetic grass system for a minimum of three years. This includes a slit-film fiber, backing, the backing coating, and the installation method.
2. The manufacturer must be a FIFA Preferred Producer and a FIFA Licensee
3. Shall have a minimum of 1 FIFA Quality Pro recommended field in North America.
4. The fiber and turf carpet being proposed must have a documented Fiber Performance Index of at least 70. Official testing to be completed by Labosport or acceptable lab.
5. Synthetic turf fiber proposed for the field(s) must have successfully undergone a Lisport wear test as part of Penn State University's fiber wear testing program. This fiber must be the same fiber that is being proposed for the field(s). Official Penn State test reports must be provided.
6. The manufacturer shall have full-time certified in-house inspectors at their manufacturing plant that are experts with industry standards.
7. Primary backing shall be inspected by the manufacturer's full-time certified in-house inspectors before tufting begins.
8. Manufacturer shall have its own, in-house laboratory where samples of turf are retained and analyzed, based on standard industry tests, performed by full-time, in-house, certified inspectors.
9. Manufacturer must provide proof that its turf systems have been subject to long-term independent, epidemiological and peer reviewed studies proving its ability to provide for a safe surface.

B. Installer: Company shall specialize in performing the work of this section. Provide competent workmen skilled in this specific type of synthetic grass installation.

1. The designated Supervisory Personnel on the project shall be certified, in writing by the turf manufacturer, as competent in the installation of specified slit-film material, including sewing seams and proper installation of the infill mixture.
2. Installer shall be certified by the manufacturer and licensed.
3. The installer supervisor shall have a minimum of 5 years’ experience as either a construction manager or a supervisor of synthetic turf installations.
4. Installer shall have successfully completed at least five projects of equal scope in the past five years and have been in business of furnishing and installing systems of this type for at least five years.
5. Seams shall not be visible and shall be seamed completely.
6. Fibers shall be free of depressions, bumps or shadows.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store components with labels intact and legible.
B. Store materials/components in a safe place, under cover, and elevated above grade.
C. Protect from damage during delivery, storage, handling and installation. Protect from damage by other trades.
D. Inspect all delivered materials and products to ensure they are undamaged and in good condition.
E. Comply with manufacturer's recommendations.

1.6 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace products that fail(s) in materials or workmanship within specified warranty period.

1. Warranty Period: ~~8~~ 5 year(s) from date of Substantial Completion.
2. The turf manufacturer must verify that their representative has inspected the installation and that the work conforms to the manufacturer's requirements.
3. The warranty shall be fully third party insured; prepaid for the entire ~~8~~ 5 ~~-~~year term and be non-prorated.
4. Provide a warranty to the Owner that covers defects in the installation workmanship, and further warrant that the installation was done in accordance with both the manufacturer's recommendations and any written directives of the manufacturer's representative.
5. Prior to final payment for the synthetic turf, submit to Owner notification in writing that the field is officially added to the annual policy coverage, guaranteeing the warranty to the Owner. The insurance policy must be underwritten by an "AM Best" A rated carrier and must reflect the following values:

B. Must cover full 100% replacement value of total square footage installed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Gmax to remain under 200 for the life of the warranty and shall be tested every other year by an independent testing lab in accordance with F1936 during the full 8-year warranty period.
B. Required FTHD-57 characteristics:

1. Cryogenic SBR Rubber Infill 2.2 Lbs/ft^2, minimum.
2. Sand 6.2 Lbs/ft^2, minimum.

C. Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
D. Flame-Spread Index: 25 or less.
E. Smoke-Developed Index: 450 or less.
F. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
G. Combustion Characteristics: ASTM E 136.

2.2 MANUFACTURERS

A. Basis of Design: FieldTurf USA, Inc. 175 N. Industrial Boulevard, Calhoun, GA 30701 Contact: Andrew Rowley at andrew@fieldturfnorcal.com.
B. Or equal.

2.3 DESCRIPTION

A. Artificial Turf (Astroturf) basis of design:

1. Classic HD 2.25 by FieldTurf.

2.4 MATERIALS

A. Synthetic grass system materials shall consist of the following:

1. Carpet made of slit-film polyethylene fibers tufted into a fibrous, non-perforated, porous backing.
2. Infill: graded sand and cryogenic rubber crumb that partially covers the carpet.
3. Glue, thread, paint, seaming fabric and other materials used to install and mark the synthetic grass slit film.

B. Carpet shall consist of slit-film fibers tufted into a primary backing with a secondary backing.

C. Carpet Rolls shall be 15' wide rolls.

1. Rolls shall be long enough to go from field sideline to sideline.
2. Perimeter white line shall be tufted into the individual sideline rolls.

D. Backing:

1. Primary backing shall be a minimum double-layered polypropylene fabric
2. Secondary backing shall permanently lock the fiber tufts in place.
3. Perforated (with punched holes), backed carpet are unacceptable.

E. Fiber shall be measuring no less than 2-1/4-inches high.

1. Systems with less than a 2-1/4-inch fibers are unacceptable.

F. Infill materials shall be approved by the manufacturer.

1. Infill shall consist of a resilient granular system, comprising selected and graded sand and cryogenically hammer-milled SBR rubber crumb.
2. Synthetic Grass products without cryogenically processed rubber shall not be accepted.

G. The sand infill will comply within the following characteristics:

1. Average Particle size between 20 and 30 mesh [calculated based on summing the midpoint of sieve pan fractions times the % retained on given screen fractions]
2. Average Particle shape > 0.4 on the Krumbein scale
3. Particle structure predominantly single grain
4. Produce < 0.4%, -50M in API crush test at 80psig

H. Non-tufted or inlaid lines and markings shall be painted with paint approved by the synthetic turf manufacturer.

I. Thread for sewing seams of turf shall be as recommended by the synthetic turf manufacturer.

J. Glue and seaming fabric for inlaying lines and markings shall be as recommended by the synthetic turf manufacturer.

2.5 ACCESSORIES

A. Maintenance Equipment

~~J.~~1. Provide standard Groomer and Sweeper for specific product maintenance.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that all sub-base leveling is complete prior to installation.
B. The surface to receive the synthetic turf shall be inspected by the installer, and prior to the beginning of installation, the Installer must accept in writing the sub-base surface planarity and compaction. The surface must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION-GENERAL

A. The installation shall be performed in full compliance with approved Shop Drawings.
B. Only trained technicians, skilled in the installation of athletic caliber synthetic turf systems working under the direct supervision of the approved installer supervisors, shall undertake any cutting, sewing, gluing, shearing, topdressing or brushing operations.
C. The designated Supervisory personnel on the project must be certified, in writing by the turf manufacturer, as competent in the installation of this material, including sewing seams and proper installation of the Infill mixture.
D. Designs, markings, layouts, and materials shall conform to all currently applicable National Collegiate Athletic Association rules, NFHS rules, and/or other rules or standards that may apply to this type of synthetic grass installation. Designs, markings and layouts shall first be approved by the Architect or Owner in the form of final shop drawings. All markings will be in full compliance with final shop drawings.

3.3 INSTALLATION

A. Install at location indicated, to comply with final shop drawings, manufacturers'/installer's instructions.
B. Strictly adhere to specified procedures. Any variance from these requirements shall be provided in writing, by the manufacturer's on-site representative, and submitted to the Architect and/or Owner, verifying that the changes do not in any way affect the Warranty. Infill materials shall be approved by the manufacturer and installed in accordance with the manufacturer's standard procedures.
C. Install carpet rolls directly over the properly prepared aggregate base. Extreme care shall be taken to avoid disturbing the aggregate base, both regarding compaction and planarity.

    1. Repair and properly compact any disturbed areas of the aggregate base as recommended by manufacturer

D. Synthetic turf panel seams shall be sewn along the selvedge edging flap of the turf roll. Seams secured by other means including gluing are unacceptable. Installation shall be 99% sewn.

    1. Minimum gluing will only be permitted to repair problem areas, corner completions, and to cut in any logos or inlaid lines as required by the specifications.
    2. Seams shall be flat, tight, and permanent with no separation or fraying.
    3. In the case of all lines and logos, turf carpet/field fibers must be sheared to the backing (do not cut the backing) and adhered using hot melt adhesives.

E. Infill Materials:

1. Infill materials shall be applied in numerous thin lifts. The turf shall be brushed as the mixture is applied.
2. Infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional. The Infill installation consists of sand and cryogenically processed rubber. The Infill shall be installed to a minimum depth of 1 1/4".

F. Non-tufted or inlaid lines and markings shall be painted in accordance with turf and paint manufacturers' recommendations. Number of applications will be dependent upon installation and field conditions.
G. Synthetic turf shall be attached to the perimeter edge detail in accordance with the manufacturer's standard procedures.
H. Upon completion of installation, the finished field shall be inspected by the installation crew and an installation supervisor.

3.4 ADJUSTMENT AND CLEANING

A. Do not permit traffic over unprotected surface.
B. provide the labor, supplies, and equipment as necessary for final cleaning of surfaces and installed items.
C. usable remnants of new material shall become the property of the Owner.
D. Keep the area clean throughout the project and clear of debris.
E. Surfaces, recesses, enclosures, and related spaces shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.

3.5 PROTECTION

A. Protect installation throughout construction process until date of final completion.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel for proper use of field maintenance equipment and proper long-term maintenance of synthetic turf system for warranty compliance.

1. ~~Installers~~ District to ~~shall~~ provide a small field utility vehicle suitable for towing maintenance equipment to demonstrate how equipment works for training session.

B. Manufacturer must provide guidelines and a maintenance manual or video to the facility maintenance staff.

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F502	FIRE PROTECTION DETAILS
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FIRE PROTECTION: 19

GRAND TOTAL=: 394

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GENERAL CONFORMANCE

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,

INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

Application No. 01-119705 File No. 12-C1

[X] The drawings or sheets listed on this Index Sheet for the following Disciplines: STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, FIRE PROTECTION

[ ] The drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

This Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

I find that: [X] The drawings or sheets listed on this Index Sheet for the following Disciplines: STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, FIRE PROTECTION

[ ] This drawing or page

[X] Is/are in general conformance with the project design, and

[X] has/have been coordinated with the project plans and specifications

Signature: [signature] Date: December 4, 2023

Architect or Engineer designated to be in general responsible charge

Philip J. Newsom
Print Name

C23270 — License Number
10/31/2025 — Expiration Date

PROJECT SCOPE

THE SCOPE OF THE PROJECT INCLUDES:

1. CONSTRUCTION OF A NEW PHYSICAL EDUCATION BUILDING WITH SPECTATOR GYMNASIUM
2. CONSTRUCTION OF A NEW FIELD HOUSE BUILDING WITH INTERIOR PRACTICE FIELD
3. SITE WORK INCLUDING RETAINING WALLS, FIRE LANES, PARKING SPACES, (2) FIRE HYDRANTS, UTILITIES, PATHS OF TRAVEL, SITE LIGHTING, FLATWORK, LANDSCAPING, AND OTHER SITE DEVELOPMENT
4. ABATEMENT OF HAZARDOUS MATERIALS AND DEMOLITION OF THE EXISTING PHYSICAL EDUCATION / FIELD HOUSE BUILDINGS AND SURROUNDING SITE AREAS
5. SITE RESTORATION AT DEMOLISHED BUILDINGS
6. NEW GENERATOR AND TRANSFORMERS
7. OTHER WORK AS INDICATED IN THE CONTRACT DOCUMENTS

DEFERRED APPROVALS

1. OPEN WEB STEEL JOISTS & JOIST GIRDERS
2. TELESCOPIC SEATING (GYMNASIUM BLEACHERS)

NOTE TO CONTRACTOR

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code. (6)

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope Certification of Installation and Fenestration Acceptance forms to be completed by the installing contractor. (6)

A listing of certified ATT's can be found at https://w.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

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DSA File #12-C1
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tBP project number: 22035.00
file name:
drawn by: Author checked by: Checker
date: Issue Date 9/4/2024 5:00:01 PM

rev:	date:	description:
	12/04/23	BID SET
6	9/05/24	ADDENDUM 6

drawing title:
SHEET INDEX, PROJECT DIRECTORY

drawing no.:
G001

GENERAL SITE NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND REVIEW ALL AVAILABLE REFERENCE DRAWINGS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING.
2. IT IS EXPECTED THAT THE ACTUAL LOCATION OF EXISTING UTILITIES MAY VARY FROM THAT SHOWN ON THE PLANS. CONTRACTOR SHALL POTHOLE AND LOCATE ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO WORK COMMENCING FOR ANY EXCAVATION OR POTHOLING.
3. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
4. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION. DEBRIS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR WEEKLY.
5. CONTRACTOR TO MAINTAIN TRAFFIC (VEHICULAR AND PEDESTRIAN) ACCESS TO ALL AREAS OF CAMPUS AT ALL TIMES. CONTRACTOR TO COORDINATE ANY PROPOSED SHUT DOWNS WITH OWNER.
6. EXISTING ACCESSIBLE ROUTES AND ACCESSIBLE PARKING SERVING FACILITIES AND BUILDINGS THAT ARE OPERATIONAL DURING CONSTRUCTION SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PEOPLE WITH DISABILITIES.

GRADING NOTES

1. SURVEY OF EXISTING CONDITIONS PREPARED BY MULTIPLE ENTITIES. SEE SURVEY NOTES. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND ESTABLISHING ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER'S REPRESENTATIVE FOR CONFIRMATION TO DESIGN PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE TO MAINTAIN ALL STAKING THROUGHOUT COURSE OF PROJECT. COSTS FOR RESTAKING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL GRADES BETWEEN SPOT ELEVATIONS SHALL HAVE UNIFORM SLOPE UNLESS OTHERWISE INDICATED. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING WALLS AND DOORS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
5. ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH, ROCKS REMOVED, AND HYDROSEEDED..
6. ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.
7. DURING WET WEATHER PERIODS, CONTRACTOR IS RESPONSIBLE FOR SEQUENCING CONSTRUCTION IN A MANNER TO MINIMIZE IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.
8. COMPLETELY COVER ANY SOIL STOCKPILES WITH 6 MIL BLACK PLASTIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC IN PLACE. MONITOR PLASTIC COVER AS PART OF CONTINUOUS EROSION CONTROL PLAN. PLACE SILT FENCE COMPLETELY AROUND STOCKPILES.

EROSION CONTROL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING THE PROJECT SWPPP PER THE CURRENT NPDES GENERAL PERMIT REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING AND REPORTING. THE OWNER SHALL REGISTER THE PROJECT VIA SMARTS AND ESTABLISH ACCESS FOR THE QUALIFIED STORMWATER PRACTITIONER (QSP) PROVIDED BY THE CONTRACTOR.
3. THE EROSION CONTROL MEASURES SHOWN HERE ARE THE MINIMUM RECOMMENDED. THE CONTRACTOR SHALL ADHERE TO THE QSD/QSP SPECIFIC PLAN OF BMP'S (BEST MANAGEMENT PRACTICES) FOR THE PROJECT SITE APPROPRIATE TO THE PHASE OF CONSTRUCTION AND THE TIME OF YEAR.
4. BACK UP EROSION CONTROL MATERIALS SHALL BE STOCKPILED ON THE SITE TO ALLOW FOR TIMELY REPAIR AND MAINTENANCE OF ALL BMP'S.

VEGETATION PROTECTION AND RESTORATION NOTES

1. NO CUTTING OF ANY PART OF TREES, INCLUDING ROOTS, SHALL BE DONE WITHOUT SECURING APPROVAL FROM OWNER.
2. WHEN CONSTRUCTION OCCURS WITHIN DRIP LINE ON EXISTING TREES, CONTRACTOR IS TO PILE THE SOIL ON THE SIDE AWAY FROM THE TREE. WHEN THIS IS NOT POSSIBLE, PLACE SOIL ON PLYWOOD. A TARP, OR THICK BED OF MULCH. THIS IS TO HELP PREVENT CUTTING INTO THE SOIL SURFACE WHEN THE BACKHOE OR TRACTOR BLADE REFILLS THE TRENCH.
3. REFILL OPEN TRENCHES QUICKLY WITHIN 4 HOURS OF EXCAVATION WHEN THEY OCCUR WITHIN THE DRIP LINE OF EXISTING TREES. IF THIS IS NOT POSSIBLE AND WEATHER IS HOT, DRY, OR WINDY, CONTRACTOR MUST KEEP ROOT ENDS MOIST BY COVERING THEM WITH WET BURLAP. IF TEMPERATURE IS 80°F OR GREATER, THE BURLAP MUST BE INSPECTED EVERY HOUR AND RE-WET A NECESSARY TO MAINTAIN A CONSTANT COOL MOIST CONDITION. IF TEMPERATURE IS BELOW 80°, THE BURLAP MUST BE INSPECTED EVERY FOUR HOURS AND RE-WET AS NECESSARY TO MAINTAIN A CONSTANT COOL MOIST CONDITION. SMALL ROOTS CAN DRY OUT AND DIE IN 10-15 MINUTES. LARGER ROOTS CAN SUCCUMB IN AN HOUR OR LESS UNDER UNFAVORABLE WEATHER CONDITIONS.
4. WHEN ROOTS 2" OR LARGER MUST BE CUT, SHOVEL BY HAND NEAR THE ROOTS AND SAW THE ROOTS. ACCIDENTALLY BROKEN ROOTS SHOULD BE SAWED A COUPLE OF INCHES BEHIND THE RAGGED END. CRUSHED OR TORN ROOTS ARE MORE LIKELY TO ALLOW DECAY TO BEGIN; SHARPLY CUT ROOTS PRODUCE A FLUSH OF NEW ROOTS HELPING THE TREE TO RECOVER FROM ITS INJURY.
5. MATERIALS, EQUIPMENT, TEMPORARY BUILDINGS, FUELS, PAINTS AND OTHER CONSTRUCTION ITEMS ARE NOT TO BE PLACED WITHIN THE DRIP LINE OF EXISTING TREES.
6. GRADING SHOULD NOT CREATE DRAINAGE PROBLEMS FOR TREES BY CHANNELING WATER INTO THEM, OR CREATING SUNKEN AREAS.
7. LANDSCAPING THAT IS REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED IN KIND.
8. ALL DISTURBED AREAS THAT ARE NOT OTHERWISE COVERED OR LANDSCAPED SHALL BE HYDROSEEDED PER THE SPECIFICATIONS.
9. THE EXISTING PHYSICAL EDUCATION AND FIELDHOUSE SITE THAT IS TO BE REGRADED FOLLOWING DEMOLITION ACTIVITIES, SHALL BE RAKED SMOOTH AND ALL SURFACE DEBRIS AND ROCKS GREATER THAN 3" SHALL BE REMOVED PRIOR TO HYDROSEEDING. CONTRACTOR TO REFER TO APPLICABLE MAINTENANCE PERIOD FOR HYDROSEED IN SPECIFICATIONS AND PLANTING DRAWINGS.

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PERFORMED BY LACO ASSOCIATES, 2018, POINTS WEST SURVEYING, 2020, SURVEY 3DI, 2015 AND OTHERS.
2. TOPOGRAPHIC SURVEYS DO NOT NECESSARILY REPRESENT THE CURRENT SITE CONDITIONS. CONTRACTOR TO VERIFY SITE CONDITIONS.
3. HORIZONTAL CONTROL IS ON NAD83(2011) EPOCH 2010.00 BASIS, CALIFORNIA STATE PLANE COORDINATES, ZONE I. VERTICAL CONTROL IS ON NAVD88 BASIS.

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR. SEE GENERAL SITE NOTES 1 AND 2. SEE UTILITY LOCATING AND MAPPING SPECIFICATIONS.
2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
4. CONTRACTOR SHALL COORDINATE USA UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH THE OWNER FOR ALL UTILITY WORK. CONTRACTOR TO NOTE THAT CAMPUS OWNED UTILITIES WILL NOT BE MARKED VIA A USA LOCATE. CONTRACTOR TO EMPLOY THEIR OWN UTILITY LOCATING TECHNIQUES ALONG ALL PROPOSED ROUTES OF NEW UTILITIES AND TO MARK ALL CAMPUS OWNED UTILITIES AFFECTED BY CONTRACTORS WORK. INFORM OWNER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS.
5. CONTRACTOR IS RESPONSIBLE FOR POTHOLING ALONG THE ALIGNMENTS OF ALL NEW UTILITIES TO IDENTIFY POTENTIAL UTILITY CONFLICTS, SOILS CONDITIONS, AND TIE-IN POINTS. CONTRACTOR RESPONSIBLE FOR MAKING ADJUSTMENTS IN ALIGNMENTS TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
7. ALL UTILITY CONSTRUCTION OUTSIDE OF THE RIGHT-OF-WAYS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE (CPC). ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE COLLEGE OF THE REDWOODS STANDARDS.
8. ALL BURIED LINES TO HAVE 36 INCHES MINIMUM COVER, UNLESS NOTED OTHERWISE.
9. APPROXIMATE BUILDING UTILITY CONNECTIONS ARE SHOWN ON SITE DRAWINGS WHERE FOUND. COMPLETENESS OF BUILDING CONNECTIVITY IS NOT GUARANTEED. CONTRACTOR SHALL LOCATE UTILITY CONNECTIONS TO BUILDINGS. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, AND APPURTENANCES REQUIRED TO ENSURE THAT BUILDING CONNECTIVITY REMAINS INTACT. REFER TO BUILDING DRAWINGS FOR CONTINUATION OF UTILITY LINES INTO BUILDING.
10. CONTRACTOR TO VERIFY CONNECTIVITY OF UTILITY NETWORK PRIOR TO REPLACEMENT, ABANDONMENT, OR DEMOLITION OF EXISTING UTILITY. CONTRACTOR TO CONFIRM CONNECTIVITY OF NEW UTILITY PRIOR TO COMPLETING WORK.
11. THRUST BLOCKING REQUIRED ON ALL PRESSURE LINES BENDS AND FITTINGS. SEE STANDARD THRUST BLOCKING DETAIL. RESTRAINED FITTINGS MAY BE USED AS AN ALTERNATIVE WHEN INSTALLED ON FITTINGS AND LINES PER MANUFACTURER REQUIREMENTS TO ACHIEVE PROPER RESTRAINT OF THE OVERALL PIPING SYSTEM WITH THE EXCEPTION OF FIRE HYDRANTS WHICH MUST HAVE THRUST BLOCKS PER THE DETAIL.
12. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.
13. CONFIRM FIRE HYDRANT TYPE, NOZZLE SIZES, AND THREAD CONFIGURATIONS SHALL MATCH OTHER HYDRANTS ON CAMPUS.
13. CONFIRM LOCATION AND TYPE OF ALL UTILITY VALVE VAULTS, VALVES, METERS, BACKFLOW PREVENTION ASSEMBLIES, AND OTHER UTILITY APPURTENANCES WITH THE OWNER.
14. CONTRACTOR MAY PROPOSE HORIZONTAL DIRECTIONAL DRILLING ALIGNMENT ALTERNATIVES. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL DESIGN ALTERNATIVES.
15. PACIFIC GAS AND ELECTRIC UTILITY LOCATIONS ARE APPROXIMATE. ANY PG & E UTILITY VERIFICATION IS TO BE LIMITED TO HAND TOOLS AND MUST BE COORDINATED WITH PG & E PRIOR TO ANY EXCAVATION. ANY ADJUSTMENT AND / OR CORRECTION TO ANY UTILITY WORK SHOWN ON THESE PLANS THAT AFFECTS A PG & E UTILITY MUST BE COORDINATED WITH PG & E. SEE GENERAL SITE NOTES 1 & 2.
16. CONTRACTOR SHALL MAINTAIN OVERALL CAMPUS UTILITY CONNECTIVITY AFTER DEMOLITION OF BUILDINGS AND UTILITIES SHOWN ON THE PLANS TO BE REMOVED. CONTRACTOR TO TEST UTILITIES AND VERIFY CONNECTIVITY AND INSTALL LINE CAPS AND INTERCONNECTIONS AS NECESSARY TO MAINTAIN UTILITY CONNECTIVITY TO REMAINING AREAS OF CAMPUS.

ADA NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. RAMPS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).
4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING. LANDINGS SHALL HAVE A MINIMUM OF 24" STRIKESIDE CLEARANCE.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72". RAMPS FINISH SHALL BE STABLE, FIRM, SLIP-RESISTANT, CONTAIN A 12 INCH WIDE CONTINUOUS GROOVED BORDER ALONG THE TOP EDGE, AND HAVE A DETECTABLE WARNING SURFACE AT THE BASE OF THE RAMP.
6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% IN ANY DIRECTION.
7. ALL SIDEWALKS SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.
8. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ALONG WALKWAYS AND AT RAMPS PER ADA STANDARDS.
9. PROVIDE 80" OVERHANG CLEARANCE AT WALKWAYS.
10. RAMP FINISH SHALL BE STABLE, FIRM, AND SLIP-RESISTANT PER ADA STANDARDS.

IRRIGATION SYSTEM NOTES

1. NOT ALL EXISTING IRRIGATION LINES AND ELECTRICAL AND CONTROLS FOR IRRIGATION SYSTEMS ARE SHOWN ON THE PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING, REROUTING, REPLACING, AND REPAIRING ANY IRRIGATION LINES DAMAGED DURING CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER TO RELOCATE IRRIGATION LINES FOUND TO BE IN CONFLICT WITH NEW UTILITY CONSTRUCTION. THE COST OF IDENTIFYING, LOCATING, RELOCATING, REROUTING, REPAIRING, OR REPLACING IRRIGATION EQUIPMENT IS CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND THE COST SHALL BE INCLUDED IN CONTRACTOR'S BID FOR THE WORK THAT AFFECTS IRRIGATION.
4. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING THE EXISTING IRRIGATION SYSTEM TO THE NEW WATER DISTRIBUTION SYSTEM, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, AND APPURTENANCES REQUIRED TO RECONNECT EXISTING IRRIGATION SYSTEM.
5. CONTRACTOR TO INSTALL NEW IRRIGATION SYSTEM FOR NEW LANDSCAPING.
6. EXISTING IRRIGATION SYSTEMS ARE GENERALLY NOT SHOWN. CONTRACTOR SHALL ASSUME ALL EXISTING TURF AND LANDSCAPED AREAS HAVE IRRIGATION SYSTEMS WHICH SHALL BE REPAIRED OR MODIFIED AS REQUIRED AT CONTRACTOR'S EXPENSE TO ACCOMMODATE OTHER REQUIRED IMPROVEMENTS.
7. THE LOCATION OF THE IRRIGATION SYSTEMS IN THE VICINITY OF THE EXISTING PHYSICAL EDUCATION AND FIELDHOUSE TO BE DEMOLISHED ARE UNKNOWN. CONTRACTOR TO REPAIR AND RECONNECT IRRIGATION SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE WITH CAMPUS STAFF. IF EXISTING IRRIGATION LINE IS DAMAGED, IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE. REPAIRS, INCLUDING TESTING, SHOULD BE COMPLETED WITHIN 24 HOURS. OWNER'S REPRESENTATIVE SHALL REVIEW REPAIRS PRIOR TO BACKFILLING.

COLLEGE OF THE REDWOODS GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECTS STANDARD DETAILS, TECHNICAL SPECIFICATIONS, AND GENERAL REQUIREMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE UTILITY AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600.
3. ALL SIDEWALK, CURB, AND GUTTER SHALL BE REMOVED AND REPLACED TO THE NEAREST SCORE MARK OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. INSTALLATION OF NEW SIDEWALK, CURB, AND GUTTER AGAINST EXISTING IMPROVEMENTS SHALL REQUIRE A SIDEWALK CONTACT JOINT (DOWELS REQUIRED).
4. UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD: AT EACH LOCATION WHERE NEW CURB/GUTTER IS TO BE PROVIDED ON AN EXISTING STREET (DRIVEWAY INSTALLATION, DRIVEWAY ABANDONMENT, CURB RAMP INSTALLATION, CURB FACE DRAINAGE INSTALLATION, ETC.) PAVEMENT RECONSTRUCTION SHALL BE REQUIRED. AN 18-INCH WIDE BAND OF PAVEMENT SHALL BE REMOVED AND REPLACED ALONG THE ENTIRE LENGTH OF CURB/GUTTER INSTALLATION. REMOVAL (SAW CUTS REQUIRED) SHALL BE TO THE BASE MATERIAL ON STREET WITH A.C. OR P.C.C. PAVEMENT FOUR (4) INCHES OR LESS IN THICKNESS. REMOVAL DEPTH SHALL BE TWO INCHES MINIMUM ON STREETS WITH A.C. (GRIND) / P.C.C. (SAW CUT) PAVEMENT THICKNESS GREATER THAN FOUR (4) INCHES. REPLACE WITH A.C. PAVEMENT.
5. BLACK SAND SLURRY SEAL SHALL BE REQUIRED ON ALL NEW STREET PAVEMENT FOR TRENCH WORK, POTHOLES, AND STREET WIDENING. SLURRY SEAL SHALL EXTEND TWELVE INCHES BEYOND THE LIMIT OF PAVEMENT RECONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING AT LEAST 72 HOURS IN ADVANCE OF THE START OF CONSTRUCTION IN ANY NEW AREAS.
7. ALL MANHOLES, VALVE BOXES, MONUMENT BOXES, AND OTHER STRUCTURES IN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BEFORE PAVING FINAL LIFT.
8. GRADE BREAKS ON CURBS AND SIDEWALKS ARE TO BE ROUNDED OFF ON FORM WORK AND FINISHED SURFACING.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ALL SURVEY MONUMENTS OR CORNER PIPES DISTURBED DURING THE PROCESS OF CONSTRUCTION. IF A MONUMENT HAS THE POTENTIAL OF BEING DISTURBED, A CORNER RECORD SHALL BE FILED WITH THE COUNTY SURVEYOR (PER SECTION 8773.2 OF THE PUBLIC LAND SURVEYORS ACT) AS REQUIRED BY THE SUBDIVISION MAP ACT TO PRESERVE THE LOCATION OF SAID MONUMENT. CONTRACTOR SHALL, AT HIS/HER EXPENSE, HIRE A CIVIL ENGINEER OR LAND SURVEYOR TO PERFORM THE WORK.
10. ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE INCLUDING VEGETATION, DEBRIS, AND MATERIALS. SEE BID SCHEDULE FOR HANDLING OF EXCESS SOILS. 1
11. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE CAMPUS AND PUBLIC ROADS AT ALL TIMES.
12. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
13. EXISTING UTILITIES SHOWN ARE BASED UPON RECORD INFORMATION AND ARE APPROXIMATE IN LOCATION AND DEPTH. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT, VERIFY ACTUAL LOCATION AND DEPTH, AND REPORT POTENTIAL CONFLICTS TO THE ENGINEER PRIOR TO EXCAVATING FOR NEW FACILITIES.
14. CONTRACTOR SHALL PERFORM CONSTRUCTION AND OPERATION IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION.
15. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE PUBLIC RIGHT-OF-WAY SHALL NOT BE PERMITTED. CONTRACTOR SHALL USE DESIGNATED STAGING AREAS AND ANY OTHER AREAS AS AGREED TO IN WRITING BY OWNER'S REPRESENTATIVE.
16. ANY EXISTING UTILITIES TO BE REPLACED, EXCEPT THOSE SPECIFICALLY NOTED IN THE PLANS TO BE ABANDONED IN PLACE, SHALL BE EXCAVATED, REMOVED, PROPERLY DISPOSED OF OFFSITE, AND TRENCH BACKFILLED AND COMPACTED TO 95% MINIMUM COMPACTION. ANY UTILITIES TO BE ABANDONED IN PLACE SHALL BE FILLED WITH SAND OR CONTROL DENSITY FILL (CDF) AND PLUGGED AT EACH END WITH A 6" THICK WALL OF CLASS "A" P.C.C.
17. UNLESS OTHERWISE NOTED, CLASS 2 A.B. UNDER CURB, GUTTER, AND STREET SECTIONS PAVED WITH ASPHALT CONCRETE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION (MINIMUM).

HAZARDOUS MATERIAL NOTES

1. SOME EXISTING PIPE MAY BE ASBESTOS CEMENT. REFER TO AVAILABLE PROJECT INFORMATION AS-BUILT DOCUMENTS FOR THE EXTENT OF ACM UNDER GROUND PIPE. CONTRACTOR TO PROPERLY HANDLE AND DISPOSE. 6
2. SEE SPECIFICATIONS FOR HAZMAT FOR MATERIALS AND BUILDING DEMOLITION.

EXCESS SOIL AND WASTE DISPOSAL

1. SEE BID SCHEDULE FOR MANAGEMENT OF EXCESS SOIL. EXCESS, CONCRETE, ASPHALT, VEGETATION, DEBRIS, AND OTHER WASTES SHALL BE DISPOSED APPROPRIATELY OFF SITE. 1

SURFACE RESTORATION

1. IN ADDITION TO UTILITY AND VEGETATION RESTORATION, CONTRACTOR TO RESTORE SIDEWALKS, CURBS, PAVING, SLABS, STRIPING, SIGNAGE, AND OTHER SURFACE FEATURES TO PRE-PROJECT CONDITIONS.
2. NOT ALL SURFACE RESTORATION REQUIREMENTS SHOWN. CONTRACTOR TO ASSESS PRIOR TO BIDDING AND INCLUDE THE COST OF RESTORATION IN THE BID ITEMS AFFECTING SURFACE FEATURES.

GEOTECHNICAL

1. THE DESIGN OF PROJECT WAS BASED ON FOLLOWING GEOTECHNICAL REPORTS:
   - 1.1. GEOTECHNICAL AND GEOLOGIC HAZARD EVALUATION REPORT - NEW GYMNASIUM - LACO ASSOCIATES, MAY 1, 2020.
   - 1.2. GEOTECHNICAL AND GEOLOGIC HAZARD EVALUATION REPORT - NEW FIELDHOUSE - LACO ASSOCIATES, DECEMBER 30, 2020.
   - 1.3. ENGINEERING GEOLOGY AND SEISMOLOGY REVIEW FOR COLLEGE OF THE REDWOODS - NEW GYMNASIUM - LETTER FROM CALIFORNIA GEOLOGICAL SURVEY - JULY 28, 2020
   - 1.4. ENGINEERING GEOLOGY AND SEISMOLOGY REVIEW FOR COLLEGE OF THE REDWOODS - NEW GYMNASIUM - LETTER FROM CALIFORNIA GEOLOGICAL SURVEY - FEBRUARY 11, 2021

CONSTRUCTION SEQUENCING NOTES

1. NOTE: CONTRACTOR TO MAINTAIN A FUNCTIONING CAMPUS UTILITY SYSTEM AT ALL TIMES.
2. ALL UTILITY INTERRUPTIONS AND CUTOVERS SHALL BE COORDINATED WITH THE OWNER AND SHALL TAKE PLACE WHEN CLASSES ARE NOT IN SESSION.
3. DEMOLITION OF (E) PHYSICAL EDUCATION AND FIELDHOUSE BUILDINGS AND ASSOCIATED UTILITIES AND SITE FEATURES TO COMMENCE AFTER (N) PHYSICAL EDUCATION AND FIELDHOUSE BUILDINGS ARE COMPLETE AND FULLY OPERATIONAL.
4. NEW FIRE ACCESS LANE BASE COURSE TO BE COMPLETED PRIOR TO ERECTION OF STRUCTURES 1

ITEMS TO BE PROVIDED BY CONTRACTOR

1. UNLESS SPECIFICALLY NOTED OTHERWISE, CONTRACTOR SHALL FURNIISH AND INSTALL ALL NEW ITEMS.
2. UNLESS SPECIFICALLY NOTED OTHERWISE THE TERM "PROVIDE" SHALL MEAN CONTRACTOR TO FURNISH AND INSTALL.

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COLLEGE OF THE REDWOODS P.E. COMPLEX
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EUREKA, CALIFORNIA

owner

tBP project number: 22035.00

file name: 11206119-C001.DWG

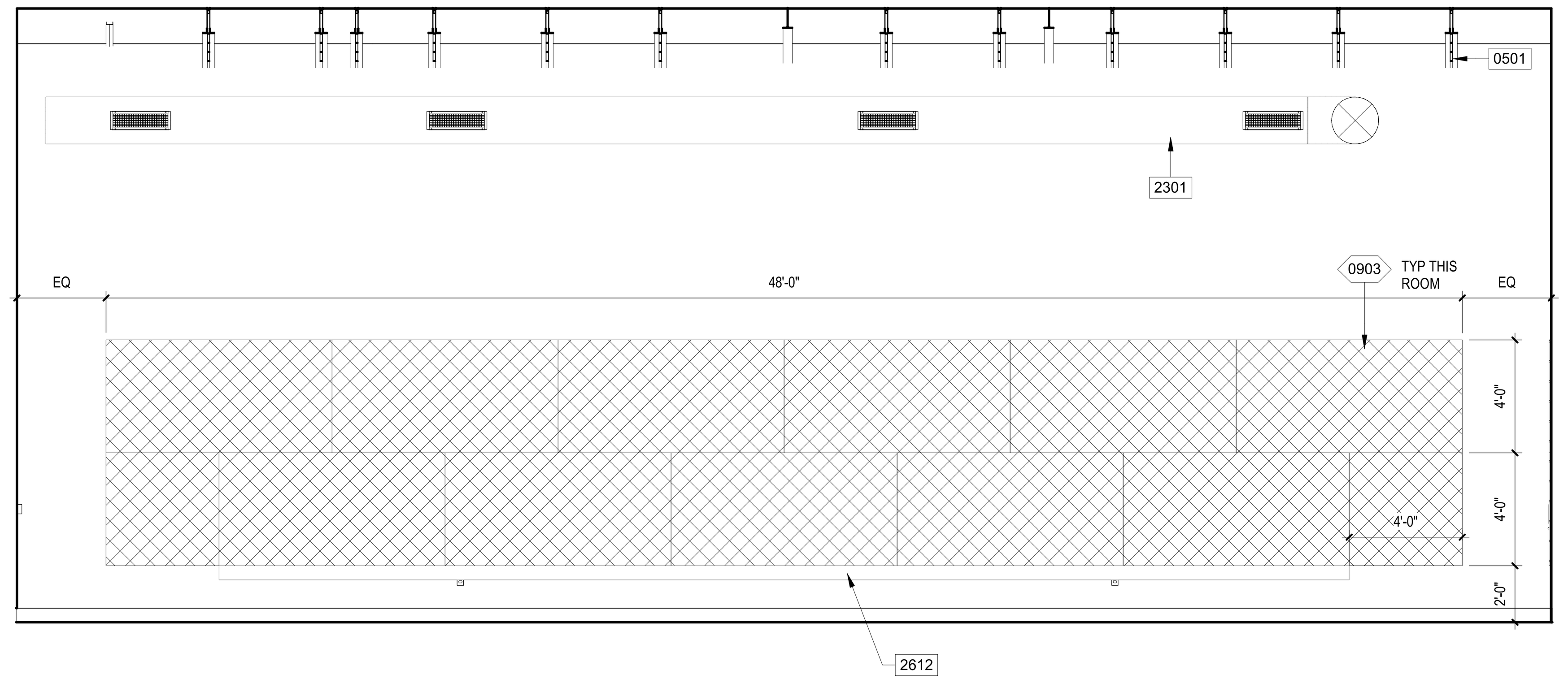
drawn by: MD checked by: SXM

date: Issue Date 2/21/2022 10:03:36 AM

rev:	date:	description:
	12/04/23	BID SET
4	08/20/24	ADDENDUM 4
6	09/05/24	ADDENDUM 6

drawing title: CIVIL NOTES

drawing no.: C001



WEIGHT ROOM 146 NORTH - PE 1A
SCALE: 1/4" = 1'-0"

0000 EQUIP - INTERIOR ELEVATIONS

	KEY #	DESCRIPTION	COMMENTS
	0501	ACCESS LADDER - WALL MOUNTED	
	0502	ACCESS LADDER - ROOF W/ CAGE	
	0806	AUTO DOOR OPERATOR	
4	0901	ACOUSTIC WALL PANEL AWP-1	
	0902	FRP WALL PANEL	
4	0903	ACOUSTIC WALL PANEL AWP-2	
	1017	COAT HOOK RAIL	BOBRICK B-232X24
	1018	CUBBY 6-TIER HDPE	6-TIER 12"W X 18"D
	1019	LOCKER BENCH HDPE	
	1020	LOCKER BENCH HDPE- ADA	24"X48" ADA
	1021	LOCKER - STORAGE 2-TIER	2-TIER 12"W X 18"D
	1022	LOCKER - STORAGE 1-TIER	1-TIER 18"W X 18"D
	1023	LOCKER - STORAGE 1-TIER	1-TIER 12"W X 18"D
	1024	LOCKER - ATHLETIC	24"W X 18"D
	1025	CHAIR RAIL- WALL MOUNTED	
	1026	FIRE EXTINGUISHER CABINET, RECESSED - TYP	
	1027	MARKER BOARD	
	1028	GRAB BAR AT DRINKING FOUNTAIN	
	1101	SCOREBOARD + VIDEO SCREEN	
	1102	SCOREBOARD	
	1103	BALLET BAR SINGLE	
	1104	MIRROR - LARGE AT DANCE LAB	
	1110	BASKETBALL BACKBOARD - FRONT FOLDING	SEE DETAIL 10/A911.1
	1201	BLEACHER - TELESCOPIC, WALL ATTACHED	SEE SHEET 1A605
	1202	BLEACHER AISLE - TELESCOPIC W/ HANDRAILS	

0000 SHEET KEYNOTES

NOTE: THESE KEYNOTES ARE FOR THIS SHEET ONLY

	KEY #	NOTE
	0501	STRUCTURAL MEMBER - S.S.D. PAINTED PER ARCH
	1001	SIGNAGE, TYP - REFER TO FINISH / SIGNAGE PLANS
4	1207	MOTORIZED ROLLER SHADES
	2301	MECHANICAL DUCT, TYP - S.M.D.
	2304	MECHANICAL REGISTER, TYP - S.M.D.
	2306	CEILNG FAN, TYP - S.M.D, S.E.D.
	2601	SUSPENDED LIGHT FIXTURE, TYP - S.E.D.
	2607	WALL MOUNTED LCD SCREEN (OFOI) - G.C. TO PROVIDE BACKING, S.E.D FOR POWER/DATA
	2610	EXIT SIGN, TYP - S.E.D.
	2612	POWER / DATA RACEWAY, S.E.D.

INTERIOR ELEVATIONS GENERAL NOTES:

1. ALL COLORS, TRIM, REVEALS, CONTROL JOINTS, ETC. TO WRAP ALL EDGES OF SURFACES AS SHOWN & TERMINATE AT PERPENDICULAR FACE OF WALL WHERE OCCURS, TYP U.O.N.
2. CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ALL FIXTURES THAT MAY OR MAY NOT BE SHOWN ON THESE ELEVATIONS. LAYOUT OF FIXTURES TO BE INTEGRATED W/ THE BUILDING DESIGN INTENT
3. SWITCHES & OUTLETS SHOWN FOR REFERENCE ONLY, S.E.D. FOR ADDITIONAL INFORMATION
4. ALL CASEWORK DIMENSIONS SHOWN ARE FOR DESIGN INTENT ONLY & SHALL BE V.I.F. PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
5. PROVIDE CONTROL JOINTS IN GYPSUM BOARD ASSEMBLIES AT 30' O.C. MAX SEE DETAILS **3/A909.4** & **11/A909.6**
6. FOR TOILET ACCESSORIES TAGGED ON THIS SHEET, REFER TO THE ENLARGED RESTROOM PLANS 1**A600** SHEETS FOR PE BUILDING AND **2A600** SHEETS FOR FH
7. FOR BACKING AND ANCHORAGE - SEE DETAIL **11 / A909.8**
8. FOR REQUIRED BACKING AT CASEWORK - SEE DETAIL **6 / A906.1**
9. FOR SYMBOLS AND NOTATION OF CASEWORK - SEE DETAIL **10 / A906.1**
10. FOR ACCESSORIES INSTALLATION HEIGHTS - SEE SHEET **4 / A901.3**
11. FOR REQUIREMENTS FOR ACCESSIBLE SINKS AT CASEWORK - SEE DETAIL **12 / A906.1**
12. FOR INTERIOR FINISHES - SEE MATERIAL & FINISH LEGEND ON SHEETS **1A801** FOR PE & **2A801** FOR FH

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DSA File #12-C1
agency

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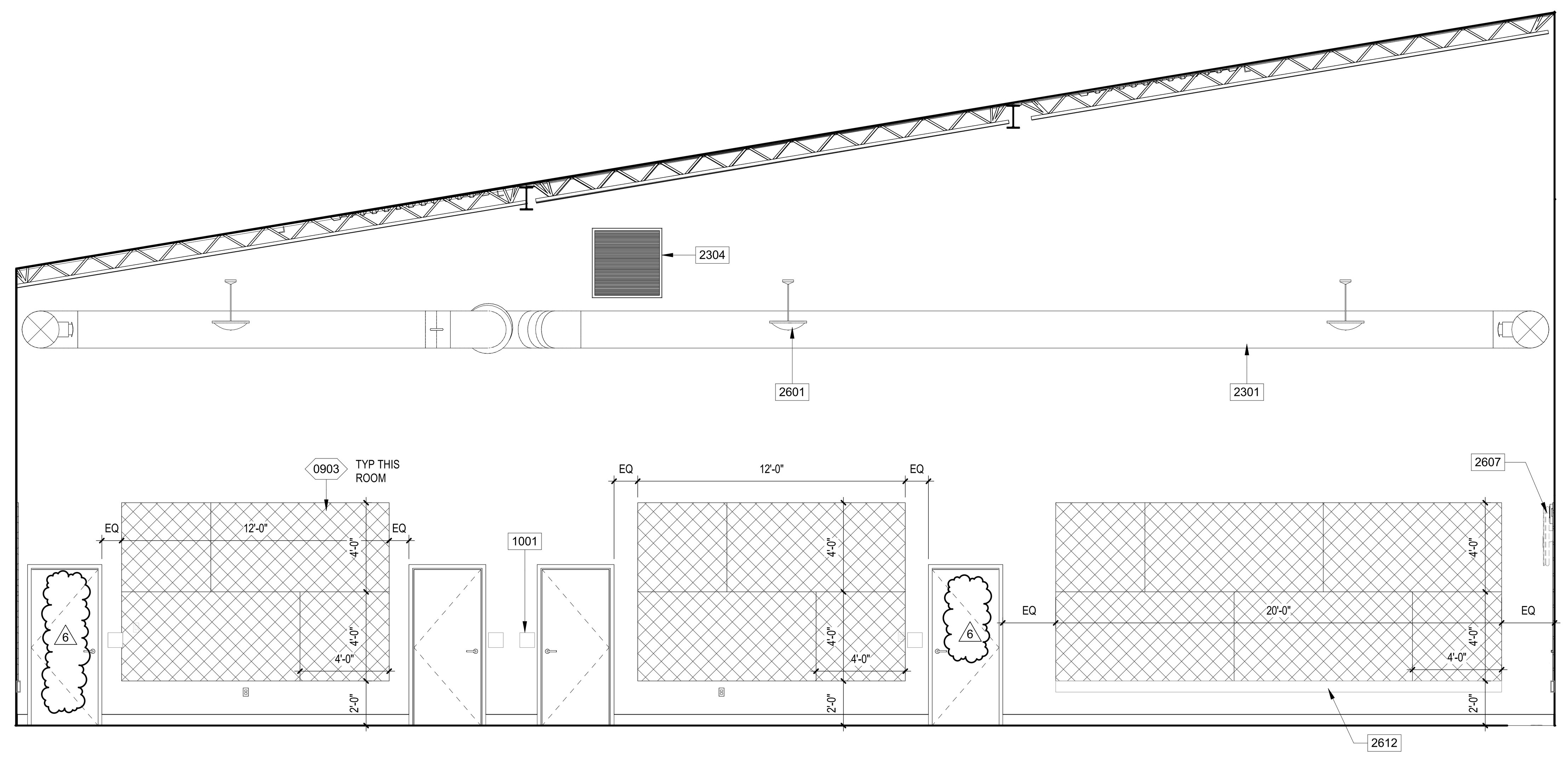
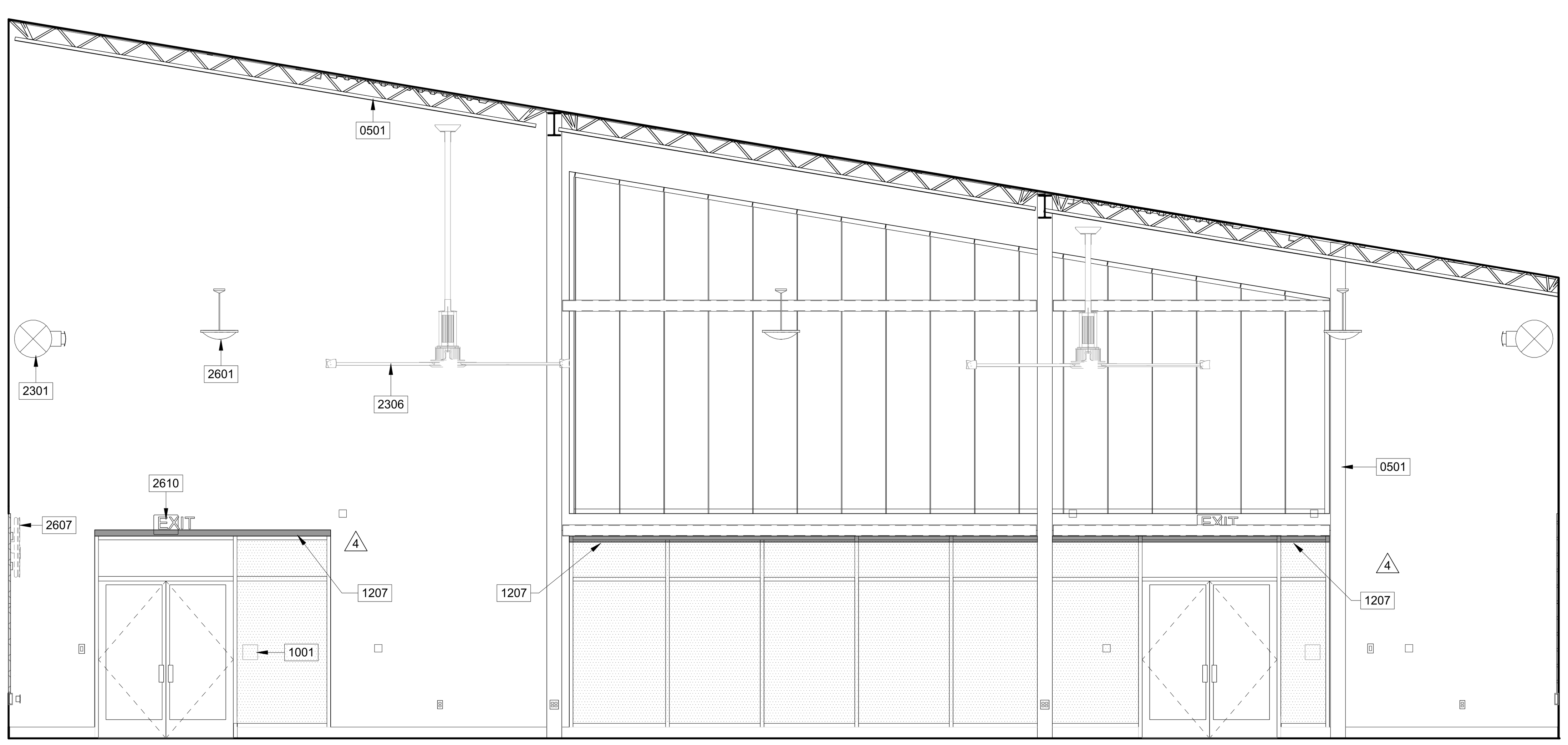


WEIGHT ROOM 146 EAST - PE 1B
SCALE: 1/4" = 1'-0"

P.E. REPLACEMENT PROJECT
COLLEGE OF THE REDWOODS
REDWOODS COMMUNITY COLLEGE DISTRICT
7351 TOMPKINS HILL ROAD, EUREKA, CA 95501

owner



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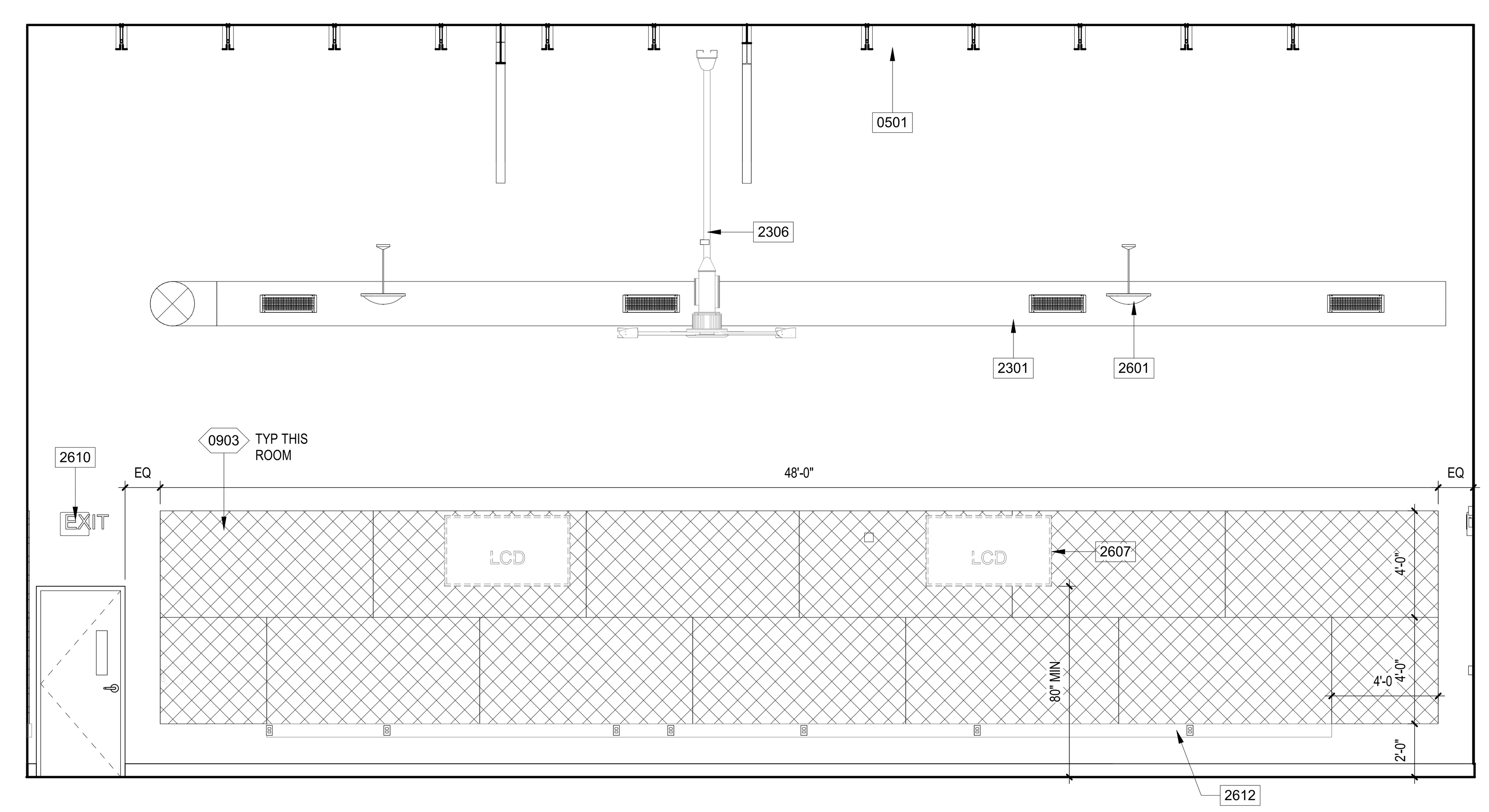

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file name:
drawn by: Author checked by: Checker
date: Issue Date 9/3/2024 10:09:31 AM

rev:	date:	description:
	12/04/23	BID SET
4	8/20/24	ADDENDUM 4
6	9/05/24	ADDENDUM 6

drawing title:
INTERIOR ELEVATIONS
WEIGHT ROOM - PE

drawing no.:
1A704

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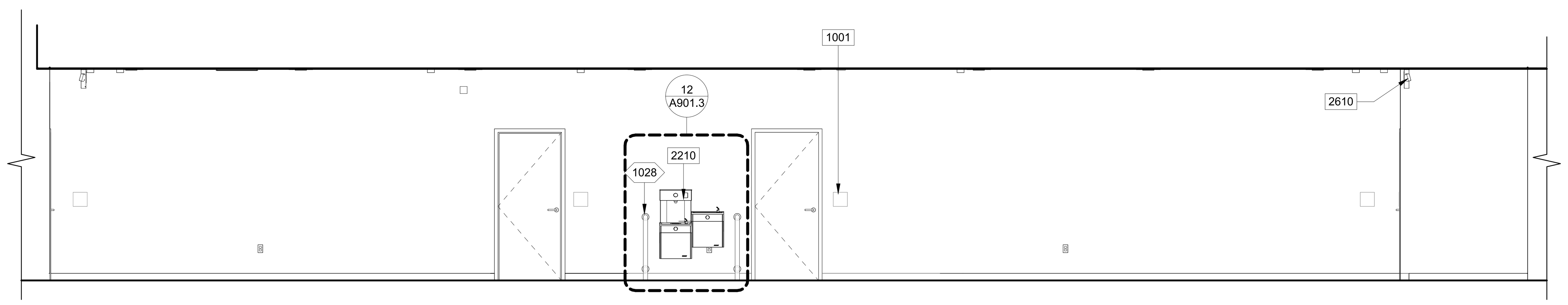

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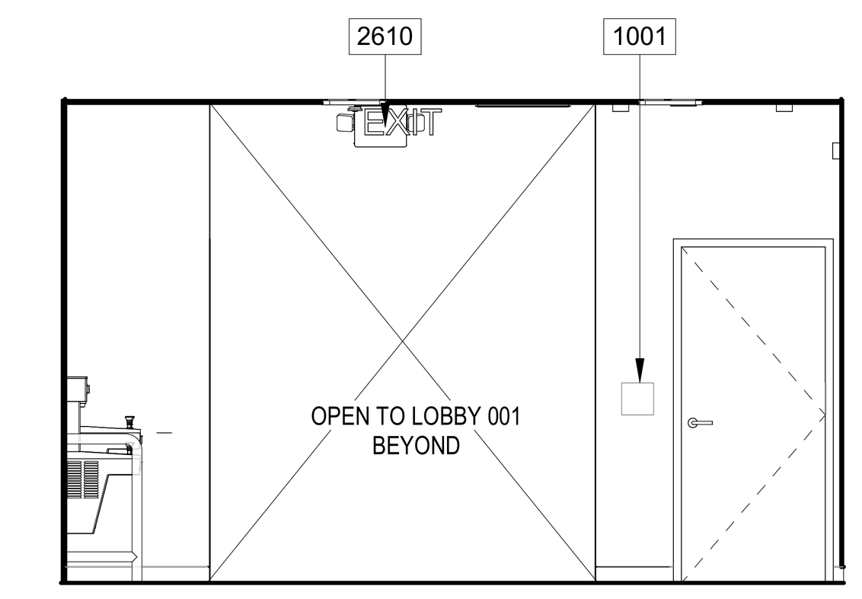

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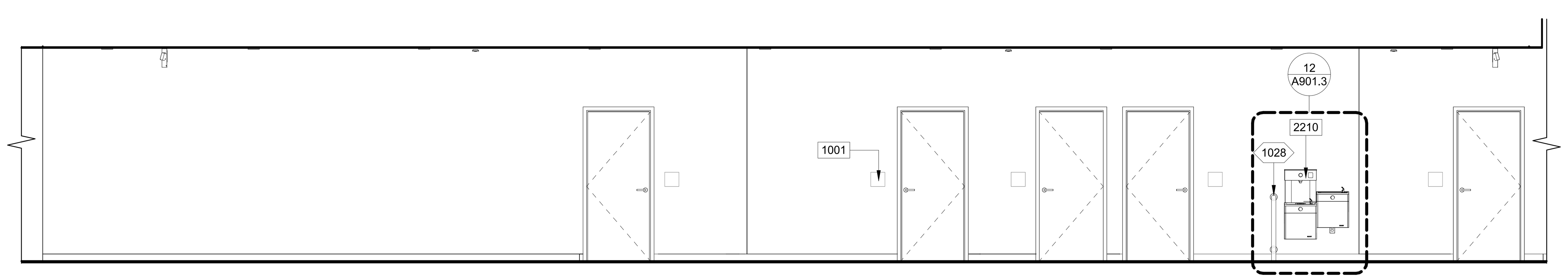

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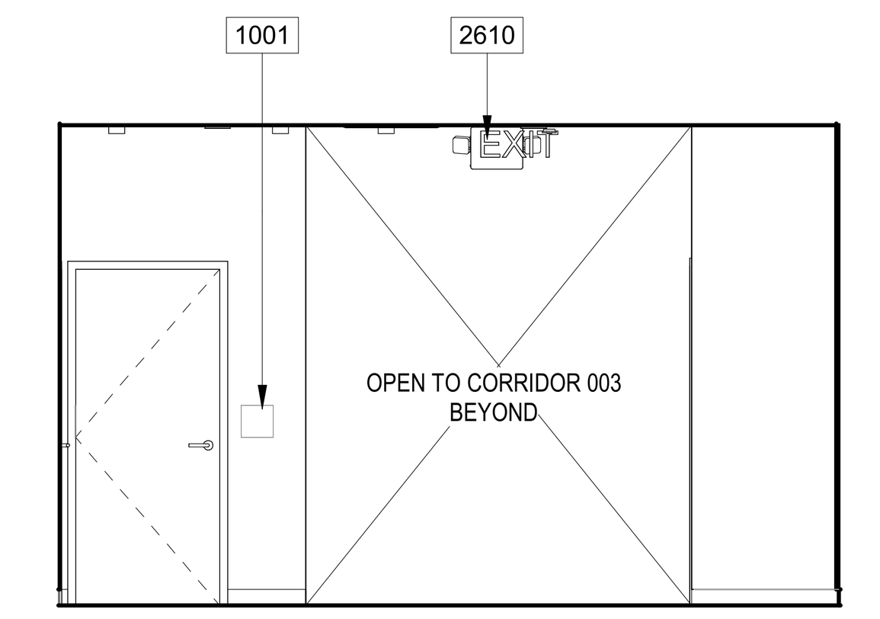

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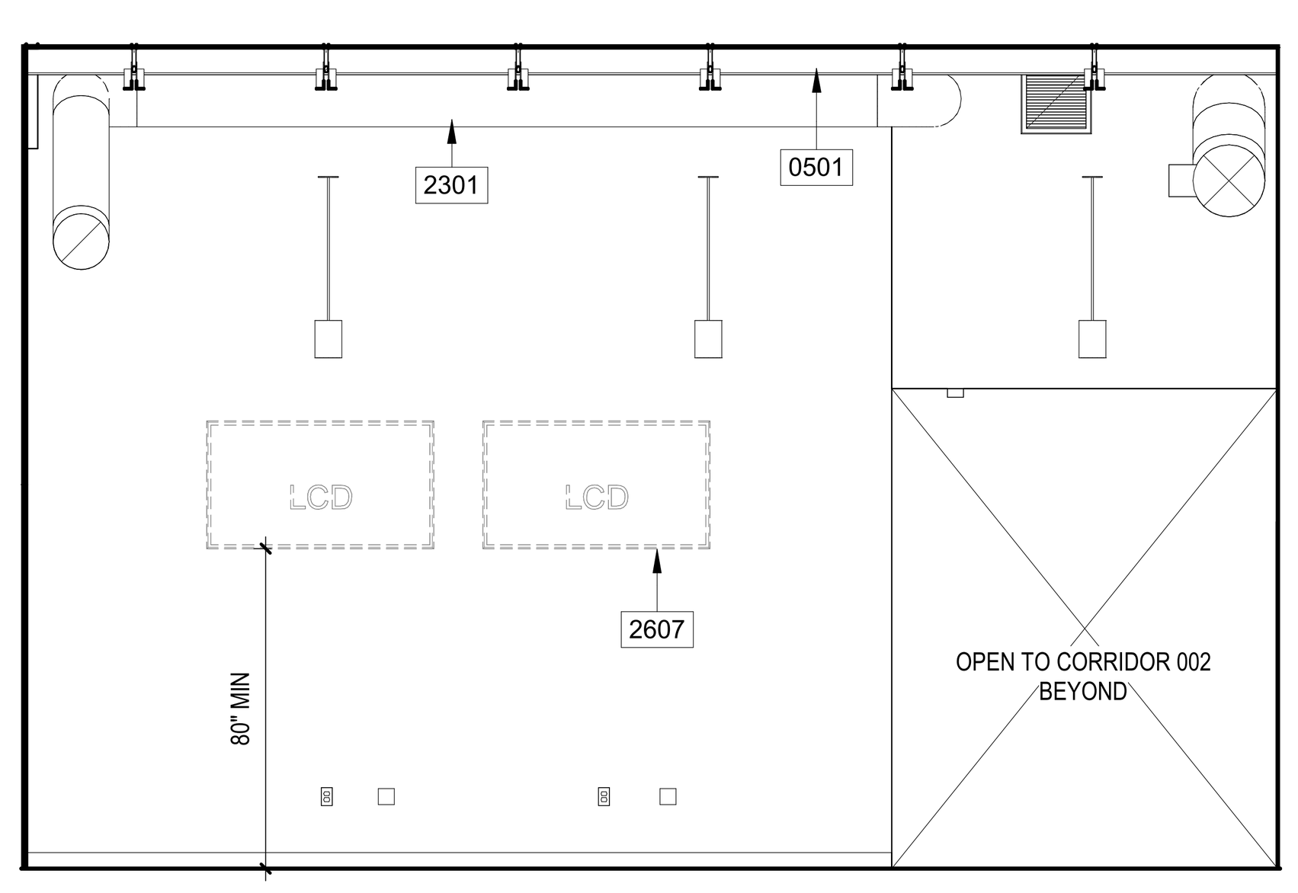

LOBBY 001 SOUTH - PE 2C
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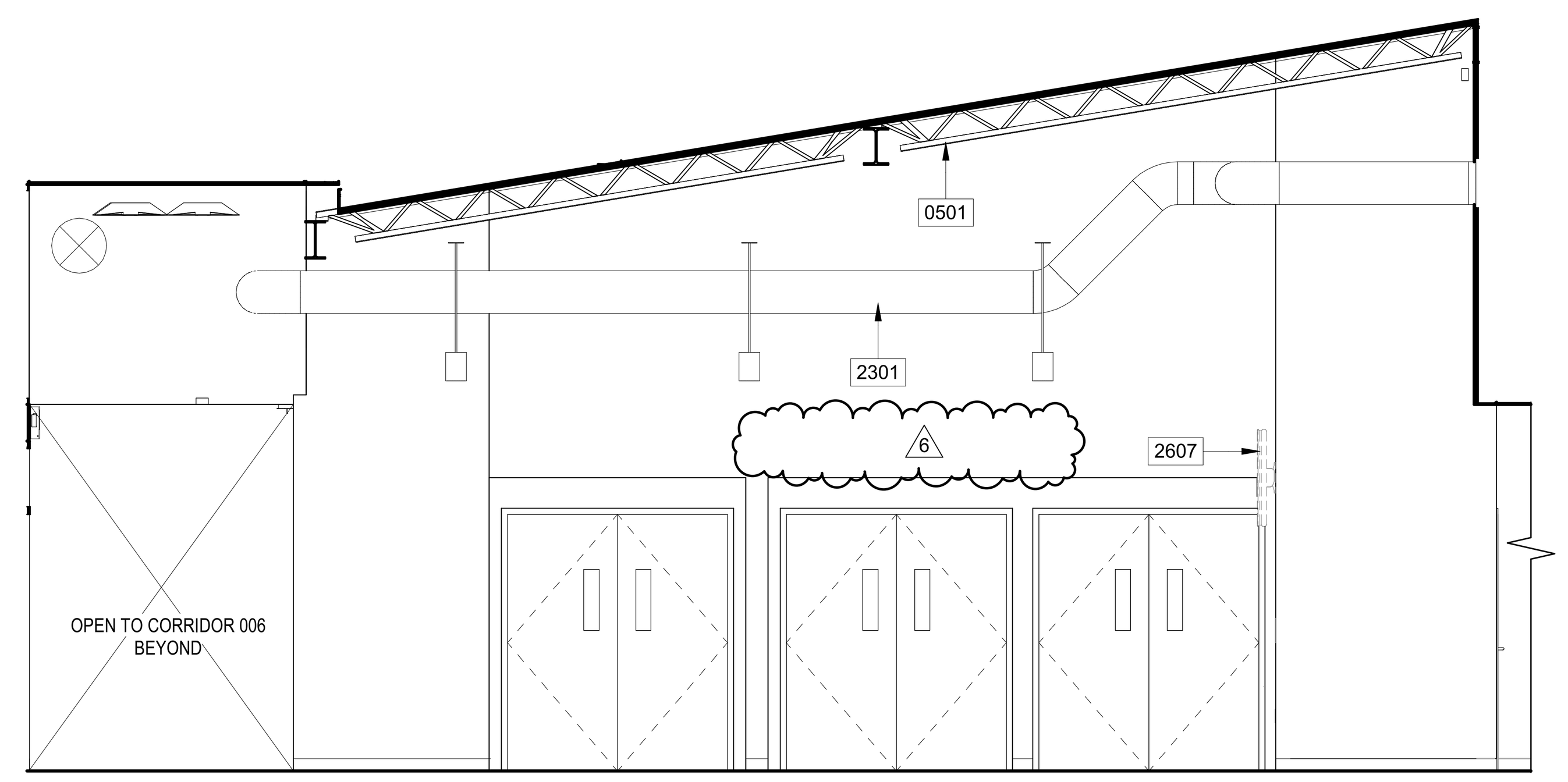

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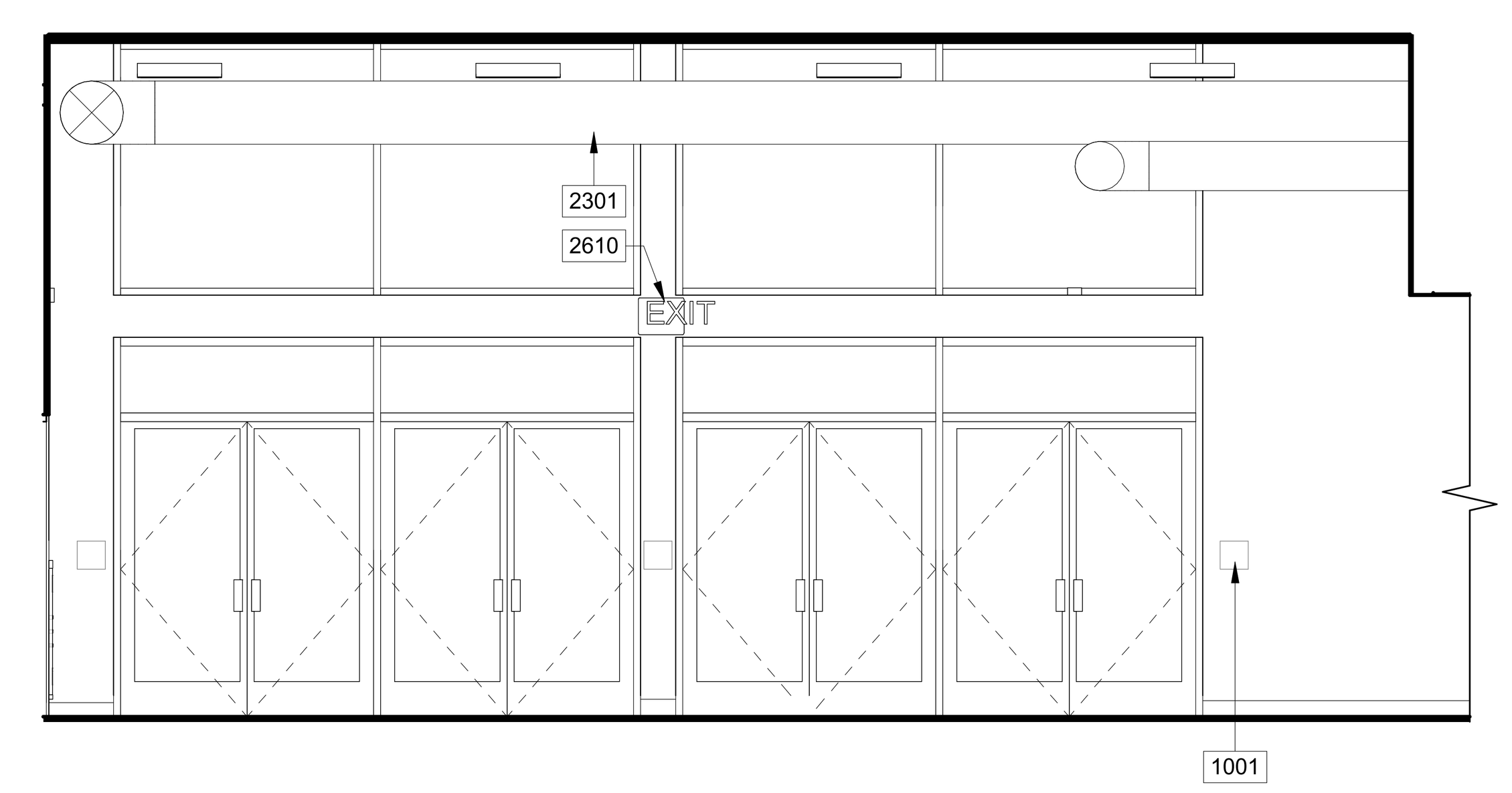

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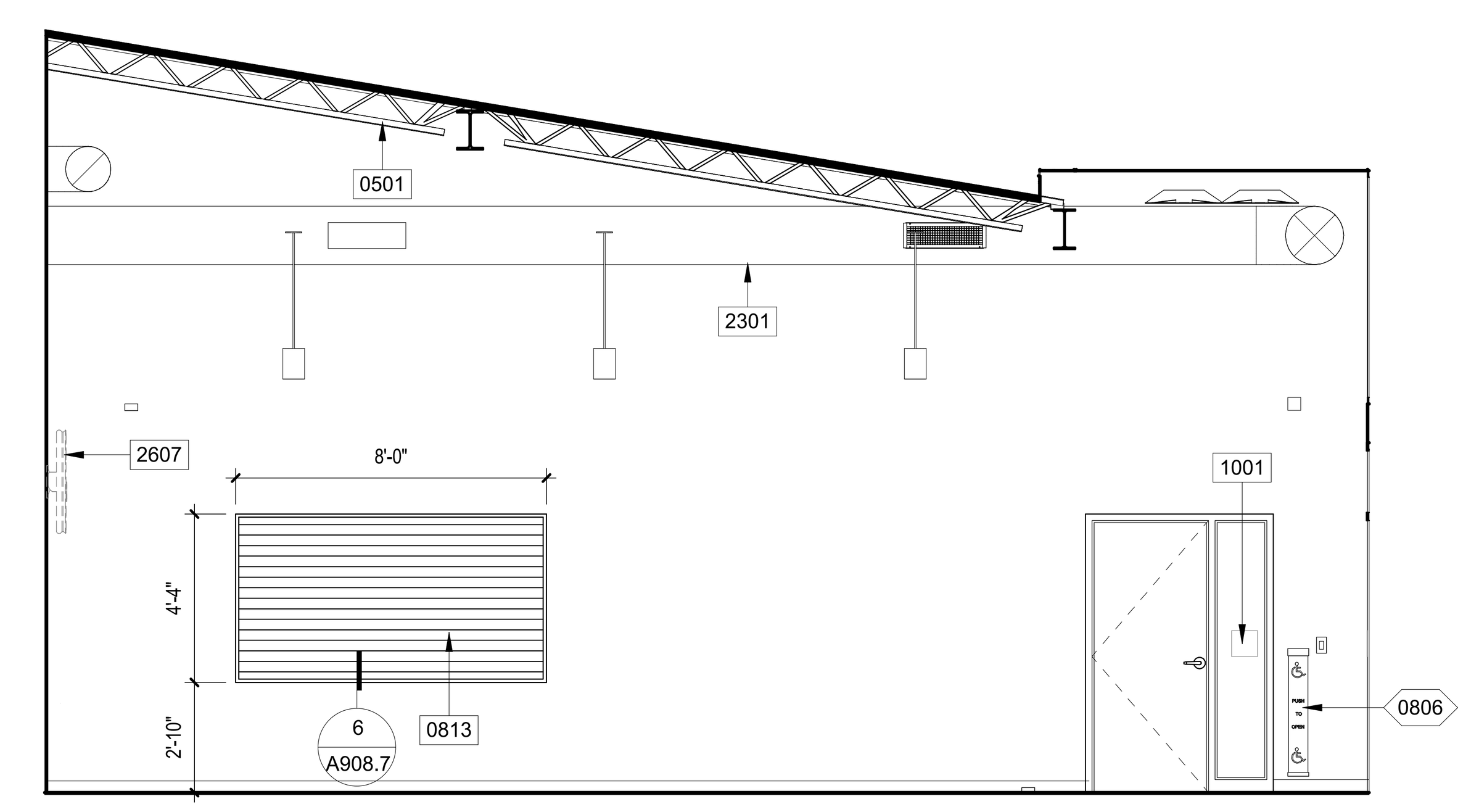

LOBBY 001 WEST - PE 2D
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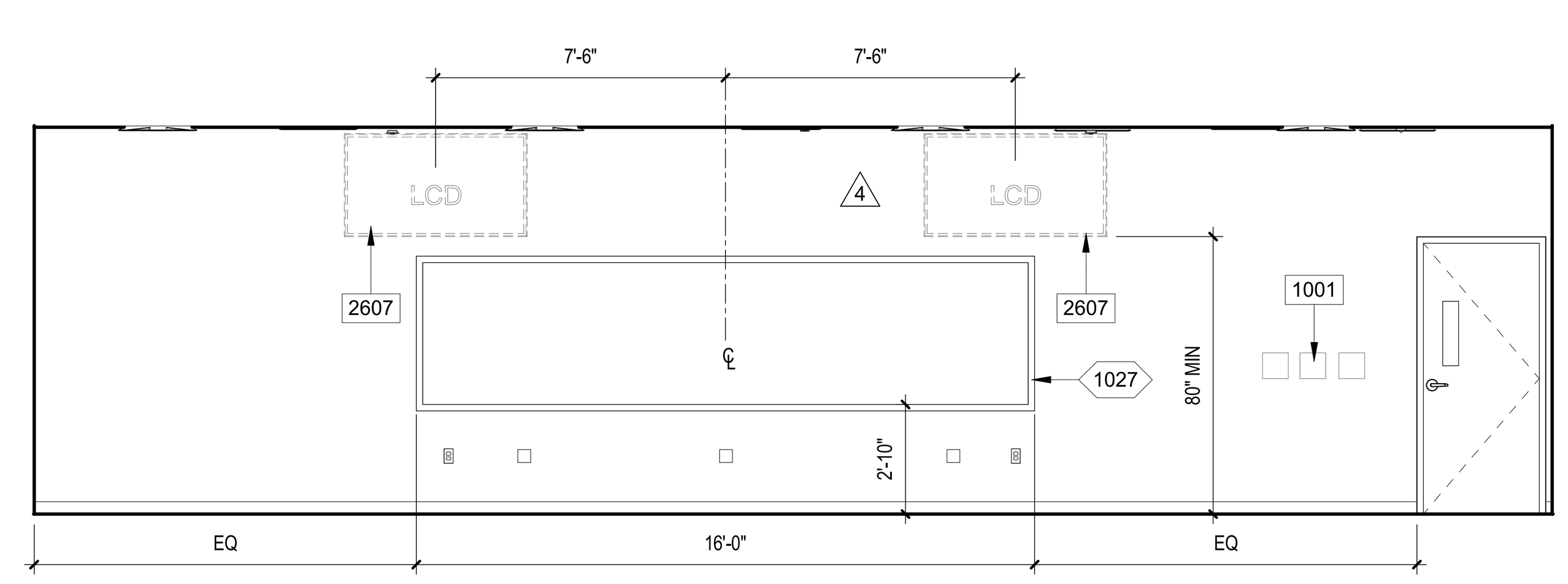

CLASSROOM - TYP TEACHING WALL - PE 3C
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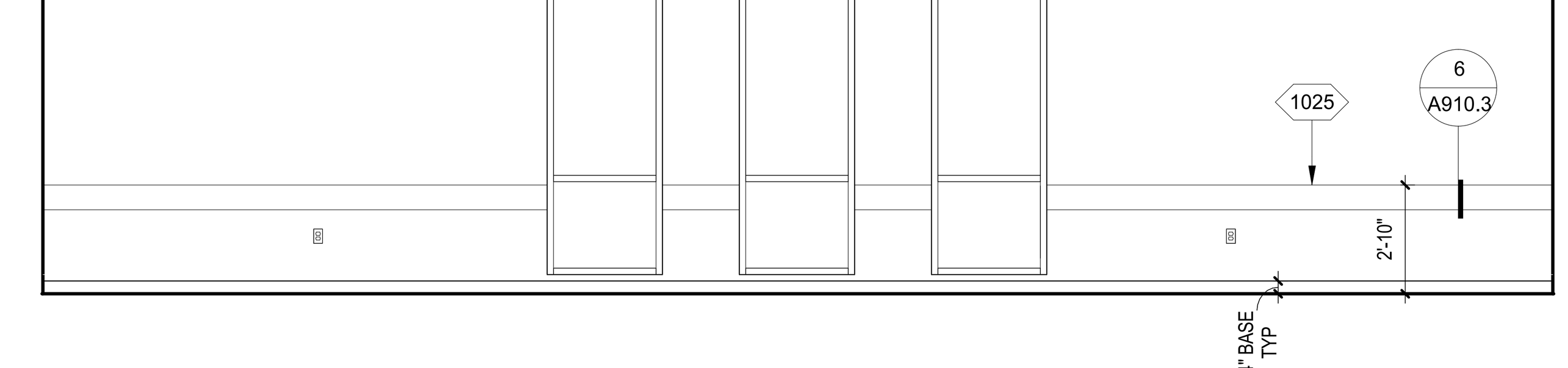

CLASSROOM - TYP REAR WALL - PE 3A
SCALE: 1/4" = 1'-0"

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0000 EQUIP - INTERIOR ELEVATIONS

KEY #	DESCRIPTION	COMMENTS
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0502	ACCESS LADDER - ROOF W/ CAGE	
0806	AUTO DOOR OPERATOR	
0901	ACOUSTIC WALL PANEL AWP-1 4	
0902	FRP WALL PANEL	
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1017	COAT HOOK RAIL	BOBRICK B-232X24
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1027	MARKER BOARD	
1028	GRAB BAR AT DRINKING FOUNTAIN	
1101	SCOREBOARD + VIDEO SCREEN	
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1104	MIRROR - LARGE AT DANCE LAB	
1110	BASKETBALL BACKBOARD - FRONT FOLDING	SEE DETAIL 10/A911.1
1201	BLEACHER - TELESCOPIC, WALL ATTACHED	SEE SHEET 1A605
1202	BLEACHER AISLE - TELESCOPIC W/ HANDRAILS	

0000 SHEET KEYNOTES

NOTE: THESE KEYNOTES ARE FOR THIS SHEET ONLY

KEY #	NOTE
0501	STRUCTURAL MEMBER - S.S.D. PAINTED PER ARCH
0813	OVERHEAD COILING FIRE SHUTTER - SEE INTERIOR WINDOW TYPES SHEET 1A803
1001	SIGNAGE, TYP - REFER TO FINISH / SIGNAGE PLANS
2210	ACC HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLER, SEE DETAILS 8 & 12/A901.3 - S.P.D.
2301	MECHANICAL DUCT, TYP - S.M.D.
2607	WALL MOUNTED LCD SCREEN (OFOI) - G.C. TO PROVIDE BACKING, S.E.D FOR POWER/DATA
2610	EXIT SIGN, TYP - S.E.D.

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DSA Application #01-119705
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INTERIOR ELEVATIONS - PE

drawing no.:
1A708

ROOM FINISH SCHEDULE - PE

SPACE		FLOOR		BASE		WALLS			CEILINGS			
NUMBER	NAME	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	FINISH	MATERIAL	COLOR	FINISH	REMARKS
148	PLUMB	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	---	---	UNP	---	---	

NUMBER	NAME	FLOOR MATERIAL	FLOOR COLOR	BASE MATERIAL	BASE COLOR	WALLS MATERIAL	WALLS COLOR	WALLS FINISH	CEILINGS MATERIAL	CEILINGS COLOR	CEILINGS FINISH	REMARKS
001	LOBBY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
002	CORRIDOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	GYP BD	P-10	FLAT	
003	CORRIDOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	GYP BD	P-10	FLAT	
004	CORRIDOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	GYP BD	P-10	FLAT	
005	CORRIDOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	GYP BD	P-10	FLAT	
006	CORRIDOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	GYP BD	P-10	FLAT	
010	P.E. SERVICE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	A.C.T.	ACT-1	---	
011	M GROUP RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
012	UNISEX	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
013	LACTATION	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
014	JANITOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / FRP	P-1 / FRP	PSG / FF	EXP	P-10	FLAT	SEE INT ELEVS FOR FRP LOCATIONS
015	UNISEX	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
016	W GROUP RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
017	MECH ACCESS	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	---	---	UNP	---	---	
020	FIRE RISER	CONCRETE	CS-1	---	---	GYP BD	---	---	UNP	---	---	
021	ELEC	CONCRETE	CS-1	---	---	GYP BD	---	---	UNP	---	---	
022	IDF	VCT	VCT-3	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
023	CORE ELEC	CONCRETE	CS-1	---	---	GYP BD	---	---	UNP	---	---	
024	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
025	BOILER	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	---	---	UNP	---	---	
101	WAITING	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
102	HALL	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
103	OFFICE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
104	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
105	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
106	CONFERENCE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
107	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
108	RECEPTION	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
109	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
110	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
111	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
112	BREAK RM	VCT	VCT-1 / VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	VCT CHECKERBOARD
113	WORK RM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
114	CONFERENCE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
115	FILE ROOM	VCT	VCT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
120	HALL	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
121	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
122	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
123	OFC	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
124	WORK AREA	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
130	ENTRY	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
131	WAITING	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
132	RECEPTION	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
133	NURSE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
134	HALL	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
135	EXAM RM	VCT	VCT-1 / VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	VCT CHECKERBOARD
136	EXAM RM	VCT	VCT-1 / VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	VCT CHECKERBOARD
137	EXAM RM	VCT	VCT-1 / VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	VCT CHECKERBOARD
138	WORK RM	VCT	VCT-1 / VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	VCT CHECKERBOARD
139	TLT	VCT	VCT-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
140	VESTIBULE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	GYP BD	P-10	FLAT	
141	W STUDENT LOCKER ROOM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
142	W STUDENT TLT RM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
143	VESTIBULE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	GYP BD	P-10	FLAT	
144	M STUDENT LOCKER ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	GYP BD	P-10	FLAT	
145	M STUDENT TLT RM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
146	WEIGHT ROOM	RUBBER	RSF-1	RUBBER	RB-1	GYP BD	PT-1/2/3	PES	EXP	P-10	FLAT	SEE INT ELEVS FOR ACOUSTIC PANEL LOCATIONS
147	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
148	PLUMB	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
149	DANCE CLASSROOM	VINYL	VDF-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	SEE INT ELEVS FOR ACOUSTIC PANEL LOCATIONS
150	M COACH'S ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
151	W COACH'S ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
152	W TEAM LOCKER ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	A.C.T.	ACT-1	---	
153	W TEAM RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
154	W TEAM SHOWERS	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
155	M TEAM LOCKER ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	A.C.T.	ACT-1	---	
156	M TEAM RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
157	M TEAM SHOWERS	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
160	TRAINING	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
160B	TRAINING	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
161	OFC	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
161B	STOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
162	SHOWER/ CHANGING	CONCRETE	CS-1	RUBBER / CT	RB-1 / CTB-1	GYP BD / CT	P-1 / CT-1/2/3	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR TILE LOCATIONS
163	HYDRO THERAPY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / FRP	P-1 / FRP	PSG / FF	GYP BD	P-10	FLAT	SEE INT ELEVS FOR FRP LOCATIONS
164	UNIFORM SERVICE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
165	CHANGING	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
166	STOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	UNP	---	---	
167	LAUNDRY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	GYP BD	P-10	FLAT	
168	OFFICE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
169	UNIFORM STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	EXP	P-10	FLAT	
170	MAT ROOM	VCT	VCT-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
171	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
172	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
173	IDF	VCT	VCT-3	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
174	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
175	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
176	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
177	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
178	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
179	CLASSROOM	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	
180	GYMNASIUM	WOOD	WD-1	RUBBER	VCB-1	GYP BD	PT-1/2/3	PES	EXP	P-10	FLAT	SEE INT ELEVS FOR ACCENT PAINT, ACOUSTIC PANEL LOCATIONS

NUMBER	NAME	FLOOR MATERIAL	FLOOR COLOR	BASE MATERIAL	BASE COLOR	WALLS MATERIAL	WALLS COLOR	WALLS FINISH	CEILINGS MATERIAL	CEILINGS COLOR	CEILINGS FINISH	REMARKS
201	MECH PLATFORM WEST	CONC ON DECK	---	---	---	---	---	---	UNP	---	---	
201A	MECH PLATFORM WEST 2	CONC ON DECK	---	---	---	---	---	---	UNP	---	---	
202	MECH PLATFORM EAST	CONC ON DECK	---	---	---	---	---	---	UNP	---	---	

MATERIALS & FINISH LEGEND - PE: 6

FLOOR MATERIALS & FINISHES:

6

CPT-1 CARPET: TARKETT AFTERMATH; COLOR: FLEECE 23508
CPT-2 CARPET WALK OFF: TARKETT ABRASIVE ACTION; COLOR: ASPHALT 19102

CS-1 CONCRETE, SEALED - PER SPEC 03 35 09

RSF-1 RUBBER SPORTS FLOORING: ROBBINS GALAXY CLASSIC; COLOR: BRIGHT RED 20%

VCT-1 VINYL COMPOSITE TILE FIELD: TARKETT VCT; COLOR: SAND DOLLAR 1913
VCT-2 VINYL COMPOSITE TILE ACCENT: TARKETT VCT; COLOR: MERLOT 1278
VCT-3 VINYL COMPOSITE TILE - ARMSTRONG SDT; COLOR: 51950 MARBLE BEIGE

VDF-1 VINYL DANCE FLOORING: TARKETT TRAINING 5.0; COLOR: MAPLE 9002

WD-1 WOOD SPORTS FLOORING - GYMNASIUM: ROBBINS AIR CHANNEL STAR, MAPLE 2ND GRADE

WM-1 WALK-OFF MAT: MATS, INC. ULTRA ENTRY; COLOR: BLACK / CHARCOAL SPLASH

BASE MATERIALS & FINISHES:

RB-1 4" HIGH RESILIENT BASE - BURKE THUNDER 727
CTB-1 4" HIGH CERAMIC TILE SANITARY COVE BASE - DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE DESERT GRAY 714
VCB-1 VENTED COVE BASE BY WOOD FLOORING MFR

WALL MATERIALS & FINISHES:

CT-1 6"X6" CERAMIC TILE - FIELD COLOR; DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE DESERT GRAY 714
CT-2 6"X6" CERAMIC TILE - FIELD COLOR; DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE ARCTIC WHITE 790
CT-3 6"X6" CERAMIC TILE - ACCENT COLOR; DALTILE COLORMATCH; COLOR: MATTE BURGUNDY 47
6

FRP FIBERGLASS REINFORCED PLASTIC

AWP-1 ACOUSTIC WALL PANEL 1 - AUTEX QUIETSPACE 1" W/ VERTISPACE; COLOR = THEATRE
AWP-2 ACOUSTIC WALL PANEL 2 - AUTEX CUBE 1"; COLOR = SARGAZO

INTERIOR WOOD DOORS:

DR-1 OREGON DOOR; COLOR: WHITE MAPLE BLOND

CEILING MATERIALS & FINISHES:

ACT-1 ACOUSTICAL CEILING TILE - 2'X4'

ACT-2 DIRECT APPLIED ACOUSTICAL CEILING TILE - 2'X2'

ACT-3 ACOUSTICAL CEILING TILE - HIGH NRC - 2'X4'

EXP EXPOSED CEILING & STRUCTURE - PAINTED

UNP UNDERSIDE OF STRUCTURE - UNPAINTED

GYP BD GYPSUM BOARD

PAINT:

SHERWIN WILLIAMS - BASIS OF DESIGN

P-1 WALL FIELD: SW 7104 COTTON WHITE
P-2 WALL ACCENT: SW 7584 RED THEATRE
P-3 WALL ACCENT: SW 6905 GOLDFINCH

P-5 HM DOOR & HM FRAMES: SW 6258 TRICORN BLACK

P-10 CEILING / EXP STRUCTURE: SW 7102 WHITE FLOUR

CASEWORK:

VN-1 VENEER: FORMICA; COLOR: 7012-58 AMBER MAPLE
SS-1 SOLID SURFACING: FORMICA EVERFORM; COLOR: 103 FROST 6

WINDOW SHADES:

WS-1 MECHO SHADES ECOVEIL 0966 /1566 EGSHELL

CHAIR RAILS:

CR-1 WALLGUARD 2130; COLOR: PORCELAIN

TOILET PARTITIONS:

TP-1 SCRANTON PRODUCTS - HINY HIDERS; COLOR: BLACK (ORANGE PEEL)

LOCKERS, BENCHES & CUBBIES:

LBC-1 SCRANTON PRODUCTS - TUFFTEC; COLOR: BURGUNDY

GYMNASIUM BLEACHERS:

HUSSEY SEATING:
- POLYETHELENE PLASTIC SEATS: COLOR BURGUNDY 504
- RAILINGS: COLOR 983 BLACK
- WOOD DECKING: PINE

ABBREVIATIONS:

CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
VCT	VINYL COMPOSITION TILE
WD	WOOD
FRP	FIBER REINFORCED PLASTIC PANEL
GYP BD	GYPSUM BOARD
ACT	ACOUSTICAL CEILING TILE
PES	PAINT EGG SHELL
PFL	PAINT FLAT
PGL	PAINT GLOSS
PSG	PAINT SEMI GLOSS
AFF	ABOVE FINISH FLOOR
FF	FACTORY FINISH

NOTES:
1. FOR EXACT LOCATIONS OF FLOOR AND/ OR WALL FINISHES, SEE FINISH PLANS & INTERIOR ELEVATIONS
2. ALL FLOORING EXCEPT CARPET AND SEALED CONCRETE SHALL HAVE A MIN OF 0.6 COEFFICIENT OF FRICTION. ALL FLOOR FINISHES IN OCCUPIED ROOMS TO BE SLIP RESISTENT
3. FOR INTERIOR FLOOR MATERIAL TRANSITION DETAILS, SEE SHEET **A908.2**

DIVISION OF THE STATE ARCHITECT
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DSA File #12-C1

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P.E. REPLACEMENT PROJECT
COLLEGE OF THE REDWOODS
REDWOODS COMMUNITY COLLEGE DISTRICT
7351 TOMPKINS HILL ROAD, EUREKA, CA 95501

owner

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FINISH SCHEDULE - PE

drawing no.:

1A801

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ROOM FINISH SCHEDULE - FH

SPACE		FLOOR		BASE		WALLS			CEILINGS			
NUMBER	NAME	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	FINISH	MATERIAL	COLOR	FINISH	REMARKS
300	LOBBY	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	SEE FINISH PLAN FOR ABRASIVE WALKOFF TILE AREA
301	WORK AREA	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	P-10	FLAT	
302	WORK AREA	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	P-10	FLAT	
303	ATH PE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
304	ATH PE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
305	ATH PE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
306	ATH PE	CARPET	CPT-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
310	W TEAM LOBBY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	D.A.T.	ACT-2	---	
311	HALLWAY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	D.A.T.	ACT-2	---	
312	W TEAM ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	SEE INT ELEVS FOR ACOUSTIC PANEL LOCATIONS
313	W TEAM LOCKER	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	A.C.T.	ACT-1	---	
314	W TEAM RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
315	W TEAM SHOWERS	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
320	M TEAM LOBBY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	D.A.T.	ACT-2	---	
321	HALLWAY	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	D.A.T.	ACT-2	---	
322	M TEAM ROOM	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-3	---	SEE INT ELEVS FOR ACOUSTIC PANEL LOCATIONS
323	M TEAM LOCKER	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PSG	A.C.T.	ACT-1	---	
324	M TEAM RESTROOM	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
325	M TEAM SHOWERS	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
330	INDOOR FIELD	ARTIFICIAL TURF	AT-1	RUBBER	RB-1	GYP BD / MTL PANEL	P-1 / ---	PES	EXP	P-10	FLAT	EXPOSED MTL PANEL IS PREFINISHED - PAINT STRUCTURE
331	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / MTL PANEL	P-1	PES	EXP	P-10	FLAT	
332	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / MTL PANEL	P-1	PES	EXP	P-10	FLAT	EXPOSED MTL PANEL IS PREFINISHED - PAINT STRUCTURE
333	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / MTL PANEL	P-1	PES	EXP	P-10	FLAT	EXPOSED MTL PANEL IS PREFINISHED - PAINT STRUCTURE
334	STORAGE	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	EXP	P-10	FLAT	
340	IDF	VCT	VCT-2	RUBBER	RB-1	GYP BD	P-1	PES	A.C.T.	ACT-1	---	
341	ELEC	CONCRETE	CS-1	---		GYP BD	---	PES	UNP	---	---	
342	RISER	CONCRETE	CS-1	---		GYP BD	---	PES	UNP	---	---	
343	JANITOR	CONCRETE	CS-1	RUBBER	RB-1	GYP BD / FRP	P-1 / FRP	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR FRP LOCATIONS
344	BOILER	CONCRETE	CS-1	RUBBER	RB-1	GYP BD	P-1	PES	UNP	---	---	
345	UNISEX	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
346	UNISEX	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
347	CORE	CONCRETE	CS-1	---	---	GYP BD	P-1	PES	UNP	---	---	
348	WOMEN'S RR	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
349	MEN'S RR	CONCRETE	CS-1	RUBBER / CT	RB-1/ CTB-1	GYP BD / CT	P-1 / CT-1-2-3	PSG	GYP BD	P-10	PSG	SEE INT ELEVS FOR TILE LOCATIONS
400	MECHANICAL PLATFORM - EAST	CONC ON DECK	---	---	---	---	---	---	UNP	---	---	
401	MECHANICAL PLATFORM - WEST	CONC ON DECK	---	---	---	---	---	---	UNP	---	---	

MATERIALS & FINISH LEGEND - FH: 6

FLOOR MATERIALS & FINISHES:

AT-1 ARTIFICIAL TURF: FIELD TURF CLASSIC HD; COLOR: GREEN

CPT-1 CARPET: TARKETT AFTERMATH; COLOR: FLEECE 23508
CPT-2 CARPET WALK OFF: TARKETT ABRASIVE ACTION; COLOR: ASPHALT 19102

CS-1 CONCRETE, SEALED - PER SPEC 03 35 09

6

BASE MATERIALS & FINISHES:

RB-1 4" HIGH RESILIENT BASE - BURKE THUNDER 727
CTB-1 4" HIGH CERAMIC TILE SANITARY COVE BASE - DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE DESERT GRAY 714

WALL MATERIALS & FINISHES:

CT-1 6"X6" CERAMIC TILE - FIELD COLOR; DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE DESERT GRAY 714
CT-2 6"X6" CERAMIC TILE - FIELD COLOR; DALTILE COLOR WHEEL CLASSICS; COLOR: MATTE ARCTIC WHITE 790
CT-3 6"X6" CERAMIC TILE - ACCENT COLOR; DALTILE COLORMATCH; COLOR: MATTE BURGUNDY 47 6

FRP FIBERGLASS REINFORCED PLASTIC

6

AWP-2 ACOUSTIC WALL PANEL 2 - AUTEX CUBE 1"; COLOR = SARGAZO

INTERIOR WOOD DOORS:

DR-1 OREGON DOOR; COLOR: WHITE MAPLE BLOND

CEILING MATERIALS & FINISHES:

ACT-1 ACOUSTICAL CEILING TILE - 2'X4'

ACT-2 DIRECT APPLIED ACOUSTICAL CEILING TILE - 2'X2'

ACT-3 ACOUSTICAL CEILING TILE - HIGH NRC - 2'X4'

EXP EXPOSED CEILING & STRUCTURE - PAINTED

UNP UNDERSIDE OF STRUCTURE - UNPAINTED

GYP BD GYPSUM BOARD

PAINT:

SHERWIN WILLIAMS - BASIS OF DESIGN

P-1 WALL FIELD: SW 7104 COTTON WHITE

6

P-5 HM DOOR & HM FRAMES: SW 6258 TRICORN BLACK

P-10 CEILING / EXP STRUCTURE: SW 7102 WHITE FLOUR

6

TOILET PARTITIONS:

TP-1 SCRANTON PRODUCTS - HINY HIDERS; COLOR: BLACK (ORANGE PEEL)

LOCKERS, BENCHES & CUBBIES:

LBC-1 SCRANTON PRODUCTS - TUFFTEC; COLOR: BURGUNDY

6

ABBREVIATIONS:

CONC CONCRETE
CPT CARPET
CT CERAMIC TILE
VCT VINYL COMPOSITION TILE
WD WOOD

FRP FIBER REINFORCED PLASTIC PANEL
GYP BD GYPSUM BOARD
ACT ACOUSTICAL CEILING TILE

PES PAINT EGG SHELL
PFL PAINT FLAT
PGL PAINT GLOSS
PSG PAINT SEMI GLOSS

AFF ABOVE FINISH FLOOR
FF FACTORY FINISH

NOTES:
1. FOR EXACT LOCATIONS OF FLOOR AND/ OR WALL FINISHES, SEE FINISH PLANS & INTERIOR ELEVATIONS
2. ALL FLOORING EXCEPT CARPET AND SEALED CONCRETE SHALL HAVE A MIN OF 0.6 COEFFICIENT OF FRICTION. ALL FLOOR FINISHES IN OCCUPIED ROOMS TO BE SLIP RESISTENT
3. FOR INTERIOR FLOOR MATERIAL TRANSITION DETAILS, SEE SHEET **A908.2**

DIVISION OF THE STATE ARCHITECT
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DSA Application #01-119705
DSA File #12-C1

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P.E. REPLACEMENT PROJECT
COLLEGE OF THE REDWOODS
REDWOODS COMMUNITY COLLEGE DISTRICT
7351 TOMPKINS HILL ROAD, EUREKA, CA 95501

owner

tBP project number: 22035.00

file name:

drawn by: Author checked by: Checker

date: Issue Date 9/3/2024 3:07:29 PM

rev:	date:	description:
	12/04/23	BID SET
6	9/05/24	ADDENDUM 6

drawing title:
ROOM FINISH SCHEDULE - FH

drawing no.:
2A801

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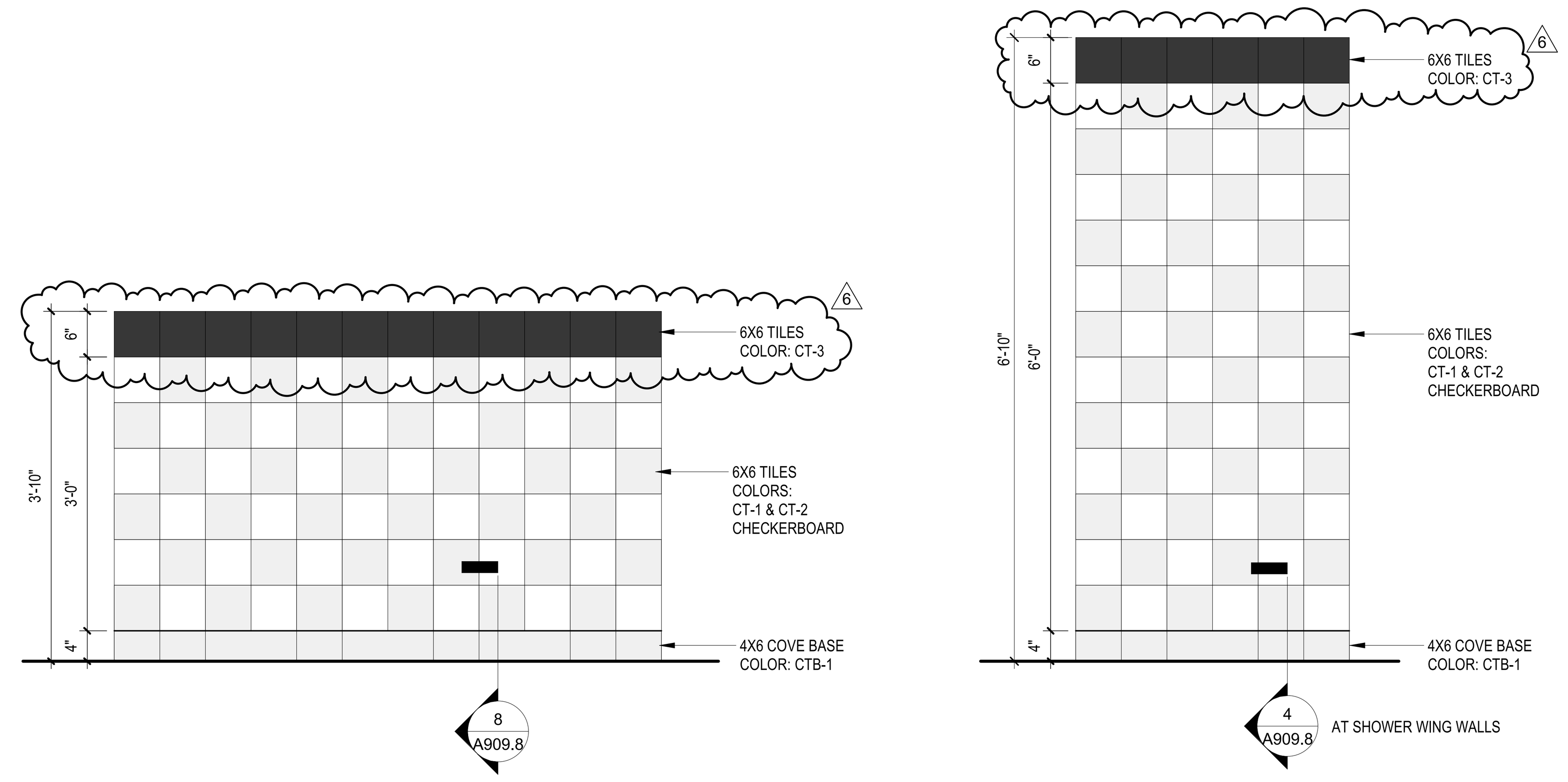
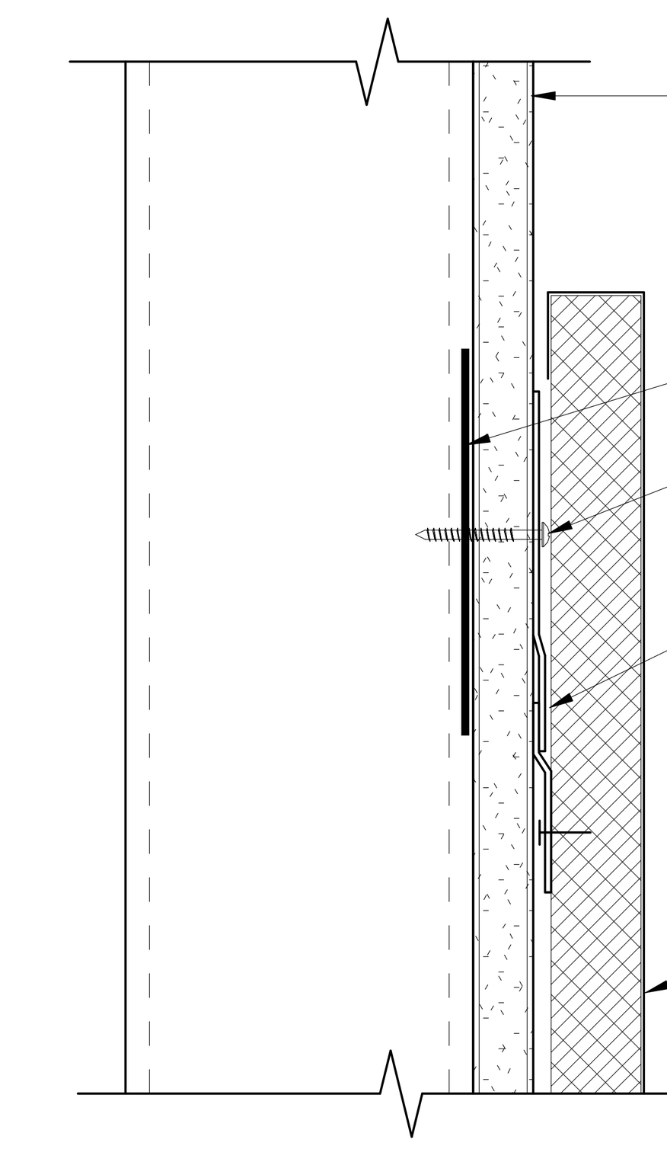
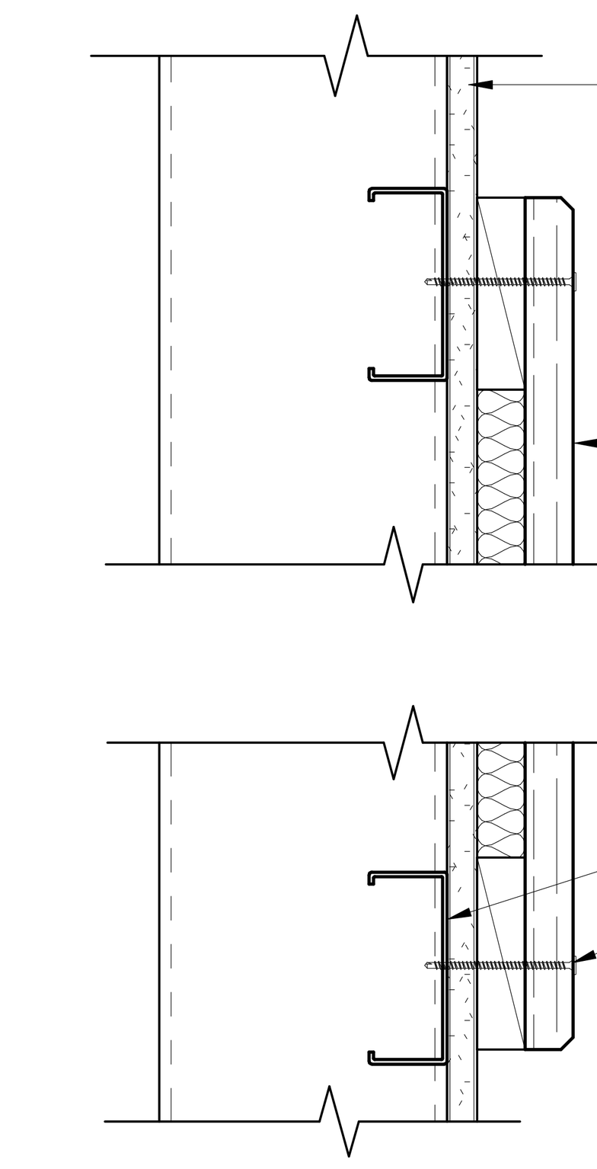


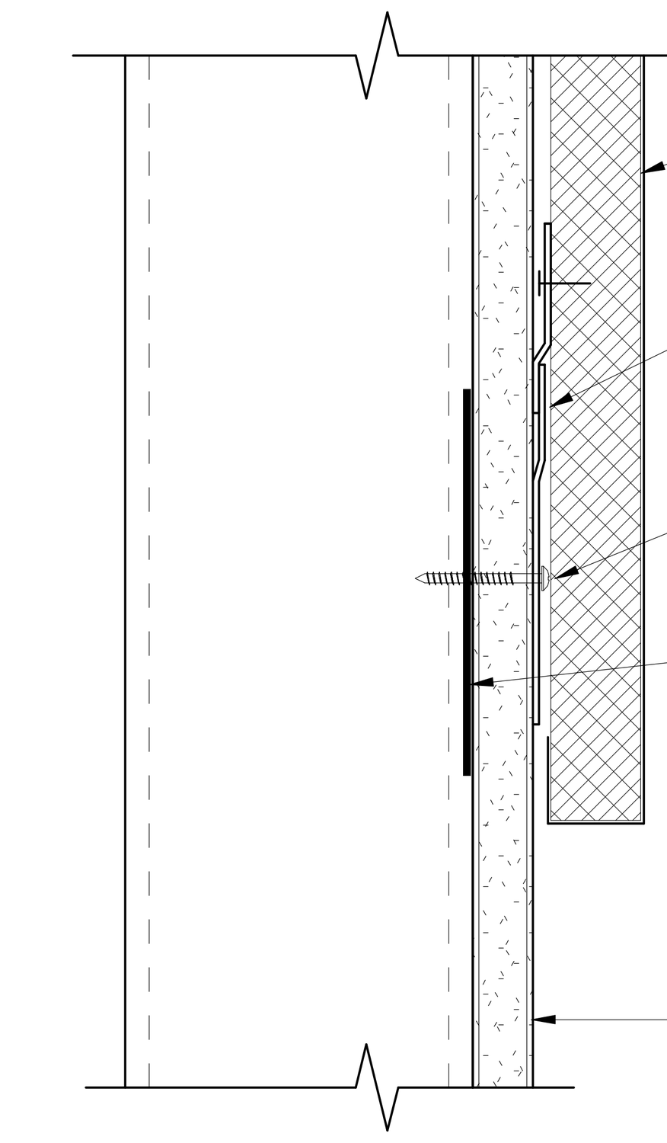
CERAMIC TILE WAINSCOT LAYOUT
9
SCALE: 3/4" = 1'-0"



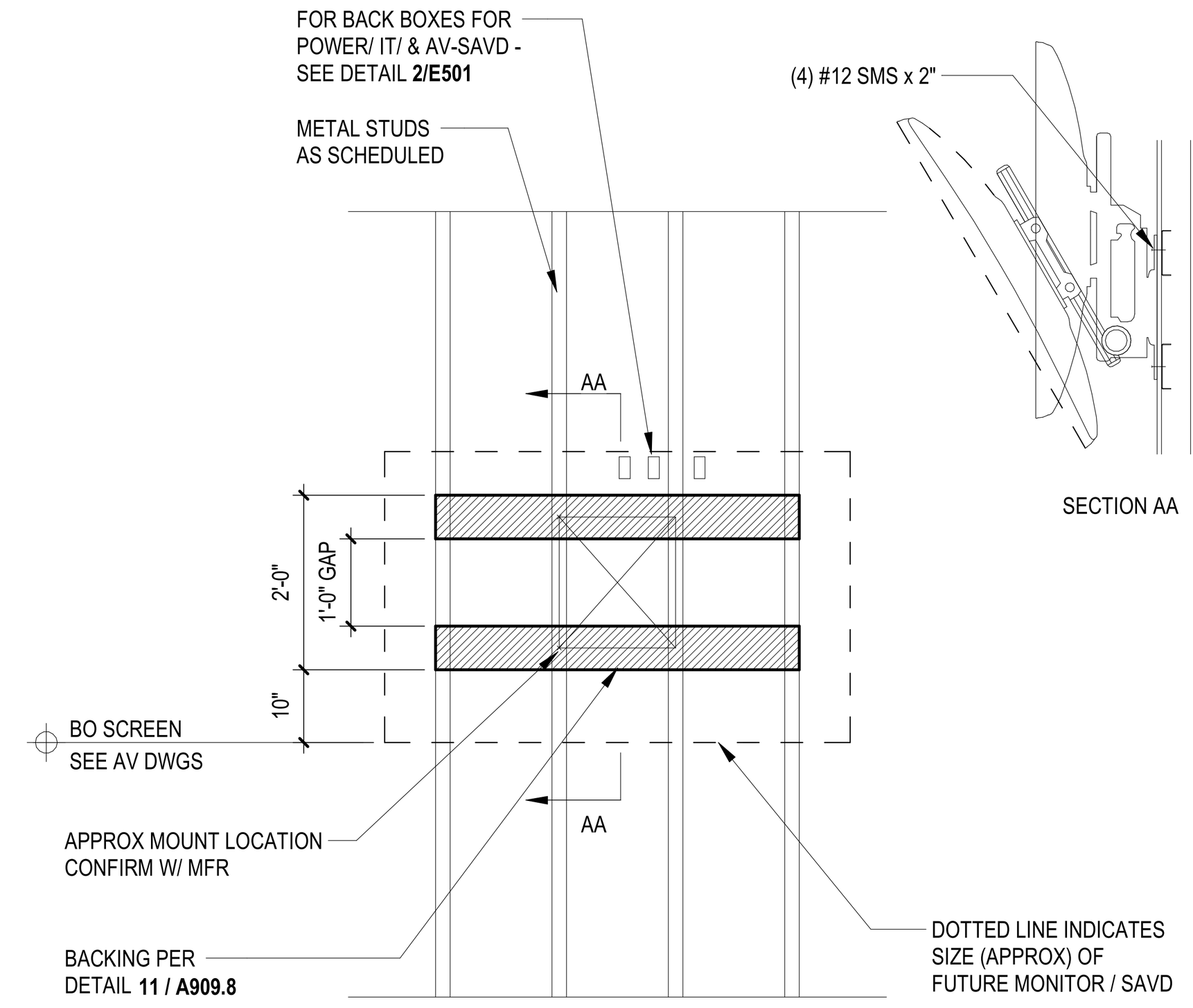
ACOUSTIC PANEL MOUNT W/ CLIP - TOP
5
SCALE: 6" = 1'-0"



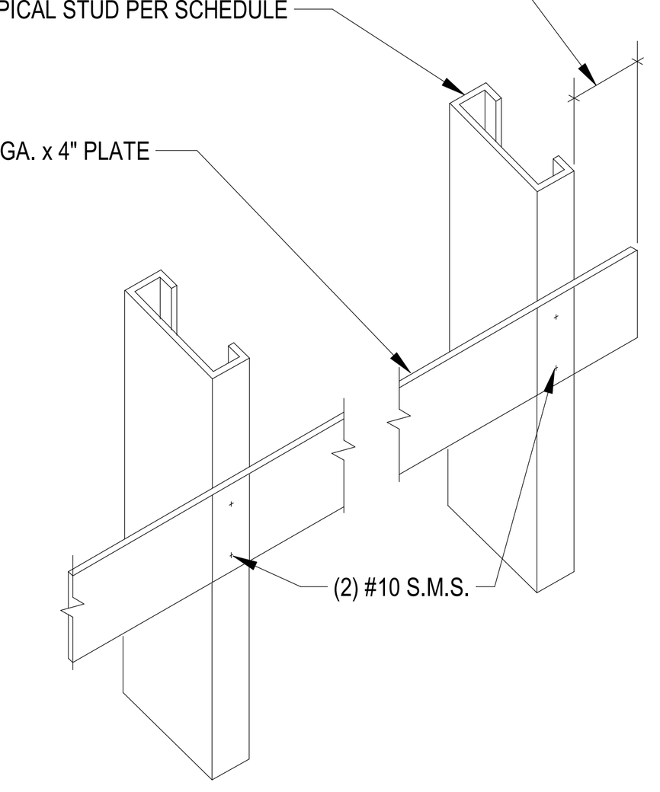
TECTUM PANEL SYSTEM MOUNTING
1
SCALE: 3" = 1'-0"



ACOUSTIC PANEL MOUNT W/ CLIP - BOTTOM
6
SCALE: 6" = 1'-0"



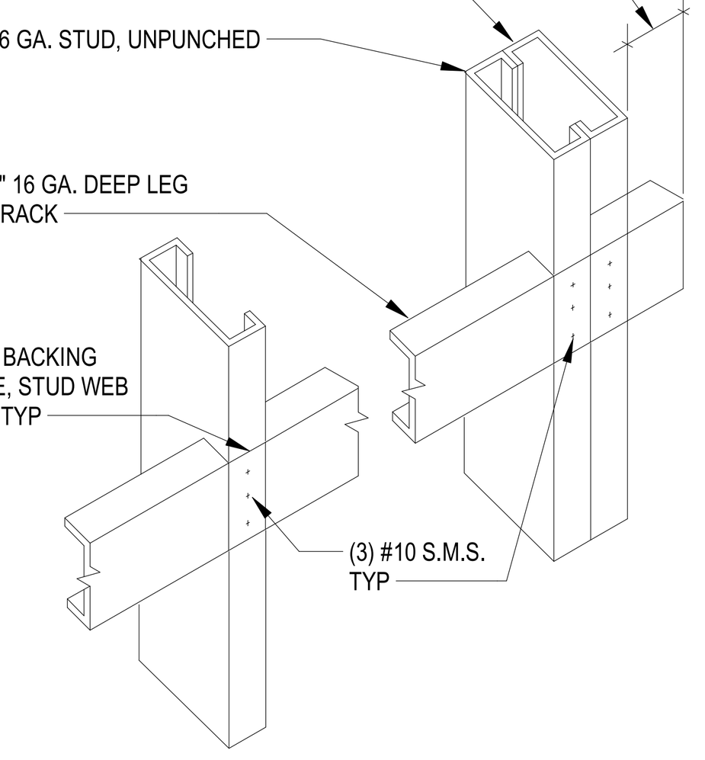
WALL MOUNTED MONITOR BACKING
2
SCALE: 1/2" = 1'-0"



NOTES:

1. USE FOR MISC. ITEMS (E.G. SURFACE MOUNTED MIRROR, WASTE RECEPTACLE, TOWEL DISPENSERS, WALL MOUNTED DOOR STOP, ETC MAX WT 50LB POINT LOAD
2. VERIFY LENGTH HEIGHT, LOCATION OF BACKING PLATE & NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS
3. USE # 12 SELF TAPPING SCREWS MIN. WHEN ATTACHING ITEM TO BACKING

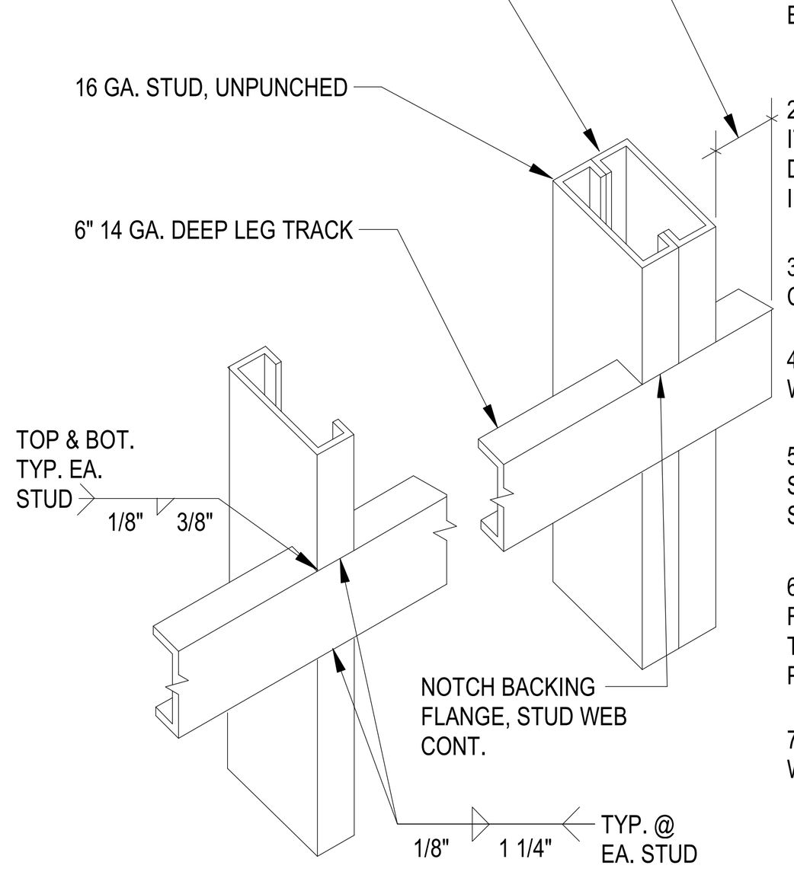
BACKING PLATE - TYPE 'A'



NOTES:

1. USE FOR UPPER WALL HUNG CABINETS, FULL HEIGHT CABINETS, HANDRAILS, GRAB BARS, TOILET PARTITIONS, WALL HUNG EQUIPMENT ETC - MAX WT 200 LBS/ LIN FT
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BEING FASTENED SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN. (DBL. STUD COUNTS AS ONE STUD)
4. USE # 12 SELF TAPPING SCREWS MIN. WHEN ATTACHING ITEMS.
5. USE DBL. STUDS WHEN STUD IS SUPPORTING BACKING PLATES ON BOTH SIDES
6. WHEN STUD PENETRATIONS ARE REQUIRED, AVOID PUNCHING MIN. 6" ABOVE TOP OF PLATE AND 6" BELOW BOTTON OF PLATE.

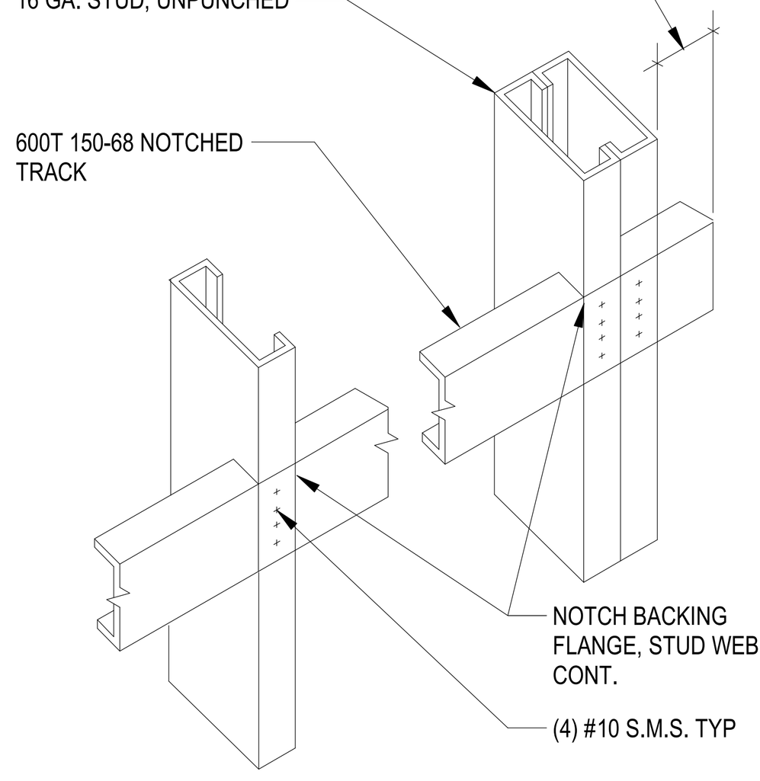
BACKING PLATE - TYPE 'B'



NOTES:

1. USE FOR UPPER WALL HUNG CABINETS, FULL HEIGHT CABINETS, HANDRAILS, WALL HUNG EQUIPMENT ETC MAX WT 300 LBS/ LIN FT
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BEING FASTENED SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN (DBL STUD COUNTS AS ONE STUD)
4. USE # 12 SELF TAPPING SCREWS MIN. WHEN ATTACHING ITEMS.
5. USE DBL. STUDS WHEN STUD IS SUPPORTING BACKING PLATES ON BOTH SIDES
6. WHEN STUD PENETRATIONS ARE REQUIRED, AVOID PUNCHING MIN. 6" ABOVE TOP OF PLATE AND 6" BELOW BOTTON OF PLATE.
7. SEE BACKING PLATE TYPE 'D' FOR NON-WELD ALTERNATE BACKING PLATE

BACKING PLATE - TYPE 'C'

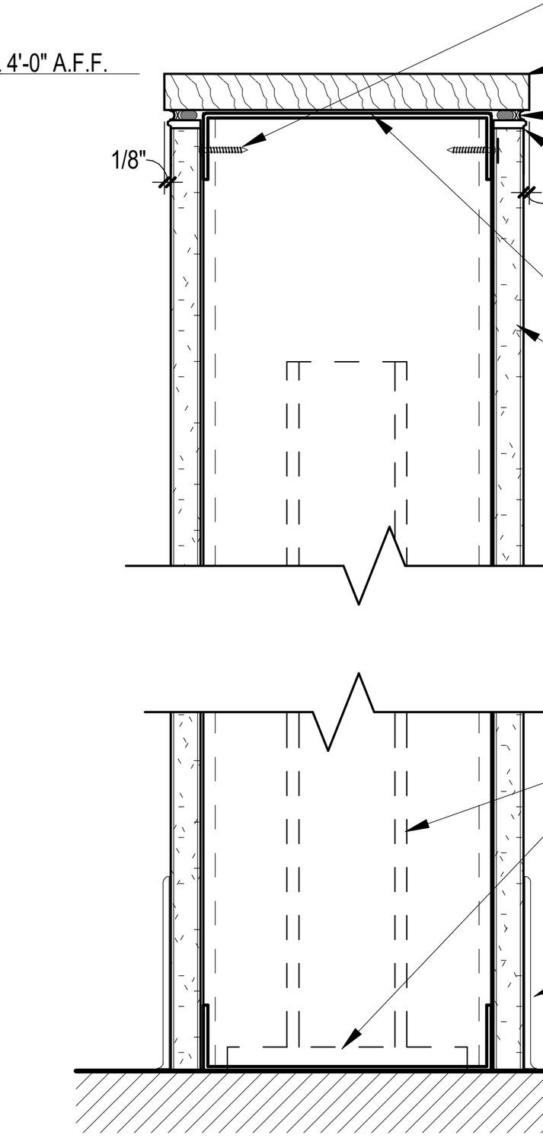


NOTES:

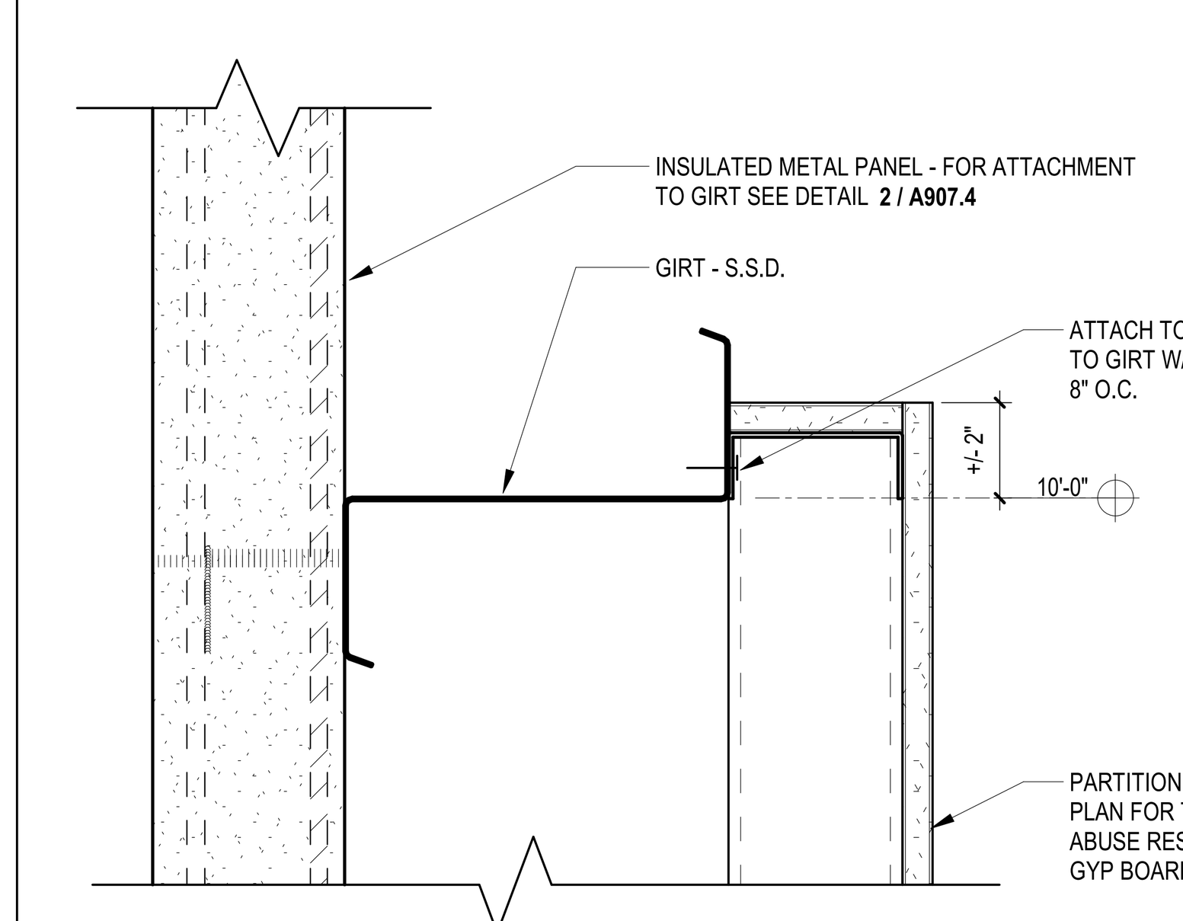
1. USE FOR UPPER WALL HUNG CABINETS, FULL HEIGHT CABINETS, HANDRAILS, WALL HUNG EQUIPMENT ETC MAX WT 300 LBS/ LIN FT
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BEING FASTENED SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN. (DBL. STUD COUNTS AS ONE STUD)
4. USE #12 SELF TAPPING SCREWS MIN. WHEN ATTACHING ITEMS.
5. USE DBL. STUDS WHEN STUD IS SUPPORTING BACKING PLATES ON BOTH SIDES
6. WHEN STUD PENETRATIONS ARE REQUIRED, AVOID PUNCHING MIN. 6" ABOVE TOP OF PLATE AND 6" BELOW BOTTON OF PLATE.

BACKING PLATE - TYPE 'D' - ALTERNATE

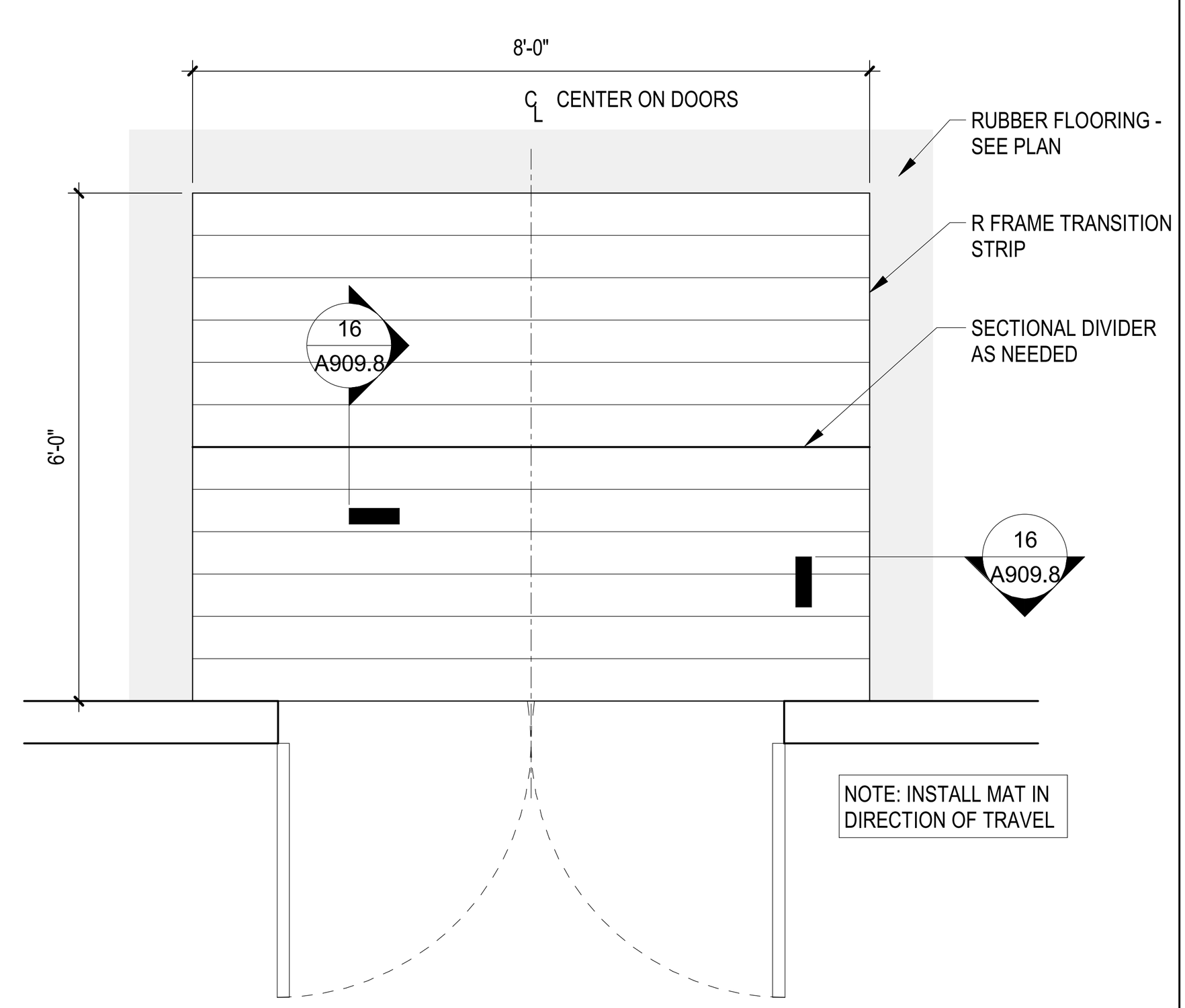
BACKING DETAILS
11
SCALE: 3/4" = 1'-0"



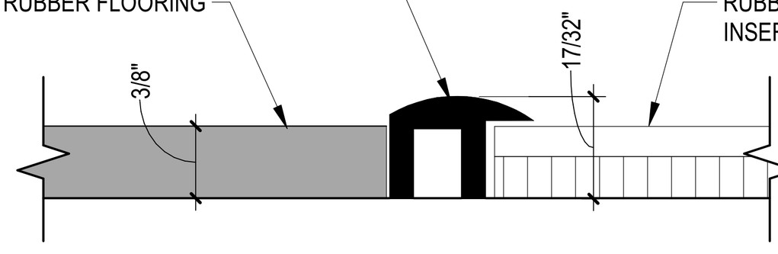
PONY WALL BASE / TOP TRIM
7
SCALE: 3" = 1'-0"

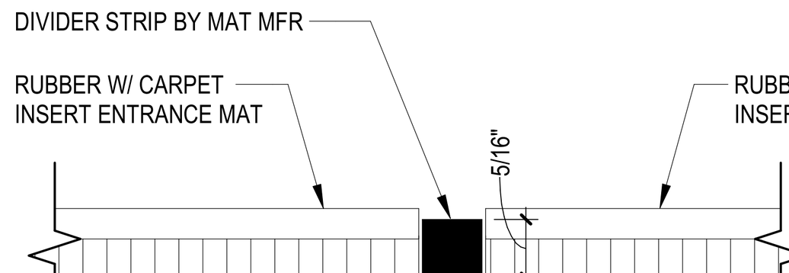


TOP OF PARTITION WALL AT GIRT
3
SCALE: 3" = 1'-0"

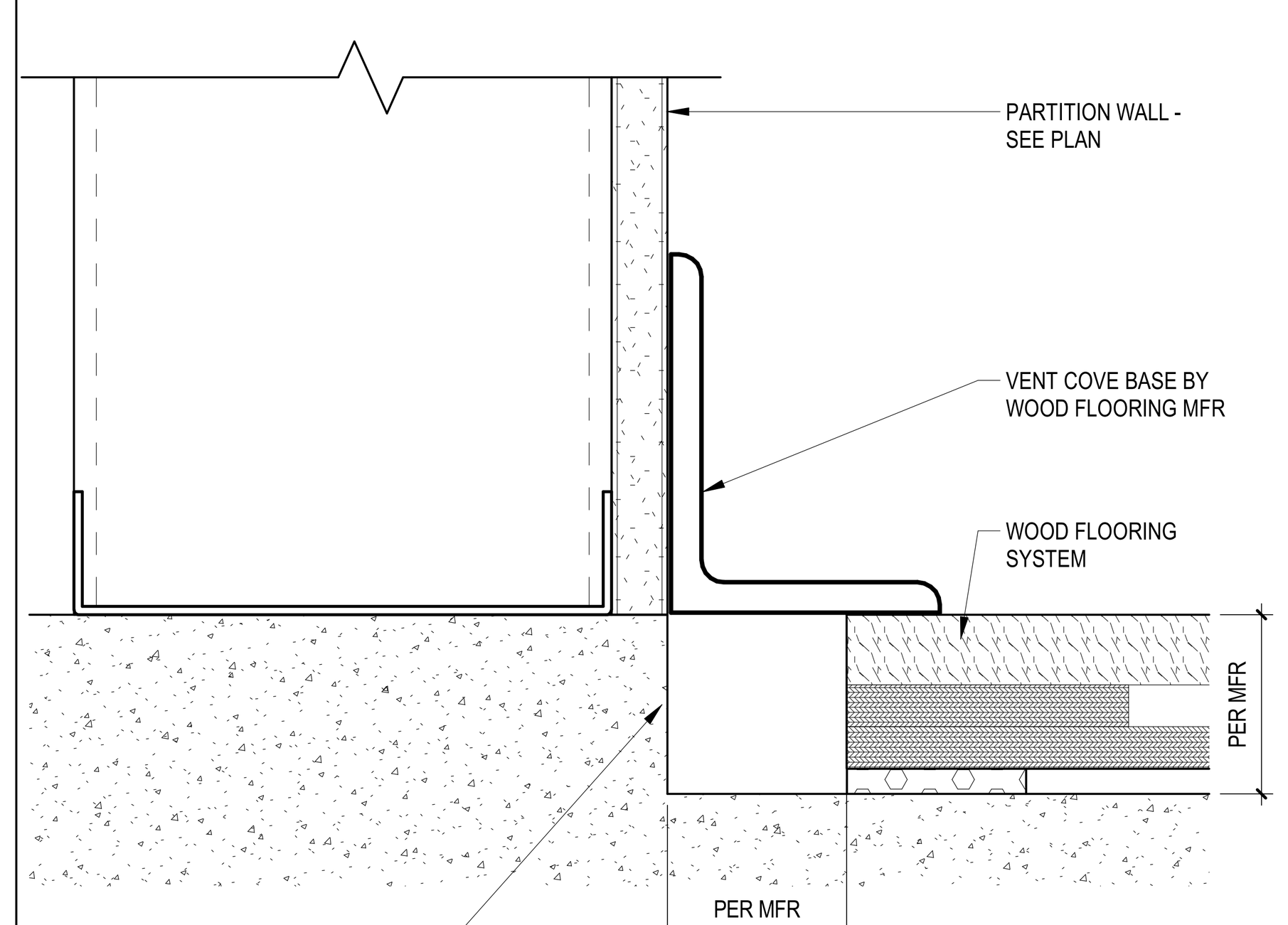


ENTRANCE GRILLE AT RUBBER FLOORING
20
SCALE: 1/2" = 1'-0"

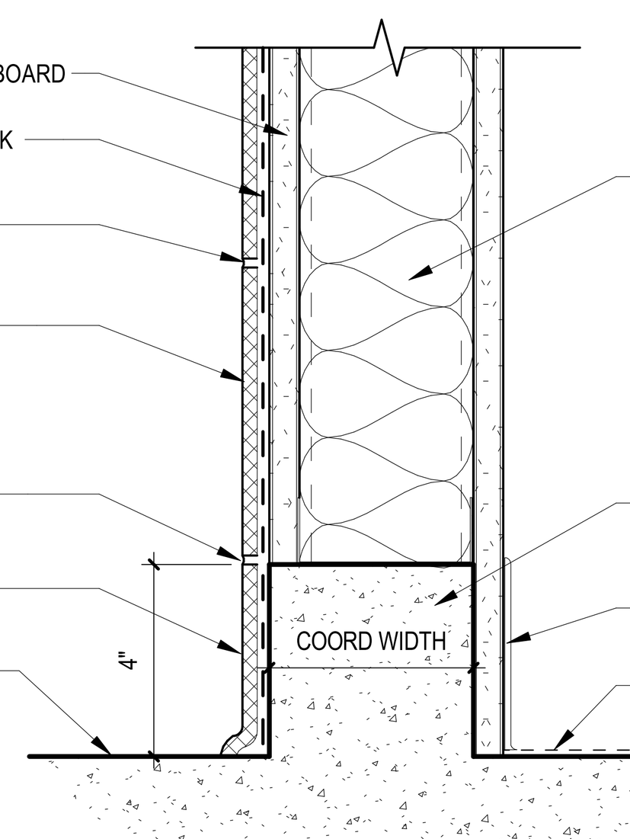




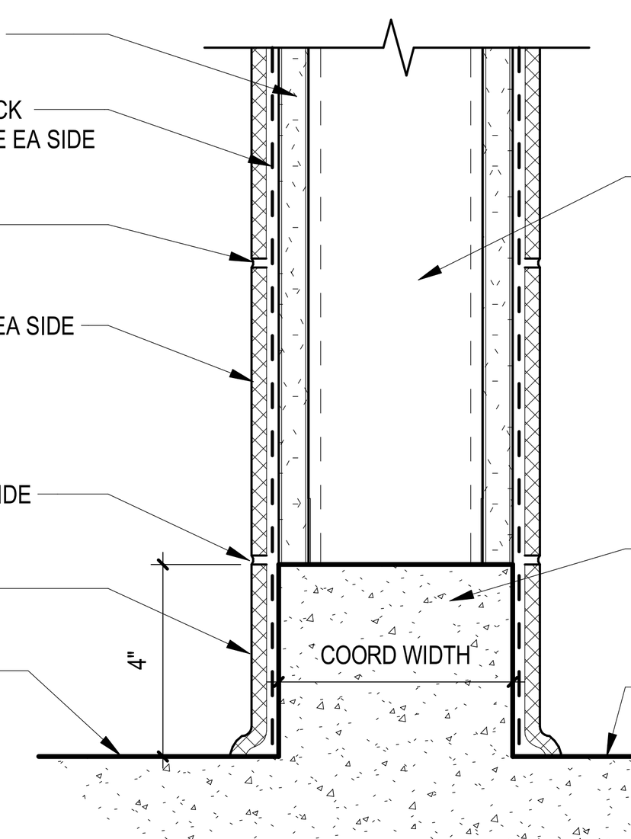
ENTRANCE GRILLE TRANSITIONS
16
SCALE: 12" = 1'-0"



VENTED COVE BASE AT WOOD FLOORING
12
SCALE: 6" = 1'-0"



CERAMIC TILE AT CURB ONE SIDE
8
SCALE: 3" = 1'-0"



CERAMIC TILE AT CURB BOTH SIDES
4
SCALE: 3" = 1'-0"

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consultant

P.E. REPLACEMENT PROJECT
COLLEGE OF THE REDWOODS
REDWOODS COMMUNITY COLLEGE DISTRICT
7351 TOMPKINS HILL ROAD, EUREKA, CA 95501
owner

tBP project number: 22035.00
file name:
drawn by: Author checked by: Checker
date: Issue Date 8/29/2024 11:55:09 AM

rev:	date:	description:
	12/04/23	BID SET
6	9/05/24	ADDENDUM 6

drawing title:
INTERIOR DETAILS

drawing no.:
A909.8

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GAS WATER HEATER SCHEDULE

EQUIP TYPE	NUMBER	MANUFACTURER	MODEL	GAS CONN.	CW CONN.	HW CONN.	GAS INPUT	GALLONS CAP.	WEIGHT (LBS)	COMMENTS
WH	1	A.O. Smith	BTH-300 Mxi	1"	1"	1"	199000.0 Btu/h	100.0 gal	1658	PROVIDE CONCENTRIC FLUE VENT KIT #100111100 & CONDENSATE NEUTRALIZATION KIT #100289339
WH	2	A.O. Smith	BTH-300 Mxi	1 1/4"	1"	1"	300000.0 Btu/h	119.0 gal	1816	PROVIDE CONCENTRIC FLUE VENT KIT #100113124 & CONDENSATE NEUTRALIZATION KIT #100289339
WH	3	A.O. Smith	BTH-300	1 1/2"	1"	1"	300000.0 Btu/h	119.0 gal	1816	PROVIDE CONCENTRIC FLUE VENT KIT #100113124 & CONDENSATE NEUTRALIZATION KIT #100289339

PROVIDE STORAGE TANK, (ST-1, 2, 3, 4) OA SMITH, TJV-120A. JACKETED TANK, 120 GALLON CAPACITY.

RECIRCULATION PUMP SCHEDULE

EQUIPMENT TYPE	NUMBER	Model	Manufacturer	Maximum Flow Rate	Motor Power	Voltage	Phase	Comments
RCP	1	RCP	Bell & Gossett	36 GPM	124 W	115 V	1	
RCP	2	RCP	Bell & Gossett	36 GPM	124 W	115 V	1	
RCP	2.15	RCP	Bell & Gossett	36 GPM	124 W	115 V	1	

WATER SIZING - FH

FIXTURE TYPE	QUANTITY	WASTE		COLD WATER	
		DFU	TOTAL	WSFU	TOTAL
WC	18	4	72	5	90
UR	8	2	16	3	24
LV	14	1	14	1	14
SK	0	2	0	1	0
SHR	20	2	40	2	40
MS	1	2	2	2	2
DF	2	0.5	1	5	10
TOTAL FIXTURE UNITS =			145		180
FLUSH VALVE SYSTEM					
FIXTURE UNITS:			180		
GPM			90		
SERVICE					
INCOMING PRESSURE				70	PSI
BACKFLOW PREVENTER				10	PSI
METER				5	PSI
AVAILABLE PRESSURE				55	PSI
HEIGHT		20 FT		8.66 PSI	
MIN. RESIDUAL PRESSURE		25 PSI		25 PSI	
TOTAL LENGTH OF PIPING		240 FT		360 FT	
PRESS. AVAIL FOR FRICTION LOSS				5.927778 PSI/100 FT	

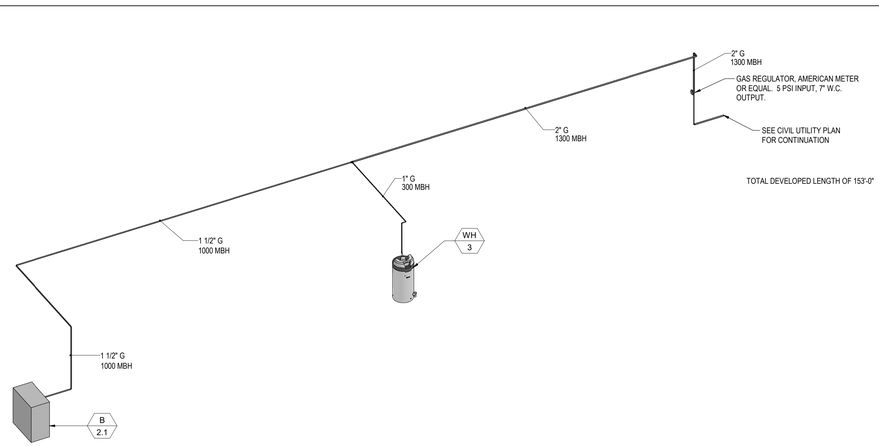
WATER SIZING - PE

FIXTURE TYPE	QUANTITY	WASTE		COLD WATER	
		DFU	TOTAL	WSFU	TOTAL
WC	28	4	112	5	140
UR	14	2	28	3	42
LV	34	1	34	1	34
SK	6	1	6	1.5	9
SHR	41	2	82	2	82
MS	1	2	2	3	3
DF	3	0.5	1.5	0.5	1.5
TOTAL FIXTURE UNITS =			265.5		311.5
FLUSH VALVE SYSTEM					
FIXTURE UNITS:			311.5		
GPM			112		
SERVICE					
INCOMING PRESSURE				70	PSI
BACKFLOW PREVENTER				10	PSI
METER				5	PSI
AVAILABLE PRESSURE				65	PSI
HEIGHT		20 FT		8.66 PSI	
MIN. RESIDUAL PRESSURE		25 PSI		25 PSI	
TOTAL LENGTH OF PIPING		350 FT		525 FT	
PRESS. AVAIL FOR FRICTION LOSS				5.969524 PSI/100 FT	

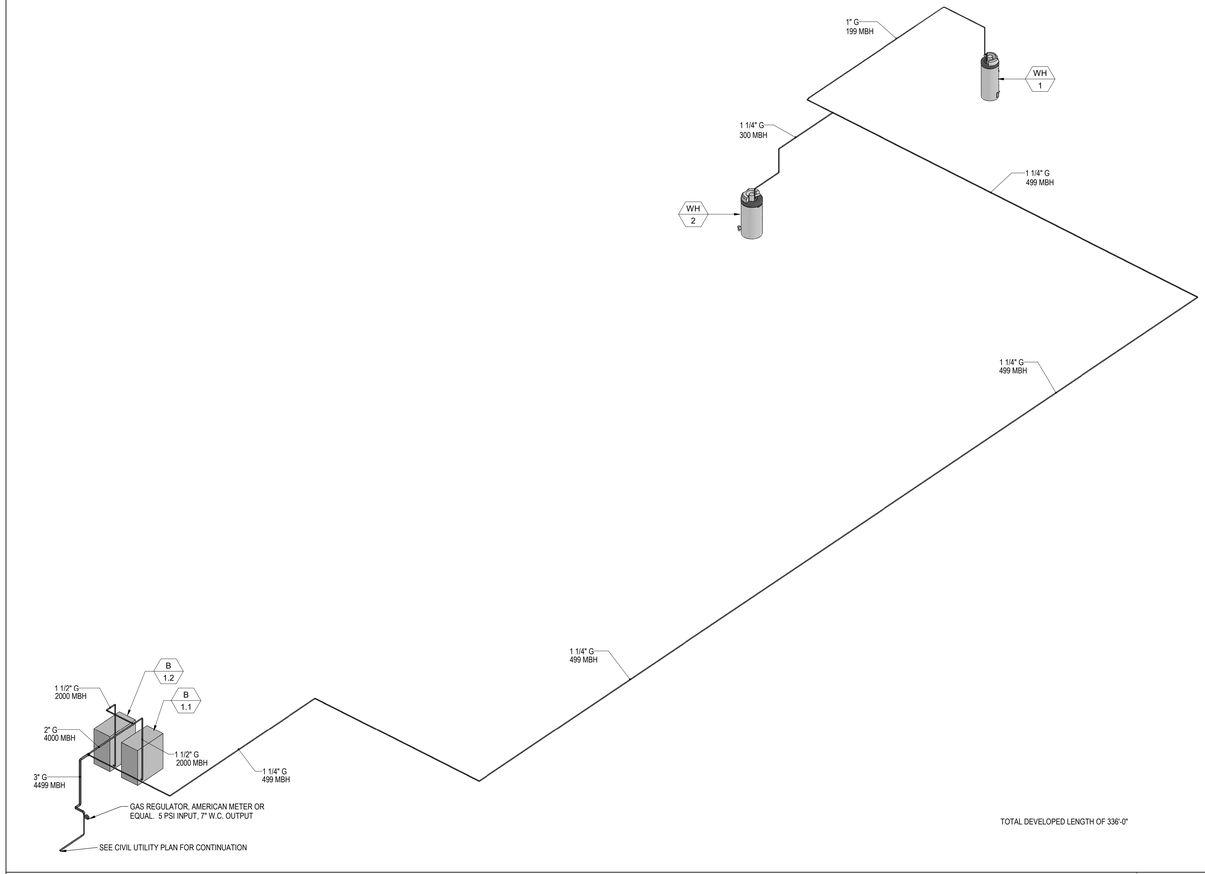
PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	Model	FLOW RATE	MAX. FLOW ALLOWED	SANITARY	VENT	CW	HW	CWFU	HWFU	WFU	COMMENTS
DF	Elkay Manufacturing	VRCTLR8WSK	.5 GPM	.5 GPM	2"	2"						ADA COMPLIANT
6 FCO	Jay R. Smith Mfg. Co.	4020	NA	NA								
FD	Zurn Industries, LLC	ZN415-NH-P	NA	NA	2"	2"						
4 FS	Zurn Industries, LLC	FD2375	NA	NA	2"	2"						No-Hub Outlet
HB	Zurn Industries, LLC	Z1350	NA	NA			3/4"					
4 LV	American Standard	0356.421	0.35 GPM	.5 GPM	2"	2"	1/2"	1/2"	0	0	0	
MS	FLORESTONE	MODEL 96	NA	NA	3"	2"	3/4"	3/4"	1.5	1.5	2	PROVIDE CHICAGO FAUCET 897-CCP FAUCET
RD1	Zurn Industries, LLC	Z164-4NH	NA	NA		2"					0	4" RWL / OFD
SHR1	Bradley Corporation	HN200-EF-S15-HS-	1.5 GPM	1.8 GPM		-	1/2"	1/2"	1	1	0	ADA COMPLIANT
SHR2	Bradley Corporation	S59-2005	1.5 GPM	1.8 GPM			1/2"	1/2"	1	1	1	B1 SHOWERHEAD
SK1	Elkay Manufacturing	LRAD1918651	1.0 GPM	1.5 GPM	2"	2"	1/2"	1/2"	1	1	1	ADA COMPLIANT
SK2	Elkay Manufacturer	Sturdibilt	1.5 GPM	1.5 GPM	3"	2"	3/4"	3/4"	1.5	1.5	3	
TD1	Blucher	BWC-160	NA	NA	2"	2"					2	
TD2	Blucher	BWC-136	NA	NA	2"	2"					2	
TD3	Zurn Industries, LLC	Z884	NA	NA	3"	2"					2	3" No-Hub Bottom Outlet, NOTE 1
UR	TOTO USA, Inc.	UT445U	0.125 GPF	0.125 GPF	2"	2"	3/4"		3	0	2	PROVIDE ZURN Z1221 CARRIER OR APPROVED EQUAL. ADA COMPLIANT
USK	Elkay Manufacturer	Sturdibilt	1.5 GPM	1.5 GPM	2"	2"	1/2"	1/2"	1.5	1.5	2	PROVIDE CHICAGO FAUCET 897-CCP FAUCET
4 WB	SIOUX CHIEF	0XBOX	NA	NA	2"	2"	3/4"	3/4"	1	1	3	
WC1	American Standard	3461.001	1.28 GPF	1.28 GPF	3"	2"	1"		5		5	
WC2	American Standard	3451.001.020	1.28 GPF	1.28 GPF	3"	2"	1"		5	0	5	
WCO	WATTS	CO-440-RD	NA	NA					0	0	0	

1. PROVIDE SIOUX CHIEF PRIMER PERFECT TRAP PRIMER. PROVIDE DISTRIBUTOR AS NEEDED. PROVIDE LOCKING ACCESS PANEL.



GAS PIPING DIAGRAM - FH
SCALE: 2



GAS PIPING DIAGRAM - PE
SCALE: 1

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