Date Due: May 14th, 2021 DUE NO LATER THAN 2:00 P.M. LOCAL TIME IN HOUSTON, TEXAS Proposals received later than the above date and time will not be considered.

YES Prep Public Schools

REQUEST FOR PROPOSAL Cover Sheet

REQUEST FOR PROPOSAL: FY21_West Campus Legacy Clinic

NOTE TO PROPOSERS!!! Carefully read all instructions, requirements, and specifications. Fill out all forms properly and completely. Submit your proposal with all appropriate supplements and/or samples and return as instructed in Special Requirements/Instructions.

RETURN PROPOSAL TO:
Richard Lilavois
Construction Project Manager
5515 S Loop E, Suite B
Houston, Texas 77033

For additional information, contact Richard Lilavois, Richard.Lilavois@yesprep.org or 832-528-4467.

You must sign below in INK; failure to sign WILL disqualify the proposal. All prices must be typewritten or printed in ink.

Vendor Name:		
Vendor Address:		
City, State, Zip Code:		
Taxpayer Identification Number (T.I.N.):		
Telephone No.:	Fax No.:	
Email:		
Print Name:		

[Your signature attests to your proposal to provide the goods and/or services in this proposal according to the published provisions of this Request for Proposal unless modifications or

TENTATIVE RFP SCHEDULE

YES Prep anticipates following the following time table for this RFP:

Newspaper Ads:

 Bid Walk (Optional):
 Inquiry Deadline for Proposal Questions:
 Respond to Questions:

 April 30th, 2021 & May 7th, 2021
 May 10th, 2021 8am CST
 May 10th, 2021 4pm CST

 May 11th, 2021 10am CST

Deadline for submission of proposals & Opening: May 14th, 2021 2 pm CST
 Proposal evaluation: May 14th, 2021 – May 19th, 2021

Contract Award: Subject to Board Approval

TABLE OF CONTENTS - REQUEST FOR PROPOSAL PACKAGE

The items below represent components which comprise this Request for Proposal (hereinafter "RFP") package. Suppliers are asked to review the package to be sure that all applicable parts are included. If any portion of the package is missing, please notify Richard Lilavois, Construction Project Manager immediately at Richard.Lilavois@yesprep.org or 832-528-4467.

It is the Vendor's responsibility to be thoroughly familiar with all Requirements and Specifications. Be sure you understand the following before you return your proposal packet.

1. Cover Sheet

Your company name, address, and your signature (IN INK) should appear on this page.

2. Table of Contents

This page is the Table of Contents.

3. General Requirements

You should be familiar with all of the General Requirements.

4. Special Requirements/Instructions

This section provides information you must know in order to make a complete and proper proposal.

5. Specifications

This section contains the detailed description of the products/services sought.

6. Attachments

- A. Submittals 1 4
- B. Questionnaire
- C. Workers' Compensation Certification
- D. Insurance Coverage Requirements
- E. Proposed Exceptions, Alterations, Additions, or Modifications to RFP (if any)
- F. Scoring Rubric

INTRODUCTION

YES Prep Public Schools is a free, open-enrollment public school system that serves 15,000

students across nineteen (19) schools in the Houston area. YES Prep has been ranked as among the top 100 public high schools in the nation by Newsweek and U.S. News & World Report. Every year, 100 percent of YES Prep's graduating seniors have been accepted into four-year colleges, including Harvard, Yale, Columbia, Rice, and Stanford. YES Prep combines a highly successful 6th-12th grade model along with high standards for student achievement.

GENERAL REQUIREMENTS

Proposals will be accepted by Yes Prep Public Schools no later than 2:00 p.m. (local time), **May 14**th, **2021**. Every proposal must be enclosed in an envelope clearly marked "FY21_Yes Prep West Campus Legacy Clinic" and shall include one copy.

All questions, requests, responses, and proposals shall be submitted to:
Richard Lilavois - Construction Project Manager
YES Prep Public Schools
5515 S Loop E, Suite B
Houston, TX 77033
Richard.Lilavois@vesprep.org

Questions and responses regarding this RFP will be posted to the YES Prep Public Schools web site during the RFP phase so all interested parties will have access to the same information. Web site is located at: http://www.yesprep.org/notices

The appropriate committee shall review all timely responses, and if necessary, the full Board of Trustees prior to acceptance/bid award. Responses may be hand delivered. Any response or proposal received after the above deadline shall be considered late, and will not be opened or considered.

Time Frame

The timeframe for all responses must be complete and in possession of YES Prep Public Schools by 2:00 p.m. (local time) on **May 14**th, **2021.** Each submission/proposal must be complete. Any incomplete responses may be rejected. All respondents will comply with this RFP as a basis for the award of the proposal.

Bid-Walk: One-time bid walk will be offered on Tues, May 10th, 2021 starting at 8AM. We will meet at West Campus. – 10535 Harwin Dr, Houston, TX 77036. This bid walk is not mandatory. Mask will be required.

All questions are due by 4:00 p.m. (local time) on May 10th, 2021 and shall be submitted to: Richard.Lilavois@yesprep.org

Approval

The actual acceptance of any proposal may be delayed. Therefore, all responses must remain valid for a period of no less than one hundred and twenty (120) days. It is intended that proposals will be recommended to the Board of Trustees at an upcoming board meeting. The Board of Trustees reserves the right to reject any and all proposals.

ACCESS TO RECORDS

Proposer (hereinafter "Vendor") may be required to allow duly authorized representatives of

YES Prep Public Schools (hereinafter "YES"), and local, state, and federal governments, access to contracts, books, documents, and records necessary to verify the nature, extent, and cost of services provided by the Vendor.

AWARD

YES reserves the right to reject any and all proposals, and reserves the sole right at its discretion to accept any proposal(s) it considers most favorable to the interest of YES and waive any and all minor irregularities in any proposal(s). YES further reserves the right to reject any proposal(s) and seek new proposals through the issuance of a new or amended Request for Proposal (hereinafter "RFP") if such action is deemed in the best interest of YES.

OFFER COMPLETION

Fill out and return to Richard Lilavois, Construction Project Manager, one complete proposal form, and two copies, as instructed under the Special Requirements section of this document. An authorized Vendor representative should sign the Cover Sheet. Completion of these forms is intended to verify that the Vendor has submitted the proposal, is familiar with its contents, and has submitted the material in accordance with all requirements.

The submission of a response shall be prima facie evidence that the Vendor has full knowledge of the scope, nature, quantity, and quality of work to be performed, the detailed requirements of the project, and the conditions under which the work is to be performed. All terms, conditions, specifications, stipulations, and Vendor requirements stated in the RFP, any attached Appendices to the RFP, and any and all Addenda issued shall become part of the contract entered into between YES and the Vendor.

OFFER RETURNS

Vendors must return all completed proposals to the office of Richard Lilavois as indicated on the Cover Sheet of this package. Late proposals will not be accepted. It is the responsibility of the responding Vendor to assure that the response is received prior to the date and time indicated on the Cover Sheet of this package.

DIGITAL FORMAT

If Vendor obtained the proposal specifications in digital format in order to prepare a response, the proposal must be submitted in hard copy according to the instructions contained in this package. If, in its response, Vendor makes any changes whatsoever to the YES published RFP specifications, the RFP specifications as published by YES shall control. Furthermore, if an alteration of any kind to the RFP specifications as published is discovered after the contract is executed, the contract is subject to immediate cancellation at the sole option of YES.

DISQUALIFICATION OF VENDOR

Upon signing this RFP, Vendor certifies that the proposal has not violated the antitrust laws of this state codified in §15.01, *et seq.*, Business & Commerce Code, or the federal antitrust laws, and has not communicated directly or indirectly the proposal made to any competitor or any other person engaged in such line of business. Any or all proposals may be rejected if YES believes that collusion exists among the Vendors. Proposals in which the prices are obviously unbalanced may be rejected.

EVALUATION

In evaluating the proposals submitted, YES will apply the "Best Value" process in selecting the

Vendor to be awarded a contract for this project. **Purchase price is not the only criteria that will be used in the evaluation process**. The selection process will include, but not be limited to, the following considerations:

- 1. The quality and range of goods and/or services the Vendor proposes to provide;
- The extent to which the goods and/or services meet YES needs;
- 3. The Vendor's overall experience, reputation, expertise, stability, and financial responsibility;
- 4. The Vendor's past relationship, if any, with YES;
- 5. The experience and qualifications of the Vendor staff (i.e. drivers, supervisors, dispatchers, mechanics, etc.) that will be assigned to service the YES account:
- 6. The ability to provide service in a safe, reliable, expedient, and efficient manner;
- 7. Facilities and business processes and practices (computerized information systems, access to industry facilities, quality and range of management reports, etc.) that will be used in servicing the YES account;
- 8. The Vendor's financial terms offered to YES;
- 9. The total long-term cost to YES to acquire the Vendor's goods or services; and/or
- 10. Any other relevant factor(s) specifically listed in the RFP.

YES reserves the right to contact references from the Vendor's client list, or any other persons considered relevant by YES. YES reserves the right to conduct personal interviews of any or all potential Vendors prior to selection.

YES will not be liable for any costs incurred by the Vendor in connection with such interviews or with the submission of any response.

DOCUMENT INTERPRETATION

In the event of any conflict of interpretation of any part of this overall document, the interpretation of YES shall govern.

GOVERNING LAW

Any agreements resulting from this RFP shall be governed by, construed, and enforced in accordance with the laws of the State of Texas applicable to contracts made and wholly performed within such state (without regard to the conflicts or choice of law principles thereof). The parties irrevocably consent to the jurisdiction of the State of Texas, and agree that any court of competent jurisdiction sitting in the County of Harris, State of Texas, shall be an

appropriate and convenient place of venue, and shall be the sole and exclusive place of venue, to resolve any dispute with respect to any such agreements.

HOLD HARMLESS AGREEMENT

The successful Vendor(s) shall indemnify, hold harmless, and defend YES, its directors, officers, and employees (paid or volunteer) from and against any and all claims, demands, and causes of action of whatever kind or nature arising out of error, omission, misrepresentation, negligent act, conduct, or misconduct of the Vendor and its subcontractors, agents, and employees (paid or volunteer) in the provision of goods or the performance of services arising out of the preparation of this proposal and execution and performance of any contracts resulting therefrom. Such indemnification shall also include reasonable attorneys' fees, court costs, and expenses.

INSPECTIONS

YES reserves the right to inspect any item(s) or service location for compliance with specifications, requirements, and needs of YES. If a Vendor cannot furnish a sample of a proposed item, where applicable, for review, or fails to satisfactorily show an ability to perform, YES can reject the Vendor as inadequate.

TESTING

YES reserves the right to test equipment, supplies, materials, and goods proposed for quality, compliance with specifications, and ability to meet the needs of YES. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the proposal is subject to rejection.

INVOICES AND PAYMENTS

YES standard payment terms are Net 30 days after receipt of invoice.

Invoices should be provided to YES in a timely manner. Vendors are requested to invoice YES within 30 days of providing goods and/or services to YES. Vendors who continuously invoice YES in a manner that is outside of generally accepted business practices may affect their continuing relationship with YES.

In the event a Vendor presents YES with invoices, statements, reports, etc. that are incomplete or inaccurate, YES may be required to perform substantial research which could result in delay of payment. YES will not be responsible for any interest charges and/or late fees as a result of delayed payment due to time delays caused by inadequate, incomplete, or inaccurate information provided in invoices by Vendor.

PRICING

Prices for all goods and/or services shall be negotiated to a firm amount for the duration of this contract or as agreed to in terms of time frame and/or method of determining price escalations, if any, by Vendor. All prices and methods of determining prices must be written in ink or typewritten. Where unit pricing and extended pricing differ, unit pricing prevails.

SCANNED OR RE-TYPED RESPONSE

If in its response, Vendor either electronically scans, re-types, or in some way reproduces the YES-published RFP package, then in the event of any conflict between the terms and provisions of the published RFP package, or any portion thereof, and the terms and provisions of the response made by the Vendor, the RFP package *as published* by YES shall control.

Furthermore, if an alteration of any kind to the YES-published RFP package is only discovered after the contract is executed, the contract is subject to immediate cancellation at the sole option of YES.

SEVERABILITY

If any section, subsection, paragraph, sentence, clause, phrase, or word of these requirements or the specifications shall be held invalid, such holding shall not affect the remaining portions of these requirements and the specifications, and it is hereby declared that such remaining portions would have been included in these requirements and the specifications as though the invalid portion had been omitted.

SUPPLEMENTAL MATERIALS

Vendors are responsible for including all pertinent product data in the returned offer package. Literature, brochures, data sheets, specification information, completed forms requested as part of the offer package, and any other facts which may affect the evaluation and subsequent contract award should be included. Materials such as legal documents and contractual agreements, which the Vendor wishes to include as a condition of the proposal, must also be in the returned proposal package. Failure to include all necessary and proper supplemental materials may be cause to reject the entire proposal.

TAXES

YES is exempt from federal, state, and local taxes. In the event that taxes are imposed on the goods or services purchased, YES will not be responsible for payment of the taxes. The Vendor shall absorb the taxes entirely. Texas Limited Sales Tax Exemption Certificates will be furnished to Vendors upon written request to YES.

TERM CONTRACTS

The successful Vendor, as determined by YES, shall be required to execute a contract to furnish all goods and/or services and other deliverables required for successful completion of the proposed project. No Vendor shall obtain any interest or right in any award until YES has executed a contract, and any such interest and rights shall be subject to the terms and conditions as contained in such contract.

The successful Vendor may not assign, sell, or otherwise transfer its interest in the contract award, or any part thereof, without prior written consent from the YES.

QUANTITY

There is no guaranteed amount of business, expressed or implied, to be purchased or contracted for by YES. However, the Vendor(s) awarded the contract shall furnish all required goods and/or services to YES at the stated price, when and if required.

CONTRACT TYPE

The preferred contract type to be awarded is a fixed fee contract. However, if a Vendor has reason to believe a better (more cost effective) method is practical, then the Vendor is encouraged to offer that better pricing option as an alternative in its submitted proposal. YES will consider that type of contract as it compares with other recommended contract options.

TERMINATION

YES reserves the right to terminate the contract without cause with 60 days prior written notice

for convenience and with 30 days prior written notice for cause if Vendor breaches any of the terms therein, including warranties of Vendor or if the Vendor becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies which YES may have in law or equity. Cause may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all services required to YES's satisfaction, and/or to meet all other obligations and requirements.

If the Vendor breaches any provision of the proposal stipulations, becomes insolvent, enters voluntary or involuntary bankruptcy, or receivership proceedings, or makes an assignment for the benefit of creditors, YES will have the right (without limiting any other rights or remedies that it may have in the contract or by law) to terminate any contract with 30 days prior written notice to the Vendor.

YES will then be relieved of all obligations, except to pay the reasonable value of the Vendor's prior performance (at a cost not exceeding the contract rate). The Vendor will be liable to YES for all costs exceeding the contract price that YES incurs in completing or procuring the service as described in the proposal. YES's right to require strict performance of any obligation in this contract will not be affected by any previous waiver, forbearance, or course of dealing.

FUNDING OUT OPTION

Any contract resulting from this RFP is contingent upon the continued availability of budget appropriations and is subject to cancellation, without penalty to YES, either in whole or in part, if funds are not appropriated by the YES Board of Directors or otherwise not made available to YES.

WARRANTIES

Vendors shall furnish all data pertinent to warranties or guarantees which may apply to items in the proposal. Vendors may not limit or exclude any implied warranties.

ASSOCIATION

Vendors may not use the YES official logo(s), or any phrase associated with YES, without written permission from YES.

DISCLOSURE

All information and documentation related to this RFP submitted by Vendors may be subject to public disclosure under the Texas Public Information Act (Texas Government Code Section 552.001, et seq.).

EXCEPTIONS, ALTERATIONS, ADDITIONS, and MODIFICATIONS

If any exceptions, alterations, additions, or modifications are submitted by Vendor to any portion of this RFP, the Vendor must clearly indicate the exceptions, alterations, additions, and modifications and include a full explanation as a separate attachment to the proposal. The failure to identify exceptions, alterations, additions, or modifications will constitute acceptance by the Vendor of the RFP as proposed by YES. YES reserves the right to reject a proposal containing exceptions, alterations, additions, or modifications.

PROPOSAL PREPARATION COSTS

All costs related to the preparation and submission of this proposal shall be paid by the Vendor.

Issuance of this RFP does not commit YES, in any way, to pay any costs in the preparation and submission of the proposal, nor does the issuance of the RFP obligate YES to award a contract or purchase any goods and services stated in the RFP.

RETENTION OF PROPOSAL DOCUMENTATION

All proposal materials and supporting documentation that is submitted in response to this proposal becomes the permanent property of YES.

MODIFICATION/WITHDRAWL OF PROPOSAL

Proposals may be modified in writing at any time prior to the due date. Proposals may be withdrawn in writing, by facsimile written transmission or in person, before the response date.

PAYMENT TERMS

Invoices that are submitted by the awarded contractor are required to provide accurate and current addresses including any discounts for early payment. Payment of undisputed invoices will be paid monthly provided that the invoices are received by dates provided to the winning bid. Disputed portions of invoices will be held until the dispute is resolved.

PROPOSAL REQUIREMENTS

- Vendor is required to provide evidence of a valid State of Texas Business License
- Vendor is required to provide an insurance certificate with YES Prep named as an additional insured.

The entity legally responsible for fulfilling this agreement shall be identified in the proposal response.

Right to Seek a New Proposal

YES Prep Public Schools reserves the right to receive, accept, or reject any and all proposals for any or all reasons.

Proposals will be awarded to the best overall respondent as determined to be in the best interests of Yes Prep. In comparing the responses to this RFP and making awards, Yes Prep may consider such factors as quality and thoroughness of a proposal, the record of experience, the references of the respondents, and the integrity, performance and assurances in the proposal in addition to that of the proposal price.

It is the responsibility of the vendor to ensure that the equipment proposed is fully functional with existing two-way radio equipment: handheld radios, base stations and school bus radios.

Applicable Law

The successful Contractor(s) agrees that they shall comply with all local, state and federal laws, statutes, rules, and regulations including, but not limited to, the Rehabilitation Act of 1973 and the Americans with Disabilities Act. In the event that any claims should arise with regards to this contract, for a violation of any such local, state, or federal law, statues, rules, or regulations, the provider will indemnify and hold Huntington County Community School Corporation harmless for any damages, including court costs or attorney fees which might be incurred.

Dispute resolution

It is expected that any conflicts or disagreements can be settled through face-to-face meetings. Unresolved disputes will require mediation before filing litigation. Both parties will split the cost of mediation.

SPECIAL REQUIREMENTS/INSTRUCTIONS

EVALUATION AND AWARD

This RFP in no manner obligates YES to the eventual rental, lease, or purchase of any equipment or service described, implied, or which may be proposed, until confirmed by a written contract. Progress toward this end is solely at the discretion of YES and may be terminated at any time prior to the signing of the contract.

YES may initiate discussions with Vendor personnel authorized to contractually obligate the Vendor. Discussions will develop into negotiating sessions with the successful Vendor(s). If YES is unable to agree to contract terms, YES reserves the right to terminate contract negotiations with a Vendor and initiate negotiations with another Vendor. YES reserves the right to select services and products from any number of Vendors if, in its sole discretion, it is in the best interest of YES to do so.

Evaluation will consider the Vendor(s) best meeting the needs and requirements of YES and such evaluation and determination of best value shall be solely at the discretion of YES. Purchase price is not the only criteria that will be used in the evaluation process.

Submission of qualifications implies the Vendor's acceptance of the evaluation criteria and Vendor's recognition that subjective judgments can and will be made by those individuals evaluating qualifications.

References, site visits, and product inspections may be used to make judgments directly affecting the award of this contract.

NON-PERFORMANCE BY VENDOR

Performance, before and during the contract term, will be a major consideration of current contract award, renewals, and future award considerations. Failure to perform, in any sense relative to this contract, may result in the probation and/or termination of this agreement by YES on the basis of nonperformance. Non-performance shall be determined as follows:

- 1. Failure to meet and maintain all qualifications required in this RFQ/RFP:
- 2. Failure to meet required personnel standards and operating performance standards;
- 3. Failure to maintain appropriate and/or necessary personnel licenses and certifications:
- 4. Failure to meet all vehicle inspections and certifications which are needed to comply with federal, state, and/or local requirements;
- 5. Failure to keep and maintain all required insurance coverage; and/or

6. Failure to cure deficiencies within a reasonable amount of time as stated herein.

INSURANCE

All Vendors must provide evidence of insurance or insurability and a Workers' Compensation Certificate (see Attachments C and D).

GOVERNMENT VIOLATIONS

Vendor shall notify YES of all health and safety violations, OSHA violations, wage and hour violations, or labor violations assessed by any city, state, or federal government department or agency.

NON-COMPLIANCE NOTIFICATION

In the event a Vendor is determined by YES to have failed to perform services in accordance with the requirements listed herein, YES will forward a written notification specifying the violation or the area of non-compliance to the Vendor. The Vendor in non-compliance shall immediately remedy all violations as determined by YES. Any violations not so remedied shall be grounds for termination of the contract, in whole or in part.

OWNERSHIP

YES shall retain ownership rights to all materials or any other product produced in conjunction with the work described herein.

SPECIAL CONDITIONS AND PROJECT INFORMATION

YES Prep Public Schools is a free, open-enrollment public school system that currently serves 15,000 students across nineteen (19) schools in the Houston area. In August 2020, YES Prep will open 2 new elementary schools in the Houston area. YES Prep has been ranked as among the top 100 public high schools in the nation by Newsweek and U.S. News & World Report. Every year, 100 percent of YES Prep's graduating seniors have been accepted into four-year colleges, including Harvard, Yale, Columbia, Rice, and Stanford. YES Prep combines a highly successful 6th-12th grade model along with high standards for student achievement.

YES Prep Public Schools is seeking proposals for demolition and renovation services to be rendered at the West Campus. The work occurs in two (2) locations in the building.

- <u>First Floor:</u> YES Prep is looking to convert an existing area into an onsite
 medical clinic. The existing project area includes teachers lounge, large
 conference room, Nurse's office and large classroom totaling approx. 1700 sq. ft,
 Renovation of area calls for the demolition of existing elements and the addition
 of eight (8) rooms and an extension to the adjacent corridor.
- <u>Second Floor:</u> YES Prep is looking to convert three (3) existing and adjacent spaces into one classroom. Renovation of area calls for the demolition of partition walls and door openings the space will then be converted to one (1) classroom to be used for instructional use.

Please find an index of the construction documents as follows:

- CS100 Cover Sheet, Site Plan & Code Analysis
- ▶ D101 Demolition Plan
- ➤ A101 Floor Plans & Interior Elevations
- ➤ A201 Reflected Ceiling Plans
- ➤ A301 Schedule & Details
- ➤ M101 Mechanical Plan
- ➤ M201 Mechanical Schedules
- ➤ M301 Mechanical Specifications
- ➤ P101 Plumbing Plan
- ➤ P201 Plumbing Schedules
- ➤ E000 Electrical Notes
- ➤ E101 Lighting Plan
- ➤ E111 Power Plan
- ➤ E201 Electrical Rider Diagram
- ➤ E202 Electrical Schedules
- This will be an active campus. Students and staff will be on-site daily.
- Contractor is responsible for keeping corridors clear of debris and all construction related materials.
- Masks are required to be worn by all persons rendering work on campus.

- Work will be performed during school operating hours. Owner reserves right to dictate procedure of loud construction processes such as saw cutting.
- All work on the exterior can be performed during school hours with coordination done in advance with the Construction Manager or Construction Project Manager.
- Contractor is responsible for all drawings included with this RFP.
- Questions are due by 4PM, May 10th, 2021
- YES Prep holds the right to not approve or move forward with project.

CONTRACTOR TO PROVIDE THE FOLLOWING:

- Work-area Utilization Plan
- Contractor will provide port-a-can for work crews.
- Contractor will be responsible for workers remaining in appropriate areas while on campus. Anyone caught outside of approved work area will be removed from the campus and not allowed to return.
- All bids should be turn-key per scope and specs on construction documents.
- Contractor is responsible for trash removal from the building and property.
- Contractor is responsible to clean the work area each night to ensure the building is ready for school the next morning. This includes disinfecting door knobs touched, sweeping and mopping floors.
- Contractor will be required to coordinate with Owner contractor for data installation and pathways, as needed.

A schedule duration per MUST be included with RFP response.

Cost breakout as listed below is REQUIRED.

REQUIRED SUBMITTALS (Attachment A)

Submittal 1

Experience in Electrical

Vendor shall provide a statement of its qualifications to provide the specific materials and services requested herein.

Submittal 2

Staffing Plan

Vendor shall submit a staffing plan that provides the qualifications of your employees.

Submittal 3

References

Vendor shall supply a list of three (3) references for which Vendor has experience in the scope of work that the proposal is submitted for.

Submittal 4

Customer Feedback

Vendor shall provide a description of its formal customer feedback system, provide sample tools used to gather data, and describe how results were shared with customers and used to improve service.

All submittals must be included in the RFP package returned on May 14th, 2021 by 2:00 PM. It is recommended that each submittal be typed on a separate sheet of paper with the heading "Response to Submittal #___ for YES RFP" at the top and the name of the Vendor underneath.

QUESTIONNAIRE (Attachment B)

All Vendor must provide answers to the following questions, typed on 8 $\frac{1}{2}$ x 11 inch paper, in the order below. Attachments to the questionnaire answers should reference the question number.

- 1. Provide the full name and address of your organization.
- 2. Provide contact person(s) for information concerning this offer: name, title, phone, fax, email address.
- 3. What form of business is your organization (e.g. proprietorship, partnership, corporation) and is your organization local only, statewide, or nationwide?
- 4. List all the names under which this Vendor has operated in the last ten (10) years in the State of Texas.
- 5. Provide a copy of your insurance coverage.
- 6. Multi-part question:
 - a. Do you currently have any investigations pending by or on behalf of a government entity or other licensing entity?
 - b. Have you had investigations by or on behalf of a government entity or other licensing entity in the past?
 - 1. If the answer to either question is yes, please provide copies of relevant paperwork.
- 7. Do you have any relevant experience or projects in the past with education institutions? If so, please provide a high-level overview of these projects.

WORKERS' COMPENSATION CERTIFICATE (Attachment C)

YES requires Vendor to provide workers' compensation as per state law requirements. The Vendor shall sign and submit the following certificate with the written proposal:

- Minimum Workers' Compensation and Employer's Liability Limits
 - o Each Accident \$1,000,000
 - o Disease Each Employee \$1,000,000
 - o Disease Policy Limit \$1,000,000

Vendor Name	
Signature of Authorized Agent	
Date Signed	

Note: Vendor may attach current certificate of coverage with a signed statement that if awarded the contract, they will obtain said aforementioned coverage if the current coverage does not meet the stated minimum requirements.

INSURANCE COVERAGE REQUIREMENTS (Attachment D)

General and Excess Liability Minimum Coverages

• General Liability: \$2,000,000

Umbrella Liability: \$1,000,000	
Vendor Name	-
Signature of Authorized Agent	-
Date Signed	-

YES will be named as Additional Insured on the Certificate of Insurance if the Vendor is awarded a contract.

Proposed Exceptions, Alterations, Additions, or Modifications to RFP (Attachment E)

Vendor should submit as Attachment E, any and all proposed exceptions, alterations, additions, or modifications to the FY21_YES Prep RFP for West Campus Legacy Clinic

SCORING RUBRIC (ATTACHMENT F)

YES will utilize the following RFP Evaluation Rubric for evaluation of all YES Prep FY21 West Campus Legacy Clinic

1. Charges/Cost to YES PREP: 40 Points.

- a. Favorable = 40 Points. Unfavorable = 0 points.
- b. Evaluate the Overall Value of proposed materials and services to be provided.

2. Technical and Education Experience: 15 Points.

- a. Favorable = 15 Points. Unfavorable = 0 points.
- b. Proposal demonstrates the Vendor's ability to deliver quality services to schools.
- c. Includes references, Vendor staff, and/or Vendor's or certifications, qualifications, experience, expertise, and resumes.

3. Proposed Operational Delivery: 20 Points.

- a. Favorable = 20 Points. Unfavorable = 0 points.
- b. Proposal defines services and scope in enough detail that YES can confidently determine that the proposed services will be met.

4. Project Understanding and Methodology: 25 Points.

- a. Favorable = 25 Points. Unfavorable = 0 points.
- b. Proposal addresses the project in terms of the scope of work and substantive issues essential to proper service and care of YES facilities. Proposal includes a detailed description of services to be provided and any constraints as to procedure, time, personnel, or equipment that needs to be communicated to YES for use during contract negotiations.

END OF YES RFP PACKAGE FOR West Campus Legacy Clinic

YES PREP PUBLIC SCHOOLS WEST CAMPUS LEGACY CLINIC

10535 HARWIN STREET - HOUSTON, TX. 77036

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A301 SCHEDULES AND DETAILS

PLUMBING

P101 PLUMBING PLAN P201 PLUMBING SCHEDULES

ELECTRICAL

E101 LIGHTING PLAN E111 POWER PLAN E201 ELECTRICAL RISER DIAGRAM E202 ELECTRICAL SCHEDULES

PROJECT DESCRIPTION AND CODE INFORMATION

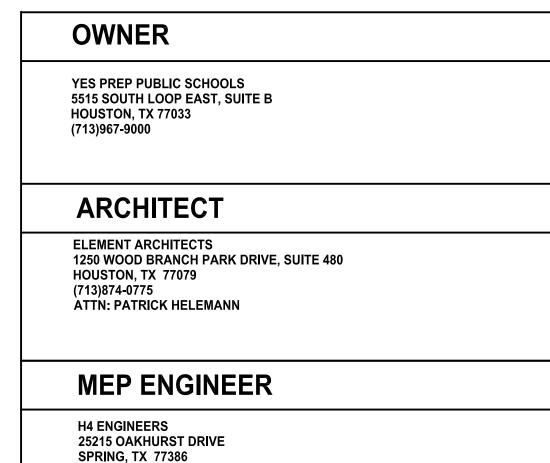
SUMMARY OF IMPROVEMENTS:
1ST FLOOR: DEMO CONFERENCE AND CLASSROOM, ADD IN NEW OFFICES 2ND FLOOR: DEMO EXISTNG OFFICES - MAKE LARGE CLASSROOM

10535 HARWIN ST., HOUSTON, TX 77036

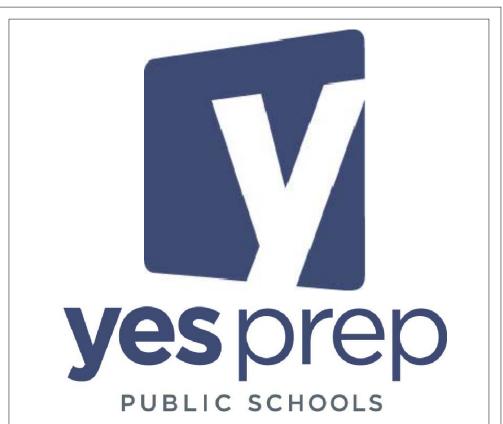
2012 International Building Code with City of Houston Amendments 2012 International Fire Code 2015 International Energy Conservation Code

2012 Uniform Plumbing Code 2012 Uniform Mechanical Code 2020 National Electrical Code 2012 Texas Accessibility Standards

CONSTRUCTION TYPE: II-B, 100% FULLY SPRINKLERED



ATTN: SHERIE HENSLEY





No.	Description	Date
	ISSUED FOR PRICING	04/20/2

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

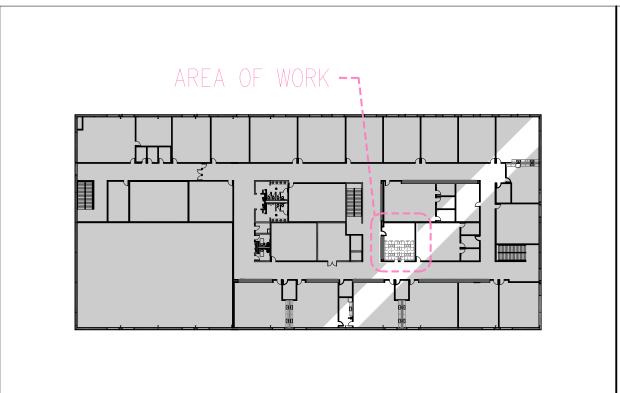
10535 HARWIN DRIVE HOUSTON, TEXAS 77036

COVER SHEET

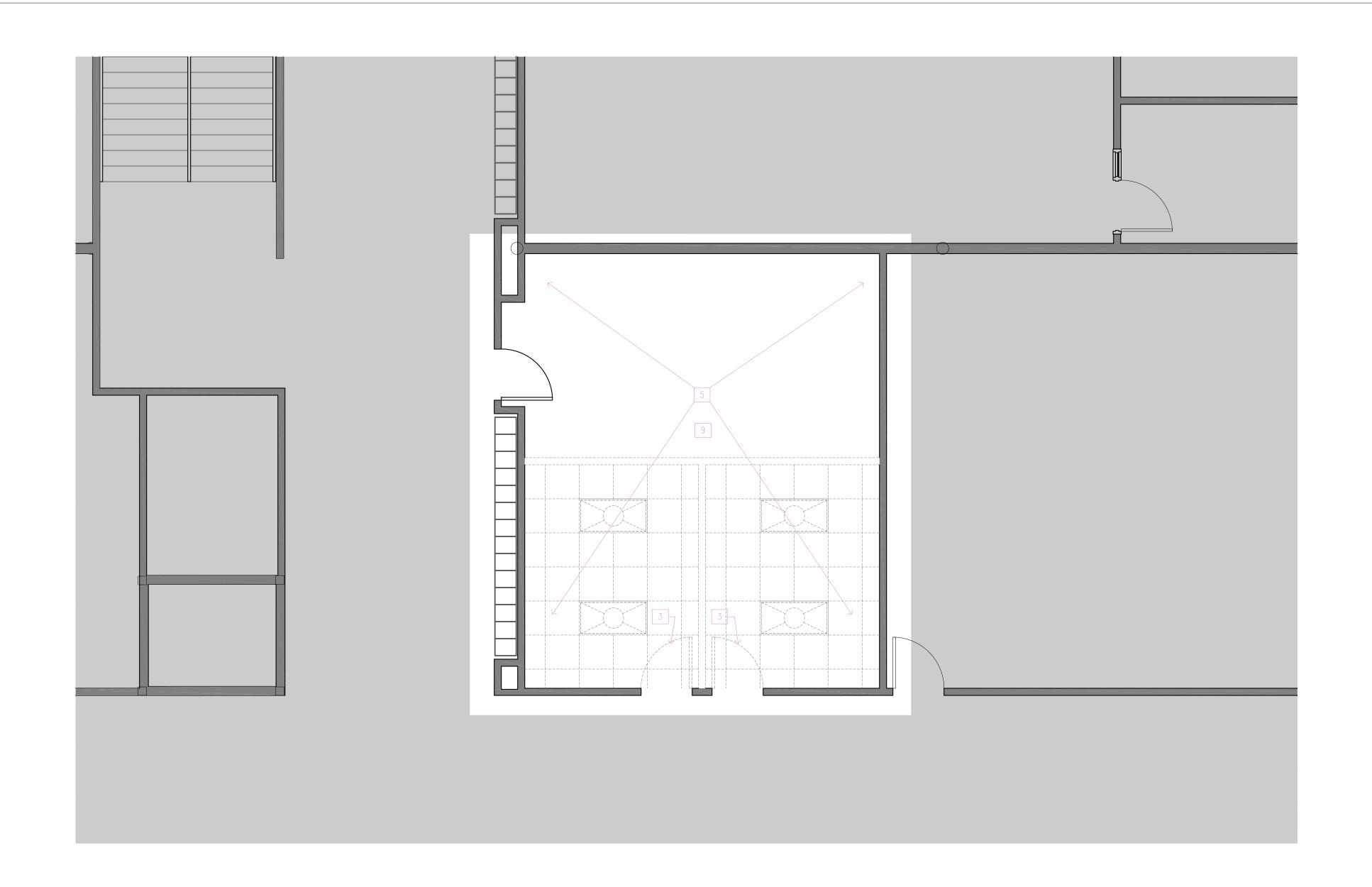
21034 Project Number 04/20/21 Drawn By

Checked By

CS100



AREA OF WORK---,



- OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR DEMOLITION OR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIONS WITH THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH
- PERFORM DEMOLITION WORK WITHIN THE PROPERTY LINE AND IN THE
- WHERE EXISTING CONCRETE PAVING IS TO BE REMOVED SAW CUT EXISTING WITH THE PAVEMENT TO REMAIN. BEND STEEL OUT OF THE WAY. AND
- CONDUCTED BY A LICENSED ASBESTOS CONSULTANT.

- . ALL DEMOLITION WORK AND TEMPORARY CONSTRUCTION SHALL BE DONE IN
- A RESULT OF PREVIOUS OR NEW DEMO WORK TO BRING SLAB INTO
- 2. WHERE EXISTING FLOORS ARE REQUIRED TO BE SAWCUT FOR NEW TRENCHES

REMOVE EXISTING 4' TACK BOARD AND RETAIN FOR RE-INSTALLATION

CREATE NEW OPENING IN EXISTING WALL AND PREP. FOR FUTURE DOOR

EXISTING CEILING GRID THROUGHOUT NEW SPACE. REPOSITION EXISTING

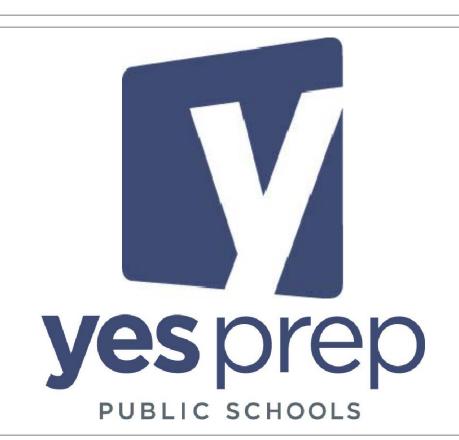
NEW TILE INSTALLATION IN ALL ROOMS EXCEPT EXISTING TEACHERS'

EXISTING DOOR FRAME TO REMAIN. RE-USE DOOR PANEL ON 2ND

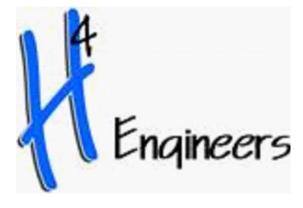
EXISTING WALL TO REMAIN

CIIIII EXISTING WALL TO BE REMOVED

LEVEL CLASSROOM









No.	Description	Date
	ISSUED FOR PRICING	04/20/2

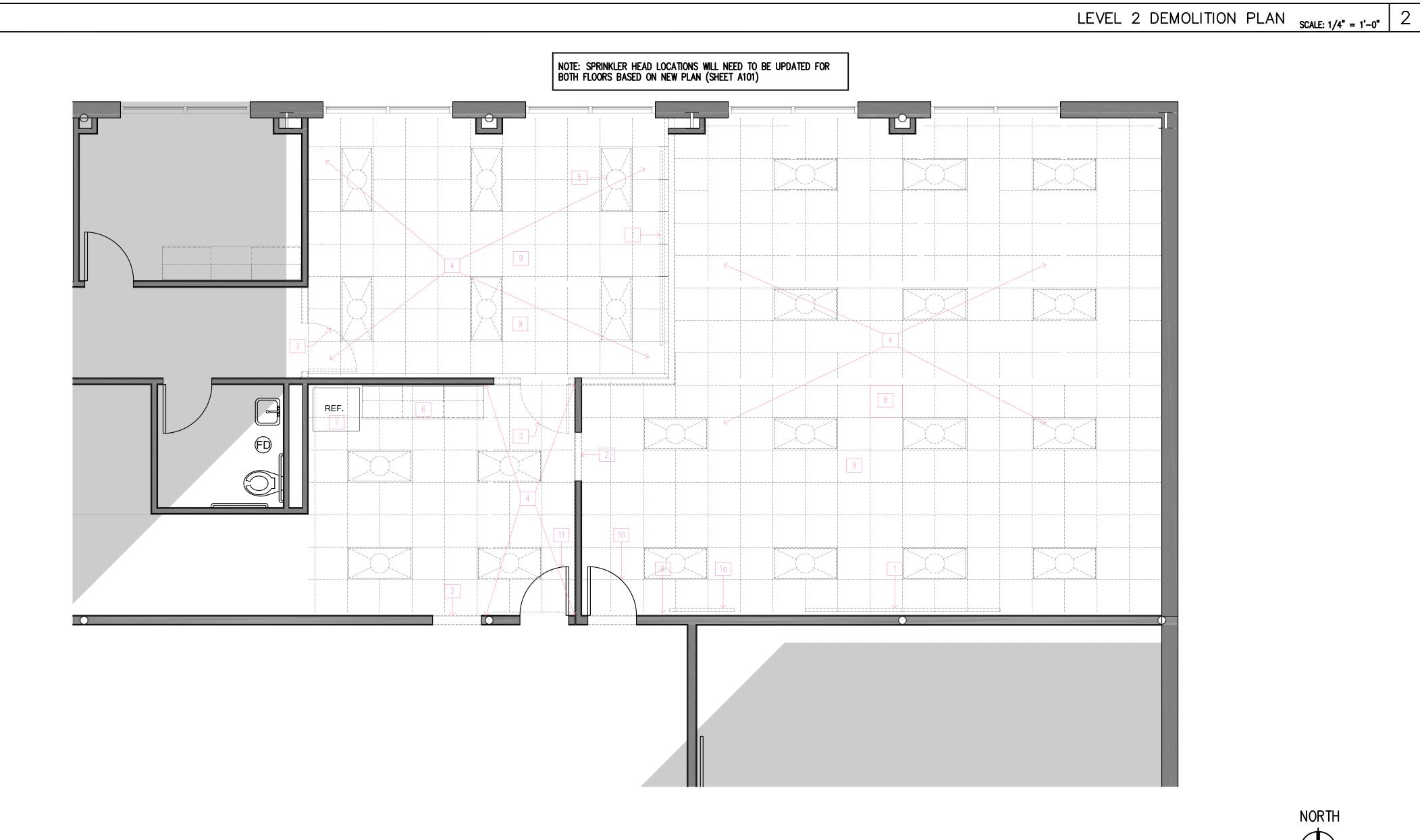
YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

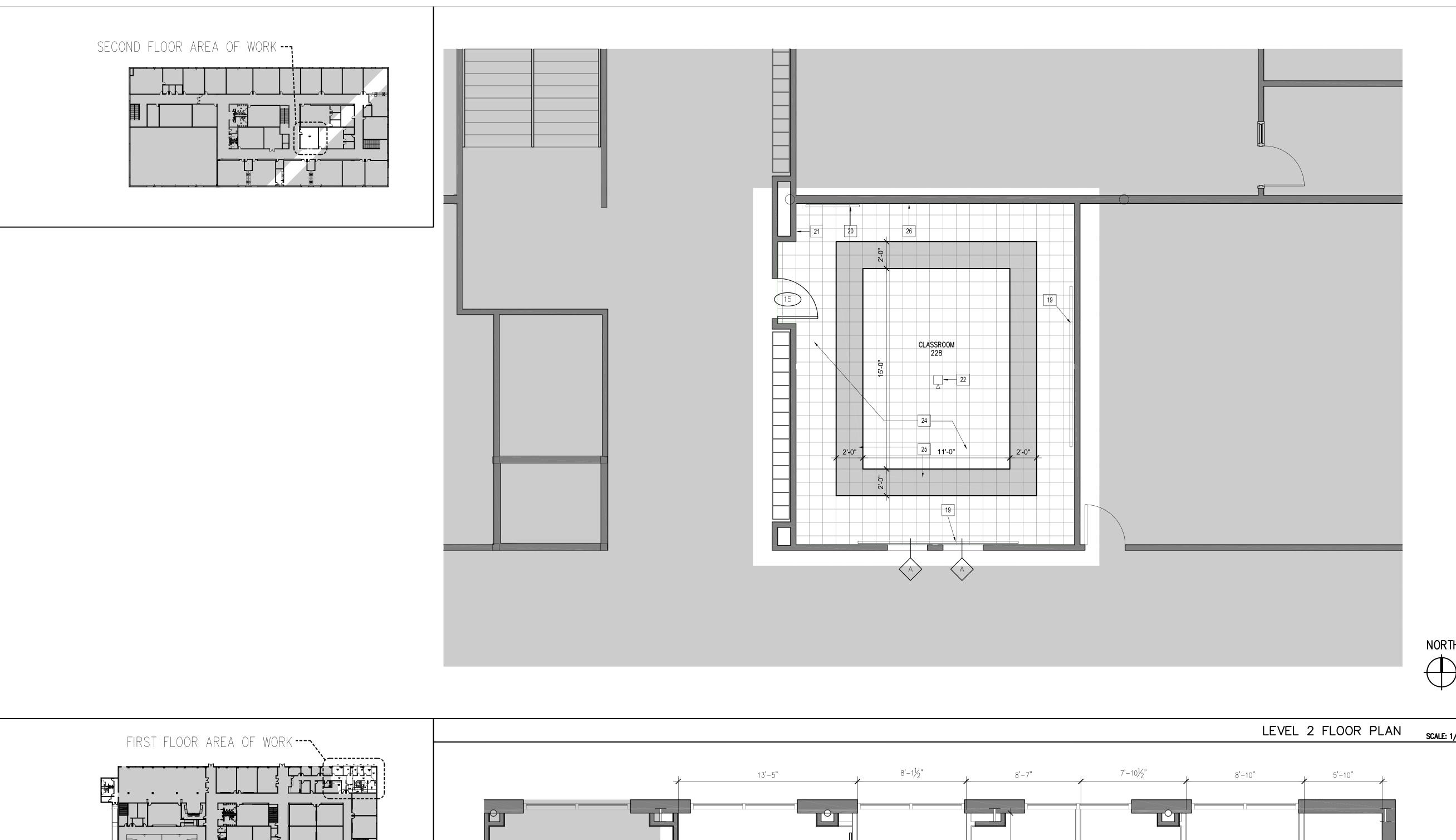
10535 HARWIN DRIVE HOUSTON, TEXAS 77036

DEMOLITION PLAN

D101	
Checked By	
Drawn By	
Date	04/20/
Project Number	210



LEVEL 1 DEMOLITION PLAN SCALE: 1/4" = 1'-0" 1



DALTILE MODERN TEXTILE;
 ACTION ORANGE VL88 CUT TO

- DALTILE MEDIUM GREY AC07 UNPOLISHED - CUT TO

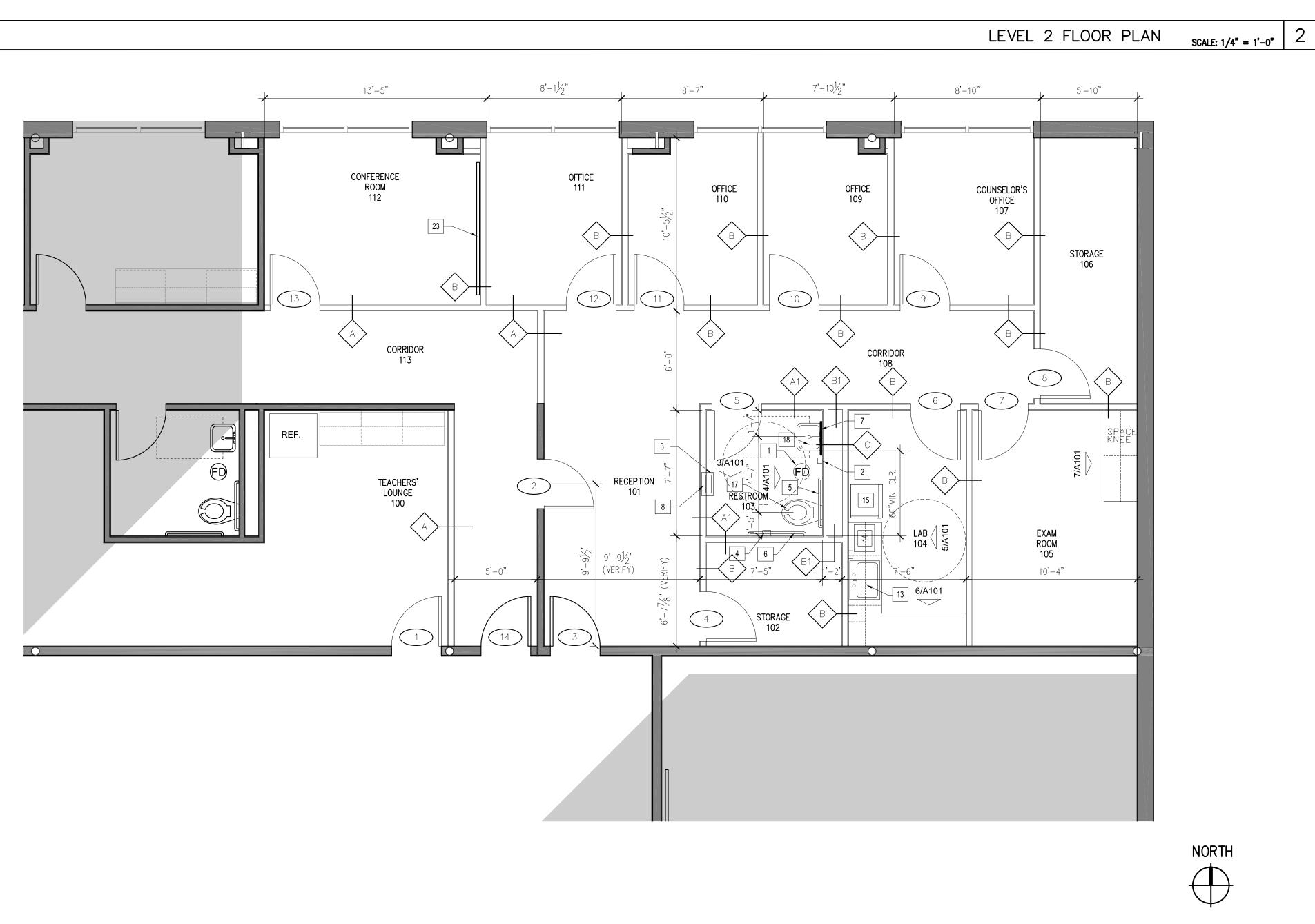
- DALTILE MODERN TEXTILE;

BEIGE MT51 12X24 (FIELD) INSULATE EXPOSED

3'-6"

DALTILE GREY FOG PN98
UNPOLISHED - CUT TO
6X24

3 RESTROOM ELEVATION EDGE OF
TOILET



GENERAL NOTES

1. CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO INSTALLATION.

2. PROVIDE HOT & COLD WATER TO ALL SINKS & LAVATORIES. 3. ALL DIMENSIONS ARE TO WALL FINISH UNLESS NOTED OTHERWISE, DASH-DOT

DIMENSION LINES INDICATE A DIMENSION TO CENTERLINE. 4. CONTRACTORS TO VISIT SITE & VERIFY EXISTING CONDITIONS PRIOR TO

CONSTRUCTION. 5. SEE SCHEDULES ON SHEET A301. 6. ALL INTERIOR DOOR HINGE SIDE JAMBS SHALL BE 4" FROM EDGE OF WALL (IF NEW

DOOR OPENING) 7. USE 5/8" GYPSUM BOARD ON ALL PARTITIONS. USE MOISTURE RESISTANT GYPSUM BOARD IN RESTROOM

8. INSTALL FIRE RATED BLOCKING AS REQUIRED FOR MOUNTING OF WALL

EQUIPMENT AND ACCESSORIES. 9. VERIFY ANY EQUIPMENT ROUGH-INS AND MOUNTING REQUIREMENTS WITH

). ALL AREAS SHALL COMPLY WITH ADA AND TAS (AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS.):

A. CLEAR DOOR OPENING WIDTH SHALL BE 2'-8" (USE 3'-0"

B. USE COMMERCIAL GRADE HARDWARE WITH LEVER-TYPE HANDLE AT 36" A.F.F. (VERIFY WITH EXISTING) C. DOOR OPENING FORCE SHALL NOT EXCEED 5 POUNDS.

D. THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHTS, UNLESS NOTED E. DOOR SIGNAGE SHALL COMPLY WITH ADA SECTION 4.3.

1. INSULATION IN BUILDING SHALL HAVE A FLAME SPREAD NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING NOT MORE THAN 450.

KEY NOTES

NEW FLOOR DRAIN - RE: PLUMBING DRAWINGS

SOAP DISPENSER, PROVIDED BY OWNER. INSTALL AT 42" A.F.F. TO DISPENSER HT.

PAPER TOWEL DISPENSER, PROVIDED BY OWNER. INSTALL ABOVE SEMI-RECESSED TRASH CAN

TOILET TISSUE DISPENSER, PROVIDED BY OWNER. INSTALL ON SIDE WALL 7"-10" $^{
floor}$ In Front of Toilet.

NEW 36" GRAB BAR, BOBRICK B-5806 SERIES, SATIN FINISH

NEW 42" GRAB BAR, BOBRICK B-5806 SERIES, SATIN FINISH 24"W X 36"H MIRROR - MOUNT BOTTOM @ 40" A.F.F. MAX.

8 TRASH RECEPTACLE, BRADLEY MODEL 344-10 SEMI-RECESSED, 22 GA. STAINLESS

9 2X2 CERAMIC TILE, COLOR A (FIELD COLOR)

10 2X2 CERAMIC TILE, COLOR B (ACCENT COLOR)

PAINTED GYP. BD. WRAP / INSULATE EXPOSED PIPES UNDER SINK

SINGLE BOWL STAINLESS STEEL SINK, RE: PLUMBING DRAWINGS

14 COUNTERTOP REFRIGERATOR PROVIDED BY OWNER. PROVIDE POWER

FREEZER - 2'W X 2'D X 4'H PROVIDED BY OWNER. PROVIDE POWER

16 SCHEDULED WALL BASE

NEW WALL-MOUNTED WATER CLOSET - RE: PLUMBING DRAWINGS

NEW WALL-MOUNTED LAVATORY - RE: PLUMBING DRAWINGS

INSTALL RELOCATED MARKER BD. (BTM. OF BOARD @ 3'-0" A.F.F.). PROVIDE BLOCKING IN WALL AS REQUIRED FOR PROPER INSTALLATION

INSTALL RELOCATED TACK BD. (BTM. OF BOARD @ 3'-0" A.F.F.). PROVIDE BLOCKING IN WALL AS REQUIRED FOR PROPER INSTALLATION INSTALL RELOCATED PA SYSTEM. MATCH MOUNTING HEIGHT OF OTHER EXISTING CLASSROOMS. VERIFY LOCATION OF PA SYSTEM WITH OWNER PRIOR TO INSTALLATION

INSTALL RELOCATED CEILING MOUNTED PROJECTOR. PROVIDE NEW POWER TO PROJECTOR. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION

NEW 8FT. MARKER BD. IN CONFERENCE ROOM. (BTM. OF BOARD @ 3'-0" A.F.F.).
PROVIDE BLOCKING IN WALL AS REQUIRED FOR PROPER INSTALLATION.
CLARIDGE SERIES 1, PORCELAIN ENAMEL PANEL TYPE LCS MARKERBOARD WITH

NEW VCT FLOORING AND BASE, REFER TO FINISH SCHEDULE ON SHEET A301 FOR TILE INFORMATION (EACH SQUARE ON PLAN REPRESENTS ONE 12"x12" TILE

NEW VCT ACCENT TILE, REFER TO FINISH SCHEDULE ON SHEET A301 FOR TILE INFORMATION (EACH SQUARE ON PLAN REPRESENTS ONE 12"x12" TILE

26 ACCENT WALL - REFER TO FINISH SCHEDULE FOR COLOR SELECTION

LEGEND

1 DOOR IDENTIFICATION, RE: SCHEDULE SHEET A301

PARTITION TYPE, RE: SHEET A301

1/A101 INTERIOR ELEVATION MARK - RE: SHEET A101

NEW INTERIOR PARTITION

EXISTING WALL TO REMAIN

101 ROOM NUMBER

YES PREP SCHOOL

Date

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

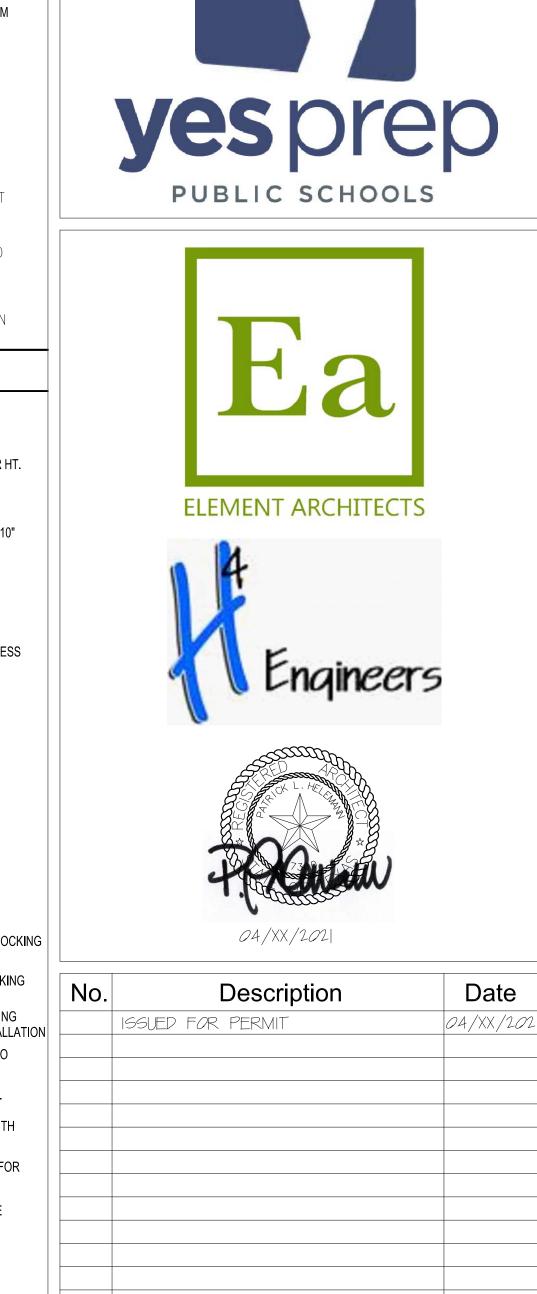
NEW FLOOR PLAN

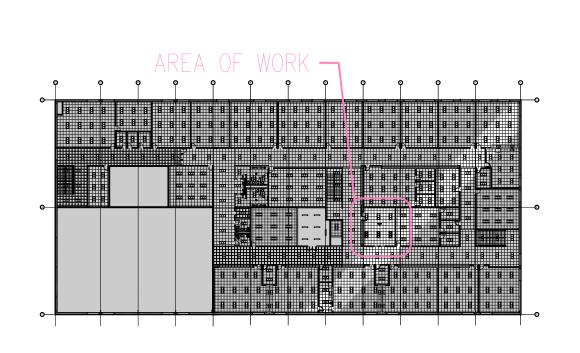
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	74
Checked By	
Drawn By	
Date	03/24/2
Project Number	2103

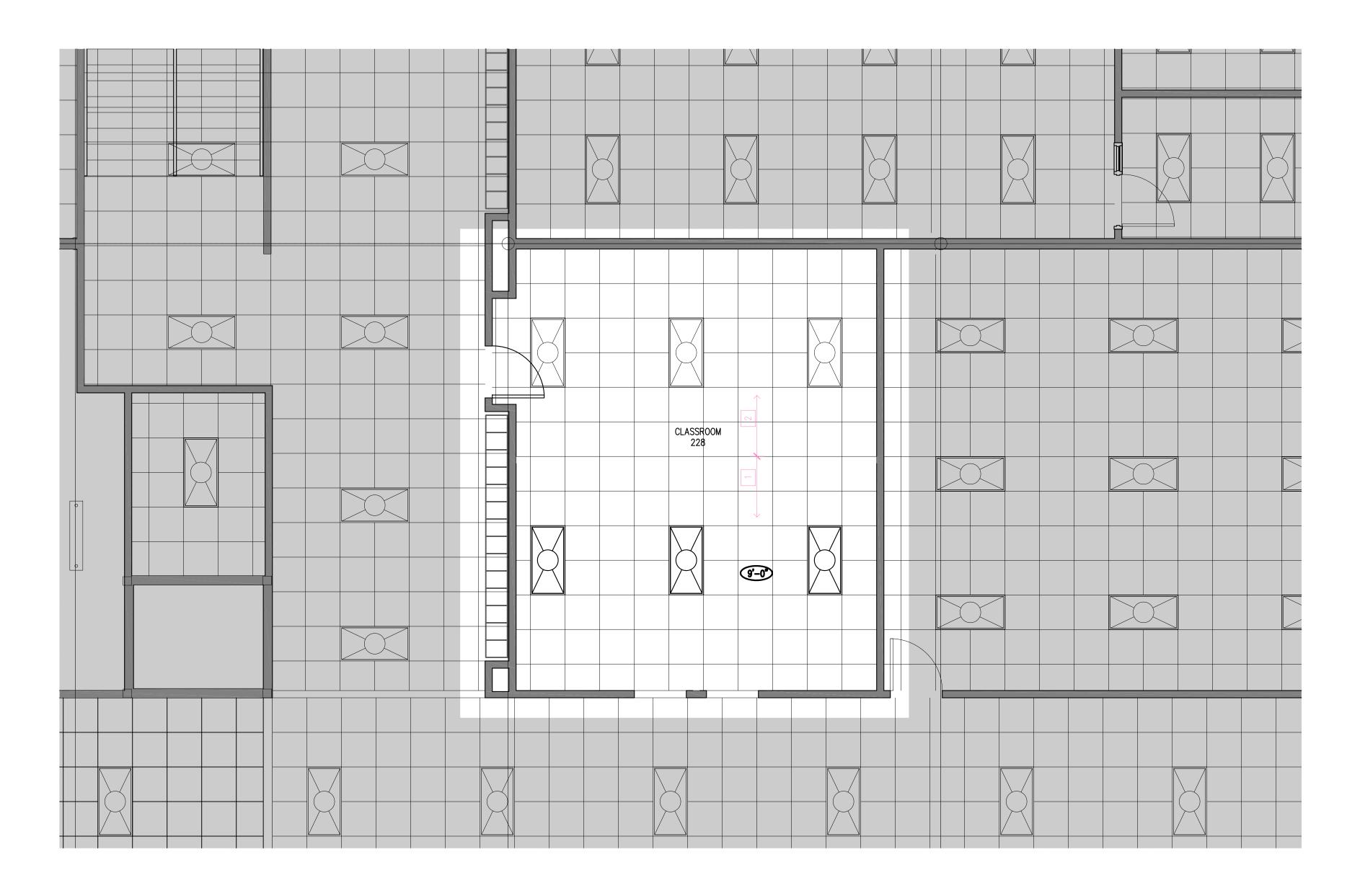
A101

SCALE: 1/4" = 1'-0"

LEVEL 1 FLOOR PLAN

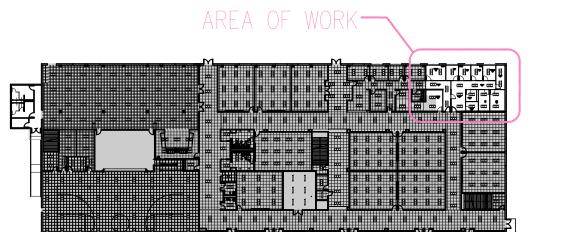


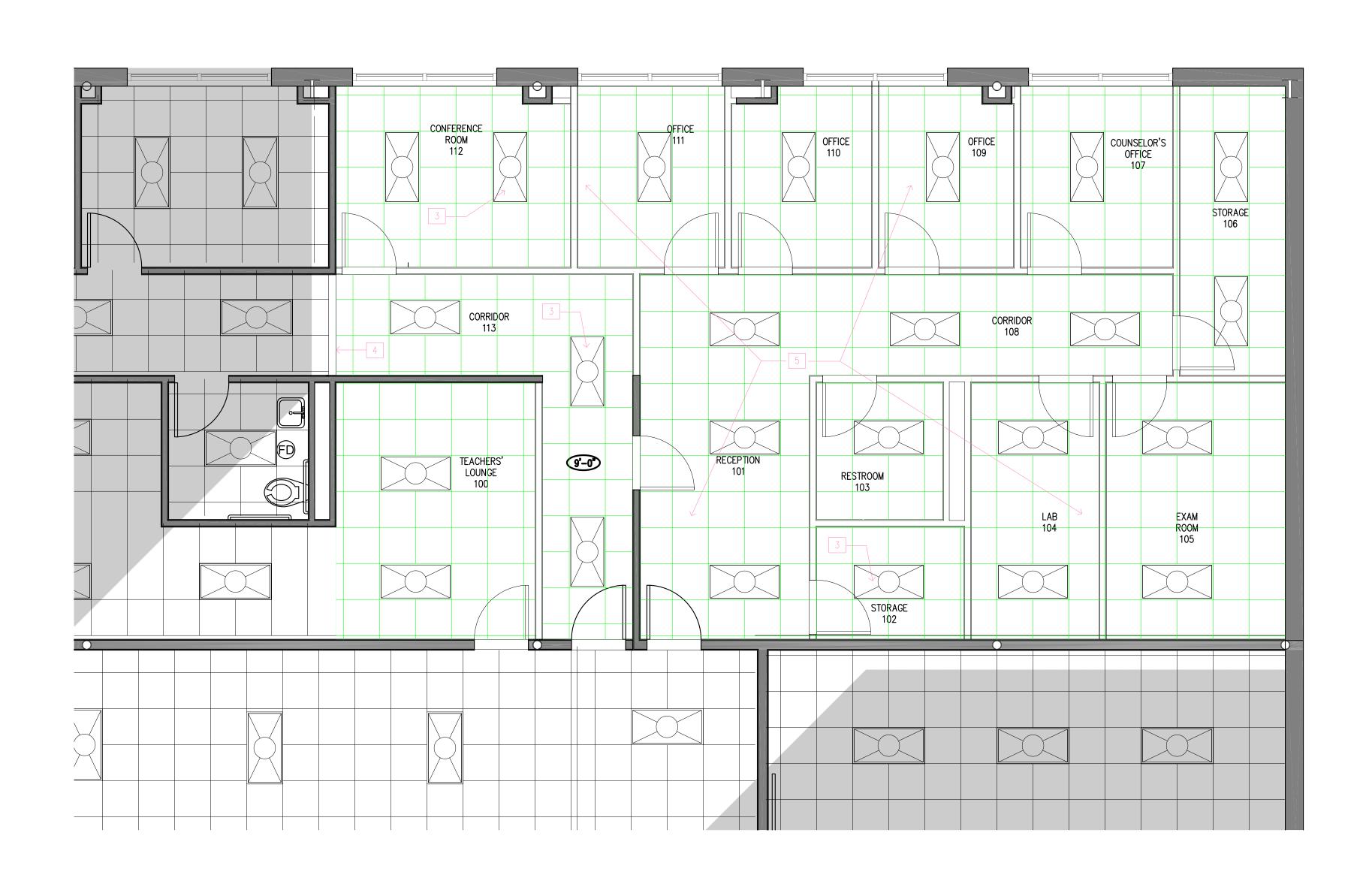






LEVEL 2 REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" 2







LEVEL 1 REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" 1

GENERAL NOTES

- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY DISCREPANCIES THE ARCHITECT PRIOR TO INSTALLATION.
 PROVIDE HOT & COLD WATER TO ALL SINKS & LAVATORIES.
- . PROVIDE HOT & COLD WATER TO ALL SINKS & LAVATORIES.

 . ALL DIMENSIONS ARE TO WALL FINISH UNLESS NOTED OTHERWISE.

 DASH—DOT DIMENSION LINES INDICATE A DIMENSION TO CENTERLINE.

 . CONTRACTORS TO VISIT SITE & VERIFY EXISTING CONDITIONS PRIOR TO
- 6. ALL INTERIOR DOOR HINGE SIDE JAMBS SHALL BE 4" FROM EDGE OF WALL (IF NEW DOOR OPENING)

 7. USE 5/8" GYPSUM BOARD ON ALL PARTITIONS. USE MOISTURE RESISTANT
- INSTALL FIRE RATED BLOCKING AS REQUIRED FOR MOUNTING OF WALL EQUIPMENT AND ACCESSORIES.

 VERIFY ANY EQUIPMENT ROUGH—INS AND MOUNTING REQUIREMENTS WITH
- ALL AREAS SHALL COMPLY WITH ADA AND TAS (AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS.):

 A. CLEAR DOOR OPENING WIDTH SHALL BE 2'-8" (USE 3'-0"
- DOOR)

 B. USE COMMERCIAL GRADE HARDWARE WITH LEVER-TYPE HANDLE AT 36" A.F.F. (VERIFY WITH EXISTING)
- D. THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHTS, UNLESS NOTED OTHERWISEE. DOOR SIGNAGE SHALL COMPLY WITH ADA SECTION 4.3.
- E. DOOR SIGNAGE SHALL COMPLY WITH ADA SECTION 4.3.

 11. INSULATION IN BUILDING SHALL HAVE A FLAME SPREAD NOT MORE THAT 25 AND A SMOKE DEVELOPMENT RATING NOT MORE THAN 450.

KEY NOTES

- 1 NEW 2'X2' LAY-IN CELING GRID AND TILES. MATCH EXISTING
- EXISTING 2'X2' LAY-IN CELING GRID AND TILES
- A PAINTED GYP. BD. FURRDOWN @ 8'-11" A.F.F.
- EXISTING CEILING GRID. MODIFY GRID AS NECESSARY AT NEW PARTITIONS THAT GO TO DECK (TYPE A/A1/C) AND WHERE WALLS WERE REMOVED. LIGHT FIXTURES ARE EXISTING AND RE-POSITIONED IN NEW SPACE AS SHOWN ON NEW REFLECTED CEILING PLAN A201.

 EXISTING CEILING TILES ARE ARMSTRONG CORTEGA SQUARE LAY-IN #770 2'x2'x\frac{8}{2}" WITH PRECLUDE XL \frac{15}{16}" EXPOSED TEE CEILING GRID SYSTEM VERIFY IN FIFLD

LEGEND







(XX)

NEW INTERIOR FULL HEIGHT PARTITION





No.	Description	Date	
1551	JED FOR PRIGING	04/20/	

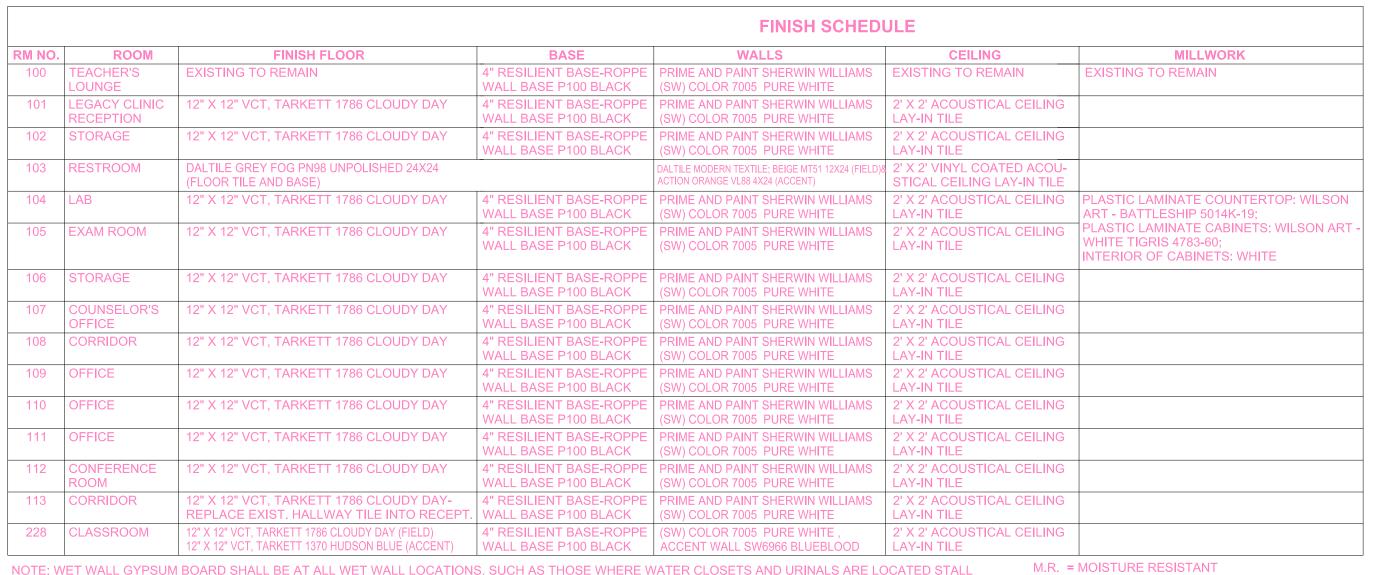
YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

REFLECTED CEILING PLAN

Project Number	21034
Date	04/20/2
Drawn By	
Checked By	
A20	01
Scale	



INTERIOR WALL AND FINISH REQUIREMENTS TABLE 803.9		INTERIOR FLOOR FINISH REQUIREMENT SECTION 804		
	GROUP E SPRINKLERED	CORRIDORS	ROOMS AND ENCLOSED SPACES	FLOOR FINISH MATERIALS TO BE OF CLASS I OR II AND CLASSIFIED IN ACCORDANCE WITH NFPA 253 AND SHALL COMPLY WITH SECTION 804.2 THROUGH 804.4.2 OF THE
	REQUIRED	CLASS C FLAME SPREAD: 76-200 SMOKE DEVELOPED: 0-450	CLASS C FLAME SPREAD: 76-200 SMOKE DEVELOPED: 0-450	2012 IBC W/ HOUSTON AMENDMENTS. NOTE: INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS IN ENCLOSURES FOR STAIRWAYS AND RAMPS, EXIT PASSAGEWAYS,
	PROVIDED	WALLS: CLASS A FLAME SPREAD: 15	WALLS: CLASS A FLAME SPREAD: 15	CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM CORRIDORS BY PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE

SMOKE DEVELOPED: 0

CEILINGS: CLASS A

SMOKE DEVELOPED:10

FLAME SPREAD: 25

BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE PER 2012 IBC SECTION 1210.2.2

SMOKE DEVELOPED: 0

CEILINGS: CLASS A

FLAME SPREAD: 25

SMOKE DEVELOPED:10

MILLWORK	MARK	ROOM		
REMAIN	MARKIX			
	1	TEACHER'S LOUNGE		
	2	RECEPTION 101		
	3	RECEPTION 101		
	4	STORAGE 102		
	5	RESTROOM 103		
NATE COUNTERTOP: WILSON	6	LAB 104		
SHIP 5014K-19;	7	EXAM ROOM 105		
NATE CABINETS: WILSON ART -	8	STORAGE 106		
4783-60; CABINETS: WHITE	9	COUNSELOR'S OFFICE		
STEINETS: WHITE	10	OFFICE 109		
	11	OFFICE 110		
	12	OFFICE 111		
	13	CONF. ROOM 112		
	14	CORRIDOR 113		
	15	CLASSROOM 228		
	HARDWA	ARE SET #1 (STORAG		
	3 HINGES 1 STOREROO 1 STOP	TA2714 4 5.0 X 4.5 N 9K3-7D15D S3 PATE 409/441H AS REQU		
	1 1 4 0 5 4 4 0	51/ 5 6 6 5 / 5 5 1 / 5 1		

GWB = GYPSUM WALL BOARD

CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX.

NOT LESS THAN CLASS II IN GROUP E.

1					
11	11 OFFICE 110		Α	3' - 0"	7' - 0"
12 OFFICE 111		2	Α	3' - 0"	7' - 0"
13	13 CONF. ROOM 112		А	3' - 0"	7' - 0"
14	CORRIDOR 113		Α	3' - 0"	7' - 0"
15	CLASSROOM 228	5	Α	3' - 0"	7' - 0"
HARDW 3 HINGES	ARE SET #1 (STOR/	,	652	MC	
1 STORERO	1 STOREROOM 9K3-7D15D S3 PATD		626	BE	
1 STOP 1 SEALS			626 ER	RO	

SEALS	BY DOOR/FRAME MANUFACTURER		
HARDWARE SET	#2 (RECEPTION, LAB, OF	FICE	≣)
HINGES OFFICE CLOSER STOP SEALS	TA2714 4 4.5 X 4.5 NRP 9K3-7AB15D S3 PATD 351 O/P9 TB 409/441H AS REQUIRED BY DOOR/FRAME MANUFACTURER	652 626 689 626	BE SA
HARDWARE SET	#3 (RESTROOM)		
	TA2714 4 4.5 X 4.5 NRP 9K3-0L15D S3 PATD D292 409/441H AS REQUIRED BY DOOR/FRAME MANUFACTURER	652 626 626 626	YA

HARDWARE SET #4 (EXAM ROOM, CONFERENCE ROOM)

BY DOOR/FRAME MANUFACTURER

TA2714 4 4.5 X 4.5 NRP

409/441H AS REQUIRED

9K3-0N15D S3 PATD

HARDWARE SET #5 (CLASSROOM)					
3 HINGES	TA2714 4 5.0 X 4.5 NRP	652	MC		
1 LOCKSET	9K3-7IN15D S3 PATD CORMAX PATENTED KEYING S3	626	BE		
1 CONSTRUCTION CORE	1CC7A2	GRN	BE		
1 WALL BUMPER	409	630	RO		

HARDWARE NOTE: PLEASE VERIFY WITH SCHOOL AND EXISTING CAMPUS

HARDWARE TO MAKE SURE NEW HARDWARE MATCHES EXISTING

REMARKS

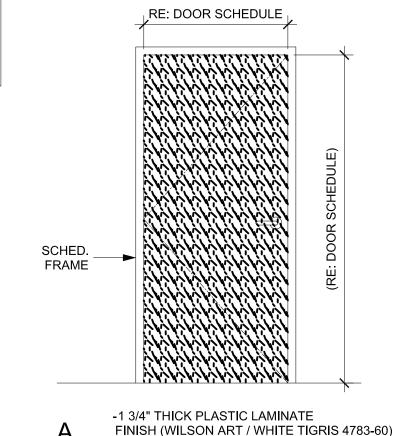
EXITING DOOR TO REMAIN, REPLACE HARDWARE WITH OFFICE FUNCTION LOCKSET

EXITING DOOR/FRAME AND HARDWARE, RELOCATED FROM CONFERENCE ROOM

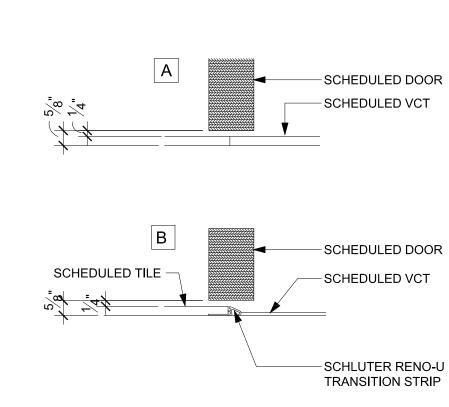
EXITING DOOR/FRAME, RELOCATED FROM TEACHER'S LOUNGE, REPLACE LOCKSET

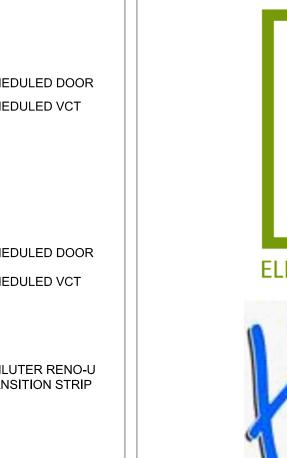
EXISTING FRAME, RE-USE EXISTING DOOR PANEL FROM FIRST FLOOR CLASSROOM

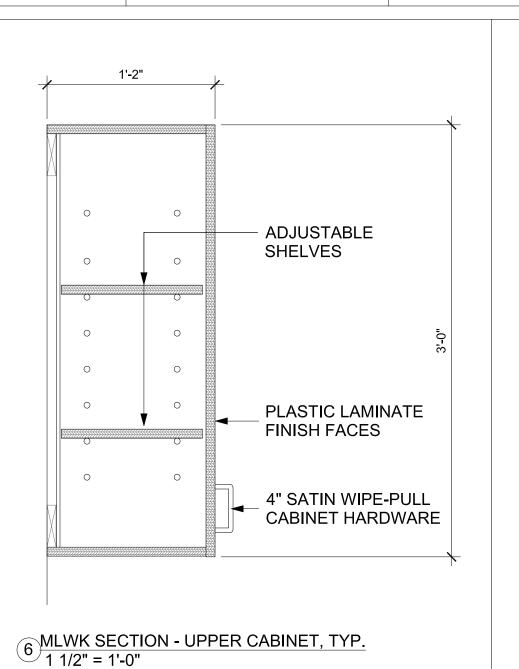
EXITING DOOR/FRAME AND HARDWARE TO REMAIN

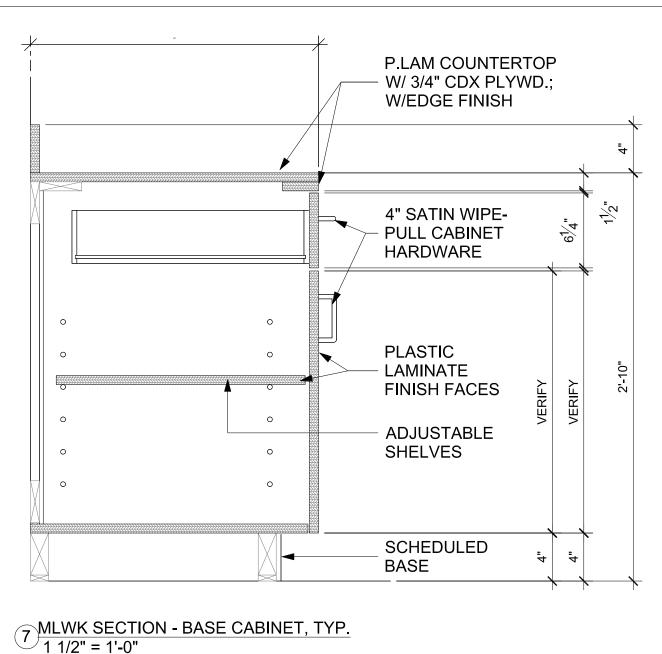


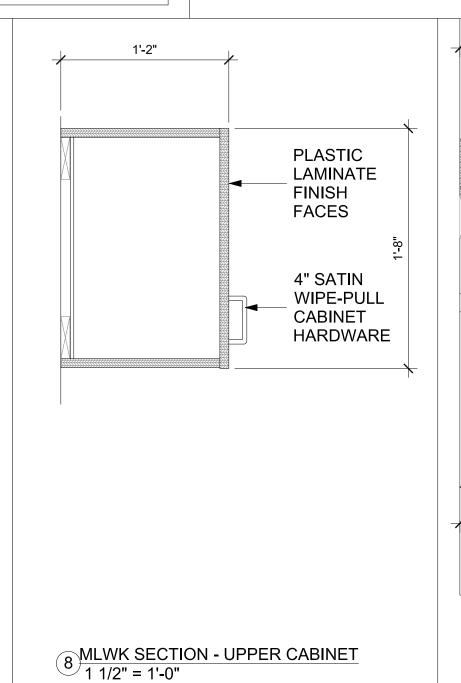
CLAD SOLID CORE FLUSH WOOD DOOR.









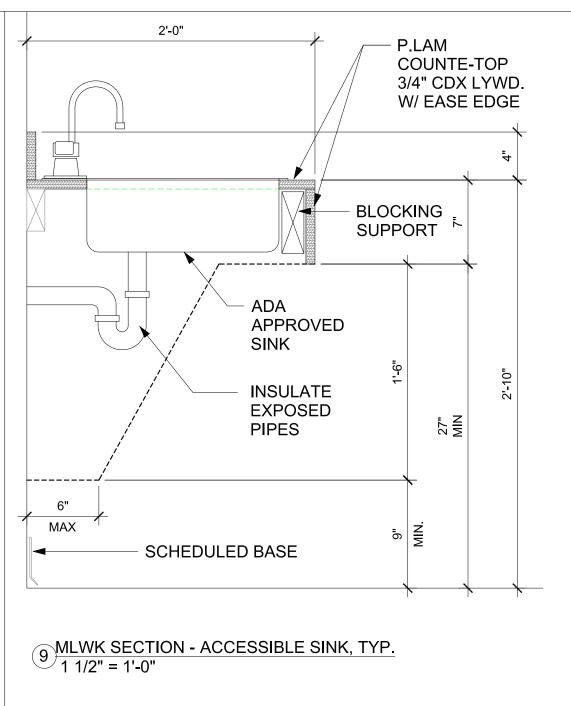


3 HINGES

1 PASSAGE

1 STOP

1 SEALS



DOOR SCHEDULE

ALUM

ALUM

ALUM

ALUM

ALUM

ALUM

ALUM

ALUM

ALUM

PRIOR TO ORDERING.

HRESHOLD

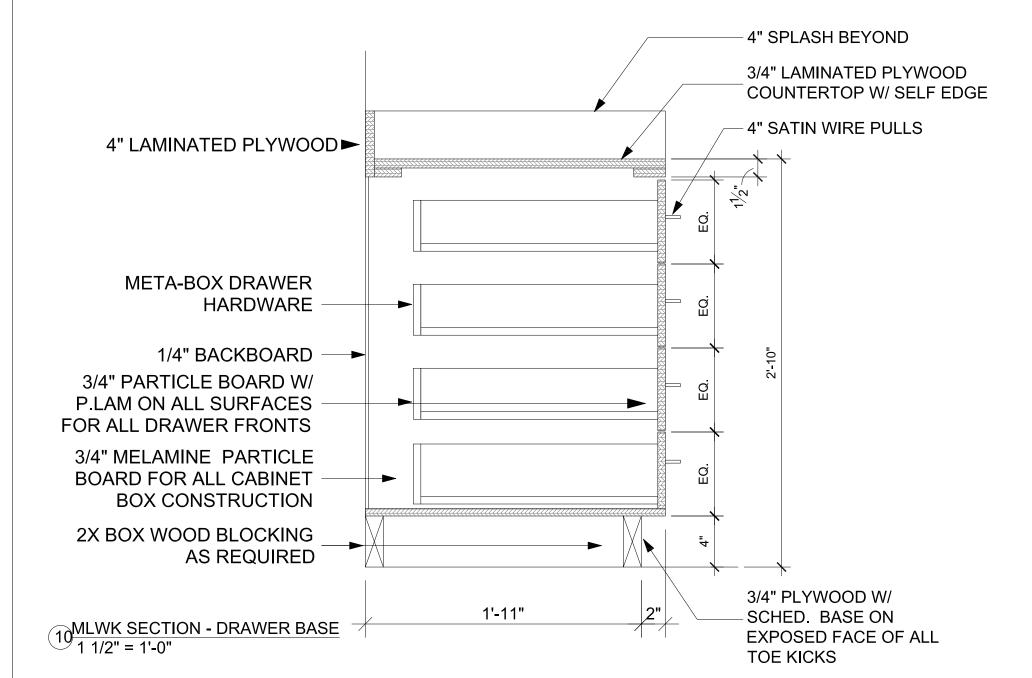
HARDWARE
SETDOOR
ELEV.DOOR
WIDTHFRAME
HT.MATERIAL

2 A 3'-0" 7'-0

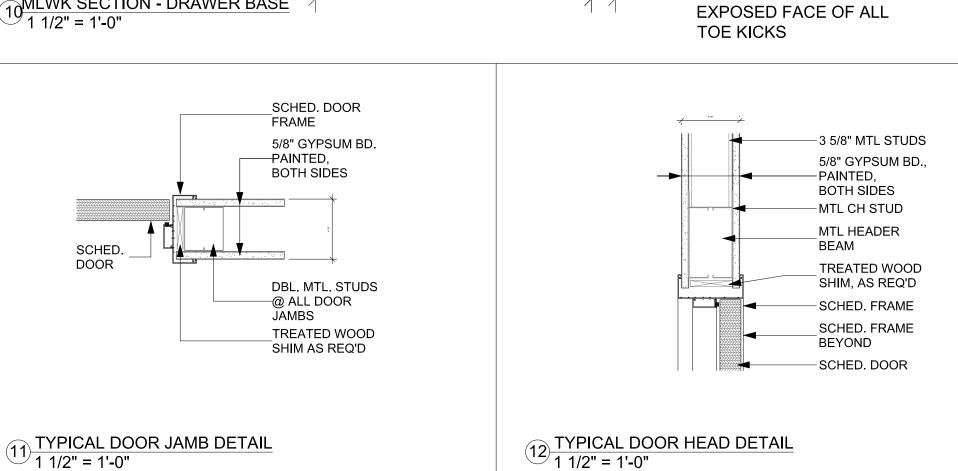
652 MC

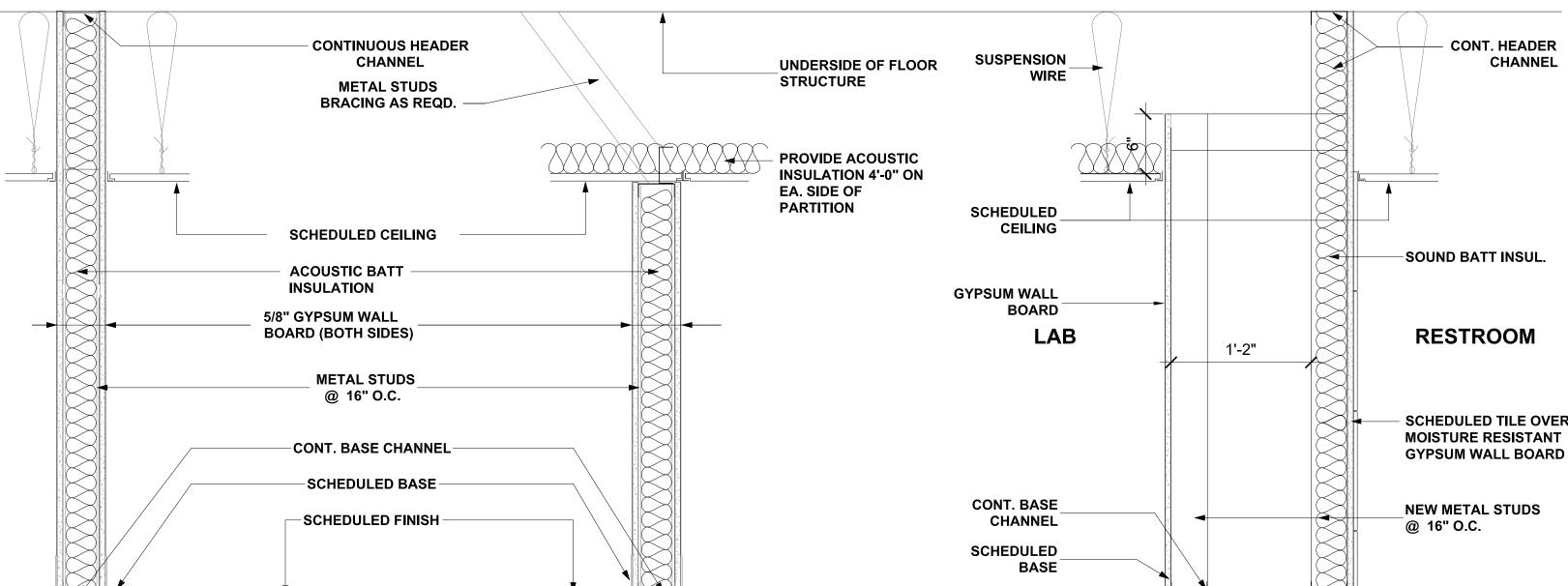
626 BE

626 RO









TYPICAL INT. PARTITION (TO DECK) TYPICAL INT. PARTITION (TO BOTTOM OF CEILING)

- 3 5/8" METAL STUDS, (2) - 5/8 GYP (4 7/8" FINISH)
- 3 5/8" METAL STUDS, 5/8" GYP. BD. FINISH ONE SIDE; 5/8" MR GYP. BD. & PORCELAIN WALL TILE WAINSCOT ONE SIDE
- 3 5/8" METAL STUDS (4 7/8" FINISH)
- (2) 5/8 GYP (4 7/8" FINISH)
- 3 5/8" METAL STUDS W/ 5/8 GYP BD. ONE SIDE ONLY (4 1/4" FINISH)

INT. PARTITION @ RESTROOM

3 5/8" METAL STUDS GWB ONE SIDE ONLY / (4 1/4" FINISH)

- 1. USE 5/8" TYPE "X" GYPSUM BOARD ON ALL PARTITIONS. 2. INSTALL 2X FIRE RATED WOOD BLOCKING AS REQUIRED FOR
- MOUNTING OF WALL EQUIPMENT, DENTAL EQUIPMENT AND ACCESSORIES. VERIFY ANY EQUIPMENT ROUGH-INS AND MOUNTING REQUIREMENTS WITH SUPPLIER

GENERAL NOTES

- 4. PUBLIC USE AREAS SHALL COMPLY WITH ADA AND TAS (AMERICANS WITH DISABILITIES
- ACT AND TEXAS ACCESSIBILITY STANDARDS.) I.E., WAITING ROOM, CHECK-OUT, HANDICAPPED RESTROOMS:
- A. CLEAR DOOR OPENING WIDTH SHALL BE 2'-8" (USE 3'-0" DOOR UNLESS NOTED B. USE COMMERCIAL GRADE HARDWARE WITH LEVER-TYPE HANDLE AT 36" A.F.F.
- (VERIFY WITH EXISTING) C. DOOR OPENING FORCE SHALL NOT EXCEED 5 POUNDS.
- D. THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHTS, UNLESS NOTED OTHERWISE E. DOOR SIGNAGE SHALL COMPLY WITH ADA SECTION 4.3. F. MINIMUM DOOR HEIGHT SHALL BE 7'-0"
- 5 A READILY VISIBLE, DURABLE SIGN SHALL BE POSTED ON THE EGRESS SIDE, ON OR ADJACENT TO THE DOOR, STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" THE SIGN SHALL BE IN LETTERS 1" HIGH ON A CONTRASTING
- BACKGROUND AT FRONT DOOR. 6. GLAZING IN HAZARDOUS LOCATIONS SHALL COMPLY WITH SECTION 2406.
- 7. RETURN AIR IS DUCTED ABOVE CEILING.
- 8. INSULATION IN BUILDING SHALL HAVE A FLAME SPREAD NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING NOT MORE THAN 450.

DOOR NOTES

1) UNDERCUT DOOR A MINIMUM OF 3/4

INCLUDE SIGN THAT STATES "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"

3) CARD READER ACCESS/ KEY FOB (TO BE

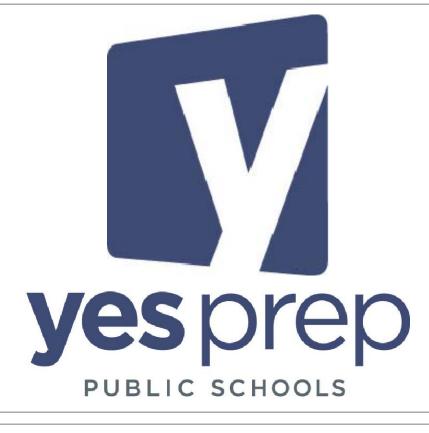
4) PROVIDE NEW THRESHOLD TO EXISTING DOOR, PROPERLY SEAL DOOR AND FRAME TO PREVENT AIR OR WATER INFILTRATION. 5) PANIC HARDWARE

6) ALL DOORS SHALL BE PAINTED, U.N.O.; COLOR: WILSONART WHITE TIGRIS 4783

EXS - EXISTING DOOR AND FRAME

21034 Project Number 04/20/21 Date Drawn By Checked By

A301 Scale





No.	Description	Date
	ISSUED FOR PRICING	04/20/21

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

> 10535 HARWIN DRIVE HOUSTON, TEXAS 77036

SCHEDULES &

DETAILS

NEW WORK IS SHOWN BOLD. ALL EXISTING TO REMAIN WORK IS SCREENED.

MECHANICAL GENERAL NOTES

- 1. FIELD VERIFY ALL EXISTING CONDITIONS. 2. DUCT DIMENSIONS ARE INSIDE CLEAR. 3. MAINTAIN MINIMUM CLEARANCE TO ALL
- EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. COORDINATE ALL AIR DEVICES WITH LIGHT
- FIXTURES. 5. REFURBISH AND REUSE EXISTING AIR DEVICES AND/OR PROVIDE NEW TYPE "A"
- TO MATCH EXISTING. 6. BALANCE ALL AIR DEVICES TO CFM SHOWN.

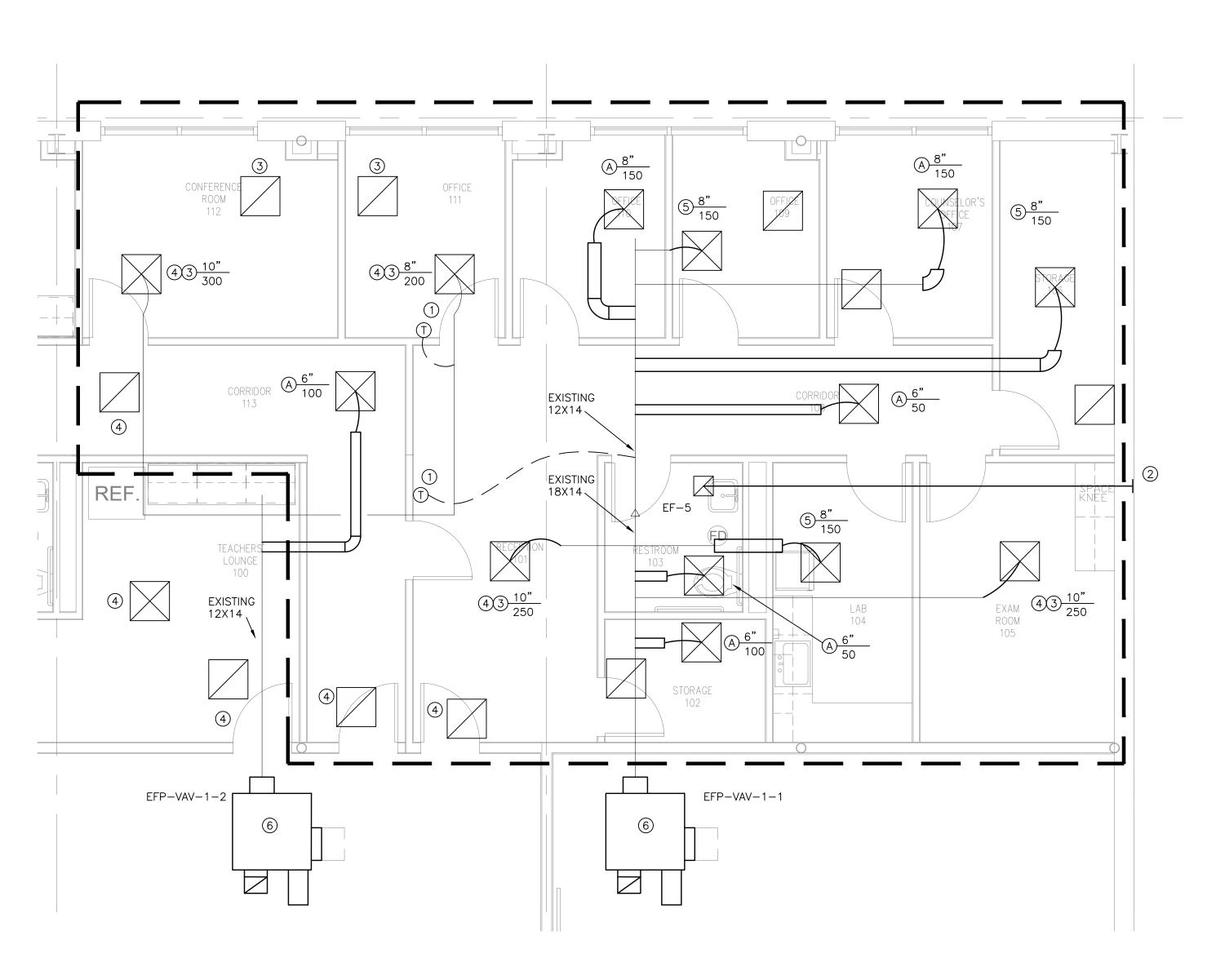
MECHANICAL KEY NOTES

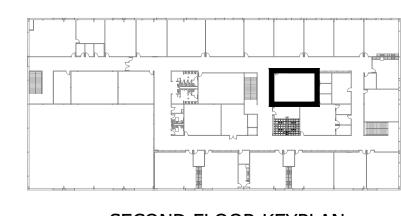
- 1. RELOCATE EXISTING THERMOSTAT (DDC CONTROLS). COORDINATE EXACT LOCATION
- WITH OWNÉR. 2. EXTEND EXHAUST THROUGH WALL. TERMINATE WITH WALL CAP. REFER TO MANUFACTURER'S INSTALLATION
- INSTRUCTIONS. 3. REUSE EXISTING AIR DEVICE OR PROVIDE NEW TO MATCH EXISTING. NECK SIZE AS
- INDICATED OR LARGER. RUN-OUT TO MATCH AIR DEVICE NECK SIZE. 4. EXISTING TO REMAIN.
- 5. RELOCATED EXISTING AIR DEVICE OR PROVIDE NEW TO MATCH EXISTING. NECK SIZE AS INDICATED OR LARGER. RUN-OUT
- TO MATCH AIR DEVICE NECK SIZE. 6. REBALANCE EXISTING FAN POWERED VAV PARALLEL BOX TO CFM SCHEDULED.



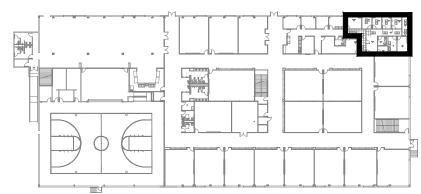
<u>43 8"</u> 225

<u>43</u> <u>8"</u> <u>225</u>





SECOND FLOOR KEYPLAN



FIRST FLOOR KEYPLAN

SECOND FLOOR MECHANICAL PLAN

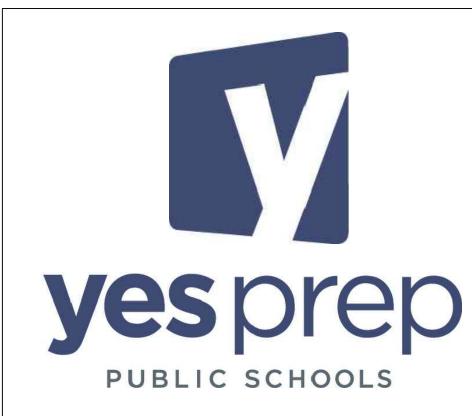
1/4" = 1'-0"

EXISTING 12X14

<u>43</u> <u>8"</u> <u>225</u>









No.	Description	Date
	ISSUED FOR PRICING	04/20/21

YES PREP SCHOOL

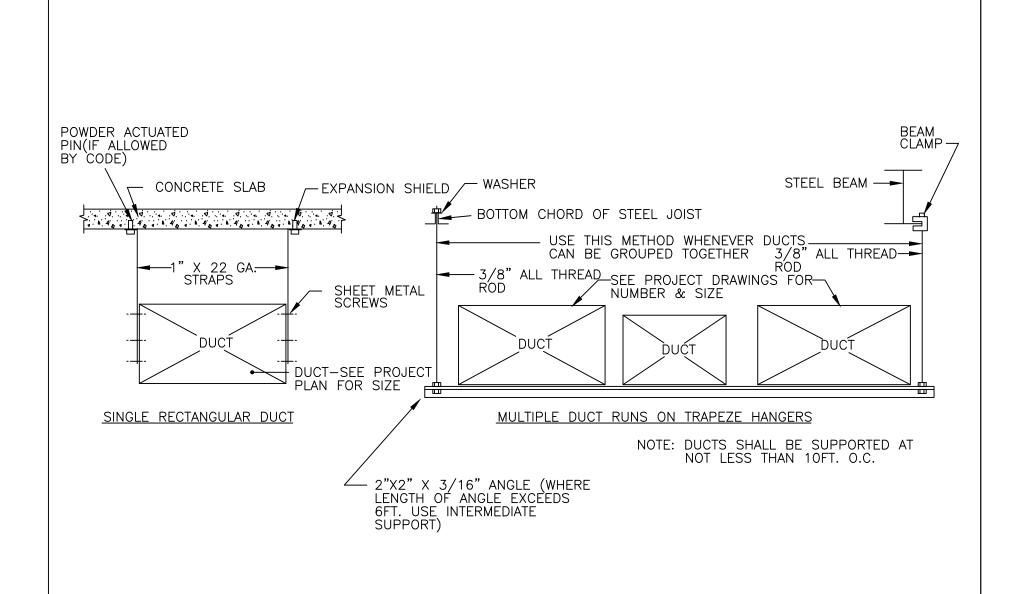
WEST CAMPUS LEGACY CLINIC

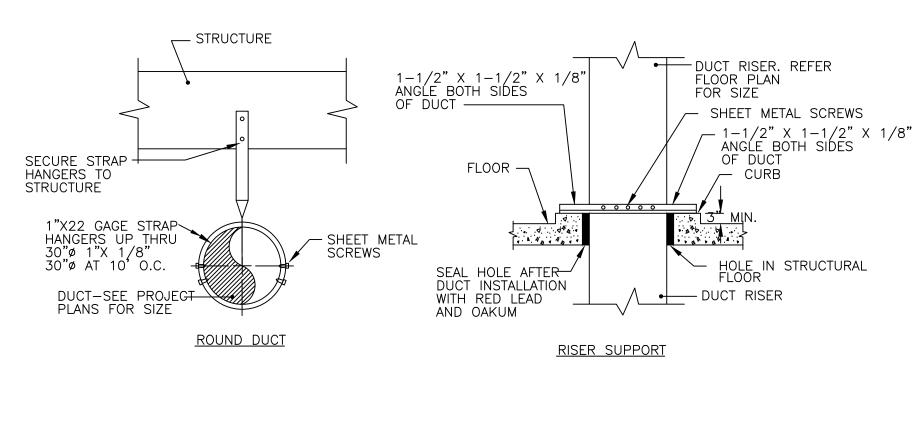
10535 HARWIN DRIVE HOUSTON, TEXAS 77036

MECHANICAL PLAN

Project Number 21 Date 03/2 Drawn By 5 Checked By 5
Date 03/2
Project Number 21

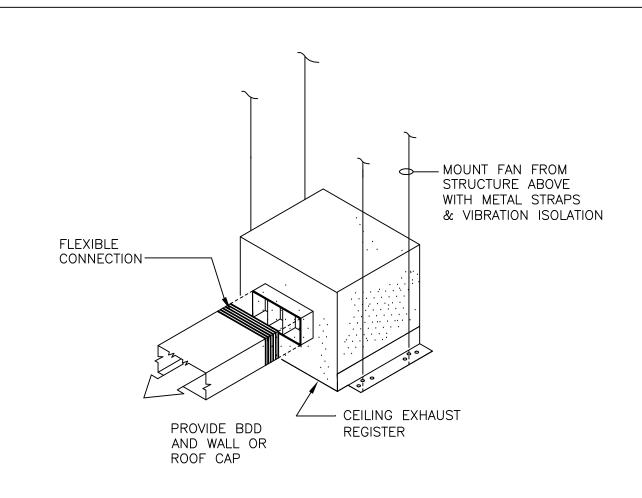
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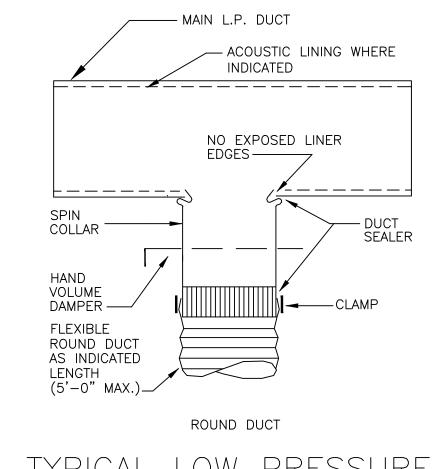


HANGER AND SUPPORT DETAILS FOR
LOW PRESSURE DUCTWORK (UP THRU 2" WG)

(VARIOUS METHODS OF ATTACHMENT)
NOT TO SCALE



CEILING EXHAUST FAN



	TOOTED BO	
TYPICAL	LOW	PRESSURE
BRANCH	DUCT	TAKE-OF
NOT	TO SCALE	

DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESS

RECTANGULAR DUCTS					
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NORMAL)				
THROUGH 12	0.022 INCH (26 GAGE, GALV.)				
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)				
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)				

ROUND DUCTS							
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT	LONGITUDINAL SEAM DUCT	FITTINGS				
	STEEL (MINIMUM THICKNESS, NORMAL)	STEEL (MINIMUM THICKNESS, NORMAL)	STEEL (MINIMUM THICKNESS, NORMAL)				
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)				
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)				
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)				
	· · · · · · · · · · · · · · · · · · ·	·					

DUCT & PIPING MATERIAL & INSULATION SCHEDULE					
SYSTEM	DUCT/PIPING MATERIAL	INSULATION MATERIAL			
SUPPLY & RETURN DUCT (RECTANGULAR)		JOHNS MANVILLE PERMACOTE LINACOUSTIC OR EQUAL, 1-1/2 LB/CU FT, NFPA 25/50 FLAME SPREAD AND SMOKE DEVELOPED RATING. MINIMUM INSTALLED R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.			
SUPPLY & RETURN DUCT (SPIRAL/ROUND)	SPIRAL/ROUND DUCT LINER INSULATION	CERTAINTEED TOUGHGUARD ULTRA*ROUND SPIRAL DUCT LINER, NFPA 25/50 FLAME SPREAD AND SMOKE DEVELOPED RATING. MINIMUM INSTALLED R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.			
EXHAUST DUCT	GALVANIZED SHEET METAL, UNLINED	NONE			
FLEXIBLE SUPPLY DUCT	UL 181, CLASS 1, INTERLOCKING SPIRAL OF ALUMINUM FOIL	THERMAFLEX M-KE, FIBERGLASS INSULATION, FIBERGLASS REINFORCED VAPOR-BARRIER FILM. MINIMUM INSTALLED R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.			
NOTEC					

1. DUCT AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE MECHANICAL CODE AND SMACNA METHOD A.

GRILLE — REGISTER — DIFFUSER SCHEDULE							
NO.	SIZE	TYPE	MANUFACTURER AND MODEL	FINISH	DESCRIPTION	NOTES	
А	24X24	CEILING SUPPLY	TITUS OMNI	WHITE	PLAQUE FACE, NECK SIZE PER PLANS, SQ TO RND TRANSITION, STEEL CONSTRUCTION	1	
В	24X24	CEILING RETURN	TITUS PAR	WHITE	PERFORATED FACE RETURN, NECK SIZE PER PLANS, ALUMINUM CONSTRUCTION	1,2	
NOTES	<u>S</u> :						

COORDINATE MOUNTING FRAME WITH CEILING TYPE.
 ALL RETURN AIR DEVICES TYPE "B" UNLESS NOTED OTHERWISE.

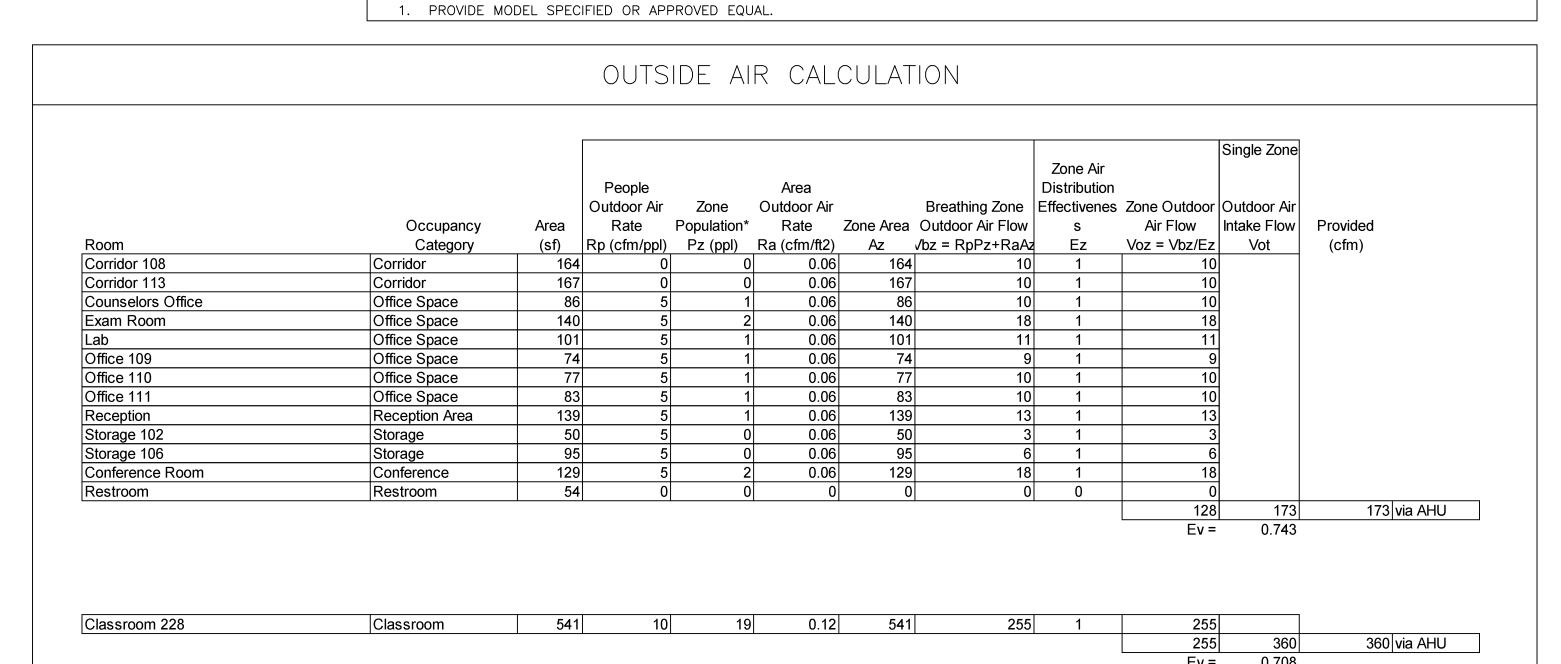
NOTE: OUTDOOR AIR REQUIREMENT FOR RESTROOMS PROVIDED BY TRANSFER AIR

	FAN SCHEDULE								
EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESSURE (IN WC)	ELECTRICAL V/ø/Hz	ELECTRICAL HP/RPM	MANUFACTURER AND MODEL	WEIGHT (LBS)	NOTES
EF-5	TOILET LEVEL 1	CEILING	80	0.10	120/1/60	43.1 WATTS	BROAN A80	10	1
NOTES:									

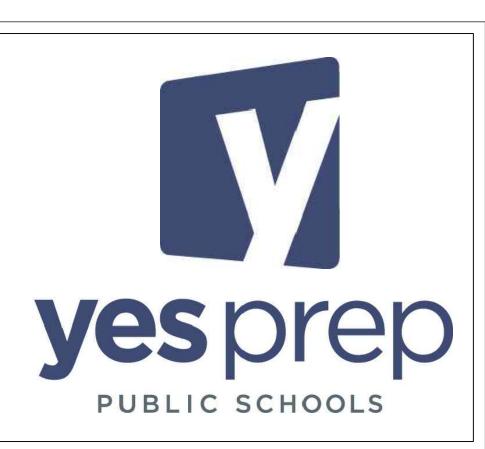
SYMBOL LEGEND

\boxtimes	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
M	MOTORIZED DAMPER
(VD)——	VOLUME DAMPER
FD-	FIRE DAMPER
SD	SMOKE DAMPER
(FS)——	FIRE/SMOKE DAMPER
<u>S</u> —	DUCT SMOKE DETECTOR
T	THERMOSTAT
TS	TEMPERATURE SENSOR
\overline{H}	HUMIDISTAT
©02	CARBON DIOXIDE SENSOR

FIXTURE TYPE -6 NECK SIZE OF NECK SIZE



		EXIS I	11/1	g terminal bo	X SUF	ILDUL				
NAME	LOCATION	CFM	SIZE	MAKE/MODEL	CFM MAX	CFM MIN k	Ν	MOTOR	HEAT	HP
EFP-VAV-1-1	LEVEL 1 LEGACY	1450	D	EXISTING CARRIER 45MN-7	2060	1500	7.5	277/1/60	480/3/60	0.7
EFP-VAV-1-2	LEVEL 1 OFFICE	600	В	EXISTING CARRIER 45MN-4	1448	600	3	277/1/60	480/3/60	0.2
EFP-VAV-2-1	LEVEL 2 CLASS	900	В	EXISTING CARRIER 45MN-4	1448	600	3	277/1/60	480/3/60	0.2





No.	Description	Date
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WEST CAMPUS LEGACY CLINIC

> 10535 HARWIN DRIVE HOUSTON, TEXAS 77036

MECHANICAL SCHEDULES

1/201	
Checked By	SEI
Drawn By	SE
Date	03/24/2
Project Number	2103

M201

DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

230000 HVAC BASIC REQUIREMENTS

- A. MINIMUM STANDARDS FOR ALL WORK SHALL BE CITY OF HOUSTON AMENDMENTS TO 2012 INTERNATIONAL BUILDING CODE, 2012 UNIFORM MECHANICAL CODE, AND 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- B. REFERENCES: THE STANDARDS MENTIONED HEREIN WILL BE REFERRED TO IN THE DESIGN OF MECHANICAL SYSTEMS. THE ENGINEER WILL SELECT APPROPRIATE SECTIONS OF THE STANDARD TO BE APPLIED IN ACCORDANCE WITH ESTABLISHED ENGINEERING PRINCIPLES AND PRACTICES. 1. APPLICABLE SECTIONS OF NFPA
 - 2. AMERICANS WITH DISABILITIES ACT (ADA)
- 3. TEXAS ACCESSIBILITY STANDARDS (TAS) C. SITE CONDITIONS: BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND DETERMINE ANY CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE FOR FAILURE TO MAKE SURE EXAMINATIONS.
- D. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- E. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES INCLUDING ARCHITECT, STRUCTURAL, CIVIL, PLUMBING, AND ELECTRICAL. F. DO NOT SCALE FROM THE ENGINEERED DRAWINGS. REFER TO THE
- DIMENSIONED DRAWINGS OF THE ARCHITECT FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. G. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF WORK AND PAY ALL INCIDENTAL CHARGES.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL TESTS NECESSARY TO PREVENT CONCEALMENT OF DEFECTIVE OR IMPROPER WORK. UPON COMPLETION OF WORK, TEST INSTALLATION THOROUGHLY AND RENDER IT FROM LEAKS OR IMPROPER
- CONNECTIONS. I. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION. REMOVE ALL EXCESS DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

230513 COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT

A. PROVIDE HIGH EFFICIENCY MOTORS IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE.

230548 VIBRATION ISOLATION

A. VIBRATION ISOLATION WILL BE PROVIDED AS REQUIRED TO MINIMIZE TRANSMISSION TO STRUCTURE. EQUIPMENT AND PIPING SHALL HAVE ISOLATORS INSTALLED AT POINTS OF SUPPORT. APPROVED MANUFACTURERS: AMBER/BOOTH, MASON, KINETICS NOISE CONTROL, VIBRO-ACOUSTICS.

230593 TESTING, ADJUSTING, AND BALANCING FOR HVAC

- A. ADJUST ALL AIR SYSTEM DAMPERS AND VOLUME CONTROLLERS TO OBTAIN PROPER AIR BALANCE THROUGHOUT THE CONDITIONED AREA. THE AIR QUANTITIES SHOWN ON THE DRAWINGS FOR INDIVIDUAL OUTLETS MAY BE CHANGED TO OBTAIN UNIFORM TEMPERATURE WITHIN EACH ZONE, BUT THE TOTAL AIR QUANTITY SHOWN FOR EACH ZONE MUST BE OBTAINED WITHIN +/- 10%. MAXIMUM TEMPERATURE
- VARIATION WITHIN A ZONE SHALL BE 2°F. B. ADJUST ALL BLOWER DRIVES TO OBTAIN PROPER TOTAL AMOUNTS OF AIR, INCLUDING EXHAUST AND OUTSIDE AIR SUPPLY. C. CALIBRATE, SET, AND ADJUST ALL AUTOMATIC TEMPERATURE
- D. PROVIDE A WRITTEN REPORT TO THE OWNER AND ENGINEER IN ACCORDANCE WITH AABC, NEBB, OR ASHRAE 111.

230713 DUCT INSULATION

- A. ACOUSTICAL LINER: JOHNS MANVILLE PERMACOTE LINACOUSTIC OR APPROVED EQUAL; DENSITY 1-1/2 LB PER CUBIC FOOT OR GREATER, "K" VALUE NOT MORE THAN 0.28 AT 75°F MEAN TEMPERATURE DIFFERENCE. INTERIOR FACE OF LINER SHALL BE COATED WITH A SMOOTH, POLYMER BASED SUBSTANCE THAT INHIBITS MICROBIOLOGICAL GROWTH, DOES NOT HAVE CAVITIES FOR COLLECTION OF DIRT AND DEBRIS, AND MEETS NFPA 25/50 STANDARDS FOR FLAME SPEED AND SMOKE DEVELOPED RATINGS. THE MANUFACTURER SHALL CERTIFY THAT THE SURFACE COATING IS CLEANABLE WITH INDUSTRY STANDARD DUCT CLEANING EQUIPMENT AND SHOW TYPE OF EQUIPMENT.
- B. ALL INSULATION THICKNESS SHALL MEET THE MINIMUM REQUIREMENTS OF INTERNATIONAL ENERGY CONSERVATION CODE.

230993 SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

- A. AIR TERMINALS PARALLEL FAN POWERED 1. FAN TURNS ON/OFF WHEN ASSOCIATED AHU TURNS ON/OFF.
- ZONE REHEAT 3. DEMAND CONTROL VENTILATION (CO2 SENSOR)
- a. ZONE CONTROLLER MONITORS CO2 SENSOR AND CAN OVERRIDE TEMPERATURE CONTROL TO RESPOND TO INCREASING CO2 LEVELS WHEN THE ZONE IS OCCUPIED.
- b. WHEN ZONE IS UNOCCUPIED, MINIMUM AIRFLOW PROVIDES c. AUXILIARY HEAT - THE CONTROLLER WILL MAINTAIN ZONE'S

INCREASED TO HALFWAY BETWEEN THE HEATING AND

TEMPERATURE AT A HEATING SETPOINT THAT IS TEMPORARILY

COOLING SETPOINTS WHENEVER DCV IS ACTIVE. B. PRESSURE RELIEF VIA EXISTING BAROMETRIC RELIEF HOOD.

C. EXHAUST FAN TO BE INTERLOCKED WITH OCCUPANCY SENSOR.

233113 METAL DUCTS

- A. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO
- LAYOUT ARE APPROVED ON SHOP DRAWINGS. B. GENERAL MATERIAL REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS — METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.
- 1. DUCTS CONNECTED TO AIR HANDLING EQUIPMENT: GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653/A 653M. a. GALVANIZED COATING DESIGNATION: G60.
- C. HANGER SPACING: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," TABLE 5-1, "RECTANGULAR DUCT HANGERS MINIMUM SIZE," AND TABLE 5-2, "MINIMUM HANGER SIZES FOR ROUND DUCT," FOR MAXIMUM HANGER SPACING; INSTALL HANGERS AND SUPPORTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION.

233300 AIR DUCT ACCESSORIES

- A. VOLUME DAMPERS: PROVIDE VOLUME DAMPERS IN BRANCH DUCTWORK AS REQUIRED FOR PROPER BALANCING OF THE SUPPLY AND RETURN AIR SYSTEMS.
- B. FLEXIBLE DUCTWORK 1. INSULATED, FLEXIBLE DUCT: UL 181, CLASS 1, INTERLOCKING SPIRAL OF ALUMINUM FOIL; FIBERGLASS INSULATION; FIBERGLASS REINFORCED VAPOR-BARRIER FILM WITH A FLAME SPREAD LESS THAN 25; SMOKE DEVELOPED LESS THAN 50 SIMILAR TO THERMAFLEX M-KE, MINIMUM R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.
- 2. CONNECT FLEXIBLE DUCT TO METAL DUCT WITH ADHESIVE AND SHEET METAL SCREWS.
- 3. CONNECT AIR DEVICES WITH A MAXIMUM 6 FT LENGTH OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE. C. FLEXIBLE CONNECTORS: PROVIDE FLEXIBLE CONNECTORS AT ALL
- AIR HANDLING EQUIPMENT 1. INDOOR FLEXIBLE CONNECTOR FABRIC: GLASS FABRIC DOUBLE COATED WITH NEOPRENE. a. MINIMUM WEIGHT: 26 OZ./SQ.YD.
- b. TENSILE STRENGTH: 480 LBF/INCH N THE WARP AND 360 LBF/INCH IN THE FILLING.
- c. SERVICE TEMPERATURE: MINUS 40 TO PLUS 200 DEG F.

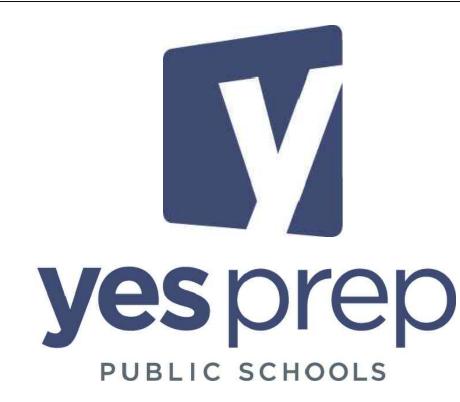
ENERGY CODE COMPLIANCE REQUIREMENTS

COMMISSIONING PLAN

- A. AIR SYSTEM BALANCE 1. ADJUST ALL AIR SYSTEM DAMPERS AND VOLUME CONTROLLERS TO OBTAIN PROPER AIR BALANCE THROUGHOUT THE CONDITIONED AREA. THE AIR QUANTITIES SHOWN ON THE DRAWINGS FOR INDIVIDUAL OUTLETS MAY BE CHANGED TO OBTAIN UNIFORM TEMPERATURE WITHIN EACH ZONE AND SHALL BE WITHIN +/- 10% OF SCHEDULED VALUES AND THE TOTAL AIR QUANTITY SHOWN FOR EACH ZONE MUST BE OBTAINED WITHIN +/- 10%. MAXIMUM TEMPERATURE VARIATION WITHIN A ZONE SHALL BE 2°F. 2. ADJUST ALL BLOWER DRIVES TO OBTAIN PROPER TOTAL AMOUNTS OF AIR, INCLUDING
- EXHAUST AND OUTSIDE AIR SUPPLY. 3. CALIBRATE, SET, AND ADJUST ALL AUTOMATIC TEMPERATURE CONTROLS. 4. PROVIDE A WRITTEN REPORT TO THE OWNER IN ACCORDANCE WITH AABC, NEBB, OR ASHRAF 111
- B. FUNCTIONAL PERFORMANCE TESTING 1. EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND SEQUENCE OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD, AND THE
- FOLLOWING EMERGENCY CONDITIONS: a. ALL MODES AS DESCRIBED IN SEQUENCE OF OPERATION. b. REDUNDANT OR AUTOMATIC BACK-UP MODE.
- c. PERFORMANCE OF ALARMS. d. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.
- e. EXCEPTION: UNITARY OR PACKAGED HVAC EQUIPMENT LISTED IN TABLES C403.2.3(1) THROUGH C403.2.3(3) THAT DO NOT REQUIRE SUPPLY AIR ECONOMIZERS. C. CONTROLS
- 1. HVAC CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED AND ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. 2. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
- D. ECONOMIZERS 1. AIR ECONOMIZERS SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THAT THEY OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. E. COMMISSIONING REPORT
- 1. MECHANICAL CONTRACTOR SHALL PROVIDE A REPORT OF THE ABOVE COMMISSIONING TEST PROCEDURES AND RESULTS AND PROVIDE TO GENERAL CONTRACTOR TO COMPILE WITH ELECTRICAL AND PLUMBING REPORTS. 2. REPORT SHALL IDENTIFY ANY DEFICIENCIES THAT HAVE NOT YET BEEN CORRECTED, DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION
- BECAUSE OF CLIMATIC CONDITIONS, AND CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS. 3. GENERAL CONTRACTOR SHALL PROVIDE COMPILED REPORT TO OWNER/REPRESENTATIVE.

DOCUMENTATION REQUIREMENTS

- A. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE FOLLOWING DOCUMENTS SHALL BE PROVIDED TO THE OWNER: 1. MANUALS: OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED AND INCLUDE
- a. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. b. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE
- PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. c. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY. d. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS IN PROGRAMMING
- e. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.







No.	Description	Date
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YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

MECHANICAL SPECIFICATIONS

Project Number Date Drawn By Checked By	1) (7	1		
Date						SEI
•						SEI
Project Number					03/2	24/2
					2	103

IVIOUI

Scale AS NOTED NEW WORK IS SHOWN BOLD. ALL EXISTING TO REMAIN WORK IS SCREENED.

- PLUMBING GENERAL NOTES
- FIELD VERIFY ALL EXISTING CONDITIONS.
 ALL PLUMBING EXISTING TO REMAIN UNLESS NOTED
- OTHERWISE.

 4. LOCATE SHUT-OFF VALVES ABOVE ACCESSIBLE CEILING

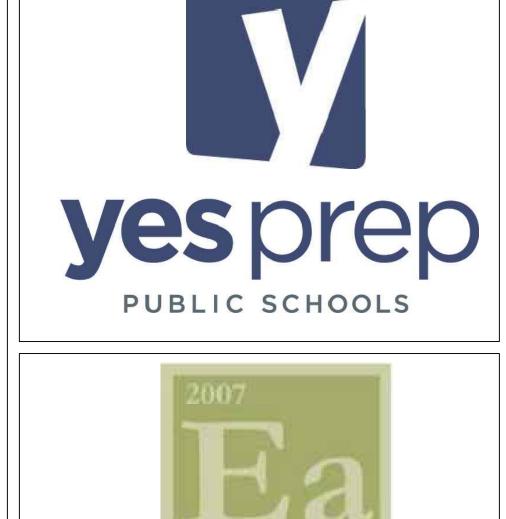
AT ACCESSIBLE HEIGHT AT EACH FIXTURE GROUP.

- PLUMBING KEY NOTES
- CONNECT NEW COLD WATER TO EXISTING.
 CONNECT NEW VENT TO EXISTING.
 CONNECT NEW SANITARY TO EXISTING.
 WASTE DOWN, VENT UP, COLD WATER DOWN.
- 5. VENT UP FROM BELOW.6. WASTE DOWN, VENT UP.

FIRE PROTECTION GENERAL NOTES

- 1. EXISTING BUILDING IS SPRINKLERED. RELOCATE AND/OR ADD ADDITIONAL SPRINKLER HEADS TO MATCH EXISTING, INCLUDING PIPE, FITTINGS, HANGERS, ACCESSORIES AS REQUIRED TO PROVIDE COMPLETE AUTOMATIC SPRINKLER PROTECTION AND COVERAGE REQUIRED BY LOCAL JURISDICTION, NFPA, AND FIRE CODES FOR REMODELED SPACE AND SPACES IMMEDIATELY OUTSIDE OF REMODELED SPACE. COORDINATE EXACT LOCATIONS OF NEW SPRINKLER HEADS AND EXISTING PIPING WITH
- 2. PENETRATIONS THROUGH WALLS AND FLOORS WHERE FIRE RATING IS REQUIRED SHALL BE PROVIDED WITH U.L. LISTED, LOCAL JURISDICTION
- APPROVED SYSTEM.

 3. ALL WORK ASSOCIATED WITH AND DONE TO THE BUILDING FIRE
- PROTECTION SYSTEM SHALL BE PERFORMED BY A STATE OF TEXAS LICENSED FIRE SPRINKLER CONTRACTOR.
- 4. CONTRACTOR SHALL SUBMIT SPRINKLER SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.







No.	Description	Date
	ISSUED FOR PRICING	04/20/21

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WEST CAMPUS LEGACY CLINIC

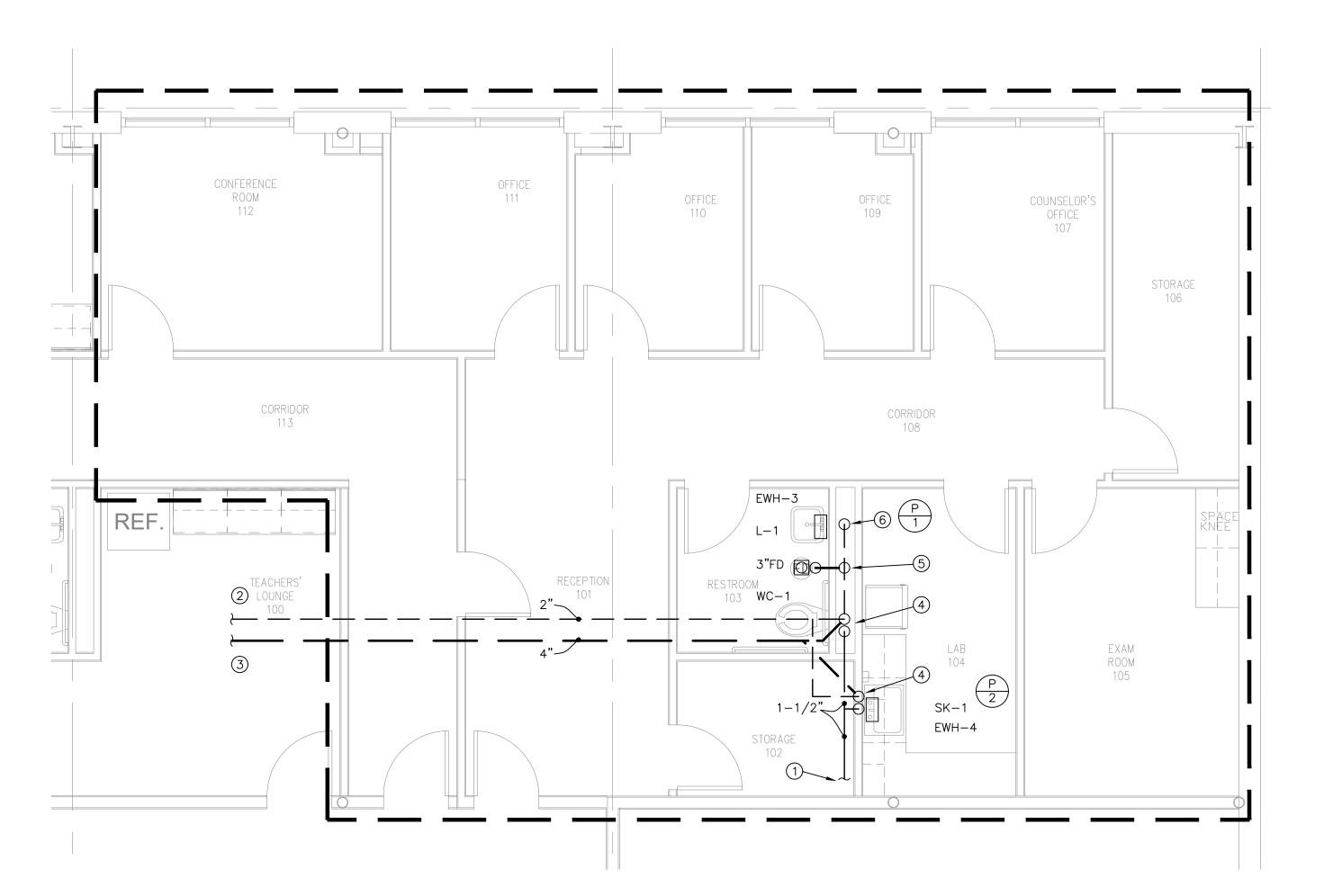
10535 HARWIN DRIVE HOUSTON, TEXAS 77036

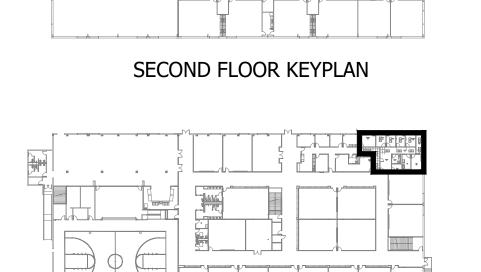
PLUMBING PLAN

Checked By	SEI
Drawn By	SE
Date	03/24/2
Project Number	2103

AS NOTED







FIRST FLOOR KEYPLAN

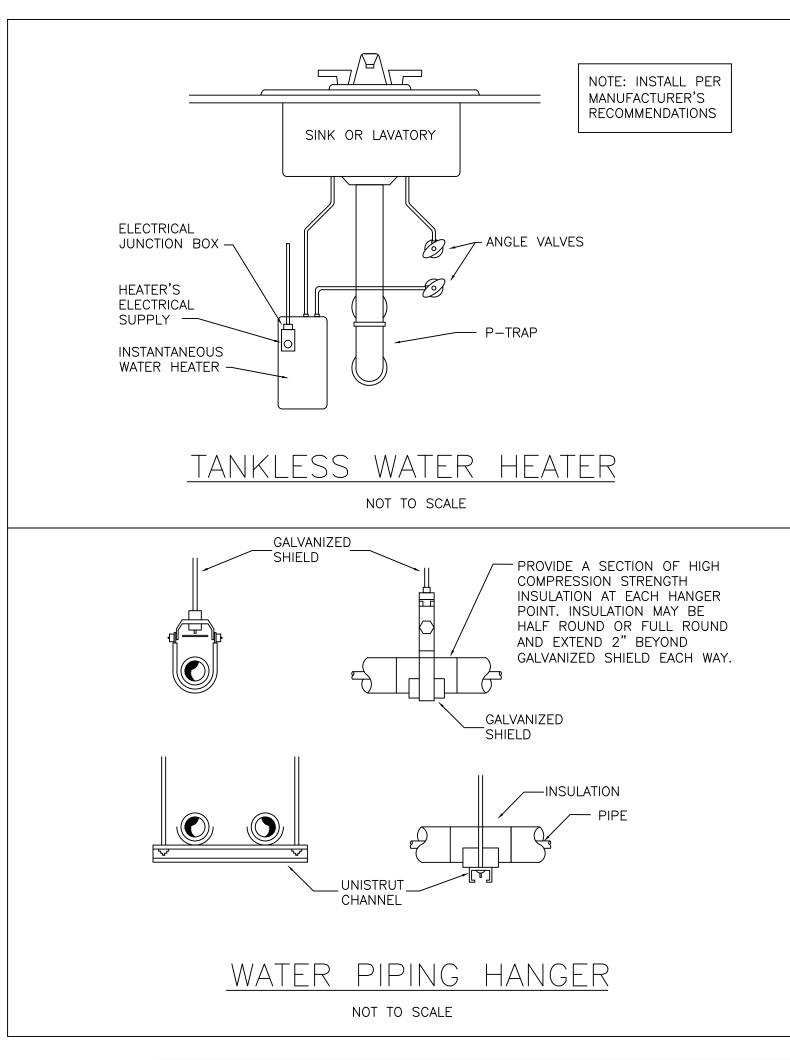
SECOND FLOOR PLUMBING PLAN

1/4" = 1'-0"



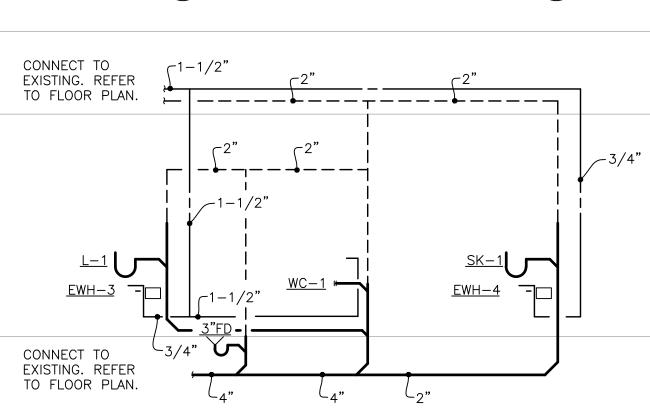
NO PLUMBING

CLASSROOM 228



SYMBOL LEGEND						
	X	GATE VALVE				
SANITARY WASTE BELOW SLAB	$\frac{P}{1}$	RISER SYMBOL				
VENT	VTR	VENT THROUGH ROOF				
COLD WATER	WCO	WALL CLEAN-OUT				
	FCO	FLOOR CLEAN-OUT				
— – – — HOT WATER RETURN						

- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES. REFER TO FLOOR PLANS FOR BRANCH SIZES. PROVIDE WATER HAMMER ARRESTERS. SIZE AND PLACEMENT PER MANUFACTURER'S RECOMMENDATION. PROVIDE THERMOSTATIC MIXING VALVE AT EACH
- LAVATORY/SINK OR GANG OF LAVATORY/SINKS TO LIMIT THE WATER TO 110°F AT EACH FAUCET OUTLET.
- PROVIDE PROSET TRAP GUARD TO ALL FLOOR DRAINS.



ENERGY CODE COMPLIANCE REQUIREMENTS

- A. FUNCTIONAL PERFORMANCE TESTING 1. EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED, TESTING SHALL INCLUDE ALL MODES AND SEQUENCE OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD, AND THE
- FOLLOWING EMERGENCY CONDITIONS: a. ALL MODES AS DESCRIBED IN SEQUENCE OF OPERATION. b. REDUNDANT OR AUTOMATIC BACK-UP MODE.
- c. PERFORMANCE OF ALARMS. d. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.
- 1. WATER HEATING CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED AND ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. 2. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY
- COMMISSIONING REPORT 1. PLUMBING CONTRACTOR SHALL PROVIDE A REPORT OF THE ABOVE COMMISSIONING TEST PROCEDURES AND RESULTS AND PROVIDE TO GENERAL CONTRACTOR TO COMPILE WITH

OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

- MECHANICAL AND ELECTRICAL REPORTS 2. REPORT SHALL IDENTIFY ANY DEFICIENCIES THAT HAVE NOT YET BEEN CORRECTED, DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS, AND CLIMATIC CONDITIONS REQUIRED FOR
- PERFORMANCE OF THE DEFERRED TESTS. 3. GENERAL CONTRACTOR SHALL PROVIDE COMPILED REPORT TO OWNER/REPRESENTATIVE.
- DOCUMENTATION REQUIREMENTS A. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE FOLLOWING DOCUMENTS SHALL BE PROVIDED TO THE OWNER: 1. MANUALS: OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

c. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.

- a. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. b. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- d. HOT WATER CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS IN
- PROGRAMMING COMMENTS. e. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.

PIPING MATERIAL SCHEDULE						
SYSTEM	MATERIAL					
SANITARY WASTE/VENT ABOVE GRADE, INSIDE BLDG	CAST IRON PIPE AND FITTINGS WITH HUB OR NO-HUI JOINTS					
SANITARY WASTE/VENT BELOW GRADE	SCHEDULE 40 PVC PIPE AND FITTINGS					
DOMESTIC WATER ABOVE GRADE, INSIDE BLDG	TYPE "L" COPPER WITH SOLDER-JOINT FITTINGS					
FIRE SPRINKLER	BLACK STEEL PIPE AND FITTINGS					

1. PVC NOT TO BE USED IN RETURN AIR PLENUM. 2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND OPTIONS.

	ELEC	TRIC W	/ATER	HEATER	SCHEDU	JLE
EQUIPMENT NO.	LOCATION	INPUT KW	STORAGE (GAL)	RECOVERY (GPH) @ 100°F	ELECTRICAL V/ø/Hz	MANUFACTURER AND MODEL
EWH-3,4	UNDER SINK/LAV	4.1			277/1/60	EEMAX ACCUMIX MT004277T, TANKLESS ELECTRIC

	PLUMBING FIXTURE SCHEDULE										
FIXTURE	E DESCRIPTION	WASTE	VENT	COLD WATER	HOT WATER	MANUFACTURER AND MODEL					
WC-1	WATER CLOSET, WALL HUNG, FLUSH VALVE, TAS/ADA	4"	2"	1"		AMERICAN STANDARD AFWALL 2856.128, ELONGATED, VITREOUS CHINA, WHITE, 1.28 GPF, AMERICAN STANDARD FLOWISE MANUAL FLUSH VALVE, 1—1/2" TOP SPUD, EVERCLEAN SURFACE OPEN FRONT SEAT.					
L-1	LAVATORY WALL—HUNG, TAS/ADA	2"	2"	3/4"	3/4"	AMERICAN STANDARD LUCERNE 0356, VITREOUS CHINA, WHITE, THREE HOLE WITH ZURN FAUCET Z831R4—XL, WRIST BLADE HANDLES, WIDESPREAL ADJUSTABLE, 0.5 GPM FLOW RESTRICTOR, CONCEALED ARM CARRIER, TRUEBRO LAV GUARD 2E—Z. THERMOSTATIC MIXING VALVE LEONARD VALVE MODEL 170LF.					
SK-1	SINK, SINGLE COMPARTMENT, TAS/ADA	2"	2"	3/4"		ELKAY LRAD 2219, STAINLESS STEEL, 6-1/2" DEEP, ELKAY FAUCET LKD2437BH, 2.2 GPM FLO' RESTRICTOR					
FD	FLOOR DRAIN	PER PLANS	2"			MIFAB F1100-C-1-6-HP, CAST IRON BODY WIT FLASHING COLLAR, 6" ROUND STAINLESS STEEL TOP, HEEL PROOF AND VANDAL PROOF SECUREI GRATE					

 $\frac{P}{2}$

- I. CONNECT TO WASTE, WATER, AND VENT AS INDICATED ON DRAWINGS AND AS REQUIRED BY PLUMBING CODE. PROVIDE ALL NECESSARY TRAPS, SUPPLIES, STOPS, AND OTHER ACCESSORIES TO INSTALL AND OPERATE PLUMBING FIXTURES PER PLUMBING CODE AND MANUFACTURER'S RECOMMENDATION. 2. PROVIDE FIXTURE CARRIER SUPPORTS FOR WALL HUNG FIXTURES SIMILAR TO MIFAB, ZURN, OR JR SMITH.
- COORDINATE SUPPORT WIDTH WITH CHASE SPACE. 3. REFER TO ARCHITECT FOR MOUNTING HEIGHTS.
- 4. COORDINATE BOWL DEPTHS WITH ARCHITECT PRIOR TO ORDERING.
- 5. COORDINATE QUANTITY AND SPACING OF FAUCET HOLES WITH LAVATORY/SINK PRIOR TO ORDERING.

6. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL. FLOW RATES MUST MEET REQUIREMENTS AS SPECIFIED.

DIVISION 22 - PLUMBING

- INTERNATIONAL BUILDING CODE, 2012 UNIFORM PLUMBING CODE, AND 2015 INTERNATIONAL
- ENERGY CONSERVATION CODE. B. THE PLUMBING SYSTEMS SHALL INCLUDE DOMESTIC COLD WATER, DOMESTIC HOT WATER,
- SANITARY WASTE AND VENT. 1. APPLICABLE SECTIONS OF NFPA
- FOR FAILURE TO MAKE SURE EXAMINATIONS.
- F. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES INCLUDING ARCHITECT, STRUCTURAL, CIVIL, MECHANICAL, AND ELECTRICAL.
- OF THE ARCHITECT FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC.
- H. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR
- TEST INSTALLATION THOROUGHLY AND RENDER IT FROM LEAKS OR IMPROPER CONNECTIONS.
- J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION. REMOVE ALL EXCESS DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- A. PROVIDE U.L. LISTED FIRESTOP SEALING SYSTEMS AT ALL PIPING PENETRATIONS OF RATED
- B. INSTALL SLEEVES FOR PIPING PASSING THROUGH PENETRATIONS IN FLOORS, PARTITIONS, ROOFS, AND WALLS.
- 1. STEEL PIPE SLEEVES SHALL COMPLY WITH ASTM A53/A53M, TYPE E, GRADE B, SCH. 40, ZINC COATED, PLAIN ENDS.
- 2. CAST-IRON PIPE SLEEVES SHALL BE CAST OR FABRICATED "WALL PIPE," EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATERSTOP U.O.N.
- E. WALL AND FLOOR SLEEVE-SEAL SYSTEMS SHALL COMPLY WITH THE FOLLOWING: 1. SEALING ELEMENTS SHALL BE EPDM-RUBBER INTERLOCKING LINKS SHAPED TO FIT
- ACCEPTABLE MANUFACTURERS: ADVANCE PRODUCTS & SYSTEMS, CALPICO, METRAFLEX
- COMPANY, PIPELINE SEAL AND INSULATOR, PROCO PRODUCTS.

220719 PLUMBING PIPING INSULATION

- A. MINERAL FIBER, PREFORMED, TYPE AND THICKNESS PER SCHEDULE.
- 2. INSTALL INSULATION WITH LONGITUDINAL AT TOP AND BOTTOM OF HORIZONTAL RUNS. 3. INSTALL MULTIPLE LAYERS OF INSULATION WITH LONGITUDINAL AND END SEAMS
- STAGGERED. 4. KEEP INSULATION MATERIALS DRY DURING APPLICATION AND FINISHING.
- 5. INSTALL INSULATION WITH TIGHT AND LONGITUDINAL SEAMS AND END JOINTS. BOND SEAMS AND JOINTS WITH ADHESIVE RECOMMENDED BY INSULATION MATERIAL
- MANUFACTURER.
- PERCENT OF ITS NOMINAL THICKNESS. 7. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT
- SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT. 8. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER
- DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.

221116 DOMESTIC WATER PIPING

A. PIPING MATERIAL PER SCHEDULE.

- AND NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25 PERCENT
- 1. INSTALL PIPING LEVEL WITHOUT PITCH AND PLUMB.
- INSTALL PIPING CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS UNLESS OTHERWISE INDICATED AND EXCEPT IN EQUIPMENT ROOMS AND SERVICE AREAS.
- INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL AND COORDINATE WITH OTHER SERVICES OCCUPYING THE SPACE. 4. INSTALL PIPING TO PERMIT VALVE SERVICING.
- 7. PROVIDE SHUT-OFF VALVE AT EACH MAJOR BRANCH LINE.
- ITS OWN INDIVIDUAL AND ACCESSIBLE SHUT-OFF/STOP VALVE.
- 9. INSTALL DIELECTRIC FITTINGS IN PIPING AT CONNECTIONS OF DISSIMILAR METAL PIPING AND TUBING.

C. HANGER AND SUPPORT INSTALLATION 1. PIPE HANGERS

- a. VERTICAL PIPING: MSS TYPE 8 OR 42, CLAMPS
- b. INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS
- i. 100 FEET AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS ii. LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER HANGERS
- c. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER: MSS TYPE 44. PIPE ROLLS. SUPPORT PIPE ROLLS ON TRAPEZE.
- 2. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
- 3. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH.
- 4. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM HORIZONTAL
- b. NPS 1 AND NPS 1-1/4: 72 INCHES WITH 3/8-INCH ROD
- c. NPS 1-1/2 AND NPS 2: 96 INCHES WITH 3/8-INCH ROD
- D. PIPING INSPECTIONS
- INSPECTED AND APPROVED BY AUTHORITY HAVING JURISDICTION (AHJ).
- 2. IF AHJ FINDS THAT PIPING WILL NOT PASS TEST OR INSPECTIONS. MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
- 3. PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AHJ.
- E. PIPING TESTS
- AIR BOUND AND THAT PIPING IS FULL OF WATER.
- 3. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED.
- 4. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW IT TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN
- TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS, RETEST PIPING OR PORTION
- 6. PREPARE REPORTS FOR TESTS AND FOR CORRECTIVE ACTION REQUIRED. F. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING.

221316 SANITARY WASTE AND VENT SYSTEM

- A. PIPING MATERIAL PER SCHEDULE.
- B. PIPING INSTALLATION 1. INSTALL PIPING IN CONCEALED LOCATIONS UNLESS OTHERWISE INDICATED AND EXCEPT IN
- EQUIPMENT ROOMS AND SERVICE AREAS. 2. INSTALL PIPING ABOVE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL
- 3. INSTALL PIPING AT MINIMUM SLOPES. i. HORIZONTAL SANITARY: 1/4" PER FOOT IN DIRECTION OF FLOW. NPS 4 AND
 - LARGER MAY BE SLOPED AT 1/8" PER FOOT IN DIRECTION OF FLOW WITH APPROVAL OF AUTHORITY HAVING JURISDICTION (AHJ).
 - ii. VENT PIPING: 1/8" PER FOOT DOWN TOWARD VERTICAL FIXTURE VENT OR TOWARD VENT STACK.
- 5. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. 6. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND
- APPROVED BY AHJ. C. HANGERS AND SUPPORT INSTALLATION
- 1. INSTALL HANGERS FOR CAST IRON PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
- a. NPS 1-1/2 AND NPS 2: 60 INCHES WITH 3/8-INCH ROD
- b. NPS 4: 60 INCHES WITH 5/8-INCH ROD
- 2. INSTALL SUPPORTS FOR VERTICAL CAST IRON PIPING EVER 15 FT. 3. INSTALL HANGERS FOR PVC PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING
- AND MINIMUM ROD DIAMETERS: a. NPS 1-1/2 AND NPS 2: 48 INCHES WITH 3/8-INCH ROD b. NPS 4: 48 INCHES WITH 5/8-INCH ROD
- 4. INSTALL SUPPORTS FOR VERTICAL PVC PIPING EVERY 48 INCHES.
- D. TEST SANITARY DRAINAGE AND VENT PIPING E. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.
- F. CLEANING

4. INSTALL PIPING FREE OF SAGS AND BENDS.

- 1. CLEAN INTERIOR OF PIPING. 2. PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING

WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION

- 3. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN WORK
- 4. EXPOSED PVC PIPING: PROTECT PLUMBING VENTS EXPOSED TO SUNLIGHT WITH TWO COATS OF WATER-BASED LATEX PAINT.

221319 SANITARY WASTE PIPING SPECIALTIES

- A. ALL FLOOR DRAINS SHALL BE PROVIDED WITH PROSET TRAP GUARD. COORDINATE LOCATION OF ALL FLOOR DRAINS WITH ALL OTHER TRADES PRIOR TO INSTALLATION. B. INSTALL CLEANOUTS IN ABOVE GROUND PIPING AND BUILDING DRAIN PIPING ACCORDING TO
- THE FOLLOWING UNLESS OTHERWISE NOTED: 1. SIZE SAME AS DRAINAGE PIPING UP TO 4". USE 4" FOR LARGER DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
- 2. LOCATE AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES. 3. LOCATE AT MINIMUM OF 90 FEET INTERVALS.
- C. FOR FLOOR CLEANOUTS IN PIPING BELOW FLOORS, INSTALL CLEANOUT DECK PLATES WITH TOP FLUSH WITH FINISHED FLOOR. D. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS
- WITH FRAME AND COVER FLUSH WITH FINISHED WALL. E. INSTALL FLOOR DRAINS AT LOW POINTS OF SURFACE AREAS TO BE DRAINED. SET GRATES OF DRAINS FLUSH WITH FINISHED FLOOR.
- 1. POSITION FLOOR DRAINS FOR EASY ACCESS AND MAINTENANCE. 2. SET FLOOR DRAINS BELOW ELEVATION OF SURROUNDING FINISHED FLOOR TO ALLOW FLOOR DRAINAGE.
- 3. INSTALL FLOOR DRAIN FLASHING COLLAR OR FLANGE SO NO LEAKAGE OCCURS BETWEEN DRAIN AND ADJOINING FLOORING. MAINTAIN INTEGRITY OF WATERPROOF MEMBRANES
- 4. INSTALL INDIVIDUAL TRAPS FOR FLOOR DRAINS CONNECTED TO SANITARY BUILDING DRAIN, UNLESS OTHERWISE INDICATED.
- F. INSTALL ROOF FLASHING ASSEMBLIES ON SANITARY STACK VENTS AND VENT STACKS THAT EXTEND THROUGH ROOF. G. INSTALL VENT CAPS ON EACH VENT PIPE PASSING THROUGH ROOF.
- 1. PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT OR DEBRIS AND PREVENT DAMAGE FROM TRAFFIC OR CONSTRUCTION WORK.
- 2. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY OR WHEN WORK

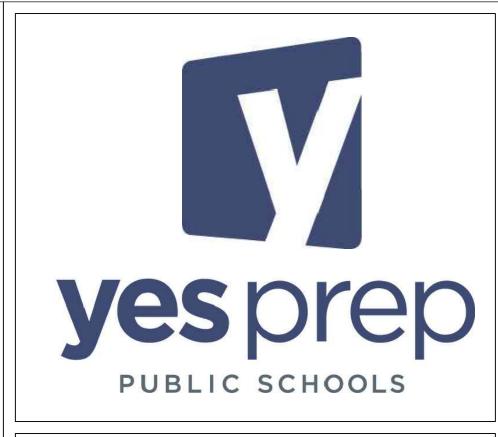
223300 DOMESTIC WATER HEATERS

- A. PROVIDE WATER HEATER IN ACCORDANCE WITH SCHEDULE ON DRAWINGS.
- 1. INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 2. PROVIDE WITH INTEGRAL HEAT TRAPS. 3. PROVIDE THERMOSTATIC MIXING VALVE TO LIMIT WATER TEMPERATURE.
- 4. PROVIDE EXPANSION TANK.
- 5. DRAIN PAN: CORROSION-RESISTANT METAL WITH RAISED EDGE. 6. INSTALL SHUT-OFF VALVES ON DOMESTIC COLD AND HOT WATER.
- 7. FILL WATER HEATER WITH WATER. 8. CHARGE EXPANSION TANKS WITH AIR.
- 9. WHERE INSTALLING PIPING ADJACENT TO WATER HEATER, ALLOW SPACE FOR SERVICE AND MAINTENANCE OF WATER HEATER. ARRANGE PIPING FOR EASY REMOVAL OF WATER HEATER.
- C. TESTS AND INSPECTIONS 1. AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST
- UNTIL NO LEAKS EXIST. 2. AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER
- 3. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING
- CONTROLS AND EQUIPMENT. D. PREPARE TEST AND INSPECTION REPORTS.

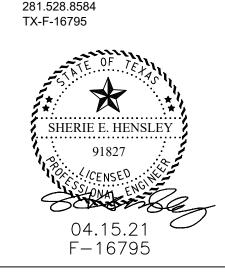
METHODS AND MATERIALS.

224000 PLUMBING FIXTURES

- A. PROVIDE LOW WATER CONSUMPTION FIXTURES COMPLYING WITH TAS/ADA IN ACCORDANCE WITH
- SCHEDULE ON DRAWINGS. B. INSTALL LEVEL AND PLUMB.
- C. PROVIDE FIXTURE CARRIER SUPPORT FOR WALL-HUNG FIXTURES.
- D. INSTALL TOILET SEATS ON WATER CLOSETS. E. WHERE INSTALLING PIPING ADJACENT TO FIXTURES, ALLOW SPACE FOR SERVICE AND MAINTENANCE. F. ADJUSTING
- 1. OPERATE AND ADJUST FIXTURES AND CONTROLS. 2. ADJUST WATER PRESSURE TO FLUSHOMETER VALVES TO PRODUCE PROPER FLOW.
- G. CLEANING AND PROTECTION 1. CLEAN FIXTURES AND FITTINGS WITH MANUFACTURER'S RECOMMENDED CLEANING
 - 2. INSTALL PROTECTIVE COVERING FOR INSTALLED FIXTURES AND FITTINGS. 3. DO NOT ALLOW USE OF FIXTURES FOR TEMPORARY FACILITIES.







SPRING, TEXAS 77386

No.	Description	Date
	ISSUED FOR PRICING	04/20/21

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

PLUMBING **SCHEDULES**

21034 Project Number 03/24/21 SEH Drawn By SEH Checked By P201

Scale **AS NOTED**

d. NPS 2-1/2: 108 INCHES WITH 1/2-INCH ROD

1. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN

SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF

THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.

PLUMBING RISERS

220000 PLUMBING BASIC REQUIREMENTS

- A. MINIMUM STANDARDS FOR ALL WORK SHALL BE CITY OF HOUSTON AMENDMENTS TO 2012
- C. REFERENCES: THE STANDARDS MENTIONED HEREIN WILL BE REFERRED TO IN THE DESIGN OF PLUMBING SYSTEMS. THE ENGINEER WILL SELECT APPROPRIATE SECTIONS OF THE STANDARD TO BE APPLIED IN ACCORDANCE WITH ESTABLISHED ENGINEERING PRINCIPLES AND PRACTICES.
- AMERICANS WITH DISABILITIES ACT (ADA) TEXAS ACCESSIBILITY STANDARDS (TAS) D. SITE CONDITIONS: BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND
- DETERMINE ANY CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE E. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A
- COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- G. DO NOT SCALE FROM THE ENGINEERED DRAWINGS. REFER TO THE DIMENSIONED DRAWINGS
- THE INSTALLATION OF WORK AND PAY ALL INCIDENTAL CHARGES. I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL TESTS NECESSARY TO PREVENT CONCEALMENT OF DEFECTIVE OR IMPROPER WORK. UPON COMPLETION OF WORK
- 220517 SLEEVES AND SLEEVE SEAL SYSTEMS FOR PLUMBING PIPING
 - FLOORS AND WALLS.
 - C. INSTALL SLEEVE—SEAL SYSTEMS IN SLEEVES FOR ALL PENETRATIONS IN EXTERIOR WALLS AND SLABS-ON-GRADE. D. WALL AND FLOOR SLEEVES SHALL COMPLY WITH THE FOLLOWING:
 - PVC PIPE SLEEVES SHALL COMPLY WITH ASTM 1785, SCHEDULED 40.

- 1. CLEAN AND DRY SURFACES TO RECEIVE INSULATION.
- 6. CUT INSULATION IN MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75
- - 1. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 61
- B. INSTALLATION
- 5. INSTALL PIPING FREE OF SAGS AND BENDS. 6. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
- 8. EACH WATER SUPPLIED FIXTURE AND PIECE OF EQUIPMENT SHALL BE PROVIDED WITH
- d. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS
- SPACING AND MINIMUM DIAMETERS: a. NPS 3/4 AND SMALLER: 60 INCHES WITH 3/8-INCH ROD
- 5. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET.
- 1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT 2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS,

LIGHTING CONTROLS

- 1. PROVIDE CONTROLS COMPATIBLE WITH EXISTING. 2. CLASSROOMS PROVIDED WITH CEILING MOUNT OCCUPANCY SENSORS AND KEYPAD/MANUAL CONTROL. CLASSROOMS SHALL BE PROGRAMMED TO ALLOW FOR TEACHING ROW TO BE SWITCHED
- INDEPENDENTLY, MANUAL ON, AUTOMATIC OFF, EMERGENCY FIXTURES CONNECTED TO NORMAL POWER AND SWITCHED WITH CORRESPONDING NON EMERGENCY FIXTURES. BATTERY BACKUP UPON FAILURE OF NORMAL POWER.

ENERGY CODE COMPLIANCE REQUIREMENTS

COMMISSIONING PLAN A. FUNCTIONAL PERFORMANCE TESTING: EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL PROVIDE EVIDENCE THAT THE LIGHT CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S

INSTRUCTIONS.

FOLLOWING:

- 1. OCCUPANT SENSOR CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED: a. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN
- WITH MANUFACTURER RECOMMENDATIONS. b. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED. c. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10%, BUT IN NO CASE LESS THAN 1%, OF EACH COMBINATION SHALL BE TESTED. WHERE 30% OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL
- COMBINATIONS SHALL BE TESTED d. FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING: d.a. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT
- d.b. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME. d.c. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE. d.d.FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.

d.e. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY

- 2. TIME SWITCH CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED: a. CONFIRM THAT THE TIME SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY,
- WEEKEND, AND HOLIDAY SCHEDULES. b. PROVIDE DOCUMENTATION TO THE OWNER OF TIME SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SETUP AND PREFERENCE PROGRAM SETTINGS.
- c. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH. d. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED. e. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS. f. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING: f.a. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
- f.b. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS q. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING: g.a. NONEXEMPT LIGHTING TURNS OFF.
- g.b. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED 3. DAYLIGHT RESPONSIVE CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
- a. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED, AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS. b. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
- c. THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. B. COMMISSIONING REPORT
- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE A REPORT OF THE ABOVE COMMISSIONING TEST PROCEDURES AND RESULTS AND PROVIDE TO GENERAL CONTRACTOR TO COMPILE WITH MECHANICAL AND PLUMBING REPORTS.
- 2. REPORT SHALL IDENTIFY ANY DEFICIENCIES THAT HAVE NOT YET BEEN CORRECTED, DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS, AND CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS. 3. GENERAL CONTRACTOR SHALL PROVIDE COMPILED REPORT TO OWNER/REPRESENTATIVE.
- DOCUMENTATION REQUIREMENTS A. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE FOLLOWING DOCUMENTS SHALL BE PROVIDED TO THE OWNER: 1. MANUALS: OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED AND INCLUDE THE
- a. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS. b. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING, AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED
- c. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS. d. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
- e. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.

TYPICAL MOUNTING HEIGHTS

THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHTS OF ALL FIXTURES, DEVICES, AND OUTLETS WITH ARCHITECTURAL PLANS AND ELEVATIONS. SPECIAL MOUNTING HEIGHTS ARE SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.

LIGHT FIXTURES, INTERIOR	WALL MOUNTED, SCONCE	6'-6"	
	WALL MOUNTED, ABOVE MIRROR	0'-8" ABOVE TOP OF COUNTER	
	WALL MOUNTED, ABOVE DOOR	CENTER BETWEEN FRAME & CEILING	
	WALL MOUNTED, ABOVE STAIR LANDING IN SOFFIT	7'-0" (SEE ARCH DETAIL)	
LIGHT FIXTURES, EXTERIOR	WALL MOUNTED, BESIDE DOOR	6'-0" (SEE ARCH DETAIL)	
	STEP MOUNTED	6'-0" (SEE ARCH DETAIL)	
	WALL MOUNTED, NEAR GRADE	6'-0" (SEE ARCH DETAIL)	
	WALL MOUNTED, NEAR ROOF	2'-6" BELOW PARAPET	
SWITCHES	WALL SWITCHES AND DIMMERS	3'-10"	
	MANUAL MOTOR STARTERS	3'-10"	
RECEPTACLES	WALL	1'-6"	
	ABOVE COUNTER WITHOUT BACKSPLASH	0'-8" ABOVE TOP OF COUNTER	
	ABOVE COUNTER WITH BACKSPLASH	0'-4" ABOVE TOP OF BACKSPLASH	
	WALL HUNG SINKS (GFCI)	3'-6"	
	CLOCK	1'-0" BELOW CEILING	
TELEPHONE	DESK/TABLE	1'-6"	
	WALL TELEPHONE	3'-10"	
	ABOVE COUNTER WITHOUT BACKSPLASH	0'-8" ABOVE TOP OF COUNTER	
	ABOVE COUNTER WITH BACKSPLASH	0'-4" ABOVE TOP OF BACKSPLASH	
DATA	WALL	1'-6"	
	ABOVE COUNTER WITHOUT BACKSPLASH	0'-8" ABOVE TOP OF COUNTER	
	ABOVE COUNTER WITH BACKSPLASH	0'-4" ABOVE TOP OF BACKSPLASH	
ELECTRICAL EQUIPMENT	SAFETY SWITCH	6'-6" TO TOP OF ENCLOSURE	
	MOTOR STARTER	6'-6" TO TOP OF ENCLOSURE	
	PANEL BOARD	6'-6" TO TOP OF ENCLOSURE	
	COMMUNICATIONS CABINET	6'-6" TO TOP OF ENCLOSURE	

DIVISION 26 - ELECTRICAL

- 260000 ELECTRICAL BASIC REQUIREMENTS A. MINIMUM STANDARDS FOR ALL WORK SHALL BE CITY OF HOUSTON AMENDMENTS TO THE 2020 NATIONAL ELECTRICAL CODE. 2015 INTERNATIONAL ENERGY CONSERVATION CODE, AND 2012 INTERNATIONAL
- BUILDING CODE. B. REFERENCES: THE STANDARDS MENTIONED HEREIN WILL BE REFERRED TO IN THE DESIGN OF ELECTRICAL SYSTEMS. THE ENGINEER WILL SELECT APPROPRIATE SECTIONS OF THE STANDARD TO BE APPLIED IN ACCORDANCE WITH ESTABLISHED ENGINEERING PRINCIPLES AND PRACTICES. 1. APPLICABLE SECTIONS OF NFPA
- 3. TEXAS ACCESSIBILITY STANDARDS (TAS) C. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID DATE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING INSTALLATIONS. DETERMINE THE EXTENT OF THE NEW WORK TO PERFORM THIS CONTRACT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COMPLY

WITH THIS REQUIREMENT OR LACK OF FAMILIARIZATION

2. AMERICANS WITH DISABILITIES ACT (ADA)

- WITH EXISTING INSTALLATIONS. D. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- E. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES INCLUDING ARCHITECTURAL,
- STRUCTURAL, CIVIL, MECHANICAL, AND PLUMBING. F. DO NOT SCALE FROM THE ENGINEERED DRAWINGS. REFER TO THE DIMENSIONED DRAWINGS OF THE ARCHITECT FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC.
- G. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF WORK AND PAY ALL INCIDENTAL
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL TESTS NECESSARY TO PREVENT CONCEALMENT OF DEFECTIVE OR IMPROPER WORK. UPON COMPLETION OF WORK, TEST INSTALLATION THOROUGHLY AND RENDER IT FROM MALFUNCTIONS, SAFETY ISSUES, AND IMPROPER CONNECTIONS. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION. REMOVE ALL EXCESS DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- UNBLEMISHED AND UL LISTED EXACT AS NOTED. K. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE TIME OF OWNER ACCEPTANCE. WORK OR EQUIPMENT FOUND TO BE SUB-STANDARD OR FAULTY SHALL BE CORRECTED DURING THESE PERIODS AT NO COST TO OWNER.

J. ALL MATERIAL SHALL BE NEW, UNDAMAGED, AND

- PROVIDE TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION POWER AND REMOVE SUCH TEMPORARY SERVICE WHEN WORK IS COMPLETE.
- M. ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE F.A. SYSTEM TO MEET LOCAL FIRE MARSHALL REQUIREMENTS AND OBTAIN ALL LOCAL PERMITS. RELOCATE AND MATCH EXISTING FIRE ALARM EQUIPMENT AS REQUIRED.

260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND

- A. ALL WIRE SHALL BE COPPER COMPLYING WITH ASTM B3 FOR BARE ANNEALED TYPE AND ASTM B8 FOR STRANDED CONDUCTORS. MINIMUM SIZE NO. 12 AWG TYPE THHN OR SIMILAR.
- B. ALL WIRING SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND
- C. NO WIRE SMALLER THAN #12 FEEDER WIRE SHALL BE THW OR THWN INSULATED. FIXTURE WIRE SHALL BE TYPE PF.
- E. CONDUCTOR INSULATION: 1. TYPE NM: COMPLY WITH UL 83 AND UL 719. 2. TYPES RHH AND RHW-2: COMPLY WITH UL 44. 3. TYPES USE-2 AND SE: COMPLY WITH UL 854. 4. TYPES THHN AND THWN-2: COMPLY WITH UL 83. 5. TYPES THW AND THW-2: COMPLY WITH NEMA

WC-70/ICEA S-95-658 AND UL 83.

- 6. TYPE XHHW-2: COMPLY WITH UL 44. F. CONNECTORS AND SPLICES: FACTORY-FABRICATED CONNECTORS, SPLICES AND LUGS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED. LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND
- G. JACKETED CABLE CONNECTORS: FOR STEEL AND ALUMINUM JACKETED CABLES, ZINC DIE-CAST WITH SET SCREWS, DESIGNED TO CONNECT CONDUCTORS SPECIFIED IN THIS SECTION.
- H. LUGS: ONE PIECE, SEAMLESS, COPPER, DESIGNED TO TERMINATE CONDUCTORS SPECIFIED IN THIS SECTION. FEEDERS AND BRANCH CIRCUITS: SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND
- SERVICE ENTRANCE: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY; TYPE USE, SINGLE CONDUCTOR IN RACEWAY; TYPE SE, MULTICONDUCTOR
- K. EXPOSED FEEDERS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY; TYPE AC, ARMORED CABLE; TYPE MC, METAL—CLAD CABLE; TYPE NM, NONMETALLIC-SHEATHED CABLE.
- FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE AC, ARMORED CABLE; TYPE MC, METAL-CLAD CABLE; TYPE NM, NONMETALLIC-SHEATHED CABLE.
- M. EXPOSED BRANCH CIRCUITS: REFER TO "FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS.' N. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: REFER TO "FEEDERS CONCEALED IN
- CEILINGS, WALLS, AND PARTITIONS.' O. CORD DROPS AND PORTABLE APPLIANCE CONNECTIONS: TYPE SO, HARD SERVICE CORD WITH STAINLESS-STEEL, WIRE MESH, STRAIN RELIEF DEVICE
- AT TERMINATIONS TO SUIT APPLICATION. P. PERFORM TESTING IN ACCORDANCE WITH APPLICABLE NATIONAL ELECTRICAL TESTING ASSOCIATION STANDARDS TO ENSURE A SAFE INSTALLATION THAT OPERATES AS

260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- A. ALL WORK SHALL BE GROUNDED TO COMPLY WITHOUT EXCEPTION WITH ALL PROVISIONS OF ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. ALL CIRCUITS SHALL CONTAIN INSULATED GROUNDING CONDUCTOR, ALL RECEPTACLES SHALL HAVE AN INSULATED GREEN GROUNDING CONDUCTOR TERMINATED ON THE DEVICE GROUND SCREW.
- B. COMPLY WITH IEEE C2 GROUNDING REQUIREMENTS FOR UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS. C. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.
- D. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.
- E. BARE COPPER CONDUCTORS: 1. SOLID CONDUCTORS: ASTM B3. 2. STRANDED CONDUCTORS: ASTM B8.
- 3. TINNED CONDUCTORS: ASTM B33. 4. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO.
- 17 AWG CONDUCTOR, 1-1/4" IN DIAMETER. 5. BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG,

- STRANDED CONDUCTOR.
- 6. BONDING JUMPER: COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES; 1-5/8" WIDE AND 1/16" THICK. 7. TINNED BONDING JUMPER: TINNED-COPPER TAPE. BRAIDED CONDUCTORS TERMINATED WITH COPPER
- FERRULES; 1-5/8" WIDE AND 1/16" THICK. CONNECTORS: LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY AND IN COMPLIANCE WITH THE FOLLOWING: 1. BOLTED CONNECTORS (CONDUCTORS AND PIPES): COPPER OR COPPER ALLOY.
- 2. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.
- 3. BUS-BAR CONNECTORS: MECHANICAL TYPE, CAST SILICON BRONZE, SOLDERLESS COMPRESSION TYPE WIRE TERMINALS, AND LONG-BARREL, TWO-BOLT CONNECTION TO GROUND BUS BAR.
- F. GROUNDING ELECTRODES: COPPER-CLAD STEEL RODS, 3/4" X 10'.
- G. GROUNDING AND BONDING FOR PIPING: 1. METAL WATER SERVICE PIPE: INSTALL INSULATED COPPER GROUNDING CONDUCTORS, IN CONDUIT, FROM BUILDING'S MAIN SERVICE EQUIPMENT, OR GROUNDING BUS, TO MAIN METAL WATER SERVICE ENTRANCES TO BUILDING. CONNECT GROUNDING CONDUCTORS TO MAIN METAL WATER SERVICE PIPES; USE A BOLTED CLAMP CONNECTOR OR BOLT A LUG-TYPE CONNECTOR TO A PIPE FLANGE BY USING ONE OF THE LUG BOLTS OF THE FLANGE. WHERE A DIELECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING, BOND METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO
- CONDUCTOR AT EACH END. 2. WATER METER PIPING: USE BRAIDED-TYPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METERS. CONNECT TO PIPE WITH A BOLTED CONNECTOR.
- 3. BOND EACH ABOVE GROUND PORTION OF GAS PIPING SYSTEM DOWNSTREAM FROM EQUIPMENT SHUTOFF VALVE.
- 4. PERFORM TESTS AND INSPECTIONS. INSPECT PHYSICAL AND MECHANICAL CONDITION. VERIFY TIGHTNESS OF ACCESSIBLE, BOLTED, ELECTRICAL CONNECTIONS WITH A CALIBRATED TORQUE WRENCH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

- A. STEEL SLOTTED SUPPORT SYSTEMS: COMPLY WITH MFMA-4 FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY.
- B. CONDUIT AND CABLE SUPPORT DEVICES: STEEL HANGERS, CLAMPS, AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY OR CABLE TO BE SUPPORTED.
- C. SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING WEDGING PLUGS OR PLUGS FOR NONARMORED ELECTRICAL CONDUCTOR OR CABLES IN RISER CONDUITS. PLUGS SHALL HAVE NUMBER, SIZE, AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED, BODY SHALL BE MADE OF MALLEABLE IRON.
- D. STRUCTURAL STEEL FOR FABRICATED SUPPORTS AND RESTRAINTS: ASTM A36/A36M STEEL PLATES. SHAPES. AND BARS; BLACK AND GALVANIZED. E. MOUNTING, ANCHORING, AND ATTACHMENT COMPONENTS: ITEMS FOR FASTENING ELECTRICAL ITEMS
- OR THEIR SUPPORTS TO BUILDING SURFACES INCLUDE THE FOLLOWING: POWDER-ACTUATED FASTENERS: THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, STEEL, OR WOOD, WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS
- WHERE USED. MECHANICAL EXPANSION ANCHORS: INSERT-WEDGE-TYPE, STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
- 3. CONCRETE INSERTS: STEEL OR MALLEABLE IRON, SLOTTED SUPPORT SYSTEM UNITS ARE SIMILAR TO MSS TYPE 18 UNITS AND COMPLY WITH MFMA-4 OR MSS SP-58. 4. CLAMPS FOR ATTACHMENT TO STEEL STRUCTURAL
- ELEMENTS: MSS SP-58 UNITS ARE SUITABLE FOR ATTACHED STRUCTURAL ELEMENT. 5. THROUGH BOLTS: STRUCTURAL TYPE, HEX HEAD, AND HIGH STRENGTH. COMPLY WITH ASTM A325. 6. TOGGLE BOLTS: STAINLESS STEEL SPRINGHEAD
- 7. HANGER RODS: THREADED STEEL. F. FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES: WELDED OR BOLTED STRUCTURAL STEEL SHAPES, SHOP OR FIELD FABRICATED TO FIT DIMENSIONS OF SUPPORTED EQUIPMENT. COMPLY WITH INDUSTRY—ACCEPTED STANDARDS FOR STEEL SHAPES AND PLATES.

260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

SIZE) AS SPECIFIED BELOW U.O.N.

- A. METAL CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION. B. APPLY RACEWAY PRODUCTS (MINIMUM 3/4" TRADE
 - OUTDOORS 1.1. EXPOSED: RNC, EPC-80-PVC. 1.2. CONCEALED ABOVEGROUND: EPC-80-PVC.
- 1.3. UNDERGROUND: RNC, EPC-80-PVC, DIRECT 1.4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC,
- PNEUMATIC, SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC. 1.5. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R.
- 2. INDOORS: 2.1. EXPOSED, NOT SUBJECT TO DAMAGE: EMT. 2.2. EXPOSED, SUBJECT TO DAMAGE: GRC. 2.3. CONCEALED IN CEILINGS, WALLS, AND
- PARTITIONS: EMT OR MC. 2.4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- C. IN ADDITION TO NFPA (NEC) 70 COMPLIANCE, COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS. D. SEAL ALL CONDUIT PENETRATIONS THROUGH WALLS
- WITH UL LISTED FIRE RETARDANT SEALANT. E. KEEP RACEWAYS AT LEAST 6" AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
- F. BOXES, ENCLOSURES, AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS. G. SHEET METAL OUTLET AND DEVICE BOXES: COMPLY
- WITH NEMA OS1 AND UL 514A. H. CAST-METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA FB1, FERROUS ALLOY, TYPE FD, WITH GASKETED COVER.
- I. NONMETALLIC OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS2 AND UL 514C. J. METAL FLOOR BOXES: CAST METAL, FULLY ADJUSTABLE, LISTED AND LABELED AS DEFINED IN

- NFPA (NEC) 70.
- K. NONMETALLIC FLOOR BOXES: NONADJUSTABLE, ROUND, LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70. L. LUMINAIRE OUTLET BOXES: NONADJUSTABLE, DESIGNED FOR ATTACHMENT OF LUMINAIRE WEIGHING 50 LB. OUTLET BOXES DESIGNED FOR ATTACHMENT OF LUMINAIRES WEIGHING MORE THAN 50 LB. SHALL BE LISTED AND MARKED FOR THE MAXIMUM ALLOWABLE
- WEIGHT. M. PADDLE FAN OUTLET BOXES: NONADJUSTABLE, DESIGNED FOR ATTACHMENT OF PADDLE FAN WEIGHING
- 70 LB, LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70. N. SMALL SHEET METAL PULL AND JUNCTION BOXES:
- COMPLY WITH NEMA OS1 O. CAST-METAL, ACCESS, PULL, AND JUNCTION BOXES: COMPLY WITH NEMA FB1 AND UL 1773, GALVANIZED,
- CAST IRON WITH GASKETED COVER. P. HINGED-COVER ENCLOSURES: COMPLY WITH UL 50 AND NEMA 250, TYPE 1 OR TYPE 3R WITH CONTINUOUS HINGE COVER WITH FLUSH LATCH U.O.N.
- Q. CABINETS: 1. NEMA 250, TYPE 1 OR TYPE 3R, GALVANIZED STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE FRONT, FINISHED INSIDE AND OUT
- WITH MANUFACTURER'S STANDARD ENAMEL. 2. HINGED DOOR IN FRONT COVER WITH FLUSH
- LATCH AND CONCEALED HINGE. KEY LATCH TO MATCH PANELBOARDS. 4. METAL BARRIERS TO SEPARATE WIRING OF
- DIFFERENT SYSTEMS AND VOLTAGE. 5. ACCESSORY FEET WHERE REQUIRED FOR
- FREESTANDING EQUIPMENT. 6. NONMETALLIC CABINETS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING

- A. PROVIDE U.L. LISTED FIRESTOP SEALING SYSTEMS AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND B. WALL SLEEVES SHALL COMPLY WITH THE FOLLOWING:
- 1. STEEL PIPE SLEEVES SHALL COMPLY WITH ASTM A53/A53M, TYPE E, GRADE B, SCH. 40, ZINC COATED, PLAIN ENDS. 2. CAST-IRON PIPE SLEEVES SHALL BE CAST OR FABRICATED "WALL PIPE," EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATERSTOP U.O.N.

260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

- A. COMPLY WITH ASME A13.1, IEEE C2, NFPA (NEC) 70, 29 CFR 1910.144, 29 CFR 1910.145, ANSI Z535.4 (SAFETY SIGNS AND LABELS).
- B. ADHESIVE-ATTACHED LABELING MATERIALS, INCLUDING LABEL STOCKS, LAMINATING ADHESIVES, AND INKS USED BY LABEL PRINTERS, SHALL COMPLY WITH UL C. ACCESSIBLE RACEWAYS AND METAL-CLAD CABLES. 600

V OR LESS, FOR SERVICE, FEEDER, AND BRANCH

- CIRCUITS, MORE THAN 30 A AND 120 V TO GROUND: IDENTIFY WITH SELF-ADHESIVE VINYL LABELS AT 30' MAXIMUM INTERVALS. D. ACCESSIBLE RACEWAYS AND CABLES WITHIN BUILDINGS: IDENTIFY THE COVERS OF EACH JUNCTION AND PULL
- BOX WITH SELF-ADHESIVE VINYL LABELS CONTAINING THE WORD "POWER" AND SYSTEM VOLTAGE. E. POWER-CIRCUIT CONDUCTOR IDENTIFICATION, 600 V OR LESS: WITHIN VAULTS, PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE COLOR-CODING
- CONDUCTOR TAPE TO IDENTIFY THE PHASE. USE INDUSTRY STANDARD COLORS FOR UNGROUNDED SERVICE FEEDER AND BRANCH—CIRCUIT CONDUCTORS. F. CONTROL-CIRCUIT CONDUCTOR IDENTIFICATION: FOR CONDUCTORS AND CABLES IN PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE WRITE-ON
- TAGS WITH THE CONDUCTOR OR CABLE DESIGNATION, ORIGIN, AND DESTINATION. G. CONTROL-CIRCUIT CONDUCTOR TERMINATION IDENTIFICATION: PROVIDE HEAT-SHRINK PREPRINTED
- TUBES WITH THE CONDUCTOR DESIGNATION. H. CONDUCTORS TO BE EXTENDED IN THE FUTURE: ATTACH WRITE-ON TAGS MARKER TAPE TO CONDUCTORS AND LIST SOURCE.

I. AUXILIARY ELECTRICAL SYSTEMS CONDUCTOR

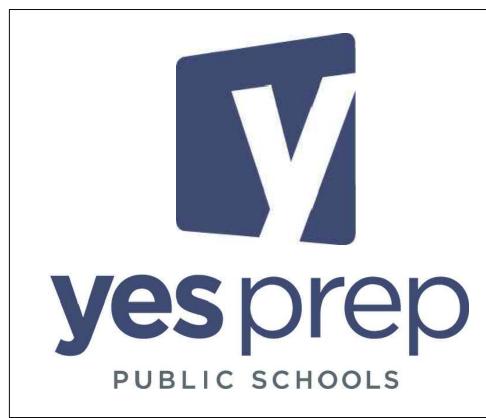
- IDENTIFICATION: IDENTIFY FIELD-INSTALLED ALARM, CONTROL, AND SIGNAL CONNECTIONS. J. LOCATIONS OF UNDERGROUND LINES: IDENTIFY WITH UNDERGROUND-LINE WARNING TAPE FOR POWER, LIGHTING, COMMUNICATION, CONTROL WIRING, AND
- OPTICAL-FIBER CABLE. K. WORKSPACE INDICATION: INSTALL FLOOR MARKING TAPE TO SHOW WORKING CLEARANCES IN THE DIRECTION OF ACCESS TO LIVE PARTS. WORKSPACE SHALL COMPLY WITH NFPA (NEC) 70 AND 29 CFR 1926.403 U.O.N. . WARNING LABELS FOR INDOOR CABINETS, BOXES, AND
- ENCLOSURES FOR POWER AND LIGHTING: SELF-ADHESIVE WARNING LABELS. M. ARC FLASH WARNING LABELING: SELF-ADHESIVE THERMAL TRANSFER VINYL LABELS. COMPLY WITH NFPA
- 70E AND ANSI Z535.4. N. OPERATING INSTRUCTION SIGNS: INSTALL INSTRUCTION SIGNS TO FACILITATE PROPER OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND ITEMS TO
- WHICH THEY CONNECT O. EMERGENCY OPERATING INSTRUCTION SIGNS: INSTALL INSTRUCTION SIGNS WITH WHITE LEGEND ON A RED BACKGROUND WITH MINIMUM 3/8" HIGH LETTERS FOR EMERGENCY INSTRUCTIONS AT EQUIPMENT USED FOR
- POWER TRANSFER. P. EQUIPMENT IDENTIFICATION LABEL: ON EACH UNIT OF EQUIPMENT, INSTALL A UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS, SCHEDULES, AND OPERATION AND MAINTENANCE MANUAL.

260923 LIGHTING CONTROL DEVICES

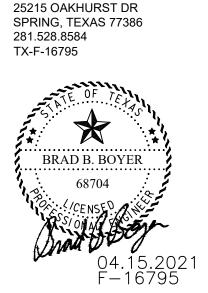
- A. OCCUPANCY SENSOR SIMILAR TO ACUITY SENSOR SWITCH CM10-PDT CEILING MOUNT (DUAL TECHNOLOGY), POWER PACK PP20 AND SPODM
- (3X-MULTI-WAY) MANUAL WALL SWITCH. B. OCCUPANCY SENSOR SIMILAR TO ACUITY SENSOR SWITCH WSX-PDT (DUAL TECHNOLOGY) WALL MOUNT WITH MANUAL OVERRIDE SWITCH.
- C. LIGHTING CONTROL PANEL SIMILAR TO ACUITY BLUE BOX LT GR14XX. ALLOW MINIMUM OF TWO FUTURE CIRCUITS. D. AREAS WITHOUT OCCUPANCY SENSORS SHALL BE ON TIME SWITCH CONTROL (LIGHTING CONTROL PANEL)
- SWITCHING). E. DUAL SWITCHING: MANUAL WALL SWITCH CONNECTED TO LIGHTING CONTROL PANEL. LIGHT REDUCTION CONTROLS WITH MULTIPLE SWITCHES REDUCING THE

WITH LIGHTING REDUCTION CONTROLS (DUAL

- CONNECTED LOAD BY AT LEAST 50%. H. INSTALLATION 1. OCCUPANCY SENSORS AND POWER PACKS: INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MULTIPLE SENSORS CAN BE CONNECTED TO A SINGLE POWER PACK.
- 2. ADJUST OCCUPANCY SENSORS FOR COMPLETE COVERAGE. 3. OCCUPANCY SENSORS TO BE MANUAL ON AND
- AUTOMATIC OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE. FULL AUTOMATIC ON IS PERMITTED IN PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCES AND LOBBIES.







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No.	Description	Date
	ISSUED FOR PRICING	04/20/21

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

ELECTRICAL **NOTES**

21034 Project Number 03/24/21 Drawn By Checked By

E000

Scale

LIGHTING GENERAL NOTES

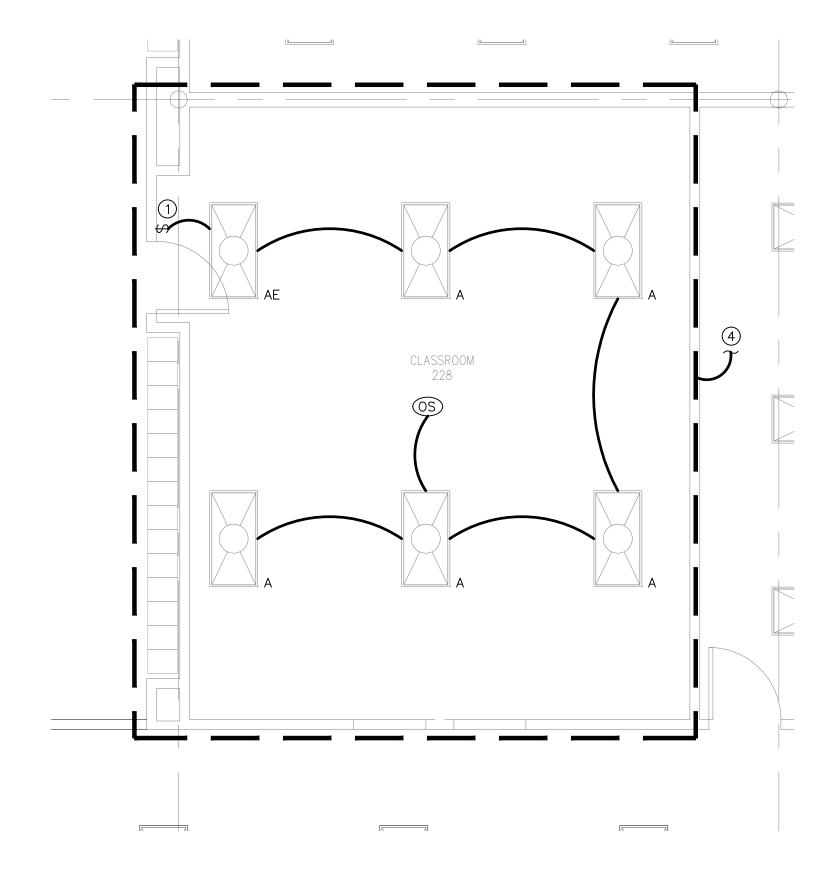
- FIELD VERIFY ALL EXISTING CONDITIONS.
 CONNECT ALL EXIT AND EMERGENCY LIGHTS TO NEAREST LIGHTING CIRCUITS.
- 3. COORDINATE LOCATIONS OF ALL LIGHT SWITCHES WITH
- 4. PROVIDE EMERGENCY LIGHTING TO PROVIDE MINIMUM 1 FC ALONG ALL EGRESS PATHS. 5. EXISTING DESIGNATED WITH (E). RELOCATED DESIGNATED

LIGHTING KEY NOTES

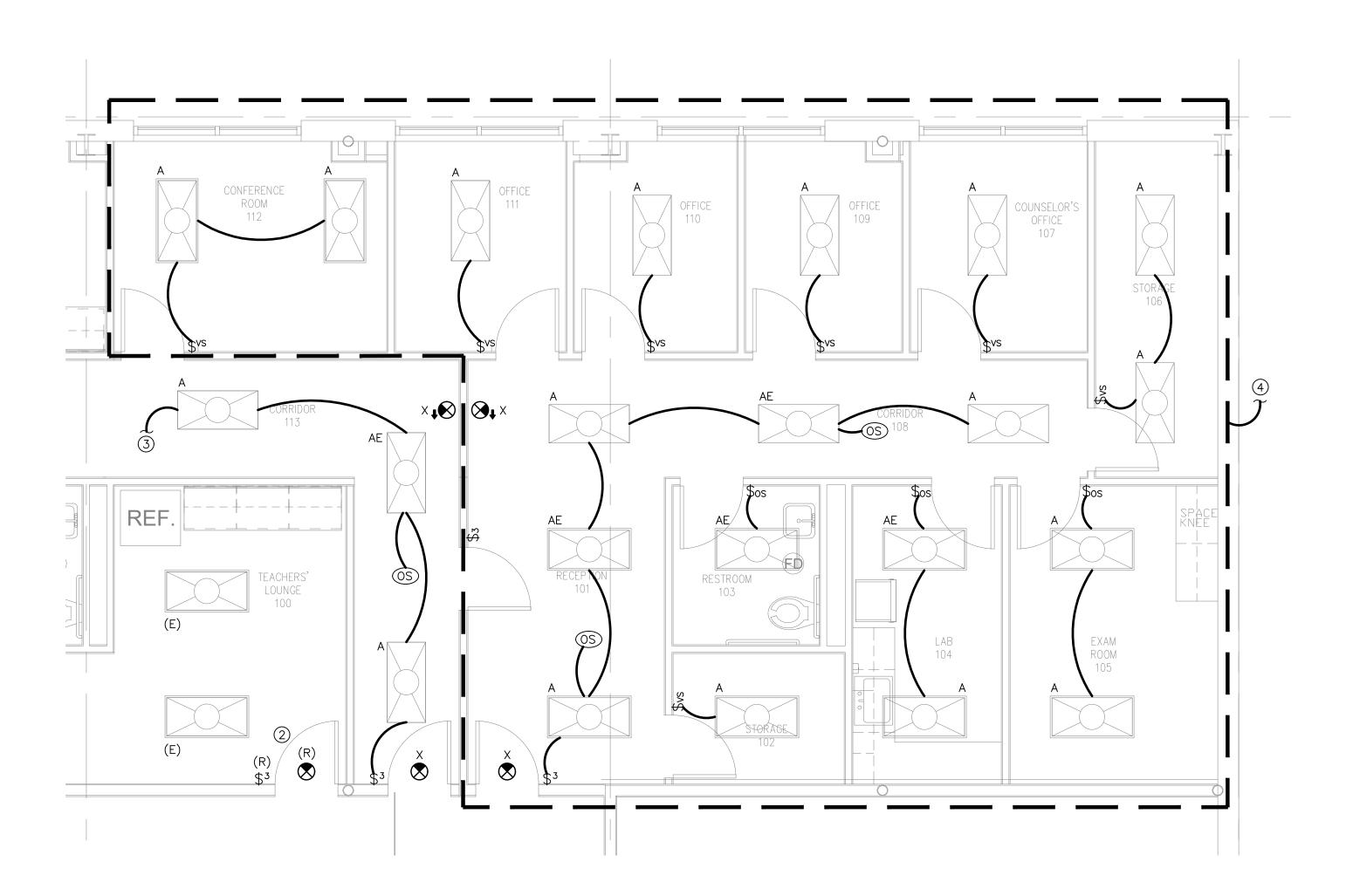
WITH (R).

- 1. OCCUPANCY SENSOR CEILING MOUNT WITH WALL
- 2. RELOCATE EXISTING SWITCH AND EXIT SIGN IN TEACHER'S LOUNGE TO COORDINATE WITH NEW DOOR
- 3. PROVIDE NEW LIGHTING CONTROLS AS SHOWN. CONNECT TO EXISTING CORRIDOR CONTROLS. REUSE
- EXISTING LIGHTING CIRCUIT. DO NOT EXCEED 16 AMPS ON ANY 20A/1P CIRCUIT. 4. PROVIDE NEW LIGHTING CONTROLS AS SHOWN FOR SCOPE INSIDE DASHED BOX. REUSE EXISTING LIGHTING CIRCUIT. DO NOT EXCEED 16 AMPS ON ANY 20A/1P CIRCUIT.

TYPE A/AE: REUSE EXISTING LIGHTS OR PRÓVIDE NEW TO MATCH EXISTING.



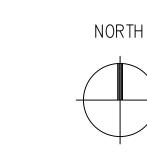








FIRST FLOOR KEYPLAN







No.	Description	Date
	ISSUED FOR PRICING	04/20/2

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

10535 HARWIN DRIVE HOUSTON, TEXAS 77036

LIGHTING PLAN

	4
Checked By	BBI
Drawn By	DK
Date	03/24/2
Project Number	2103

POWER GENERAL NOTES

- 1. FIELD VERIFY ALL EXISTING CONDITIONS.
- 2. ALL EXISTING POWER AND DATA DESIGNATED WITH (E).
 3. ALL RECEPTACLES AT RESTROOMS AND WITHIN 6FT OF
- SINKS SHALL BE GFI.

 4. ALL RECEPTACLES SHALL BE 20 AMP UNLESS NOTED OTHERWISE. PLUG AS INDICATED IN SCHEDULE OR AS
- PROVIDED BY MANUFACTURER.

 5. ALL EQUIPMENT SHALL BE LISTED FOR ITS INTENDED
- 6. CONFIRM ALL DATA LOCATIONS WITH OWNER.
 7. REMOVE ALL ABANDONED CABLING AND CONDUIT IN
- SPACE. TURN OFF UNUSED BREAKERS. UPDATE PANEL SCHEDULE AND LABELING.

 8. REUSE BREAKERS THAT ARE NOT CURRENTLY BEING USED OR BECOME AVAILABLE DUE TO DEMO. CIRCUIT

TO BE MODIFIED FOR FIELD CONDITIONS.

NUMBERS SHOWN ARE DIAGRAMMATIC AND MAY NEED

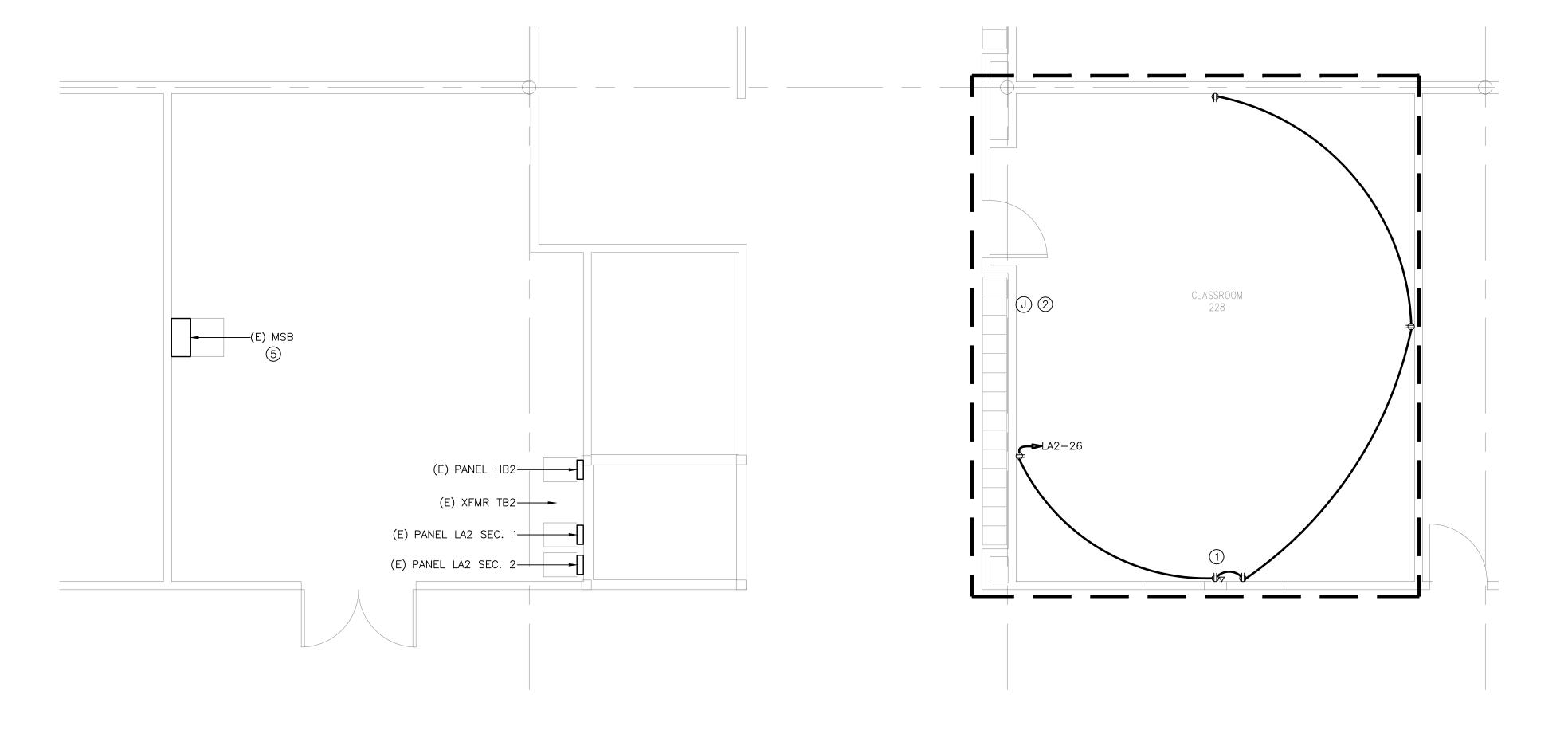
POWER KEY NOTES

- 1. RECEPTACLE AND DATA TO BE LOCATED 4" BELOW CEILING. COORDINATE EXACT LOCATION WITH WALL
- MOUNTED PROJECTOR WITH ARCHITECT.

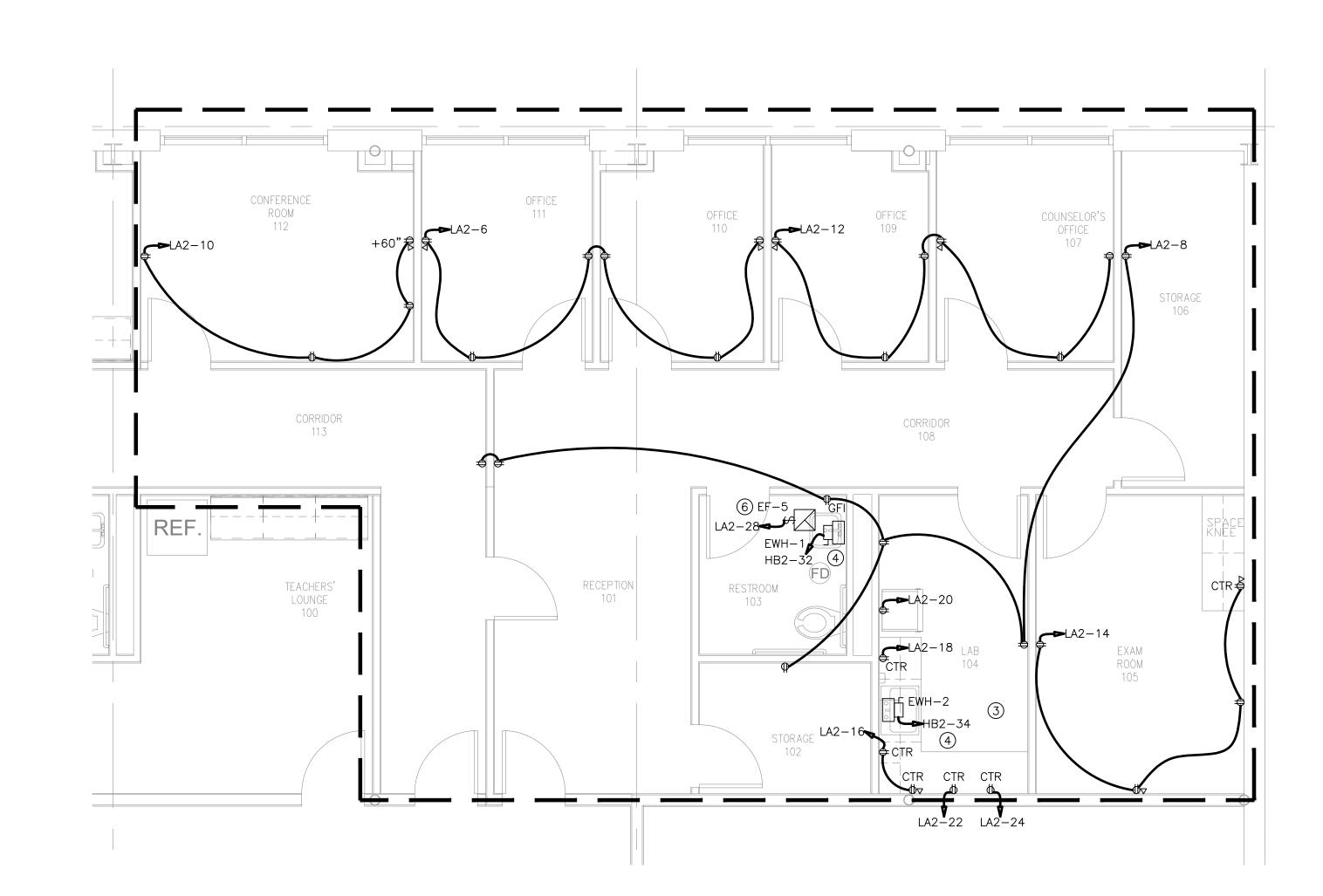
 2. DATA FOR WALL MOUNT BELL AND PA. COORDINATE EXACT LOCATION WITH ARCHITECT. CONFIRM EXACT
- REQUIREMENTS WITH OWNER.

 3. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED WITHIN 6FT. OF THE TOP INSIDE EDGE OF THE SINK SHALL HAVE GROUND-FAULT INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH 2017 NEC, ARTICLE 210.8(B)(5).
- 4. DISCONNECT SHALL BE 30A/600V/1P/N1/NF. 5. APPROXIMATE LOCATION OF MSB ON LEVEL 1. FIELD
- VERIFY EXACT LOCATION.

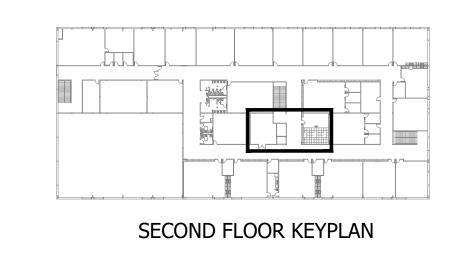
 6. INTERLOCK EXHAUST FANS WITH LIGHTING CIRCUIT SERVING RESTROOM FOR SIMULTANEOUS OPERATION. PROVIDE RELAY AND ACCESSORIES AS NECESSARY FOR COMPLETE AND OPERATING SYSTEM.

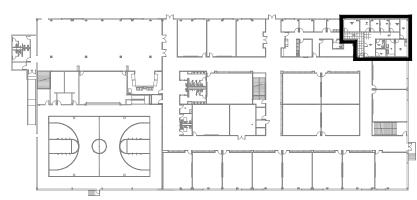






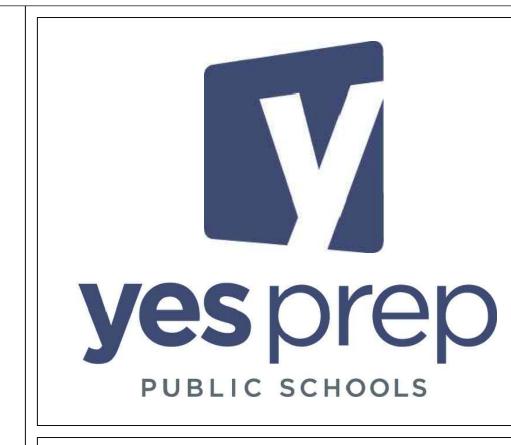






FIRST FLOOR KEYPLAN

NOINT





No.	Description	Date
ISSUE	D FOR PRICING	04/20/2

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

> 10535 HARWIN DRIVE HOUSTON, TEXAS 77036

POWER PLAN

Project Number	2103
Date	03/24/2
Drawn By	DK
Checked By	BB

E111

	ELECTRICAL SYMBOLS
SYMBOL	DESCRIPTION
\$	OCCUPANCY SENSOR SWITCH
	SINGLE POLE SWITCH
 \$³	THREE WAY SWITCH
—————————————————————————————————————	MANUAL MOTOR STARTER
${}$	NEMA 5-20R DUPLEX RECEPTACLE
	NEMA 5-20R DUPLEX RECEPTACLE (ABOVE COUNTER)
<u> </u>	· · · · · · · · · · · · · · · · · · ·
⊕GFI	NEMA 5-20R GFI RECEPTACLE
# FLR	NEMA 5-20R QUADRAPLEX RECEPTACLE
	TEOSIT TEOON NECEFTACEE
п	PEDESTAL MOUNTED NEMA 5-15R DUPLEX RECEPTACLE
riangle	DATA OUTLET 1" CONDUIT TO ABOVE CEILING
▼	VOICE OUTLET
•	COMBINATION DATA/VOICE OUTLET
	FLUSH FLOOR DATA OUTLET CIRCUIT HOMERUN—ARROWHEADS INDICATE QUANTITY OF CIRCUITS
	CONCEALED CONDUIT
/	EXTERIOR CONDUIT BELOW GRADE
,\	CONCEALED CONDUIT BELOW SLAB
<i>\</i> \'	MOTOR
	TV CABLE OUTLET
\otimes	EXIT LIGHT
F	POLE-MOUNTED SITE LAMP
$\overline{\bigcirc}$	JUNCTION BOX
<u> </u>	SMOKE DETECTOR
 	FIRE ALARM — HORN/STROBE
	EMERGENCY LIGHT - WALL PACK
2	

		LIGHT I	FIXTURE S	SCHEDU	LE	
TYPE	MANUFACTURER	MODEL	VOLTS	LAMP	DESCRIPTION	NOTES
А	LITHONIA	EPANL-2X4-4000LMHE-80 -40K-MIN10	277	39	2X4 LED	ALL
AE	LITHONIA	EPANL-2X4-4000LMHE-80 -40K-MIN10-E10WCP	277	39	2X4 LED WITH 1.5 HR BATTERY BACKUP	ALL
X	MATCH EXISTING	MATCH EXISTING	277	5	EXIT LIGHT WITH 1.5 HR BATTERY BACKUP	2,3
NOTES		1				

- 1. LIGHTING CONTROLS TO CONTROL FIXTURE WITH 0-10V DIMMING. ALL COMPONENTS OF LIGHTING CONTROL SYSTEM SHALL BE BY SAME MANUFACTURER.
- 2. COORDINATE WITH CEILING TYPE.
- 3. CONFIRM FIXTURE COLOR AND STYLE WITH ARCHITECT PRIOR TO ORDERING.
- 4. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL. WATTAGES MUST BE EQUAL OR LESS THAN THOSE SPECIFIED.

NUMBER	CONDUCTORS	COND	W/O NEUTRAL	NUMBER	CONDUCTORS	COND	W/O NEUTRAL
02	4#12, 1#12 GND	3/4"	3/4"	38	4#500 KCMIL, 1#3 GND	3 1/2"	3"
03	4#10, 1#10 GND	3/4"	3/4"	42	4#600 KCMIL, 1#2 GND	4"	3 1/2"
05	4#8, 1#10 GND	1"	3/4"	46	(2 SETS) 4#4/0, 1#2 GND	2 1/2"	2"
06	4#6, 1#8 GND	1 1/4"	1"	51	(2 SETS) 4#250 KCMIL, 1#2 GND	3"	2 1/2"
08	4#4, 1#8 GND	1 1/4"	1 1/4"	62	(2 SETS) 4#350 KCMIL, 1#1 GND	3"	3'
10	4#3, 1#8 GND	1 1/4"	1 1/4"	76	(2 SETS) 4#500 KCMIL, 1#1/0 GND	3 1/2"	3 1/2"
11	4#2, 1#6 GND	1 1/2"	1 1/4"	85	(3 SETS) 4#300 KCMIL, 1#1/0 GND	3 1/2"	3"
13	4#1, 1#6 GND	2"	1 1/2"	93	(3 SETS) 4#350 KCMIL, 1#2/0 GND	3"	3"
15	4#1/0, 1#6 GND	2"	1 1/2"	100	(3 SETS) 4#400 KCMIL, 1#2/0 GND	3 1/2"	3"
17	4#2/0, 1#6 GND	2"	2"	126	(3 SETS) 4#600 KCMIL, 1#3/0 GND	4"	3 1/2"
20	4#3/0, 1#6 GND	2-1/2"	2"	138	(3 SETS) 4#700 KCMIL, 1#3/0 GND	5"	4"
23	4#4/0, 1#4 GND	2-1/2"	2"	168	(4 SETS) 4#600 KCMIL, 1#4/0 GND	4"	3 1/2"
25	4#250 KCMIL, 1#4 GND	3"	2 1/2"	210	(5 SETS) 4#600 KCMIL, 1#250 KCMIL GND	4"	3 1/2"
28	4#300 KCMIL, 1#4 GND	3"	2 1/2"	20mv	3#3/0, 1#6 GND	3"	3"
31	4#350 KCMIL, 1#3 GND	3"	3"	30mv	3#250 KCMIL, 1#2 GND	3"	3"
33	4#400 KCMIL, 1#3 GND	3"	3"	40mv	(2 SETS) 3#3/0, 1#6 GND	3"	3"

- 1. WHERE THE FEEDER SYMBOL IS SHOWN WITH SUBSCRIPT

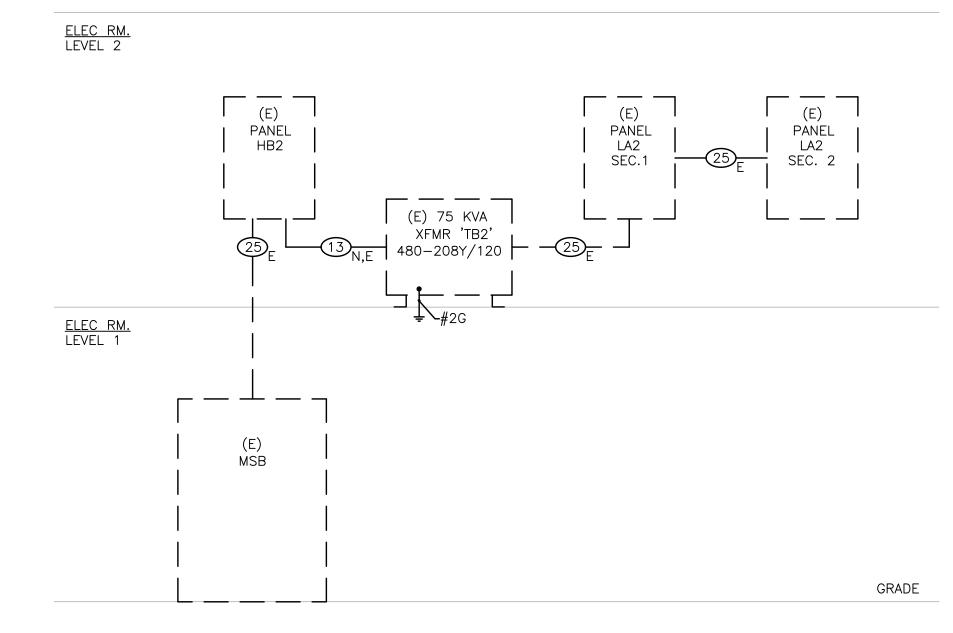
 MV = MEDIUM VOLTAGE COPPER CONDUCTOR

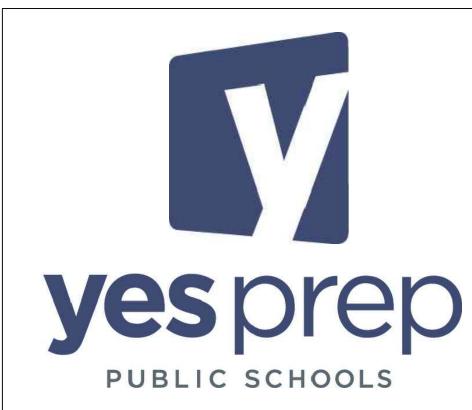
 N = NO NEUTRAL CONDUCTOR

 G = NO EQUIPMENT GROUNDING CONDUCTOR
- E = EXISTING CONDUCTORS2. 5KV MEDIUM VOLTAGE CABLE CALCULATED IN SCHEDULE 40 PVC. ALL OTHERS IN RMC.
 3. ALL CONDUIT CALCULATIONS BASED ON THHN COPPER CONDUCTORS.
- 4. AMPACITIES BASED ON 75°C TEMPERATURE RATING OF CONDUCTORS.

OVERALL	ELECTRICA	7 [LOAD		
	ANALYSIS				
LOAD			VA		
EXISTING PEAK LOAD	715,000 X 1.25	=	893,750		
NEW LOAD AT 100%		=	22,521		
	TOTAL :	=	916,271		
AT 4	AT 480V, 3Ø = 1103 AMPS				
EXISTING PA	EXISTING PANEL CAPACITY IS 2000 AMPS				
*PEAK LOAD IS FROM LAST 12 MONTHS. CONFIRMED WITH CENTERPOINT ENERGY ON 04/08/2021.					

Codo Deference	20,12,711	ALYSIS - NEW LOA	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
Code Reference	I :ldi	0			ı
	Lighting	Greater			
per NEC Table 220.12	School	531sf x 3	1,593	=	1,593
	Office	1265sf x 3.5	4,428	=	4,428
	Actual		858	omit	
per NEC 220.60/220.51	HVAC	at 100%		=	(
	Fridge / Freezer (3 Total)	at 100%		=	2000
	Water Heater (2 Total)	at 100%		=	8200
per NEC 220.14(I)	Receptacles	180 x 35 =	6300	=	6300
per Table 220.44	Recept Demand Factor	10,000		=	(
		50% Remainder		=	(
			TOTAL	=	22521
	•		•		
		V	Phase		Amps
	At	480	3	=	27
		REFER TO OV	ERALL ELECTRIC	AL LOAD A	NALYSIS







No.	Description	Date
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YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

> 10535 HARWIN DRIVE HOUSTON, TEXAS 77036

ELECTRICAL RISER DIAGRAM

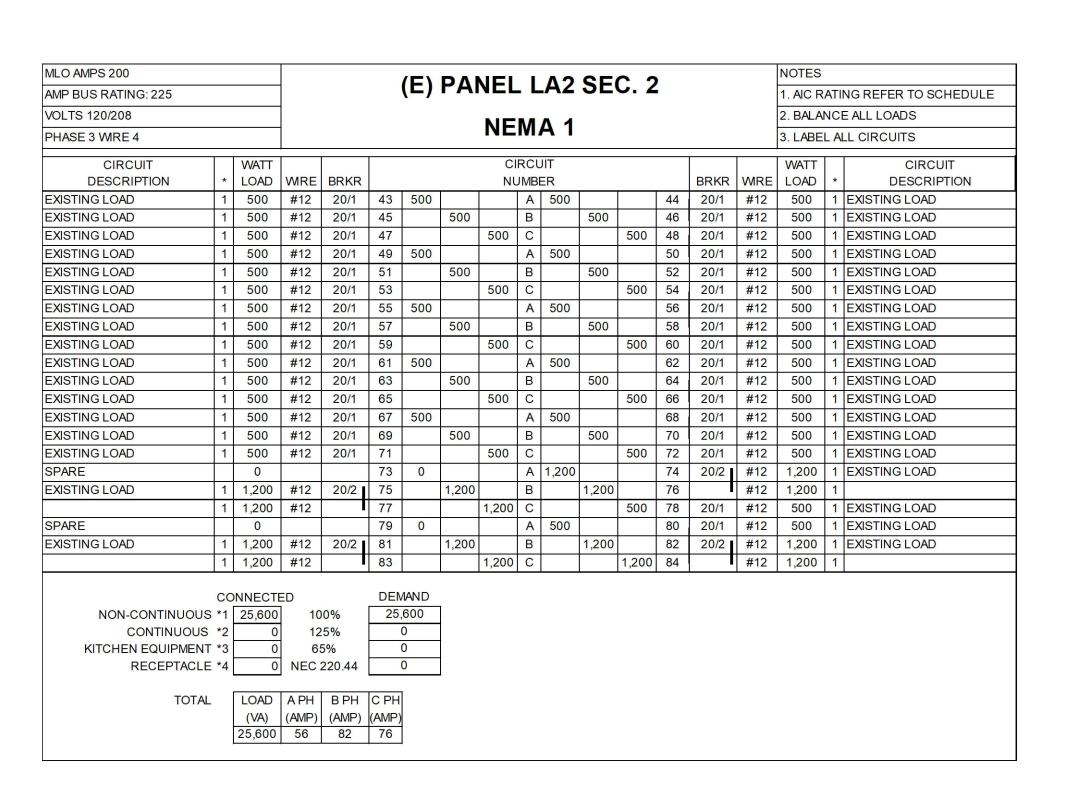
Project Number Date	21034 03/24/21
Drawn By	DKS
Checked By	BBB
F2	01

Scale

AS NOTED

TE: ALL ELECTRICAL EQUIPMENT IS EXISTING TO		$- \perp - \neg$	
MAIN. SHOWN FOR REFERENCE ONLY.		(E)	
LD VERIFY EXISTING PERMANENTLY AFFIXED LABEL H DATE, FAULT CURRENT, AND CALCULATION. THE BEL SHALL BE JE LETTERING ON A CONTRASTING BACKGROUND.		(E) MSB	
DISTRIBUTION IS EXISTING TO REMAIN. NO ANGES TO FAULT CURRENT OR EQUIPMENT INGS.			GRAI

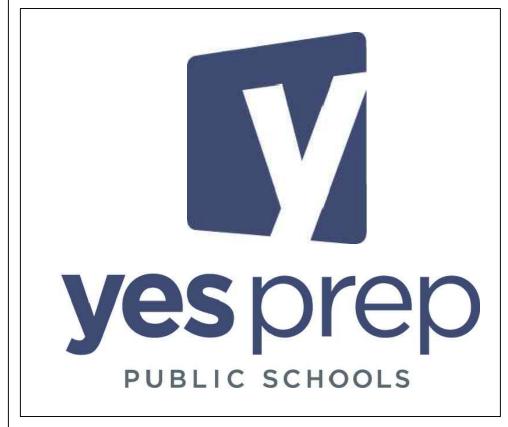
// NO SCALE



MCB AMPS 200 W/ FTL TO LA AMP BUS RATING: 225	C. 2		(E) PANEL LA2 SEC: 1														NOTES 1. AIC RATING REFER TO SCHEDULE				
VOLTS 120/208																		2. BALANCE ALL LOADS			
PHASE 3 WRE 4		NEMA 1															LL CIRCUITS				
THIOLOVIILL																		EL GIRGOTTO			
CIRCUIT DESCRIPTION	*	WATT LOAD	WRE	BRKR					RCU JMBI					BRKR	WRE	WATT LOAD	*	CIRCUIT DESCRIPTION			
EXISTING LOAD	1	500	#12	20/1	1	500			Α	500			2	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	3		500		В		500		4	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	5			500	С			1,080	6	20/1	#12	1,080	4	6 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	7	500			Α	1,260			8	20/1	#12	1,260	4	7 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	9		500		В		720		10	20/1	#12	720	4	4 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	11			500	С			1,080	12	20/1	#12	1,080	4	6 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	13	500			Α	720			14	20/1	#12	720	4	4 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	15		500		В		360		16	20/1	#12	360	4	2 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	17			500	С			180	18	20/1	#12	180	4	1 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	19	500			Α	1,000			20	20/1	#12	1,000	1	FRIDGE			
EXISTING LOAD	1	500	#12	20/1	21		500		В		500		22	20/1	#12	500	1	FRIDGE *			
EXISTING LOAD	1	500	#12	20/1	23			500	С			500	24	20/1	#12	500	1	FREEZER *			
EXISTING LOAD	1	500	#12	20/1	25	500			Α	900			26	20/1	#12	900	4	5 DUPLEX			
EXISTING LOAD	1	500	#12	20/1	27		500		В		50		28	20/1	#12	50	1	EF-5			
EXISTING LOAD	1	500	#12	20/1	29			500	С			0	30			0		SPARE			
EXISTING LOAD	1	500	#12	20/1	31	500			Α	0			32			0		SPARE			
EXISTING LOAD	1	500	#12	20/1	33		500		В		500		34	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	35			500	С			500	36	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	37	500			Α	500			38	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	39		500		В		500		40	20/1	#12	500	1	EXISTING LOAD			
EXISTING LOAD	1	500	#12	20/1	41			500	С			500	42	20/1	#12	500	1	EXISTING LOAD			
NON-CONTINUOUS CONTINUOUS KITCHEN EQUIPMENT RECEPTACLE	5 *1 *2 *3 : *4	0	10 12 6		41	MAND ,650 0 0 300										*LOCKE	ED (DN			

MCB AMPS 225		(E) DANEL LIES													NOTES						
AMP BUS RATING: 225	(E) PANEL HB2														1. AIC RATING REFER TO SCHEDULE						
/OLTS 277/480		1	NEMA 1														2. BALANCE ALL LOADS				
PHASE 3 WRE 4								NE	IVI.	A 1						3. LABE	L A	LL CIRCUITS			
CIRCUIT		WATT						CI	RCL	JIT						WATT		CIRCUIT			
DESCRIPTION	*	LOAD	WRE	BRKR				NU	JMB	ER				BRKR	WRE	LOAD	*	DESCRIPTION			
EXISTING LOAD	1	1,000	#12	20/1	1	1,000			Α	1,000			2	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	3		1,000		В		1,000		4	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	5			1,000	С			1,000	6	20/1	#12	1,000	1	EXISTING LOAD			
XISTING LOAD	1	1,000	#12	20/1	7	1,000			Α	1,000			8	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	9		1,000		В		1,000		10	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	11			1,000	С			1,000	12	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	13	1,000			Α	1,000			14	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	15		1,000		В		1,000		16	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	17			1,000	С			1,000	18	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	19	1,000			Α	1,000			20	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	21		1,000		В		1,000		22	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	23			1,000	С			1,000	24	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	25	1,000			Α	1,000			26	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	27		1,000		В		1,000		28	20/1	#12	1,000	1	EXISTING LOAD			
EXISTING LOAD	1	1,000	#12	20/1	29			1,000	С			1,000	30	20/1	#12	1,000	1	EXISTING LOAD			
SPACE		0			31	0			Α	4,100			32	20/1	#12	4,100	1	EWH-1			
SPACE		0			33		0		В		4,100		34	20/1	#12	4,100	1	EWH-2			
SPACE		0			35			0	С			0	36			0		SPACE			
SPACE		0			37	0			Α	15,080			38		*	15,080					
SPACE		0			39		0		В		16,380		40	125/3	*	16,380		XFMR FEED TB2			
SPACE		0			41			0	С			16,440	42	İ	*	16,440					
	CC	NNECTI	ED		DEN	//AND															
NON-CONTINUOUS			-	0%		,800	Ī														
CONTINUOUS																					
KITCHEN EQUIPMEN		-																			
RECEPTACLE			-	220.44	6,	300								*REFER	R TO RIS	SER DIA	GR/	AM.			
TOTAL		LOAD	A DU	D DU	C DI	ī															
TOTA	_	LOAD	A PH		C PH																
		(VA) 86,100	(AMP) 105	(AMP) 110	(AMP) 95	4															

MLO AMPS 2000							(E)	ΡΔΙ	NE	I N	1SP	2				NOTES					
AMP BUS RATING: 2000							(-/				IJL					1. AIC RATING REFER TO SCHEDULE					
VOLTS 277/480							NIE	NЛ	Λ 1						2. BALA	2. BALANCE ALL LOADS					
PHASE 3 WRE 4		NEMA 1														LL CIRCUITS					
CIRCUIT DESCRIPTION	*	WATT LOAD	WRE	BRKR					IRCL JMBI					BRKR	WRE	WATT LOAD	*	CIRCUIT DESCRIPTION			
SPACE		0			1	0			Α	0			2			0		SPACE			
SPACE		0			3		0		В		0		4			0		SPACE			
SPACE		0			5			0	С			0	6			0		SPACE			
SPACE		0			7	0			Α	0			8			0		SPACE			
	1	0	*		9		0		В		0		10			0		SPACE			
	1	83,100	*		11			83,100	С			0	12			0		SPACE			
EXISTING LOAD	1	83,100	*	600/3	13	83,100			Α	0			14	1		0		SPACE			
	1	83,100	*		15		83,100		В		0		16			0		SPACE			
	1	0	*		17			0	С			0	18			0		SPACE			
SPACE	\top	0			19	0			Α	0			20			0		SPACE			
SPACE	\top	0			21		0		В		0		22			0		SPACE			
SPACE		0			23			0	С			0	24			0		SPACE			
SPACE		0			25	0			Α	0			26			0		SPACE			
SPACE		0			27		0		В		0		28			0		SPACE			
	1	0	*	ı	29			0	С			0	30			0		SPACE			
	1	83,100	*		31	83,100			Α	0			32			0		SPACE			
EXISTING LOAD	1	83,100	*	600/3	33		83,100		В		0		34			0		SPACE			
	1	83,100	*		35			83,100	С			0	36			0		SPACE			
	1	0	*		37	0			Α	29,180			38		*	29,180					
	1	0	*		39		0		В		30,480		40	250/3	*	30,480		SUBFEED PANEL HB2			
	1	55,400	*		41			55,400	С			26,440	42		*	26,440					
EXISTING LOAD	1	55,400	*	400/3	43	55,400			Α	34,625			44		*	34,625	1				
	1	55,400	*		45		55,400		В		34,625		46	250/3	*	34,625	1	EXISTING LOAD			
	1	0	*		47			0	С			34,625	48		*	34,625	1				
	CC	ONNECTE	ΞD		DEN	MAND			•		•		•	•	•	•					
NON-CONTINUOU			4	00%		3,475]														
CONTINUOUS																					
KITCHEN EQUIPMEN			l .	5%		0							*EXIS	STING TO	REMA	N					
RECEPTACL	E *4	6,300	NEC	220.44	6,3	300]														
TOTA	AL	LOAD (VA) 854,775	A PH (AMP) 1,030		C PH (AMP) 1,020																





No.	Description	Date
	ISSUED FOR PRICING	04/20/2

YES PREP SCHOOL

WEST CAMPUS LEGACY CLINIC

> 10535 HARWIN DRIVE HOUSTON, TEXAS 77036

ELECTRICAL SCHEDULES

F20	2
Checked By	BBB
Drawn By	DKS
Date	03/24/21
Project Number	21034

AS NOTED

\\H4-dc-01\h4\Engineers\Projects\2021\2021417 Yes Prep West Remodel\E\2021417 E201.dwg, 4/15/2021 11:34:01 AM, DakotaS

PANEL KEY NOTES

1. CONTRACTOR TO FIELD VERIFY WHICH

250 AMP BREAKER FEEDS PANEL HB2. NEW LOAD ADDED TO HB2 BREAKER.