MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT

PURCHASING DEPARTMENT 100 WALTER STEPHENSON ROAD Midlothian, Texas 76065

CSP #2122-015 REQUEST FOR PROPOSALS FOR Baxter Kitchen Renovation Project

MISD Purchasing Department

Shana Volentine Purchasing Agent Phone: (469) 856-5032 shana.volentine@misd.gs

Sealed Proposal Submittal Deadline May 17, 2022 by 2 p.m.





REQUEST FOR COMPETITIVE SEALED PROPOSALS

Competitive Sealed Proposals for the work identified below in accordance with Proposal Documents and addenda as may be issued prior to date of proposal opening will be received by the Board of Trustees, Midlothian Independent School District, until proposal closing date and time, as identified below. Proposals from Offerors will then be opened in public and read aloud.

OWNER: Midlothian Independent School District

100 Walter Stephenson Road

Midlothian, TX 76065

ARCHITECT: Orcutt Winslow

222 W. Las Colinas Blvd. Ste. 749E

Irving, TX 75039

PROJECT: CSP 2122-015 Baxter Kitchen

Renovation Project

Midlothian Independent School District

Midlothian, Texas

PRE-PROPOSAL Tuesday, May 10, 2022; 2:00 PM

Baxter Elementary 1050 Park Place Blvd Midlothian, TX 76065

All Offerors are encouraged to attend.

PROPOSAL DATE

AND TIME:

Proposal Due: Tuesday, May 17, 2022 2:00 PM

LOCATION OF Midlothian Independent School District

PROPOSAL
OPENING:
Administration Building
100 Walter Stephenson Rd
Midlothian, TX 76065

Proposal Documents will be available on April 27, 2022. Qualified Offerors (General Contractors) may obtain a free electronic copy of the Drawings and proposal documents.

A link to the digital copies of the drawings and proposal documents may be obtained from the MISD Website and/or Ms. Shana Volentine, e-mail: shana.volentine@misd.gs

All proposals must be in the hands of the Owner no later than the time specified above. Please seal all proposals in duplicate in an envelope with the following information on the face of the envelope.

Name of Offeror (General Contractor)

CSP 2122-015 Baxter Kitchen Renovation Project

Midlothian Independent School District

The Owner reserves the right to reject any and all proposals and to waive any irregularities in the Competitive Sealed Proposal process. No proposal shall be withdrawn within 30 days after the proposal opening without the specific consent of the Owner.



PROPOSAL BOND: Not Applicable

PAYMENT BOND AND PERFORMANCE BOND: A Payment Bond and Performance Bond, each in an amount equal to 100 percent (100%) of the Contract Sum conditioned upon the faithful performance of the Contract will be required. Please note that all bonding companies presented must be acceptable to the Owner.

The prevailing rates of wages are the minimums that must be paid in conformance with all applicable laws of the State of Texas.

All Offerors submitting a proposal are encouraged to attend the proposal opening. Subcontractors and suppliers intending to submit proposals to Construction Offerors are required to prepare their proposals based on a complete set of proposal documents. If after reviewing the complete set of proposal documents, Subcontractors and supplier Offerors desire to purchase individual drawings and specification sections for their proposal convenience, they may do so by ordering the specific drawings and specifications directly from the reproduction company.

All Offerors submitting a proposal are encouraged to visit the site.

END OF DOCUMENT



INSTRUCTIONS TO PROPOSERS

EXAMINATION OF DOCUMENTS AND SITE

- Each proposer, by making his Proposal, represents that he has read and understands the Proposal Documents. Failure to do so may be materially non-responsive and result in non-consideration of the bid.
- Each proposer, by making his Proposal, represents that he has visited the site, performed investigations and verifications as necessary and familiarized himself with the local conditions under which the Work is to be performed and will be responsible for errors in his proposal resulting from his failure to do so.
- Each proposer by making his proposal represents that his proposal is based upon the materials, systems and equipment required by the Proposal Documents without exception.
- Any and all site visits shall be coordinated through:

Mandie Tucker

Midlothian ISD

Child Nutrition Liaison

Email: mandie.tucker@misd.gs

QUESTIONS

- Proposers shall submit questions about the Proposal Documents to the MISD Purchasing Department in writing by the date identified in the proposal. Replies will be issued to proposers as an addendum to the Proposal Documents and shall become a part of the Contract. The Architect and Owner will not be responsible for oral clarification.
- Submit all guestions to:

Shana Volentine

Midlothian ISD

Purchasing Agent

Email: shana.volentine@misd.gs

SUBSTITUTIONS

- Each proposer represents by submitting his proposal that his proposal is based upon the materials and equipment described in the proposal documents

STATUTORY PERFORMANCE BOND AND STATUTORY LABOR AND MATERIAL PAYMENT BOND

- A Statutory Performance Bond and a Statutory Labor and Material Payment Bond will be required of the successful proposer and shall be executed by a surety company acceptable to the Owner and authorized to do business in the State of Texas. Each bond shall be in an amount equal to one hundred percent (100%) of the contract price. The Performance Bond and the Labor and Material Payment Bond may be in one or separate instruments in accord with local law and are to be delivered to the Owner no later than the date of execution of the contract. Failure or neglecting to deliver said bonds, as specified, shall be considered as having abandoned the contract and the proposal security will be retained as liquidated damages.
- Bonds shall be executed by a Surety Company that is:
 - Approved by the school district, and duly authorized and admitted to do business in the State of Texas as determined by the State Board of Insurance.
 - Listed by the United States Department of the Treasury in that issue of the "Federal Register" covering the date on which the bond was executed and the date that Surety Company has obtained reinsurance, if applicable, from a reinsurer that is authorized and admitted as a reinsurer in this state and is the holder of a certificate of authority from the United States secretary of the treasury.

CERITIFICATE OF LIABILITY INSURANCE

The successful proposer shall provide a Certificate of Liability Insurance in at least the amount of \$1,000,000.00. The Midlothian Independent School District shall be listed as additional insured.

MODIFICATION AND WITHDRAWAL

- No proposal may be changed, amended or modified after submittal. Proposers may withdraw proposals prior to proposal opening.
- No right or interest in this contract or delegation of any obligation shall be assigned by the vendor to another vendor. Any attempted assignment or delegation by the vendor shall be wholly void and totally ineffective for all



purposes.

SUBMITTAL

- Submit proposals in accordance with the Request for Proposals.
 - Enclose proposal in a sealed envelope. Clearly mark on the outside of the proposal envelope:
 - Project name Name of proposer

Midlothian Independent School District

- Preparation of Proposals: Proposals shall be submitted on unaltered proposal forms. Fill in all blank spaces. If there are entries (blank spaces) on the proposal form which do not apply to a particular proposer, these entries shall be marked "N.A." (Not Applicable) by the proposer. No proposals will be considered that are amended or are qualified with conditional clauses, alterations, items not called for in the proposal, or irregularities of any kind which, in the Owner's opinion, may disqualify the proposer.
- Proposals meeting the requirements of the CSP shall be considered. Respondents taking exception to the specifications or offering substitutions shall state these exceptions.
- Each proposer shall submit one original, one duplicate copy, and one digital copy saved on a USB Flash Drive of each of the following. All shall be submitted in a single sealed envelope. Electronic signatures are acceptable.:
 - Checklist for CSP 2122-015 (Reference form attached to the end of this Section)
 - Proposer Identification: Contractor shall add a Cover Sheet/Proposer Identification Form that includes the following information:
 - Date
 - Company Name
 - Full Address
 - Phone #
 - **Email Address**
 - Proposal Form
 - Proposer shall note any contract deviations. Midlothian Independent School District can consider such deviations but is not obligated to accept such deviations
 - CSP Response Form Page 1 and Page 2
 - SB 9 Contractor Certification: Contractor Employees
 - Reference Sheet
 - Felony Conviction Notice (Reference form attached to the end of this Section)
 - 1295 Certificate of Interested Parties This form must be completed online, printed and signed. (Reference form attached to the end of this Section)
 - Conflict-of-interest Questionnaire (Reference form attached to the end of this Section)
 - Non-collusion & Non-Discrimination Form (Reference form attached to the end of this Section) HB 89/SB 252 Certification Form (Reference form attached to the end of this Section)
 - Any other information that responds to the Selection Criteria listed.
 - Each proposer shall submit one original, one duplicate copy, and one digital copy saved on a USB Flash Drive listing the subcontractors to be acquired for this project.
- Proposals received in the District's Business Office after the date and time specified will not be considered. The District is not responsible for lateness or non-delivery of mail carrier, etc., and the date/time stamp in the Business Office shall be the official time of receipt. Proposals MAY NOT be submitted by facsimile or email.
- Pricing submitted on this proposal is firm for a period of **60 Days** from the proposal opening date.
- The person signing the proposal should show the title that gives the authority to bind the firm to a contract.

DETERMINATION OF SUCCESSFUL RESPONDENT AND AWARD OF CONTRACT

In determining the Selected Offeror, the Owner will evaluate the information derived from the Offeror's (Contractor's) Qualification Statement required herein, the information submitted on the Proposal Form, and other selection criteria including the following Selection Criteria:

COST	25 POINTS	The purchase price will be scored mathematically as a ratio	
REPUTATION	15 POINTS	The reputation of the Proposer's goods and services. Items	



		<u> </u>
		considered: Proposer's past relationships with and input from provided project references regarding recommendation of the Proposer, the Proposer's performance as a team player and their ability to work with the Owner on Change Orders and Contingency Allowances.
QUALITY	20 POINTS	The quality of the Proposer's goods and services. Items considered: - Proposer's past performance with input from provided project references regarding the Proposer's quality of craftsmanship - All required items submitted - Information provided in the proposal is clear
EXPERIENCE	20 POINTS	The Proposer's overall experience as well as past record of completing similar size and scope of projects on time. Items considered: - Number of years in business - Number of similar size projects within the past five years - Number of similar scope projects within the past five years – project scope must include working on an existing, operational campus maintaining full functionality. - Proposer's past performance with input
WARRANTY WORK	10 POINTS	The Proposer's response to warranty work requests. Items considered: Proposer's past performance with input from provided project references regarding the ability to perform warranty work in a timely manner.
PROJECT TEAM	5 POINTS	Qualifications of the proposed project manager(s) and project superintendent (s). Items considered: - Time in the construction industry for each individual - Number of K-12 school projects completed by each individual Time with company for each individual
PROJECT SCHEDULE	5 POINTS	The Proposer's anticipated construction schedule. Items considered: - start date, substantial completion date, final completion date, and total construction duration in calendar days.

- The district does not award/purchase on the basis of low bid alone.
- The District may choose to conduct interviews with proposers as part of the evaluation and selection process. If interviews are necessary will be held at:

Midlothian Independent School District Administration building

100 Walter Stephenson Rd Midlothian. TX 76065.

- The Selection Committee consisting of Midlothian ISD administrators, architects, consultants and other staff will make an initial evaluation of the proposals. The committee's recommendation will be considered by the Midlothian ISD Board of Trustees ("Board"). The District reserves the right to review the recommendation with others deemed appropriate by the District prior to review by the entire Board. The final decision-making authority on the proposals rests with the full Board.
- The District will make such investigations as it deems necessary to determine the ability of the Offeror to perform the Work, and the Offeror shall furnish all such information and data for this purpose as may be requested. The District reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Offeror fails to satisfy the District that such Offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.
- The District reserves the right to reject any or all proposals and to waive any formalities or irregularities and to make the award of the contract in the best interest of the District. The District also reserves the right as a sole judge of quality and equality.
- A decision regarding determination of the successful Offeror will be made by the District as soon as practical.
- If awarded, the successful vendor(s) will be notified by authorized District personnel.



EXECUTION OF CONTRACT

- The Owner reserves the right to accept any proposal, to reject any and all proposals, or to negotiate contract terms with the various proposers, when such is deemed by the Owner to be in his best interest.
- Notwithstanding delays in the preparation and execution of the formal contract agreement, each proposer shall be prepared, upon written notice of proposal acceptance, to commence work on or before a date stipulated in an official written order of the Owner to proceed.
- The accepted proposer shall assist and cooperate with the Owner in preparing the formal contract agreement, and within 5 days following its presentation shall execute same and return it to the Owner.
- Form for the contract agreement will be AIA Document A101, Standard Form of Agreement Between Owner and Contractor, Stipulated Sum, 2017 Edition. Or
- The district limits its purchases through the use of properly drawn and authorized purchase orders. Consequently, the District is not responsible for items delivered or picked up and/or services that were not authorized via this method. Therefore, the purchase order number shall appear on ALL itemized invoices and packing slips to ensure payment.
- This contract, once accepted will include the period agreed upon between the District and the vendor(s) to complete the projects listed in the CSP. Any purchase order dated and issued within these dates will be subject to the terms and conditions of this contract.
- If, at any time, the vendor fails to fulfill or abide by the terms, conditions, or specifications of the contract, the District reserves the right upon written notice to the vendor to the following remedies (though not just limited to these): purchase the products/services elsewhere and/or cancel the contract.
- Proposals may not be withdrawn without written approval after a contract has been signed or a purchase order executed or after a partial performance of the proposal agreement has begun.
- The District reserves the right to utilize other District contracts, State of Texas contracts, contracts awarded by other governmental agencies, other school boards, or other cooperative agreements in lieu of any offer received or award made as a result of this proposal, if it is in the District's best interest to do so.

PAYMENT

- The title and risk of loss of the goods/services shall not pass to the District until the District actually takes possession of the goods/services at either the point of sale or the point of delivery.
- On purchase order contracts itemized invoices shall be issued for only those items/services received. Payment shall not be due until the invoice(s) are submitted after delivery. Pursuant to Texas Government Code 2251.021, payments will be made within thirty (30) days. Invoices shall be mailed directly to:

MISD Business Office

100 Walter Stephenson Rd. Midlothian, X 76065 Attn: Accounts Payable

Or

Email to: accounts_payable@misd.gs

TIME OF COMPLETION AND LIQUIDATED DAMAGES

- The contract date will be established as the number of consecutive calendar days as set out on the proposal form from the "Notice-to-proceed" date issued by the Owner.
- Failure of the Contractor to complete the Work by the contract date will result in damages being sustained by the Owner. Such damages are, and will continue to be, impracticable and extremely difficult to determine. Due consideration will be given to delays as outlined in the Contract.
- The Contractor will pay the Owner the amount indicated on the Proposal Form and in the General Conditions for each calendar day of delay in finishing the Work in excess of time specified for completion, plus authorized time extensions. Execution of the Contract under these specifications shall constitute agreement by the Owner and Contractor that the amount indicated is the minimum value of the costs and actual damage caused by failure of the Contractor to Substantially Complete the Work within the allotted time, that such sum is Liquidated Damages and shall not be construed as a penalty, and that such sum may be deducted from payments due the Contractor if such delay occurs.

SALES TAX EXEMPTION

- The Owner qualifies for exemption from State and Local Sales Taxes as set forth in the Supplementary Conditions. Tax exemption certificates will be issued upon request.



TERMINATION OF CONTRACT

- The requirements of Government Code, Chapter 552, Subchapter J Additional Provisions Related to Contracting Information, applies to this contract and the contractor or vendor agrees that the contract can be terminated if the contractor or vendor knowingly or intentionally fails to comply with a requirement of that subchapter.
- Each respondent must give notice to the District if a person, owner or operator of the business has been convicted of a felony. The District determines that the person or business failed to give such notice or misrepresented the conduct resulting in the conviction.
- Respondents shall note any and all relationships that might be a Conflict of Interest and include such information with the Proposal.
- Please note that a gift to a public servant is a Class A misdemeanor offense if the recipient is a government employee who exercises any influence in the purchasing process of the governmental body. This would certainly apply to anyone who helps establish specifications or is involved in product selection or directs a purchase.

PROHIBITION ON CONTRACTS WITH COMPANIES BOYCOTTING ISRAEL

Pursuant to Texas Government Code Chapter 2271, if this contract is valued at \$100,000 or more and if Contractor has at least ten (10) full time employees, then Contractor represents and warrants to the Owner that the Contractor does not boycott Israel and will not boycott Israel during the term of this Contract. This section does not apply to a sole proprietorship. On April 25, 2019, the U.S. District Court for the Western District of Texas entered a preliminary injunction enjoining the enforcement of Chapter 2271 as it existed before the amendment in any state contract. In compliance with the Court's order, the Owner will not seek enforcement of the current Chapter 2271 until further order of this or higher court having jurisdiction over the issue.

ADDITIONAL TERMS AND CONDITIONS

- Delivery of services will be made during normal working hours unless prior approval has been obtained.
- The successful proposer shall possess and maintain criminal background checks for all personnel working on District Property.
- MISD reserves the right to purchase additional services as listed on this proposal subject to the verification of the same or lower prices and conditions as the proposal.
- MISD also reserves the right to waive minor technicalities or formalities considered in the best interest of the
 district
- In case of discrepancies within the drawings, within the specifications, or between the drawings and specifications, the better quality and greater quantity, shall be furnished and installed

GENERAL SCOPE OF WORK - SUMMARY

- Contractor has the option to propose on the entire project or specific scope(s)
- Project will be phased depending on material delivery dates
- Replacing ceilings and ceiling tiles are a priority and need to be completed by JUNE 30, 2022
- Replacement of flooring will be phased
 - Flooring for serving line will depend on the delivery of the equipment and date is subject to this time line
 - Flooring for Kitchen, mixing, mop, dry storage, office and scullery areas will need to be completed by JUNE 30, 2022
- Replace kitchen equipment, including serving line
- Clean & Polish freezer cooler, scullery and the exterior of the fume hood
- Replacement of light fixtures to LED will need to be completed by JUNE 30, 2022
- Install new porcelain tile at serving line
- Install new storefront doors at serving line
- Close opening in scullery
- Items noted above all not all inclusive, refer to document/drawings for additional scopes/details



BASE PROPOSAL FORM CSP 2122-015 Baxter Kitchen Renovation Project

PROJ	JECT:	Baxter Kitchen Renovation Project Midlothian Independent School District Midlothian TX	
PROF	POSAL OF:	(Name of Offeror)	(Data)
		(Name of Offeror)	(Date)
TO:	100 Walter	Independent School District Stephenson Road TX 76065	
Dear	Sir/Madam:		
Havin furnis of:	g examined th h all labor, ma	ne drawings and related documents and having inspe terials, and to perform all work described in the speci	ected the site of proposed work, I (we) agree to ifications and shown on the drawings in the sum
	ROPOSAL: n words shall g	(NOTE: Amounts shall be shown in both words a govern.)	nd figures. In case of discrepancy, the amount
INCL	UDE LISTING	OF MATERIALS, LABOR, ETC THAT ARE INCLUE	DED IN YOUR PROPOSAL PRICING
ENTI	RE SCOPE OI	- WORK	
			DOLLARS
		_ (\$).
IF YO	U ARE NOT E ROPRIATE LIN	BIDDING THE ENTIRE PROJECT, PLEASE LIST YO NE ITEM(S)	OUR PROPOSAL PRICING ON THE
Kitch	en Proposal -	- bid for kitchen scope of work	
			DOLLARS
		/A	,



Flooring Proposal – bid for flooring replacement scope of work			
		DOLLARS	
	_(\$		
Electrical Proposal – bid for electrical	replacement scope of work		
		DOLLARS	
	(\$	_	
Tile Proposal – bid for tile installation	scope of work		
		DOLLARS	
	_(\$).	_	
Storefront Proposal – bid for storefron	nt doors & hardware scope of work		
		_ DOLLARS	
	_(\$).	_	
Demo & Wall Build Back Proposal – bid for the demo & the build back of the wall at the serving line's scope work			
		DOLLARS	
	(\$).		



SCHEDULE

The overall schedule is critical to the success of this project. Contractor shall bid the time for substantial completion and final acceptance and the additional time for the specified alters in the spaces provided above. The project schedule is as follows:

 Questions Due:
 May 12, 2022 (by noon, 12 PM CST)

 Final Addenda:
 May 13, 2022(by 4:00 PM CST)

 Bid Due:
 May 17, 2022 (2:00 PM CST)

Anticipated Board Approval: June 16, 2022 Anticipated Notice to Proceed: June 17, 2022

Substantial Completion: June 30, 2022 (Ceiling, Flooring tile, LED lights - see

specifics in Summary of Work)

August 1, 2022

Respectfully Submitted		
Company / Entity Name		
By:		
Printed Name		
Title		
Address		
Phone Number		
Email		
Lineal		

Note: Affix seal and authorization if bidder is a corporation.

In the event an award of a contract to the undersigned, the undersigned will (1) furnish a performance and payment bond for full amount of the contract as specified herein, (2) secure proper compliance with the terms and provisions of the contract, (3) insure and guarantee the work until final completion and acceptance and (4) guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

The work proposed shall be accepted when the District is satisfied that work is fully completed and finished in accordance with the plans and specifications.



The undersigned certifies that the bid prices contained in the proposal have been carefully checked and are submitted as correct and final.

Receipt is hereby acknowledged for the following addenda to bid proposal:

Addendum No. 01 Addendum No. 02 Addendum No. 03 Addendum No. 04	Dated: Dated: Dated:	Received: Received:	
Signature:			
Printed Name:			
Title:			
Date:			



CSP RESPONSE FORM (Page 1)

2122-015 Baxter Kitchen Renovation Project

To:	Midlothian ISD Attention: Shana Volentine 100 Walter Stephenson Rd Midlothian, Texas 76065
From:	Company Name
	Address
	City/State/Zip
	Area Code & Phone Number
	Fax Number
	E-mail Address
	Federal Tax Identification Number
statement, ag if accepted b MISD and o	signed, as the owner or legally authorized representative of the above named company, by signing the following gree that I have READ and UNDERSTAND all of the Instructions and Specifications contained herein, and that by the Midlothian Independent School District, all of the provisions are part of a binding contract between the ur company. I also certify that this bid is made without previous understanding, agreement, or connection with firm or cooperation making a proposal for the same contract, and is in all ways fair and without collusion or fraud
Owner or	Legally Authorized Representative
Signature	
Title	
Date	

CSP RESPONSE FORM (Page 2)

2122-015 Baxter Kitchen Renovation Project

	Remittance Address (if different):
All purchases must occur with a district purchase order. 1) Our firm will accept orders using district purchase orders. YES NO 2) Our firm hold a HUB certification. YES NO If YES, please provide a copy of your certification with your response. 3) Our firm holds a MWBE/SBE Certification YES NO If YES, please provide a copy of your certification with your response.	Address
 Our firm will accept orders using district purchase orders. YES NO Our firm hold a HUB certification. YES NO If YES, please provide a copy of your certification with your response. Our firm holds a MWBE/SBE Certification YES NO If YES, please provide a copy of your certification with your response. ADDITIONAL INFORMATION (If Applicable) If your organization has multiple store locations, please list all store locations that will agree to all the terms and conditions set forth in this proposal/bid document. Please list additional	City/State/Zip
 2) Our firm hold a HUB certification. If YES, please provide a copy of your certification with your response. 3) Our firm holds a MWBE/SBE Certification If YES, please provide a copy of your certification with your response. ADDITIONAL INFORMATION (If Applicable) If your organization has multiple store locations, please list all store locations that will agree to all the terms and conditions set forth in this proposal/bid document. Please list additional 	All purchases must occur with a district purchase order.
If YES, please provide a copy of your certification with your response. 3) Our firm holds a MWBE/SBE Certification YES NO If YES, please provide a copy of your certification with your response. **ADDITIONAL INFORMATION (If Applicable)** If your organization has multiple store locations, please list all store locations that will agree to all the terms and conditions set forth in this proposal/bid document. Please list additional conditions.	1) Our firm will accept orders using district purchase orders. YES NO
If YES, please provide a copy of your certification with your response. ADDITIONAL INFORMATION (If Applicable) If your organization has multiple store locations, please list all store locations that will agree to all the terms and conditions set forth in this proposal/bid document. Please list additional	If YES, please provide a copy of your certification with your
If your organization has multiple store locations, please list all store locations that will agre to all the terms and conditions set forth in this proposal/bid document. Please list additional	If YES, please provide a copy of your certification with your
If your organization has multiple store locations, please list all store locations that will agre to all the terms and conditions set forth in this proposal/bid document. Please list additional	
If your organization has multiple store locations, please list all store locations that will agree to all the terms and conditions set forth in this proposal/bid document. Please list additional store locations below (attach additional information if needed).	ADDITIONAL INFORMATION (If Applicable)
	to all the terms and conditions set forth in this proposal/bid document. Please list additional
	·



REFERENCES

Please list your references

1.	Business Name:
	Contact:
	Address:
	Phone Number:
	Email:
	Scope of Work/Project:
2.	Business Name:
	Contact:
	Address:
	Phone Number:
	Email:
	Scope of Work/Project:

3.	Business Name:
	Contact:
	Address:
	Phone Number:
	Email:
	Scope of Work/Project:



CHECKLIST FOR CSP 2122-015 Baxter Kitchen Renovation Project

Proposal Form
CSP Response Form (Page 1 & 2)
Reference Sheet
SB 9 Contractor Certification: Contractor Employees
Felony Conviction Notice
1295 Certificate of Interested Parties
Conflict-of-Interest Questionnaire
Non-Collusion & Non-Discrimination Form
Resident and Non-Resident Form
Statement of Debarment
HB 89/SB 252 Certification Form
FDGAR Certification Forms

SB 9 Contractor Certification: Contractor Employees

Background: Texas Education Code Chapter 22 requires entities that contract with school districts to obtain criminal history records on covered employees. Covered employees with disqualifying criminal histories are prohibited from serving at a school district. Contractors must certify to Midlothian ISD that they have complied and must obtain similar certifications from their subcontractors. *See SB 9 Contractor Certification: Subcontractor attachment.* The law requires each contractor to obtain the criminal histories of its covered employees. For more information or to set up an account, a contractor should contact the Texas Department of Public Safety's Crime Records Service at 512.424.2474.

Definitions:

<u>Covered employees</u>: Employees of a contractor who have or will have continuing duties related to the service to be performed at a school district and have or will have direct contact with students. Midlothian ISD will be the final arbiter of what constitutes *continuing duties* and *direct contact* with students.

<u>Disqualifying criminal history</u>: (1) a conviction or other criminal history information designated by Midlothian ISD; (2) a felony or misdemeanor offense that would prevent a person from being employed under Texas Education Code § 22.085(a), that is: if at the time of the offense, the victim was under 18 or was enrolled in a public school:(a) a felony offense under Title 5, Texas Penal Code; (b) an offense on conviction for which a defendant is required to register as a sex offender under Chapter 62, Texas Code of Criminal Procedure; or (c) an offense under federal law or the laws of another state that is equivalent to (a) or (b).

On behalf of		ontractor"), I, the undersigned authorized
signatory for Contractor, certify	to Midlothian Independent Sc	chool District ("Midlothian ISD") that [check one]:
certify that Contractor has	taken precautions or imposes. Contractor will maintain t	, as defined above. If this box is checked, I further ed conditions to ensure that its employees will not these precautions or conditions throughout the time
Or	-	
 (1) Contractor has obtatemployees. None of (2) If Contractor received history, Contractor with Midlothian ISD in with (3) Upon request, Contractor 	tined all required criminal the covered employees has a sessinformation that a covere will immediately remove the riting within 3 business days, actor will provide Midlothian red employees so that Midlothian red employees so that Midlothian	byees. If this box is checked, I further certify that: history record information regarding its covered a disqualifying criminal history. red employee subsequently has a reported criminal a covered employee from contract duties and notify. ISD with the name and any other requested othian ISD may obtain criminal history record
	ory record information, Cor	covered employee on the basis of the covered ntractor agrees to discontinue using that covered
I also certify to Midlothian IS from its subcontractors of comp		r that Contractor has obtained certifications Code, Chapter 22.
Noncompliance or misrepresentation	tion regarding this certification	on may be grounds for contract termination.
Signature	Title	Date



Felony Conviction Notice

Statutory citation covering notification of criminal history of contractor is found in the Texas Education Code

#44.034. Following is an example of a felony conviction notice:

FELONY CONVICTION NOTICE

Senate Bill 1, passed by the State of Texas Legislators, Section 44.034, Notification of Criminal History, Subsection (a) states, "a person or business entity that enters into a contract with a school district must give advance notice to the district if the person or owner or operator of the business entity has been convicted of a felony." The notice must include a general description of the conduct resulting in the conviction of a felony.

Subsection (b) states, "A school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract.

I, the undersigned agent for the firm named below certify that the information concerning notification of felony

This notice is not required of a publicly held corporation.

conviction has been reviewed by me and the following furnished information is true to the best of	my knowledge
Vendor's Name:	_
Authorized Company Official's Name: (please print)	
	-
A. My firm is a publiclyheld corporation; therefore, this reporting requirement is not applicable.	
Signature of Company Official:	
B. My firm is not owned nor operated by anyone who has been convicted of a felony.	
Signature of Company Official:	
C. My firm is owned or operated by the following individual(s) who has/have been convicted of a felo	ony: Name
ofFelon(s):	
Details of Conviction:	

THIS COMPLETED FORM MUST BE RETURNED WITH PROPOSAL

Signature of Company Official:

CERTIFICATE	OF INTERES	STED PARTIE	S		FORM 1295
	4 and 6 if there are 6 if there are no into	interested parties. Cor erested parties.	mplete	OFFI	CE USE ONLY
1 Name of business entit entity's place of busin		city, state and country o	f the business		JSKile
Name of governmenta which the form is beir		y that is a party to the c	ontract for	, ,	isi
3 Provide the identification and provide a descrip		e governmental entity o goods, or other propert			
4		City, State, Countr	$_{v}$	Nature of Interes	t (check applicable)
Name of Interested	Party	(place of business		Controlling	Intermediary
		, e	<i>C</i> ,		
		* MAN.			
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		* 12			
	7	*			
5 Check only if the	ere is (O interested Pa	arty.			
6 UNSWORN DECLAR	FION				
My name is			, and my date of bi	rth is	
My address is	(street) perjury that the foregoing is	s true and correct.	(city)	(state) (zip cod	le) (country)
Executed in	County, State of	, on the	day of	, 20	
	· ·	, on the		(month) (year)
		Signature	_	nt of contracting busing clarant)	ess entity
	ADD AD	DITIONAL PAGES	AS NECES	SARY	

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.	OFFICE USE ONLY
This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).	Date Received
By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.	
A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.	
Name of vendor who has a business relationship with local governmental entity.	
Charles their have if ways are filling an undate to a province by filled greation pains. (The le	
Check this box if you are filing an update to a previously filed questionnaire. (The la completed questionnaire with the appropriate filing authority not later than the 7th busines you became aware that the originally filed questionnaire was incomplete or inaccurate.)	
Name of local government officer about whom the information is being disclosed.	
Name of Officer	
Name of Officer	
A. Is the local government officer or a family member of the officer receiving or like other than investment income, from the vendor?	ely to receive taxable income,
Yes No	
B. Is the vendor receiving or likely to receive taxable income, other than investmen of the local government officer or a family member of the officer AND the taxable local governmental entity?	
Yes No	
Describe each employment or business relationship that the vendor named in Section 1 m other business entity with respect to which the local government officer serves as an ownership interest of one percent or more.	
Check this box if the vendor has given the local government officer or a family member of as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003	
Signature of vendor doing business with the governmental entity	Date

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

<u>Local Government Code § 176.001(1-a)</u>: "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

- (a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:
 - (2) the vendor:
 - (A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that
 - (i) a contract between the local governmental entity and vendor has been executed; or
 - (ii) the local governmental entity is considering entering into a contract with the vendor;
 - (B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:
 - (i) a contract between the local governmental entity and vendor has been executed; or
 - (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

- (a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:
 - (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
 - (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
 - (3) has a family relationship with a local government officer of that local governmental entity.
- (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:
 - (1) the date that the vendor:
 - (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
 - (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or
 - (2) the date the vendor becomes aware:
 - (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
 - (B) that the vendor has given one or more gifts described by Subsection (a); or
 - (C) of a family relationship with a local government officer.



STATEMENT OF NON-COLLUSION AND NON-DISCRIMINATION

My signature certifies that the accompanying Proposal:

- Is not the result of, or affected by, an unlawful act of collusion with another person or company engaged
 in the same line of business or commerce, or any act of fraud punishable under current local, state, and/or
 federal ordinances, statutes, regulations and/or policies. Furthermore, I understand that fraud and
 unlawful collusion are crimes under Federal Law, and can result in fines, prison sentences, and civil
 damage awards.
- 2. During the performance of any contract awarded, the Seller will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin, or handicaps, except where religion, sex or national origin is a bona fide occupation qualification reasonably necessary to the normal operations of the Seller, The Seller agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.
- 3. The Seller, in all solicitations or advertisements for employees placed by or on behalf of the Seller, will state that such Seller is an equal opportunity employer.
- 4. Notices, advertisements and solicitations placed in accordance with Federal Law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- 5. The Seller shall include the provisions of the foregoing paragraphs 2, 3 and 4 in every subcontract or purchase order over \$10,000.00 so that the provisions will be binding upon each subcontractor or vendor.

I hereby certify that I am authorized to sign as a Representative for the Seller:

NAME OF SELLER:		
ADDRESS:		
CITY & STATE:		
NAME: (Print)		
Signature:		
TITLE:	DATE:	
TELEPHONE:	FAX:	
EMAIL ADDRESS:		

RESIDENT/NONRESIDENT CERTIFICATION

Texas Government Code Chapter 2252 relates to bids by nonresident contractors. The pertinent portions of the Act are as follows:
Section 2252.001(3) "Nonresident bidder" means a bidder who is not a resident (of the State of Texas).
Section 2252.001(4) "Resident bidder" means a bidder whose principal place of business is in this state, including a contractor whose ultimate parent company or majority owner has its principal place of business in this state.
Section 2252.002 A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located.
I certify thatis a
Resident Bidder of Texas as defined in Texas Government Code Section 2252.001(4).
Signature:
Printed Name:
I certify thatis a
Nonresident Bidder of Texas as defined in Texas Government Code Section 2252.001(3) and our principal place of business is:
City and State:
Signature:
Printed Name:
If the Bidder is a Nonresident Bidder of Texas, please answer the following:

Does the vendor's ultimate parent company or majority owner employ at least 500 persons in Texas?

Yes_____ No ____

DEBARMENT OR SUSPENSION CERTIFICATION FORM

Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(1) Certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or

By submitting this offer and signing this certificate, this Proposer:

agency.

Firm's Name:	
Address:	
City/State/Zip:	
Telephone:	
Authorized Company Official's Name: (Typed or printed)	
Title of Authorized Representative: (Typed or printed)	
Signature of Authorized Company Official:	
Date Signed:	



CERTIFICATIONS REQUIRED AS OF SEPTEMBER 1, 2017

CERTIFICATION REGARDING TERRORIST ORGANIZATIONS & BOYCOTTING OF ISRAEL [Govt Code 808 (HB89) and Govt Code 2252 (SB252)

Vendor hereby certifies that it is not a company identified on the Texas Comptroller's list of companies known to have contracts with, or provide supplies or services to, a foreign organization designated as a Foreign Terrorist Organization by the U.S. Secretary of State.

Vendor further certifies and verifies that neither Vendor, nor any affiliate, subsidiary, or parent company of Vendor, if any (the "Vendor Companies"), boycotts Israel, and Vendor agrees that Vendor and Vendor Companies will not boycott Israel during the term of this Agreement. For purposes of this Agreement, the term "boycott" shall mean and include terminating business activities or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory.

Initials of Authorized Representative of Vendor
Vendor's Name/Company Name:
Address, City, State, and Zip Code:
Phone Number:Fax Number:
Printed Name and Title of Authorized Representative:
Email Address:
Signature of Authorized Representative:
Date: Federal Tax ID#
MISD PURCHASING OFFICE (INTERNAL REVIEW): SB 2252 Certification
Comptroller List was reviewed and The Vendor (IS) (IS NOT) on the lists (Circle one).
Verified by:

ADDENDUM FOR AGREEMENT FUNDED BY U.S. FEDERAL GRANT

TO WHOM IT MAY CONCERN:

MIDLOTHIAN ISD is in the process of ensuring that all policies and procedures involving the expenditure of federal funds are compliant with the new Education Department General Administrative Guidelines ("EDGAR"). Part of this process involves ensuring that all current vendors agree to comply with EDGAR. You must complete this form and return to MIDLOTHIAN ISD along with your proposal.

The following certifications and provisions are required and apply when MIDLOTHIAN ISD expends federal funds for any contract resulting from this procurement process. Pursuant to 2 C.F.R. § 200.326, all contracts, including small purchases, awarded by the District and the District's subcontractors shall contain the procurement provisions of Appendix II to Part 200, as applicable.

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS APPENDIX II TO 2 CFR PART 200

(A) Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

Pursuant to Federal Rule (A) above, when MIDLOTHIAN ISD expends federal funds, MIDLOTHIAN ISD reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

Does Vendor agree? YES Initials of Authorized Representative of Vendor

(B) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000).

Pursuant to Federal Rule (B) above, when MIDLOTHIAN ISD expends federal funds, MIDLOTHIAN ISD reserves the right to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by Vendor in the event Vendor fails to: (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. MIDLOTHIAN ISD also reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if MIDLOTHIAN ISD believes, in its sole discretion that it is in the best interest of MIDLOTHIAN ISD to do so. Vendor will be compensated for work performed and accepted and goods accepted by MIDLOTHIAN ISD as of the termination date if the contract is terminated for convenience of MIDLOTHIAN ISD. Any award under this procurement process is not exclusive and MIDLOTHIAN ISD reserves the right to purchase goods and services from other vendors when it is in MIDLOTHIAN ISD's best interest.

Does Vendor agree? YES __Initials of Authorized Representative of Vendor

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

Pursuant to Federal Rule (C) above, when MIDLOTHIAN ISD expends federal funds on any federally assisted construction contract, the equal opportunity clause is incorporated by reference herein.

Does Vendor agree? YES _____Initials of Authorized Representative of Vendor

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Pursuant to Federal Rule (D) above, when MIDLOTHIAN ISD expends federal funds during the term of an award for all contracts and subgrants for construction or repair, Vendor will be in compliance with all applicable Davis-Bacon Act provisions.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles

ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Pursuant to Federal Rule (E) above, when MIDLOTHIAN ISD expends federal funds, Vendor certifies that Vendor will be in compliance with all applicable provisions of the Contract Work Hours and Safety Standards Act during the term of an award for all contracts by MIDLOTHIAN ISD resulting from this procurement process.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

Pursuant to Federal Rule (F) above, when federal funds are expended by MIDLOTHIAN ISD, the vendor certifies that during the term of an award for all contracts by MIDLOTHIAN ISD resulting from this procurement process, the vendor agrees to comply with all applicable requirements as referenced in Federal Rule (F) above.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non- Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Pursuant to Federal Rule (G) above, when federal funds are expended by MIDLOTHIAN ISD, the vendor certifies that during the term of an award for all contracts by MIDLOTHIAN ISD member resulting from this procurement process, the vendor agrees to comply with all applicable requirements as referenced in Federal Rule (G) above.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Pursuant to Federal Rule (H) above, when federal funds are expended by MIDLOTHIAN ISD, the vendor certifies that during the term of an award for all contracts by MIDLOTHIAN ISD resulting from this procurement process, the vendor certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by

any federal department or agency.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by MIDLOTHIAN ISD, the vendor certifies that during the term and after the awarded term of an award for all contracts by MIDLOTHIAN ISD resulting from this procurement process, the vendor certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriate tiers and that all sub recipients shall certify and disclose accordingly.

Does Vendor agree? YES Initials of Authorized Representative of Vendor

RECORD RETENTION REQUIREMENTS FOR CONTRACTS INVOLVING FEDERAL FUNDS

When federal funds are expended by MIDLOTHIAN ISD for any contract resulting from this procurement process, Vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The Vendor further certifies that Vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

Does Vendor agree? YES Initials of Authorized Representative of Vendor

\sim	TIE	\sim \sim TIO	ADLIANCE	\ <i>\!</i> \!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		CONSERVATION	$\Lambda \cap T$

When MIDLOTHIAN ISD expends federal funds for any contract resulting from this procurement process, Vendor certifies that it will comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18).

Does Vendor agree? YES Initials of Authorized Representative of Vendor

CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS

Vendor certifies that Vendor is in compliance with all applicable provisions of the Buy America Act. Purchases made in accordance with the Buy America Act must still follow the applicable procurement rules calling for free and open competition.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

CERTIFICATION OF ACCESS TO RECORDS - 2 C.F.R. § 200.336

Vendor agrees that the Inspector General of the District or any of their duly authorized representatives shall have access to any books, documents, papers and records of Vendor that are directly pertinent to Vendor's discharge of its obligations under the Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The right also includes timely and reasonable access to Vendor's personnel for the purpose of interview and discussion relating to such documents.

Does Vendor agree? YES ___Initials of Authorized Representative of Vendor

CERTIFICATION OF APPLICABILITY TO SUBCONTRACTORS

Vendor agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

Does Vendor agree? YES Initials of Authorized Representative of Vendor

Vendor agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that vendor certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted above.

_ Fax Number:

T E BAXTER ELEMENTARY SCHOOL KITCHEN RENOVATION

CONSULTANT INFO

VICINITY MAP

MEP - RWB CONSULTING ENGINEERS 12001 N. Central Expressway, Suite 1100

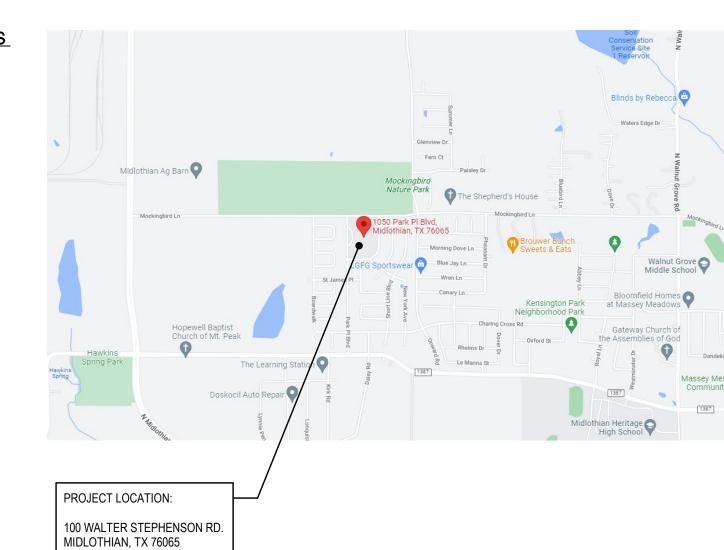
DALLAS, TX 75243

Nathan Hart

nhart@rwb.net

Office: (972) 788-4222

Fax: (972) 788-0002



SHEET INDEX

SHEET#	DESCRIPTION	ORIG. ISSUE	REV. DELTA#	F D
G-001	TITLE SHEET	04/28/2022		
G-002	WALL TYPES/PROJECT INFORMATION	04/28/2022		
archite	ectural			
OUEET "	DECORIDATION	ORIG.	REV.	F
SHEET#	DESCRIPTION	ISSUE	DELTA#	
AD101			DELTA#	
	DEMOLITION PLANS FIRST FLOOR PLAN	04/28/2022 04/28/2022	DELTA#	
AD101	DEMOLITION PLANS	04/28/2022	DELTA#	
AD101 A-101	DEMOLITION PLANS FIRST FLOOR PLAN	04/28/2022 04/28/2022	DELTA#	
AD101 A-101 A-103	DEMOLITION PLANS FIRST FLOOR PLAN FIRST FLOOR RCP	04/28/2022 04/28/2022 04/28/2022	DELTA#_	

mechan	iical					
SHEET# D	ESCRIPTION	ORIG. ISSUE	REV. DELTA#	REV. DATE		
M001 M100	SPECIFICATIONS - MECHANICAL FLOOR PLAN - LEVEL 1 - KITCHEN - HVAC	04/28/20 04/28/20				
plumbin	g					
SHEET#	DESCRIPTION	ORIG. ISSUE	REV. DELTA#	REV. DATE		
P000 P100	PLUMBING SPECIFICATIONS, LEGENDS & NOTES FLOOR PLAN - LEVEL 1 - PLUMBING		04/28/2022 04/28/2022			
electrica	al					
SHEET# D	ESCRIPTION	ORIG. ISSUE	REV. DELTA#	REV. DATE		
E000 E001 E100 E200 E600 E700	ELECTRICAL NOTES & LEGENDS SPECIFICATIONS ELECTRICAL FLOOR PLAN - LEVEL 1 - ELECTRICAL FLOOR PLAN - LEVEL 1 - LIGHTING ELETRICAL DETAILS LIGHT FIXTURE & PANEL SCHEDULES	04/28/20 04/28/20 04/28/20 04/28/20 04/28/20	22 22 22 22 22			

third floor
nashville, tn 37209
mail@owp.com

615.298.2525 t
www.owp.com

5016 centennial blvd

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CLIENT CONTACT

468-856-5000 T rola.fadel@misd.gs 000-000-0001 F

OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

REVISIONS

DELTA DESCRIPTION

ED TEXAS
PROJECT PHASE

CONSTRUCTION DOCUMENTS

SHEET CONTENTS

TITLE SHEET

.=== ...0

G-001

B. All fire rated walls extend full height to structure above and seal to deck, UNO. See Fire Rated Details for approved joint conditions.

C. All penetrations at smoke and fire rated assemblies shall be protected, sealed, and dampered, using only UL or ICC-ES approved methods, materials and installation, as required to maintain the assembly's rating and smoke resistance. All materials and installation details shall conform to the UL listings for "through penetration fire stop systems" where applicable. The Contractor shall submit shop drawing details, furnished by the manufacturer

of the fire stop material, that show complete conformance to the UL Listing, and such drawings shall be available to the Fire or Building Inspectors onsite. The drawings shall be specific for each penetration type.

D. Smoke separation walls shall form an effective membrane, continuous from outside wall to outside wall, from fire barrier to fire barrier, from smoke barrier to smoke barrier and from floor slab to floor or roof slab above, thereby providing continuity through all concealed spaces. The Contractor shall completely seal all openings where the smoke barrier abuts other smoke barriers, fire barriers, exterior walls, the floor below and the floor or ceiling

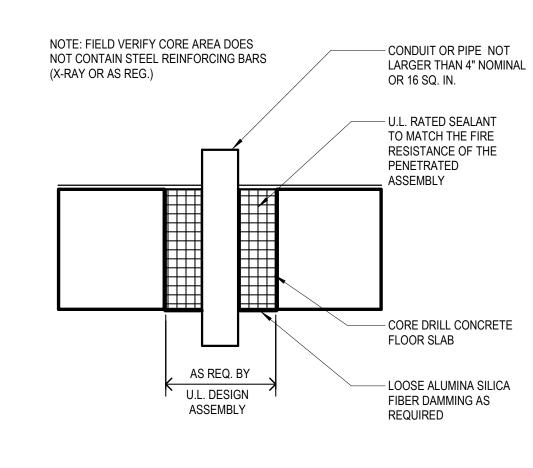
E. All backing support for wall mounted items shall be 16 gauge min. metal strapping, UNO.

F. Brace interior non-bearing walls to structure per Architectural Drawings.

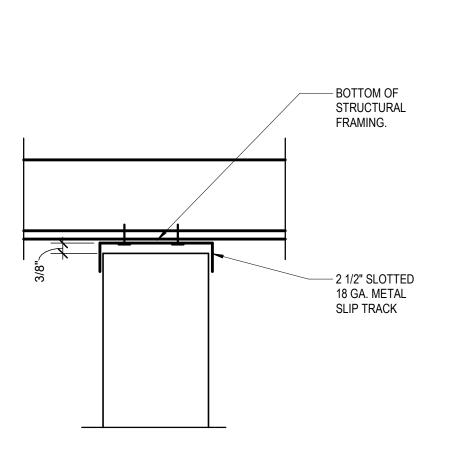
G. Slotted slip track shall be used at all top of full-height wall conditions subject to loading by deflection of the structure above.

H. All light gauge metal framing shall be installed in strict accordance with ASTM 754 "Standard Specifications for Installation of Steel Framing Members".

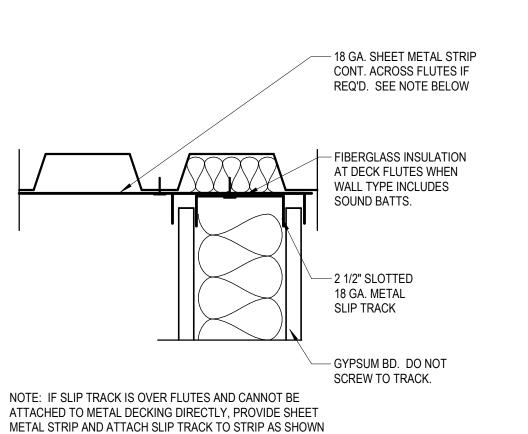
I. At IDF and MDF rooms, provide 8' high fire rated plywood panels continuous at all walls as required to mount special system equipment. Paint plywood except at fire rating stamp typical.



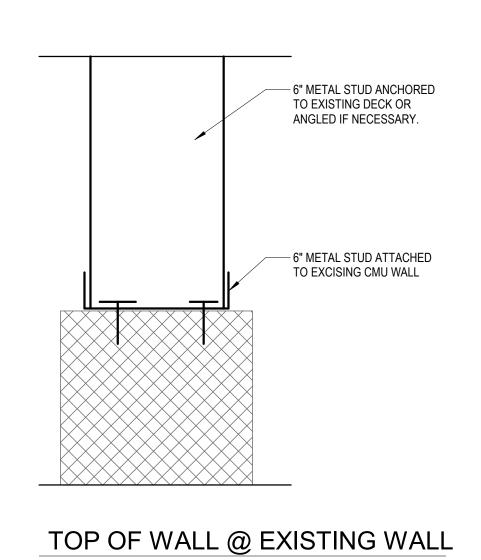


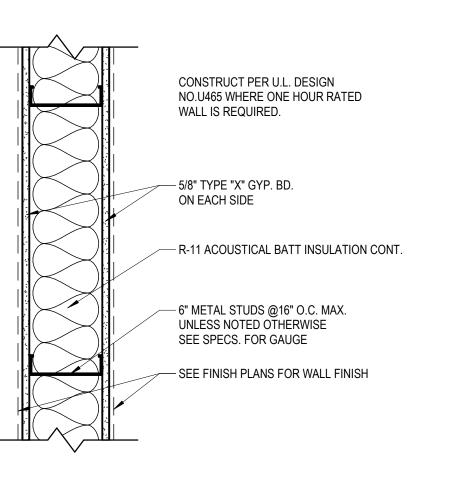


TOP OF WALL @ STRUCT FRAME CONDITION 2

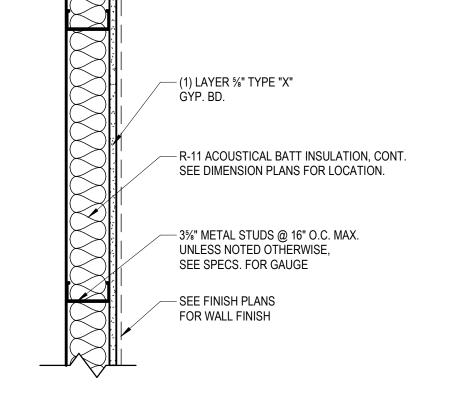


TOP OF WALL @ METAL DECK **CONDITION 4**

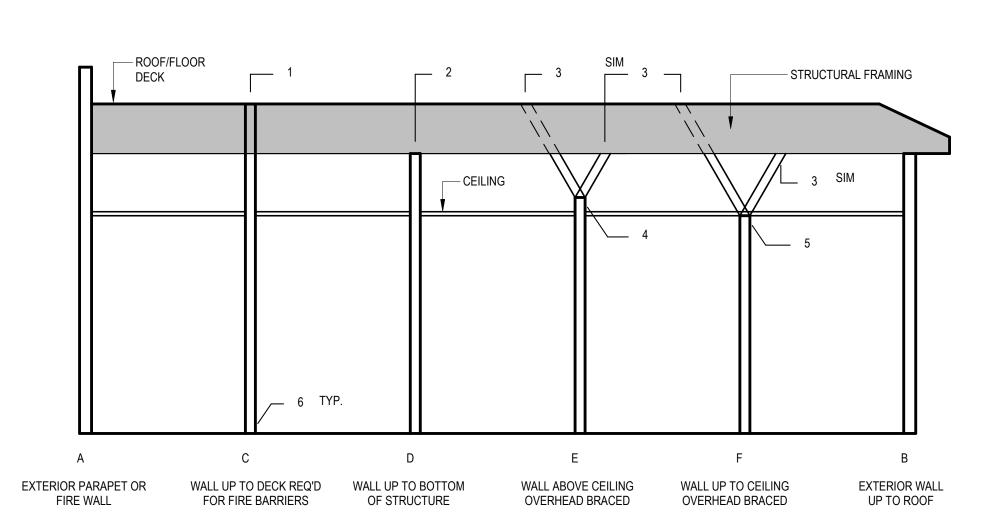














GENERAL NOTES

- A. Do not scale drawings. Rely only on Architect's written dimensions.
- B. Typical details may not be necessarily be cut on plans, but apply unless noted
- C. All work and material shall be regarded as new unless specifically indicated as "existing" or "(e)" on the drawings and/or within the specifications.
- D. Contractor shall coordinate all trades and methods of construction as required for completion of the project with the intent of these documents.
- E. All materials and unfinished surfaces exposed to view shall be painted unless
- factory prefinished, noted otherwise, or directed by the Architect. F. No utilities, plumbing, piping, conduit, etc. shall be exposed without the written approval of the Architect.
- G. Should dimensions be missing or conflicting, notify the Architect prior to proceeding with related work.
- H. Contractor shall verify locations of utilities prior to excavating, trenching, etc. and shall repair or replace utilities damaged as a result of construction.
- I. Contractor shall be responsible for all temporary shoring and bracing required during construction.
- J. Security and safety are the Contractor's responsibility. Site shall be completely fenced and secured during construction.
- K. No asbestos shall be used or incorporated into the project in any form. L. Separate dissimilar metals as they occur and/or per manufacturer's
- recommendations.

M. Apply sealant at intersections of all dissimilar materials.

N. Contractor shall furnish and install an Orcutt | Winslow job site sign or banner per Section 150000 in a prominent location as directed by the Architect.

Center Line

Clean Out

Column

Carpet

DF Drinking Fountain

Diameter

Dimension

Downspout

Expansion Joint

Elevation

Floor Drain

FIN FLR Finished Floor

FIN GR Finished Grade

FIN Finish

FLR Floor

GAL Galvanized

GYP BD Gypsum Board

GYP Gypsum

HB Hose Bibb

HM Hollow Metal

HORIZ Horizontal

INFO Information INT Interior

LAV Lavatory
LLH Long Leg Horizontal
LLG Long Leg Vertical
LVR Louver

GLU LAM Glue Laminated Wood

Inside Diameter

FDC Fire Department Connection

FEC Fire Extinguisher Cabinet

Equal

CT Ceramic Tile

CONC Concrete

CONT Continue

DWG Drawing

ELEC Electric

EXIST Existing

Concrete Masonry Unit

Ceiling

Clear

CLG

CLR

CMU CO

COL

DIA DIM

EQ

REFERENCE KEYNOTE ## ####.A ABBREVIATIONS LIST - WALL TYPE NUMBER AS DESCRIBED THE US NATIONAL CAD STANDARDS MODULE 4 TERMS AND ABBREVIATIONS, INCLUDING THE FOLLOWING: WALL TAG Air Conditioning/Conditioner MAX Maximum Anchor Bolt MECH Mechanical CONDITION Aggregate Base Course MFR Manufacturer Acoustical Ceiling Tile MO Masonry Opening WINDOW TAG Above Finish Floor MIN Minimum ALT Alternate MISC Miscellaneous ALUM Aluminum MTL. Metal REVISION BRG Bearing NIC Not In Contract Beam NTS Not To Scale **ROOM NAME** BUR Built up roof ROOM NAME & NUMBER OC On Center Cast Iron OD Outside Diameter Control Joint OPP Opposite

ORD Overflow Roof Drain

PL Property Line

PLAM Plastic Laminate PLMB Plumbing

PLYWD Plywood

PWR Power

RD Roof Drain

RO Rough Opening

S/S Stainless Steel

Square Foot Sheet

Specifications

Sanitary Sewer

Tongue and Groove

Top of Curb/Concrete

Standard

Temporary

Top of Beam

Top of Joist

Top of Steel

UNO Unless Noted Otherwise

VCT Vinyl Composition Tile

Top of Wall

Typical

UGNG Underground

VERT Vertical

WC Water Closet

Wood Water Heater

WWF Welded Wire Fabric

TOM Top of Masonry

Similar

SCHED Schedule

SQ Square

STRUCT Structural

SUSP Suspended

TMPD Tempered

STD

TEMP

TOB

TOC

TOS

TOW

TYP

TYPICAL SYMBOLS LEGEND

NORTH ARROW

EXTERIOR ELEVATION

INTERIOR ELEVATION

DOOR TAG

SHEET KEYNOTE

/— DOOR NUMBER

─ DOOR RATING(MIN.)

OR SECTION, UNLESS NOTED OTHERWISE ABOVE.

MATERIALS LEGEND NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN **GRANULAR FILL** SAND, GROUT AS NOTED CAST-IN-PLACE CONCRETE PRECAST CONCRETE, CAST STONE CONCRETE MASONRY UNIT BRICK MASONRY STONE: LIMESTONE, GRANITE, MARBLE OR AS NOTED TERRA COTTA, STRUCTURAL CLAY METAL: TYPE AS NOTED METAL: ROLLED SHAPES

FINISHED WOOD SHOWN CUT AND ELEVATION

ENGINEERED WOOD: GLUE LAMINATED OR SIDING

PARTICLEBOARD PLYWOOD

Fire Protection systems to be approved by [Enter AHJ] Fire Department and

Fire Alarm System Provide shop drawings, separate permit submittal, and permit fees for the fire alarm system modifications in the building. Agency review and the fire alarm system.

Fire Sprinkler System Provide shop drawings, flow testing, separate permit submittal, and permit fees for the fire sprinkler system modifications in the building per NFPA-13. Provide one copy of permitted drawings to Architect. A separate additional Permit may be required prior to starting any work on the fire sprinkler system.

Submit Shop Drawings per Section 13300 for review by the Structural Engineer. Open-Web Steel Joists per Structural Drawings

DEFERRED SUBMITTALS

HVAC Heating/Ventilating/Air Conditioning WD

Per IBC 107.3.4.1 DEFERRED SUBMITTALS Documents for Deferred Submittal items shall be submitted to the Registered Design Professional in Responsible Charge, who shall review and forward them to the Building Official with a notation indicating that the Deferred Submittal Documents have been reviewed and been found to be in general conformance to the design of the building. The Deferred Submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.

Development Services Department.

separate additional permit may be required prior to starting any work on

WOOD FLOOR, WOOD SHINGLES,

GLASS FIBER REINFORCED CONCRETE SIDING OR TRIM

SPRAYED FIREPROOFING SHOWN ON ROLLED SHAPE BATT INSULATION: THERMAL OR ACOUSTICAL, UNO

RIGID INSULATION: THERMAL, ACOUSTICAL, OR SAFING SHEATHING: GYPSUM, OR AS NOTED

ACOUSTICAL CEILING TILE WOOD FRAMING / BLOCKING: CONTINUOUS WOOD SHIM

> MEMBRANE: WATERPROOF, ROOF, DAMPPROOFING AIR BARRIER SYSTEM

Midlothian ISD 100 Walter Stephenson Rd. Midlothian, TX 76065

468-856-5000 T rola.fadel@misd.gs 000-000-0001 F OWP PROJECT NO. DATE OF ISSUE

CLIENT CONTACT

2022-110-00 04.28.2022

REVISIONS

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04/28/2022

Date Signed:xx/xx/xxxx

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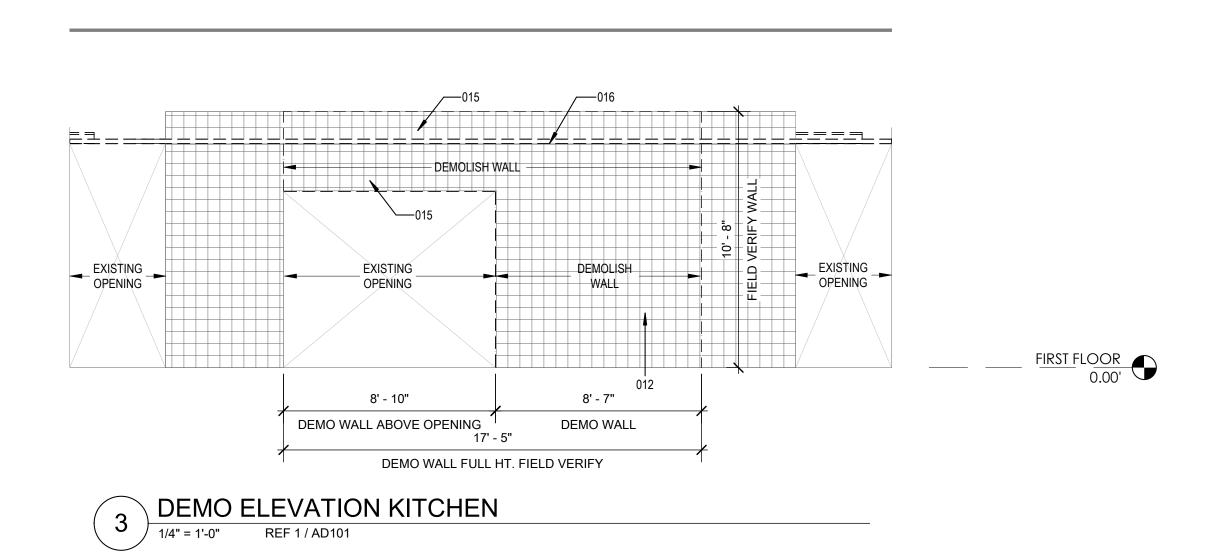
ED TEXAS PROJECT PHASE

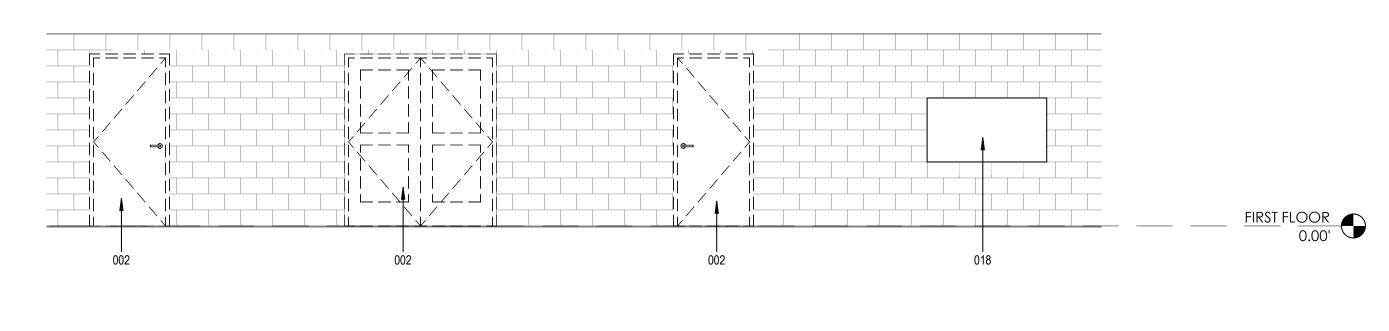
PROJECT TEAM

CONSTRUCTION DOCUMENTS SHEET CONTENTS

WALL TYPES/PROJECT **INFORMATION**

G-002

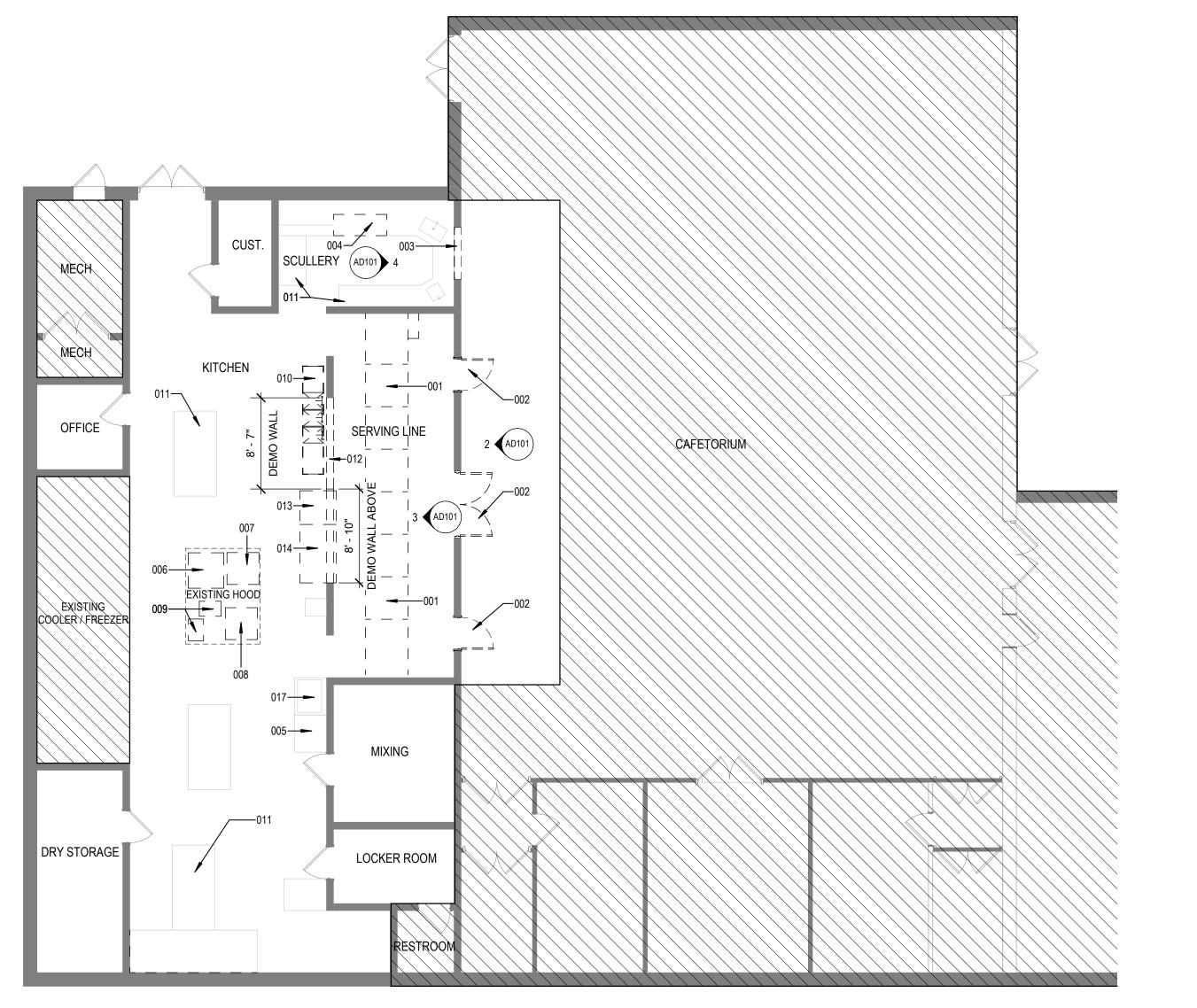




2 DEMO ELEVATION WALL CAFETORIUM

1/4" = 1'-0" REF 1 / AD101

4/28/2022 2:40:41 PM orcutt | winslow / 2022-110-00 / KITC C:\Users\avina.e\Documents\2022_110MBEK_R22_avina.e.rv



FIRST FLOOR DEMO PLAN

GENERAL SHEET NOTES

- A. Sawcut and remove existing concrete floor slab to accommodate new utility work. Compact trench backfill and patch floor slab to match existing.
- B. Coordinate demolition with new construction. All demolition and repair necessary to accomplish new construction shall be included. Contractor shall remove all existing improvements whether or not specifically indicated on the drawings to facilitate the completion of all required work. Contractors shall visit the site and verify all quantities and items required to be removed.
- C. Where gypsum board is to remain, patch, tape and float portion of wall to match adjacent new finish.
- D. Contractor to coordinate demolition so all wiring, conduit, equipment, etc. to remain is not damaged. Certain items may be temporarily removed and replaced later during course of restoration. General Contractor will be required to incorporate this work into their schedule. The systems may include, but are not limited to the following: EMS/controls, electrical power and lighting, data, audiovisual, security, intercom, CATV, etc. Contractor to tag and loop wire to remain back to control panels, typical.
- E. Any plumbing to be demolished shall have piping terminated above finished ceiling, below finished floor, and behind finished walls. All drain/waste/vent piping to be capped and sealed at all openings per requirements of AHJ.
- F. Remove existing ceiling grid, suspension wires, lighting fixtures, conduits, exit signs, speakers, smoke detectors, curtain tracks, HVAC diffusers and return grilles, and any other ceiling mounted apparatus in all areas of demolition,
- G. Remove floor and wall covering typical throughout areas of demolition (UNO) and any other areas as affected by demolition/new construction. Parge, float and/or prepare floor and wall surfaces to receive new finishes.
- H. Contractor shall remove and replace any fireproofing or firestopping damage during demolition or new construction to conform to proper rating. I. Contractor shall provide full height temporary partitions with UL rating as

needed to separate the construction activity, noise, and dirt from adjacent

J. Contractor shall coordinate any shutdown required during demolition with

areas (refer to proposed Phasing Plan).

K. Contractor to maintain or repair fire and smoke ratings of existing floor, roof and wall assemblies throughout.

SHEET KEYNOTES

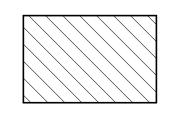
- 001 REMOVE SERVING LINE RETURN TO OWNER REMOVE DOOR AND FRAME CARFULLY NOT DAMAGE EXISTING CONDITIONS TYP.
- REMOVE SMALL TRAY RETURN STEEL ROLL-UP DOOR REMOVE DISH WASHER MACHINE AND HOOD RETURN DISH
- WASHER MACHINE TO OWNER MOVE EXISTING ICE MACHINE TO CAFETORIUM FOR NEW
- FLOOR INSTALLATION TYP. REMOVE BRAISING PAN RETURN TO OWNER
- REMOVE COMBIOVEN STACKED RETURN TO OWNER REMOVE STACKED OVENS RETURN TO OWNER
- REMOVE SMALL TABLE WARMER AND TWO BURNER TOP RETURN TO OWNER
- REMOVE 3 COMPARTMENT SINK CAP ALL WATER LINES RETURN 010
- 011 ALL STAINLESS STEEL TABLES AND RACKS ARE NOT IN CONTRACT. MOVE TO CAFEFTORIUM FOR NEW FLOOR INSTALLATION TYP.
- 012 REMOVE CMU WALL FULL HEIGHT. DIAMOND SAW CUT 013 REMOVE SINGLE PASS-THRU COOLER REFRIGERATOR RETURN
- 014 REMOVE DOUBLE PASS-THRU WARMER CABINET RETURN TO
- 015 REMOVE CMU BLOCK ABOVE EXISTING OPENING. DIAMOND SAW CUT. FIELD VERIFY WALL HEIGHT
- 016 REMOVE CEILING TILE AND GRID
- MOVE EXISTING COMPARTMENT SINK TO CAFETORIUM FOR NEW FLOOR INSTALLATION TYP. 018 PROTECT STAINLESS STEEL OPENING DURING DEMOLITION

DEMOLITION LEGEND

EXISTING WALLS, STRUCTURE, WINDOWS, ETC. TO REMAIN

EXISTING WALL TO BE REMOVED

___ __ LINE OF EXISTING WALK, STAIR,
FIXTURE OR OTHER SIMILAR ITEM TO
BE REMOVED.



NO WORK AREA

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third floor

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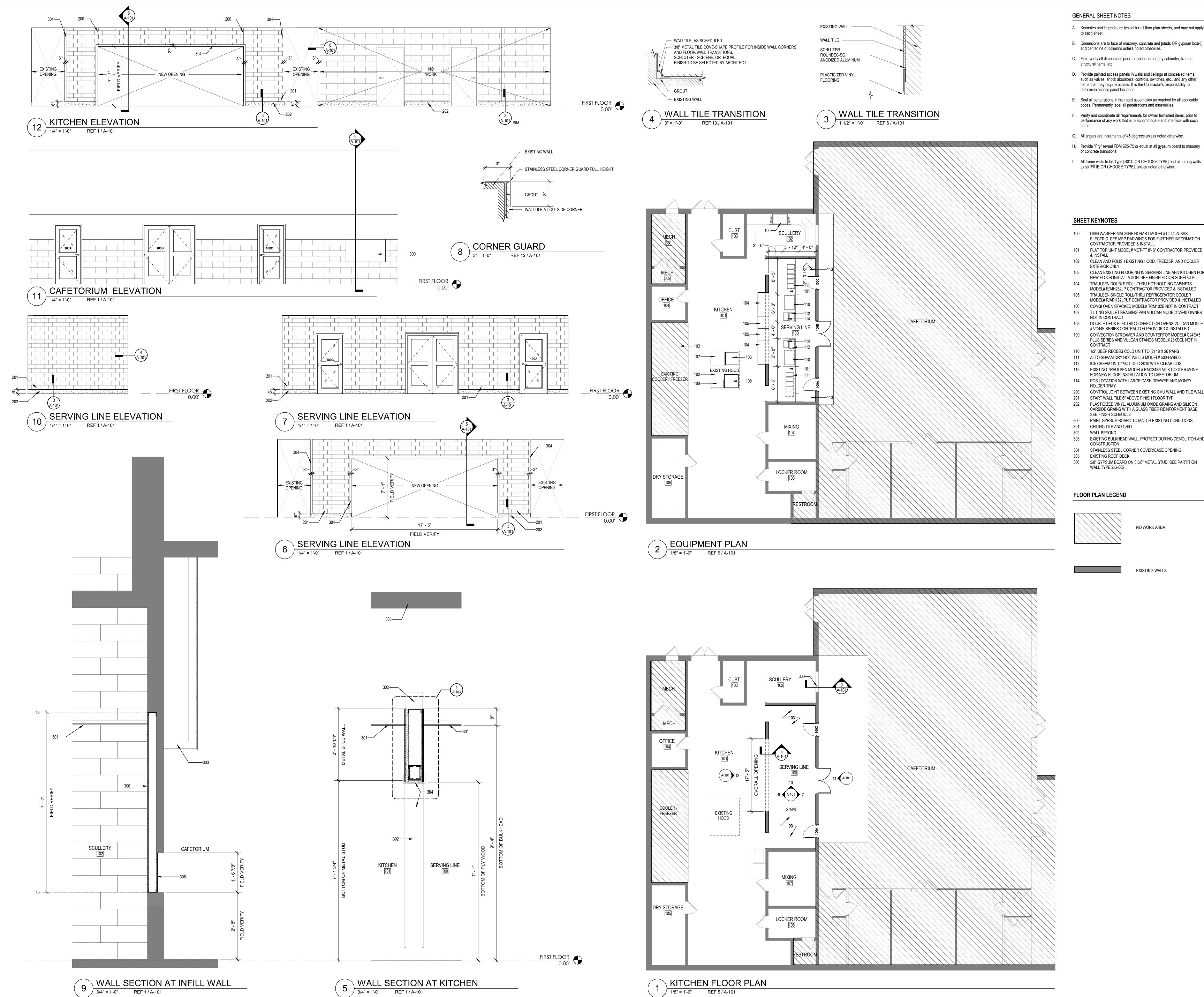
PROJECT TEAM **ED TEXAS**

PROJECT PHASE

CONSTRUCTION DOCUMENTS SHEET CONTENTS DEMOLITION PLANS

SHEET NO.

AD101



GENERAL SHEET NOTES

A. Keynotes and legends are typical for all floor plan sheets, and may not apply to each sheet.

B. Dimensions are to face of masonry, concrete and [studs OR gypsum board]

and centerline of columns unless noted otherwise.

C. Field verify all dimensions prior to fabrication of any cabinetry, frames, structural items, etc.

D. Provide painted access panels in walls and ceilings at concealed items, such as valves, shock absorbers, controls, switches, etc., and any other items that may require access. It is the Contractor's responsibility to determine access panel locations.

E. Seal all penetrations in fire rated assemblies as required by all applicable codes. Permanently label all penetrations and assemblies. F. Verify and coordinate all requirements for owner furnished items, prior to performance of any work that is to accommodate and interface with such

G. All angles are increments of 45 degrees unless noted otherwise.

H. Provide "Fry" reveal FDM 625-75 or equal at all gypsum board to masonry or concrete transitions.

I. All frame walls to be Type [S01C OR CHOOSE TYPE] and all furring walls to be [F01E OR CHOOSE TYPE], unless noted otherwise.

SHEET KEYNOTES

100 DISH WASHER MACHINE HOBART MODEL# CL44eN-BAS ELECTRIC. SEE MEP DARWINGS FOR FURTHER INFORMATION

CONTRACTOR PROVIDED & INSTALL 101 FLAT TOP UNIT MODEL# MCT-FT 8'- 5" CONTRACTOR PROVIDED

CLEAN AND POLISH EXISTING HOOD, FREEZER, AND COOLER EXTERIOR ONLY

CLEAN EXISTING FLOORING IN SERVING LINE AND KITCHEN FOR NEW FLOOR INSTALLATION. SEE FINISH FLOOR SCHEDULE.

TRAULSEN DOUBLE ROLL-THRU HOT HOLDING CABINETS MODEL# R/AIH232LP CONTRACTOR PROVIDED & INSTALLED TRAULSEN SINGLE ROLL-THRU REFRIGERATOR COOLER MODEL# R/ARI132LPUT CONTRACTOR PROVIDED & INSTALLED COMBI OVEN STACKED MODEL# TCM102E NOT IN CONTRACT

NOT IN CONTRACT DOUBLE DECK ELECTRIC CONVECTION OVENS VULCAN MODLE # VC44E SERIES CONTRACTOR PROVIDED & INSTALLED CONVECTION STREAMER AND COUNTERTOP MODEL# C24EA3

PLUS SERIES AND VULCAN STANDS MODEL# 28XSGL NOT IN 1/2" DEEP RECESS COLD UNIT TO (2) 18 X 26 PANS

ALTO-SHAAM DRY HOT WELLS MODEL# 500-HWI/D6 ICE CREAM UNIT #MCT-DI-IC-2010 WITH CLEAR LIDS

EXISTING TRAULSEN MODEL# RMC34S6 MILK COOLER MOVE FOR NEW FLOOR INSTALLATION TO CAFETORIUM 114 POS LOCATION WITH LARGE CASH DRAWER AND MONEY

HOLDER TRAY CONTROL JOINT BETWEEN EXISTING CMU WALL AND TILE WALL START WALL TILE 6" ABOVE FINISH FLOOR TYP.

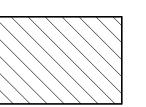
CARBIDE GRAINS WITH A GLASS FIBER REINFORMENT BASE. SEE FINISH SCHEUDLE 300 PAINT GYPSUM BOARD TO MATCH EXISTING CONDITIONS CEILING TILE AND GRID

WALL BEYOND EXISTING BULKHEAD WALL. PROTECT DURING DEMOLITION AND

CONSTRUCTION 304 STAINLESS STEEL CORNER COVER/CASE OPENING

EXISTING ROOF DECK 306 5/8" GYPSUM BOARD ON 3 5/8" METAL STUD. SEE PARTITION WALL TYPE 2/G-002

FLOOR PLAN LEGEND



NO WORK AREA

EXISTING WALLS

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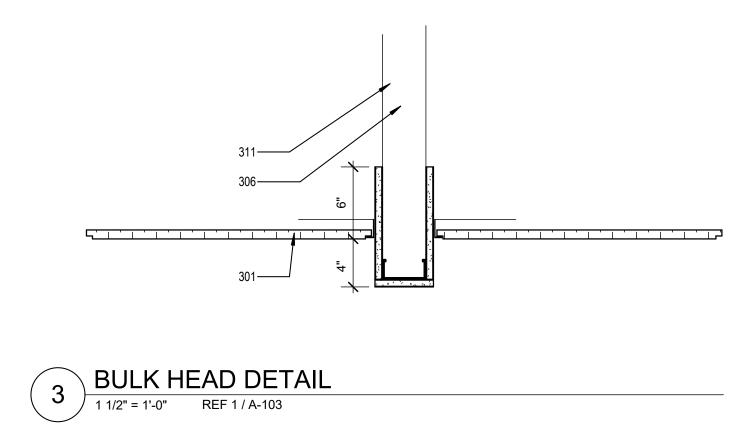
PROJECT TEAM

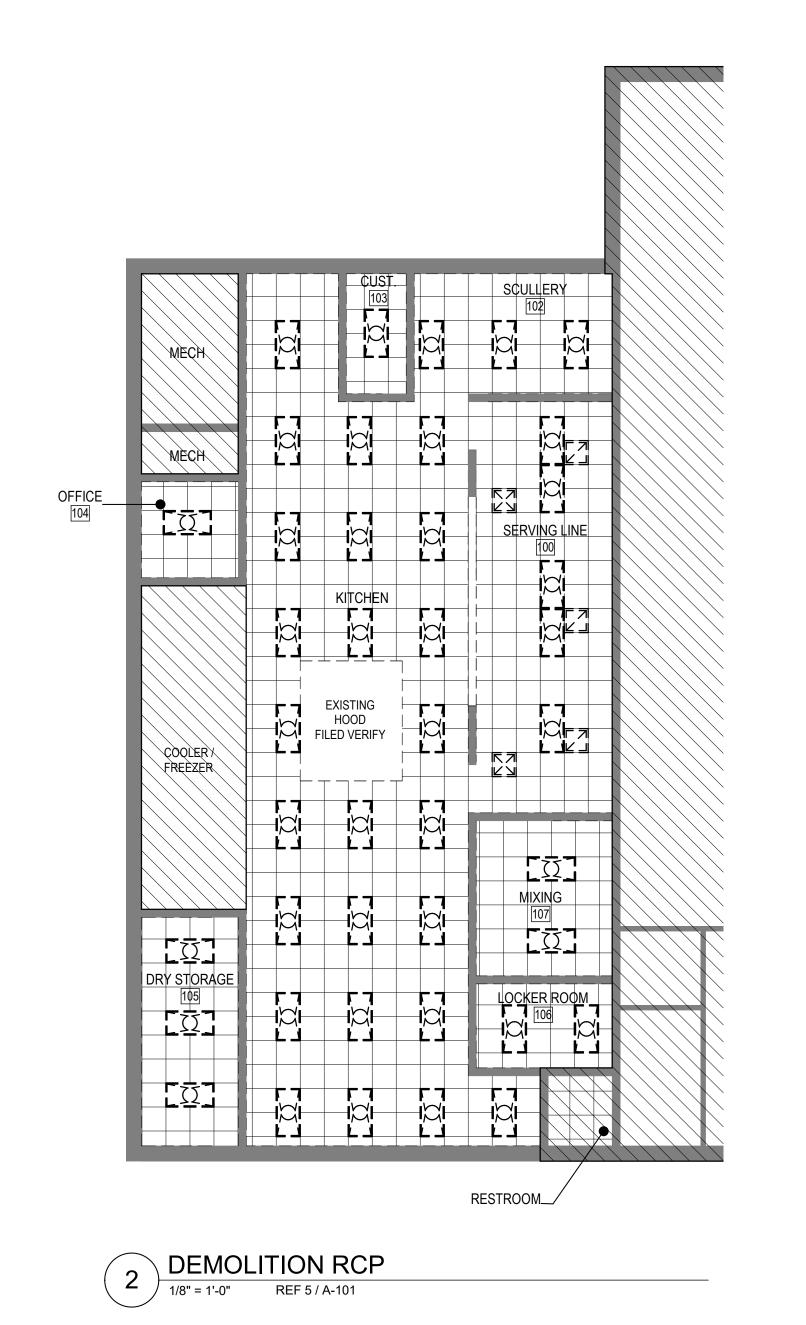
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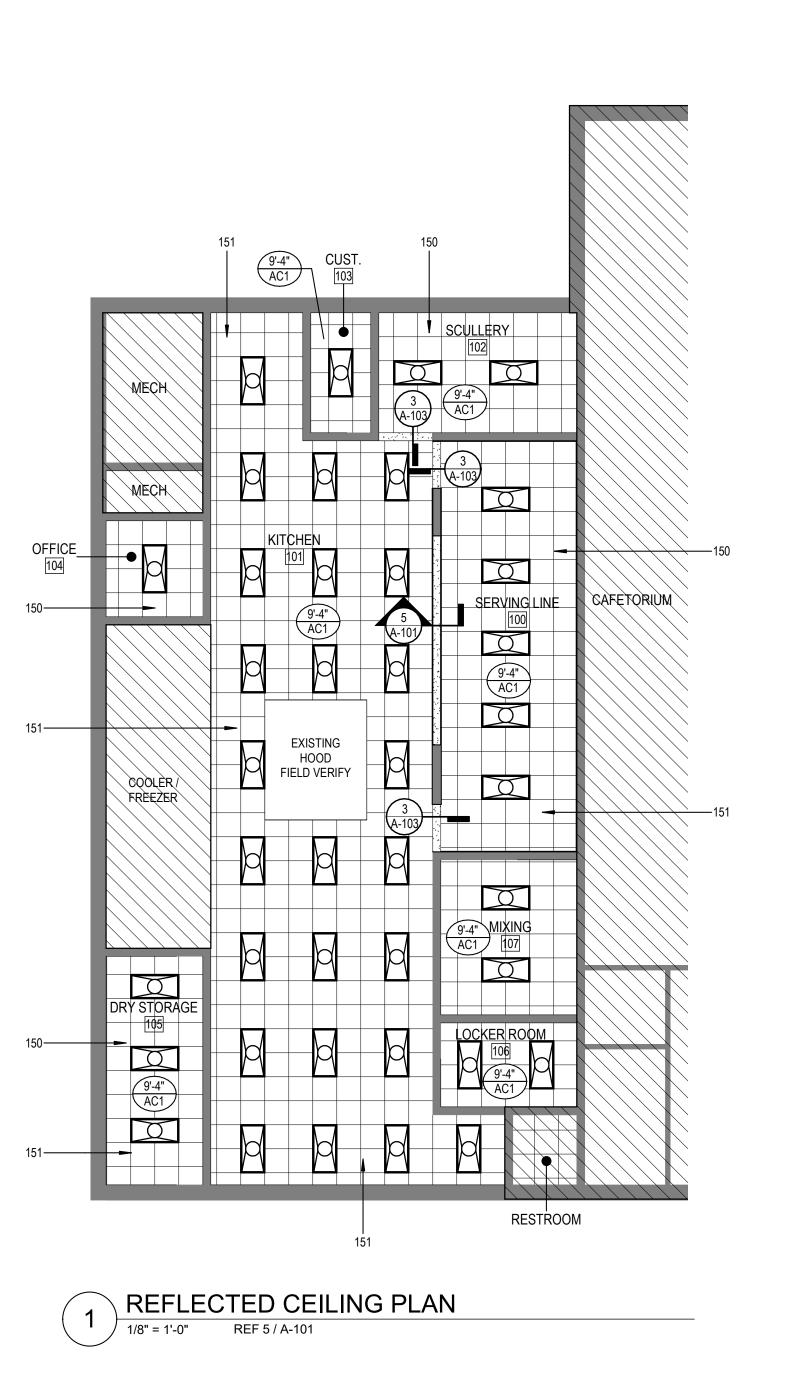
CONSTRUCTION DOCUMENTS SHEET CONTENTS FIRST FLOOR PLAN

SHEET NO.

A-101







GENERAL SHEET NOTES

A. Ceilings and other suspended items shall be attached to structure by fully embedded or "shear" connection; pull out connections are not acceptable. 5016 centennial blvd

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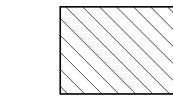
- B. All gypsum board ceilings shall be 5/8" type 'X' gypsum board on light gauge framing or suspension system.
 - C. Ceiling and soffit heights noted on Reflected Ceiling Plans, are above finish
- D. Center all devices, sprinkler heads, etc. in ceiling tiles.
- E. All soffits over casework to extend 1" beyond the face of casework.
- F. Provide continuous sound batt insulation above all toilet room ceilings. G. Fire sprinkler contractor shall reference all drawings and specifications for determining proper coverage and sprinkler head layout/design.
- H. Reveal molding to be used at all intersections of different materials. All soffit reveals shall be a continuation of vertical wall reveals. I. Refer to electrical drawings for location of reused, relocated, existing or new light locations. Patch all GWB ceilings with new gypsum wall board where damaged or removed for new work. Match existing depth, finish and color of ceiling to be patched.
- J. Ceiling heights indicated in existing areas are approximate. Maximize where possible. Where ceiling grids are to extend, match existing height, direction, manufacturer, style, color and type of grid.

REFERENCE KEYNOTES

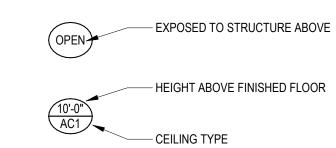
SHEET KEYNOTES

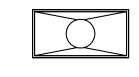
- 150 KITCHEN CEILING TILE VINYL COATED / CLEANABLE AND GRID TYP. SEE SPECIFICATIONS
- 151 REF. ELEC FOR SUPPLY AND RETURN AIR GRILLS TYP. 301 CEILING TILE AND GRID
- STAINLESS STEEL CORNER COVER/CASE OPENING 5/8" GYPSUM BOARD ON 3 5/8" METAL STUD. SEE PARTITION
- WALL TYPE 2/G-002 WALL CERAMIC TILE ON WATER PROOF GREEN GYPSUM BOARD ON 3/4" PLYWOOD ON 6" METAL STUD ALIGN WITH EXISTING
- WALL. SEE PARTITION WALL TYPE 3/G-002 WALL CERAMIC TILE ON WATER PROOF GREEN GYPSUM BOARD ON 6" METAL STUD ALIGN WITH EXISTING WALL. SEE PARTITION
- WALL TYPE 3/G-002 309 3/4" PLYWOOD ON 6" METAL STUD
- 310 6" METAL STUD BOX BEAM 311 3 5/8" METAL STUD TO DECK BRACE AS REQUIRED

RCP LEGEND



NO WORK AREA



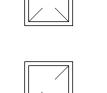


RECESSED LED DOWNLIGHT

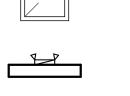
CEILING MOUNTED 2x4 LED



SUPPLY DIFFUSER (SEE MECH.)



RETURN DIFFUSER (SEE MECH.)



EMERGENCY LIGHT (SEE ELEC.) CEILING MOUNTED EMERGENCY

EXIT LIGHT (SEE ELEC.) WALL MOUNTED EMERGENCY EXIT LIGHT (SEE ELEC.)

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000-000-0001 F OWP PROJECT NO. DATE OF ISSUE

2022-110-00 04.28.2022

PROJECT TEAM **ED TEXAS**

PROJECT PHASE

CONSTRUCTION DOCUMENTS SHEET CONTENTS

FIRST FLOOR RCP

A-103

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												[DOOR	AND	FRAME SCHE	EDULE	
	Door Size			Panel			Frame						δ				
Door Number	Width	Height	Thickness	Туре	Material	Finish	Туре	Material	Finish	Sidelite Width	Transom Height	Door Rating	Glazing Type	Hardware Set	Door Accessories	Function	Remarks
100A	36"	84"	1 3/4"	G2	AL	AA	F1	AL	AA				TEMP	553AS	(none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 553AS
100B	72"	84"	1 3/4"	G2	AL	AA	F2	AL	AA				TEMP	553AS	(none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 553AS
100C	36"	84"	1 3/4"	G2	AL	AA	F1	AL	AA				TEMP	553AS	(none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 553AS

HARDWARE GROUP NO. 553AS For use on Door #(s): 100A, 100B, AND 100C

Provide each SGL door(s) with the following: QTY DESCRIPTION CATALOG NUMBER

5BB1 4.5 X 4.5 (HW @ 3'6" & LGR, 1EA EVERY 30") 3 EA HINGE 1 EA CLASSROOM SECURITY ND75TD SPA XN12-035 2 EA PERMANENT CORE 23-030 - KEYED AS DIRECTED

BY DISTRICT 1 EA OHSTOP 100S - SIZE AS REQ 1 EA NOTE SEAL BY DOOR/FRAME MFG

HARDWARE NOTE:

DOOR # 100B - USE A PAIR OF HINGES

GENERAL SHEET NOTES

A. Fire Protection Glazing - Glazing in Fire Window assemblies shall be fire protection rated in accordance with the requirements of IBC section 715.

Safety Glazing - All glazing at hazardous locations subject to human impact loads shall comply with IBC section 2406.

C. Refer to Accessible Details for plumbing fixtures and accessories

DOOR PANEL MATERIAL

AL ALUMINUM HOLLOW CORE WOOD HM HOLLOW METAL SC SOLID CORE WOOD

STD MANUFACTURER'S STANDARD ZO OTHER, SEE SPECS

DOOR PANEL FINISH ANODIZED ALUMINUM PLASTIC LAMINATE PAINTED METAL MANUFACTURER'S STANDARD STD WOOD VENEER - PAINTED WP WOOD VENEER - PREFINISHED WV

OTHER, SEE SPECS. DOOR FRAME MATERIAL

AL ALUMINUM HM WELDED HOLLOW METAL KD KNOCK DOWN FRAME MFR FRAME BY MANUFACTURER

DOOR FRAME FINISH

AA ANODIZED ALUMINUM PLASTIC LAMINATE

WD WOOD

PM PAINTED METAL STD MANUFACTURER'S STANDARD

WP WOOD VENEER - PAINTED WV WOOD VENEER - PREFINISHED ZO OTHER, SEE SPECS

AO AUTOMATIC / LOW ENERGY OPERATOR CR CARD READER CONTROLLER

DOOR GLASS TYPE

MR MIRROR

FRG FIRE RATED GLASS LSG LAMINATED SAFETY GLASS

PC POLYCARBONATE

TG TEMPERED GLASS

DOOR ACCESSORIES

ES ELECTRIC STRIKE MAGNETIC HOLD OPEN KEY PAD CONTROLLER PUSH BUTTON CONTROLLER

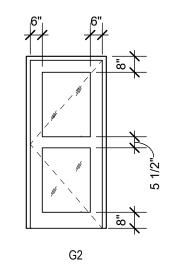
PS POSITION INDICATOR SWITCH

ELECTRIFIED HARDWARE LOCKSET

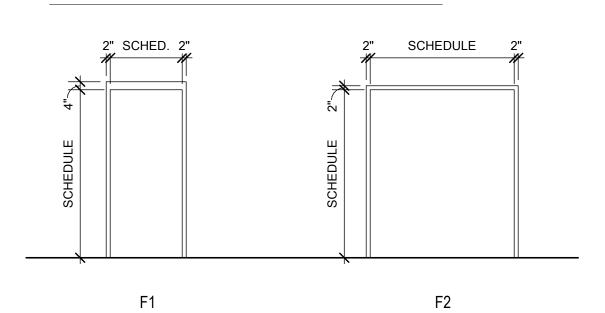
20, 45, 60 ASSEMBLY RATING IN MINUTES

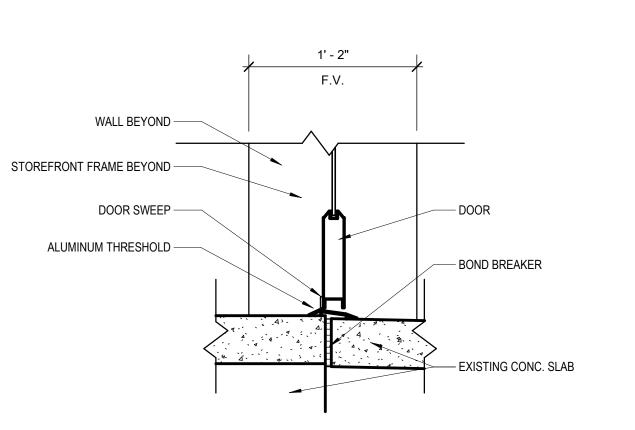
H-# HARDWARE SET NUMBER PER SECTION 087100 ‡

DOOR TYPE LEGEND1



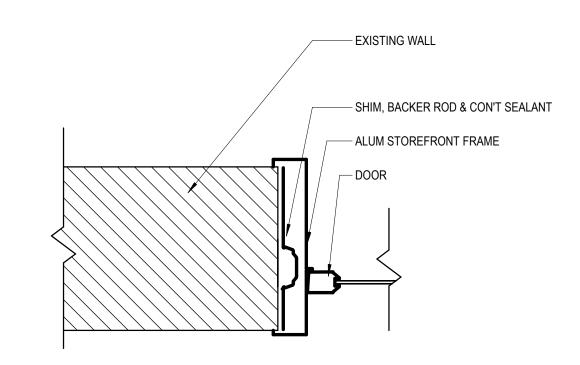
DOOR FRAME TYPES1





ALUMINUN STOREFRONTTHRESHOLD

1 1/2" = 1'-0"



2 ALUMINUN STOREFRONT JAMB
1 1/2" = 1'-0"

third floor nashville, tn 37209 mail@owp.com

5016 centennial blvd

615.298.2525 t www.owp.com 04/28/2022

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CLIENT CONTACT Midlothian ISD

100 Walter Stephenson Rd. Midlothian, TX 76065 468-856-5000 T rola.fadel@misd.gs

000-000-0001 F OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

PROJECT TEAM DRAWN BY **ED TEXAS**

PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS DOOR SCHED./ELEV.

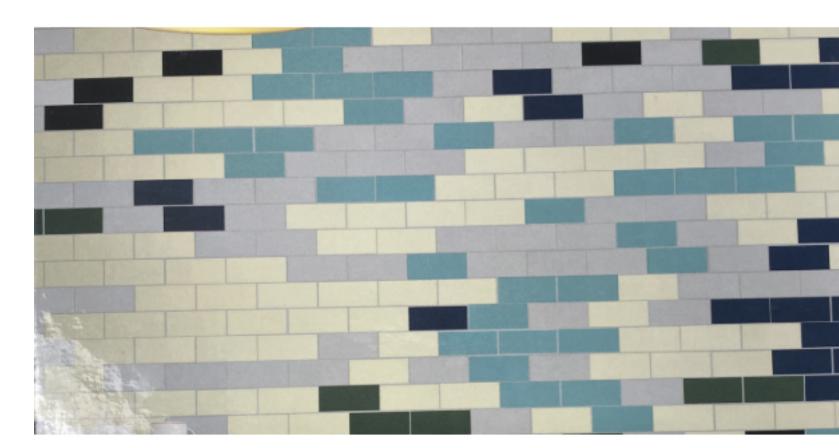
SHEET NO.

A-601

GENERAL SHEET NOTES

- A. All flooring materials to meet at center of doorway UNO.
- B. All flooring materials continue under casework to toe kick or under open counter to wall.
- C. Door frames to be painted <MFR>, Color: _____. Finish: Semi-gloss enamel, UNO.
- D. Refer to Reflected Ceiling Plan sheet(s) for soffit ceiling finishes.

WALL TILE COLOR MIXTURE





FINISH PLAN LEGEND

WALLS:

PT1 - WALL PAINT MANUFACTURER: SHERWIN WILLIAMS (OR EQUAL) COLOR: SW0000 MATCH EXISTING WALL COLOR FINISH: MATCH EXISTING FINISH AND TECTURE

T1 - WALL TILE, FIELD MANUFACTURER : CROSSVILLE RETRO ACTIVE 2.0 COLLECTION: COLOR: SIZE: RET04 EMPRESS WHITE UPS 6" X 12" GROUT: MAPEI 27 SILVER

T2 - WALL TILE, FIELD MANUFACTURER : CROSSVILLE RETRO ACTIVE 2.0 RET09 PHANTOM UPS COLLECTION: COLOR: SIZE: 6" X 12" GROUT: MAPEI 27 SILVER

T3 - WALL TILE, ACCENT MANUFACTURER: CROSSVILLE RET10 ACTIVE 2.0 COLLECTION: COLOR: SIZE: GROUT: RET10 UPS 6" X 12" MAPEI 27 SILVER

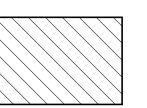
T4 - WALL TILE, ACCENT CROSSVILLE RETRO ACTIVE 2.0 MANUFACTURER: COLLECTION: COLOR: SIZE: GROUT: RET11 GULF BREEZE UPS 6" X 12" MAPEI 27 SILVER

T5 - WALL TILE, ACCENT MANUFACTURER: COLLECTION: **RETRO ACTIVE 2.0** COLOR: RET13 ROYAL NAVY PO SIZE: GROUT: 6" X 12" MAPEI 27 SILVER

PLASTICIZED VINYL, ALUMINUM OXIDE GRAINS AND SILICON CARBIDE GRAINS WITH A GLASS FIBER REINFORCEMENT MANUFACTURER: ALTRO COLLECTION: ALTRO STRONGHOLD 30 COLOR: CANNON-K30911 SIZE: N/A

PVAS1 - PLASTICIZED VINYL, ALUMINUM OXIDE GRAINS AND SILICON CARBIDE GRAINS WITH A GLASS FIBER REINFORCEMENT
MANUFACTURER: ALTRO
COLLECTION: ALTRO STRONGHOLD 30
COLOR: CANNON-K30911
SIZE: N/A

FLOOR PLAN LEGEND



NO WORK AREA

nashville, tn 37209 mail@owp.com 615.298.2525 t www.owp.com 04/28/2022

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third floor

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000-000-0001 F OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

REVISIONS

PROJECT TEAM

ED TEXAS PROJECT PHASE

CONSTRUCTION DOCUMENTS SHEET CONTENTS FLOOR FINISH PLAN

A-701

B. It is the intent and requirement of these Contract Documents that no asbestos is to be used or incorporated into this Project in any form. If asbestos in any form is incorporated into the construction, it shall be the Contractor's responsibility to remove it immediately and replace it with the approved materials at the Contractor's expense. C. It is the intent and requirement of these Contract Documents that all

and accessories included for a complete system. Whether all components necessary for a complete installation have been specified or shown in these documents **D.** All systems shall be stored and installed in complete accordance with all governing authorities for the project location. All materials shall be installed in accordance with manufacturer's recommendations.

systems be installed as a wholly functional systems with all components

E. Utilities Utilities, services, etc., cut or damaged by the Work shall be the Contractor's responsibility for repair and/or replacement in accordance with governing authority's requirements. Contractor shall obtain written approval from the Owner a minimum

of 72 hours prior to disconnection or shutting off service or utility. F. Contractor Use of Premises Contractor's parking, access, yards, etc., shall be limited to those areas on the site as specifically indicated and approved by owner. Contractor and workmen shall not trespass into area beyond the "Limit of Work" area without permission of building owner. 3. Contractor shall use and maintain in clean condition site access route as shown on site or site access plan. No other access shall

be used for vehicles or personnel. G. Portions of the Work may be in use by the Owner during the construction period and the Contractor shall make every effort to minimize disruption of on-going operations, including necessary safety and security at the construction site.

H. Examination of Existing Conditions 1. Verify dimensions for work to be installed by taking field measurements. Examine all surfaces, building utilities and supporting construction to receive any Work and report in writing to the Owner (with a copy to Architect) any detrimental conditions prior to beginning construction. . Failure to observe this requirement constitutes a waiver to subsequent claims to the contrary and holds Contractor responsible for correction(s) Owner may require. Commencement of Work will be construed as acceptance of conditions 2. Coordinate all work with other work that affects, connects with, or

will be concealed by the Work. Installation of Work 1. General: Install items in accordance with manufacturer's printed installation instructions and additional requirements as specified. Mounting: Wall mounted items shall be securely fastened to solid backing, blocking, or supports.

J. Accessibility of Systems: No equipment that must be operated or maintained shall be placed in an inaccessible location. Dampers, filters, controls, valves, expansion joints, electrical junction boxes, air handling units or filters, or other apparatus that must be located in walls, above ceilings, etc., shall be provided with suitable access doors that will permit proper operation, servicing

and access. The access door shall be fire rated where required to maintain the fire rating of the wall or ceiling. 2. Exhaust fans, fan coil units, VAV boxes or other air handling equipment shall not be located above hard ceiling areas. Piping fan covers, etc. shall be arranged to allow easy access to filters or other parts that may need maintenance. Valves, etc., shall be grouped to minimize the number of access panels required. Filters, valves, traps, controls, etc., that require periodic

maintenance and whose removal would cause adverse consequences to occupants, equipment or critical operations shall be supplied with manual bypasses whenever practical. **K.** Permits: Contractor shall obtain all permits and certifications of systems required by the AHJ.

SUBMITTAL PROCEDURES SECTION 01 3300 A. Required submittals to be provided within twenty-one (21) days of execution of contract.

B. Submission of Shop Drawings and Samples to the Architect are equired only those items specifically listed below. If Contractor submits Shop Drawings for items other than the above the Architect will not be obliged to review. Contractor shall be responsible for the procuring of Shop Drawings for his own use as he may require for the progress of the work, even though the Shop Drawings may not require the Architect's review. Following Contractor's review and approval, Contractor shall submit to the Architect. Submission of documents for review shall be made electronically (via e-mail) in .pdf format, or other means as agreed to.

C. Shop Drawings: Submit drawings showing sizes of members, methods of construction, mounting techniques and clearly indicating locations of any visible seams or joints in materials and transition details where abutting dissimilar materials. Product Data: Product information sufficient to confirm compliance with these specifications for the product specified. Do not submit manufacturer's catalogs without indicating the specific product. MSD sheets shall not be submitted.

D. Samples: Submit samples for verification of color, texture, pattern, etc. according to schedule below. Physical samples will not be returned. E. Fire Alarm System/Fire Sprinklers System Shop Drawings shall be submitted to the State and Authorities Having Jurisdiction (AHJ) by the Contractor and approval obtained prior to installation.

SCHEDULE OF PRODUCT SUBMITTALS Provide product submittals per the schedule below, U.N.O. Additional submittals may be required and should be confirmed with Architect.

Submittal Item Product Drawings Samples Data Schedule Thermal insulation Wood and metal doors Finish Hardware Floor and wall tile Carpet and base Acoustical Ceiling materials Resilient flooring and base Paints and stains Casework and countertops

SECTION 01 4500 . Where specific instructions in these Specifications require that a particular product and/or material be installed and/or applied by an "approved applicator" of the manufacturer ensure that such

certifications are in place and current. B. Where not more specifically described in the Specifications, workmanship shall conform to the methods and operations of best standards and accepted practices of the trade or trades involved, and shall include all items of fabrication, construction or installation regularly furnished or required for completion (including any finish), and for successful operation as intended.

C. All required Special Inspections, testing, verifications, etc. shall be the responsibility of the General Contractor to schedule and coordinate. **D.** Contractor accepts the responsibility of construction of a complete project that is code-compliant, weathertight with all systems complete and functional for their intended purpose.

SECTION 01 5000 TEMPORARY FACILITIES AND CONTROLS The Contractor shall be responsible for and comply with codes and regulations regarding potable drinking water, sanitation, dust control, fire protection, and other temporary controls. The Contractor shall comply with owner's requirements for working times, security, and health and safety standards.

B. Electricity: Power required for construction may be used from existing available on-site sources with the approval of the owner. C. Water: Water required for construction may be used from existing available on-site sources with approval of owner. **D.** Temporary sanitary facilities: Provide chemical toilets in numbers as

required, located as approved and maintained in a clean and sanitary condition. When permitted by the Owner the Contractor may use on-E. Temporary barricades: Shall be constructed of durable materials, adequately braced, self-supporting and dust-proof. The Fire Rating of temporary partitions must comply with applicable building codes and requirements of the AHJ. F. Noise: The Contractor shall secure agreement from the Owner prior to scheduling unusually noisy activity. It is understood and agreed upon

neither will be unduly inconvenienced by this requirement. G. Cleaning: Remove refuse, rubbish, scrap materials and debris daily. Use only cleaning materials recommended by manufacturer of surface to be cleaned. Vacuum clean interior building areas when ready to receive finish painting and continue vacuum cleaning on an as-needed basis until work is ready for acceptance.

that both parties will cooperate to minimize noise impacts and that

ECTION 01 6000 A. Delivery and Storage of Material

 Deliver manufactured materials in the original packages, containers or bundles bearing the name or identification mark of the manufacturer and store as recommended. 2. Deliver fabrications in as large assemblies as practicable and where specified to be shop-primed or shop-finished, they shall be packaged as required to preserve such priming or finish intact. 3. Store materials in such manner to properly protect from damage. Materials or equipment damaged by handling, weather, dirt or from

any other cause will not be acceptable. 4. Store materials so as to cause no obstructions, stored off sidewalks, roadways and underground services. B. Product Substitution This project is to include only the products, materials, equipment and systems that are indicated on the drawings, and as specified.

2. All requests for substitution shall be accompanied by a Substitution Request Form available from the Architect. Requests not accompanied by the form, shall not be considered. 3. The Architect's review for approval is for quality of visual appearance. It is the Contractor's responsibility to confirm and correlate quantities and dimensions and coordinate with trades whose work may be affected by the requested substitution. 4. Substitutions will not be considered if they are indicated or implied on Shop Drawings or if acceptance will require substantial revision to the Contract Documents. 5. Time spent reviewing substitution requests may be billed to the

Owner at the prevailing hourly rate. C. Maintenance Materials: Contractor shall provide additional finish materials for Owners use at completion of project. Provide approximately 2% of each floor, wall, ceiling finish materials in labeled

SECTION 01 7329 CUTTING AND PATCHING A. Structural Work: Do not cut-and-patch structural work in a manner resulting in a reduction of load-carrying capacity of load/deflection ration. Submit proposal and request and obtain Engineer's approval before proceeding with any cut-and-patch of structural work. B. Visual/Quality Limitations: do not cut-and-patch work exposed to view

(exterior and interior) in a manner resulting in noticeable reduction of visual qualities and similar qualities. 1. Engage the original installer/fabricator, or (if not available) an acceptable equivalent entity, to perform cutting and patching. 2. Refinish entire surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection. For an assembly, refinish

the entire unit. **C.** In every case, exercise extreme care in cutting operations, and perform such operations under adequate supervision. Openings shall be neatly cut and shall be kept as small as possible to avoid unnecessary

CLOSEOUT PROCEDURES A. Cleaning: Perform the following special cleaning for trades at

completion of work, employing only experienced workmen or professional cleaners for the final cleaning. 1. Remove marks, stains, fingerprints, soil and dirt from painted areas. Remove spots, soil, paint and mastic from tile work and wash same. Clean fixtures, equipment and piping; remove stains,

Remove temporary floor protections: clean and polish floors 3. Clean concrete walks and slabs of plaster or cement droppings, paint and other objectionable materials to present a neat, clean 4. Clean exterior and interior metal surfaces, including doors and windows and their frames

5. Clean items required to have a polished finish of oil, stains, dust, dirt, paint and the like; polish and leave without finger marks or B. Record Drawings: Contractor shall provide a clean set of drawings for the project and shall legibly denote the actual constructed condition of the project. Record Drawings shall be kept up-to-date during the entire

course of the work and available upon request for examination by the Architect and as a condition of Payment. Record Drawings shall include but not be limited to the following information. 1. Any changes from the contract documents secured with approval of the Architect via ASI, PR or RFI response.

2. Deviations from the sizes, locations, and from other features of installations shown in the Contract Documents shall be recorded. Shut-off valves and other controls shall be clearly marked. 3. Locations of underground Work shall be established by dimensions

to column lines or walls, locating all turns, etc., and by properly referenced centerline or invert elevations and rates of fall. 4. For Work concealed in the building, sufficient information shall be given so it can be located with reasonable accuracy and ease in

5. Upon substantial completion of the Work submit electronic copy of

the Record Drawings (with the professional seals removed or obscured) to the Architect. After approval provide Owner with (1) set each clean bond copy and electronic .pdf files. Owner's Manual: Submit one (1) complete copy of the Owner's Manual in .pdf format containing the following documents and any others required in other Sections.

1. AIA Documents: G706 - Contractor's Affidavit of Payment of Debts 2. G706-A - Contractor's Affidavit of Release of Liens G707 - Consent of Surety Company to Final Payment, if bonded.

4. Subcontractors, major suppliers list with companies, names, addresses and telephone numbers. 5. Guarantees/warranties, certifications from Subcontractors and General Contractor. 6. Affidavit from General Contractor and Subcontractors indicating no asbestos was utilized in the construction of the Work. (available

from the Architect). Maintenance/operation instructions 8. List of Extra Materials supplied to Owner, signed by Owner's representative (available from the Architect). Certifications and any required Special inspections

10. Other items required by these Specifications. D. Operating Manuals: Submit one (1) complete copy of the Operating Manual in .pdf format containing the following documents and any

others required in other Sections. 1. Operating instructions shall include complete operating sequence, control diagrams, description of method of operating machinery, machine serial numbers, factory order numbers, parts, tests, instruction books, suppliers phone numbers and addresses and

must be clearly marked on Record Drawings.

after fabrication. B. Installation individual equipment guarantees. Parts lists shall be complete in PROJECT CONDITIONS every respect showing parts and part numbers. Maintenance instructions shall include a written list of required and suggested maintenance for mechanical, plumbing, electrical or other equipment. Each item shall contain a brief description of the type and frequency of required maintenance. Include lists of filter sizes for air handling equipment, indicated "washable" or "disposable" and for which unit the filter is for. All shut off valves, dampers, etc.,

2. Upon substantial completion of the Project Work, submit one copy of the Maintenance Manual and Operating Instructions to the Architect for approval. Failure to properly complete and submit maintenance and operation manuals in a timely manner shall place responsibility for detrimental maintenance and operating procedures on the Contractor

E. Training: Schedule training with the Owner or Tenant's designated representative for each building system installed or modified. Each trade shall provide a trained representative who can instruct the Owner or Tenant's representative in the proper operation of the system. The Contractor shall provide a written report describing the date, time and persons present as well as the training performed.

SECTION 02 4100 Visit site and examine the existing Work area. B. Execute demolition Work in an orderly and careful manner with consideration for existing structures, including parts of the surrounding areas that are to remain. Protect existing active service lines whether indicated or not. Provide "walk-off mats" or other protection at entry to work area. Keep corridors clean and clear.

C. Use movable, covered debris boxes to convey the material through the building. Do not store or permit debris to accumulate on the site. **D.** Remove, protect and turn over to the Owner items noted to be salvaged. If item is to be used elsewhere on this project store and protect per section 01 6000, Product Requirements. **E.** Throughout construction, remove excess materials, equipment and debris and dispose of away from premises.

F. If hazardous materials are encountered the Contractor shall notify the

SECTION 03 3300 CAST IN PLACE CONCRETE A. System Description 1. Mix Design: The mix designs of the concrete for each portion of the

Owner before proceeding with work in the affected area.

work shall be as indicated below: a. Sidewalks, foundations and other exterior flatwork shall have a minimum strength of 2500 p.s.i. in 28 days. b. Interior slabs-on-grade shall have a design mix with a .45 water/cement ratio, U.N.O. c. A 15 mil vapor barrier shall be placed directly below any new

a. Cement shall be gray Portland cement as per ASTM C150,

Type II. Provide cement from a single source for exposed

A615, Grade 40, for bars #4 and smaller unless noted

floor slab. It is the contractor's responsibility to repair any existing vapor barrier (in a manner approved by the manufacturer) that is removed or damaged in the course of construction including all new utility trench areas, B. Materials Concrete

concrete work. b. Ready Mix concrete shall be batched, mixed and transported in accordance with the applicable provisions of ASTM C94. Reinforcing a. All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60, for bars #5 and larger and ASTM

otherwise on Drawings. 1. Conform to ACI 306-83 Standard entitled "Recommended Practice for Cold Weather Concreting" or ACI 305, "Recommended Practice for Hot Weather Concreting". 2. Deposit and consolidate concrete slabs in a continuous operation,

within the limits of construction joints until the placing of a panel or section is completed 3. All interior slabs shall have a smooth, dense, steel trowel finish, free of tool marks. Joints in exposed slabs shall be tooled with a small radius edger or sawcut within 24 hours. Floor flatness and levelness shall comply with standards of ACI 117 when tested in compliance with ASTM E1155 method. Contractor shall review floor finish specifications for more stringent requirements. 4. Protect freshly deposited concrete from premature drying and maintain at a relatively constant temperature. Cure concrete in manner as recommended by ACI. Curing compounds (if allowed)

used shall be compatible with finish flooring materials.

SECTION 06 1000

A. Materials

A. Dimensions: Conform to standards established by the American Lumber Standards Committee. Surfacing: S4S. Grade and species: No. 2 grade and any of the following

Hem-fir (north); NLGA. Southern pine; SPIB. Douglas fir-larch; WCLIB or WWPA Mixed southern pine; SPIB. Spruce-pine-fir; NLGA. Douglas fir-south; WWPA. Hem-fir; WCLIB or WWPA. Douglas fir-larch (north); NLGA. Spruce-pine-fir (south); NeLMA, WCLIB, or WWPA

ROUGH CARPENTRY

Exposed framing lumber (2" through 4" thick) where framing will not be concealed by other work, provide the Douglas Fir, Appearance Framing or (WWPA). Southern Pine, Appearance Grade, KD (SPIB). Redwood, Clear All Heart (RIS) Wood backing and blocking:

Minimum 2 x 6 Utility Grade lumber backing to be used for support of all horizontal and vertical edges of wall mounted items unless noted

> Connecting Hardware: Nails: Common wire, galvanized for exterior Work, meeting Federal Specification FF-N-101 of the sizes indicated on the Drawings and or as published in applicable industry standards. Screws: Standard domestic manufacture, bright steel, except galvanized for exterior use and of brass, bronze, aluminum or stainless steel when used to attach items made of those materials for attaching interior trim and finish to drywall partitions shall be Type S self-drilling, selftapping anodized steel drywall screws of

required lengths as specified in Section "Gypsum Board". Bolts, lag screws, sheer plates and split ring connectors: Conforming to the requirements of the "National Design Specifications for Stress Grade Lumber and its Fastenings" of National Forest Products Association and complying with ; with hex nuts and washers.

Framing anchors, joist hangers, etc.: Products or devices as approved by authorities having iurisdiction: see Drawings for specified items. Miscellaneous clips, steel assemblies: Conforming to ASTM A36 with hot-dip, zinccoated steel sheet complying with ASTM A 653/A 653M, coating designation galvanized

Measurements: Verify dimensions shown on Drawings by taking field measurements; proper fit and attachment of all parts is required. Before commencing Work, check lines and levels indicated and such other Work as has been completed. Any discrepancies shall be immediately reported, in writing, to the Architect. In event of failure to do so, the Contractor shall be responsible for correction of any error. FRAMING

Coordination: Install wood framing making proper provisions for Work of other Trades. Do cutting of wood required to accommodate plumbing, heating and ventilating, electrical and other Trades. Fit neatly around exposed items, as outlet boxes, conduit, pipes and ducts

Protect adjacent Work. Before proceeding with rigid sheathing, make certain required inspections have been Rough framing: Fit closely, set accurately to required lines and levels, and secure rigidly in place. Set horizontal and inclined members with crown edge up. Reinforce cut members as directed. Structural members shall provide full contact at bearing surfaces. No cutting notching or drilling of structural members will be allowed without prior approval of the structural engineer.

1. Studs: Wall and partitions shall be nominal 2x4

and 2x6 studs 16 inches on center unless

otherwise noted or unless they are required to be larger to accommodate mechanical or electrical equipment, piping and fixtures or fixtures or equipment of any other Trade. Bottom plates shall be predrilled where required for anchorage. All plates for exterior walls shall be installed over full-width sill gasket material. Top plates in bearing partitions shall be doubled and lapped at each intersection with walls or partitions. Stagger joints in upper and lower nembers of top plate not less than 4 feet. Frame corners solid where stud walls or partitions meet or as shown on the Structural

Pre-drill and provide galvanized steel washer under lag screw and bolt heads when they bear on wood. Re-tighten bolts immediately prior to concealing with finish Work. Wood Backing: Provide and install all wood backing furring, stripping or blocking indicated or required for installation and attachment of Work of other Trades Wood backing shall be provided for but not limited to, rooftop equipment supports, curbs and cants, furring cabinetry, shelving, chalk and marker boards, urinals layatories, drinking fountains, toilet room partitions and accessories, fire extinguisher cabinets, and wall-mounted door stops.

1. Horizontal backing shall be secured between studs or furring members flush with back side of gypsum board or specified wall material. Backing for door stops shall be horizontal, not Vertical backing material shall be continuous, flush with the back side of gypsum board or

panels, or lumber blocking between joists. Staggered

panel end joints shall occur over framing. Provide solid

edge blocking between sheets. Allow 1/8" spacing at

panel ends and 1/4" at panel edges, unless otherwise

specified wall material and secured to adjacent

studs, furring members, or masonry substrate at the proper location to support the edges of each Plywood sheathing: Install with the long dimension of the panel across supports, except where noted, and with panel continuous over two or more spans. Suitable edge support shall be provided where indicated on drawings and in recommendations of the American Plywood Association by use of panel clips, tongue-and-groove

recommended by the panel manufacturer.

Remove wood, including form lumber, scrap lumber shavings and sawdust in contact with ground. Leave no wood buried in any fill or backfill.

During the course of the Work and on completion of the Work, remove excess materials, equipment and debris and dispose of away from premises. Leave Work in clean condition in accordance with Section 01 5000, Temporary Facilities and Controls.

JOINT SEALANTS SECTION 07 9200 A. Manufacturers Dow Corning Pecora Sika Sonneborn Tremko

B. Materials 1. Sealant: The type and grade as recommended by the manufacturer for the service intended and surfaces to be sealed. 2. Back-up materials: Compatible with sealant and primer, and of a resilient nature 3. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

C. Installation 1. Install caulk/sealants at all intersections of dissimilar materials required for appearance or to stop passage of air, noise, or light or moisture and as recommended by the manufacturer. 2. Install back-up material or joint filler, of type and size to provide sealant dimensions recommended by manufacturer. Do not apply

sealant to joints over 3/16" without back-up materials. 3. Sealant color shall match the color of the material sealed, unless otherwise noted. Approval of color shall be obtained prior to application. 4. Provide sealant at the following locations

5. Plumbing fixtures to abutting material - One-part silicone rubber sealant with fungicide. 6. Perimeter of exterior door frames, both sides - Two-part, gun grade, non-sag, polyurethane sealant 7. Perimeter of any window units, both sides - Two-part, gun grade, non-sag, polyurethane sealant. 8. Perimeter of exterior grilles/louvers - Two-part, gun grade, non-

sag, polyurethane sealant. 9. Masonry at dissimilar material - Two-part, gun grade, non-sag, polyurethane sealant. 10. At stud wall base plates and around electrical outlets and penetrations at acoustically rated walls - One-part, gun grade, synthetic rubber, suitable for non-exposed locations.

11. Expansion and control joints at walks, plazas and at pavements abutting building face - Two-part self-leveling type sealant for horizontal joints subjected to traffic.

METAL DOORS AND FRAMES SECTION 08 1100 A. Manufacturers Hollow Metal Frames

 a. Curries b. Steelcraft Manufacturing Co. c. Fenestra B. Materials

Hollow metal a. Frames: Prime, 16 gauge cold-rolled steel. At single openings over 42 inches wide provide 14 gauge frames.

b. Glazing Beads: Minimum 20 gauge steel. c. Steel: Hot-dip galvanized meeting ASTM A525, Grade G60, or electrolytic zinc-coated meeting ASTM A591, Class A. d. Finish to be as shown on the drawings e. Fire Ratings: Frames for fire labeled doors shall be constructed in accordance with UL or Warnock Hersey

requirements and shall be labeled as scheduled. C. Installation Install frames according to manufacturer's directions true and plumb with adequate clearances for wall finishes.

SECTION 08 8100 A. Manufacturers Anemostat

GLASS AND GLAZING Mississippi Glass Company

B. Materials 1. Float Glass: Shall be flat, 1/4 inch thick unless noted otherwise on Drawings, meeting ASTM C1036. Float glass shall be glazed with clean cut edges. 2. Tempered Safety Glass: Shall be tempered Safety Glass meeting ASTM C1036, ANSI Z-97.1 and 16CFR-1201. Tempered glass shall be 1/4 inch thick unless noted otherwise on Drawings.

C. Installation 1. Install glass types at locations shown on Drawings. Make adjacent glass in same glazed areas consistent in type and thickness unless otherwise noted or directed. 2. Glazing subcontractor shall be responsible for determining locations requiring tempered and/or fire rated glazing to comply with all applicable codes and AHJ.

UMINUM FRAMED ENTRANCES AND STOREFRONTS A. Manufacturers Kawneer Company, Inc.

Old Castle YKK AP

Old Castle

PPG Industries

Technical Glass Products

B. Materials The following series designations reference systems by Kawneer Company Inc. Equal systems by approved manufacturers are acceptable Interior (non-thermal) Center Glazed Framing System: Aluminum entrances and storefronts framing shall be center glazed system for 3/8 inch glass

> Trifab 450 – 2" x 4 ½" for 3/8" glass Extruded framing members shall be A-6063-T6 alloy and temper aluminum complying with ASTM B221 alloy G.S. 104-55 having a minimum wall thickness of .080. Provide fasteners for assembling the framing systems of aluminum, stainless steel, and other materials warranted by the manufacturer to be non-corrosive and compatible with aluminum components, hardware, anchors and other components. Steel fasteners used in the assembly of the framing system shall be coated with a zinc coating complying with ASTM

6. Perimeter anchors shall be aluminum or steel of the suitable size and design to resist applied loading on the framing system. Steel fasteners used in the assembly of the framing system shall be coated with a zinc coating complying with ASTM 8. Glazing gaskets at shall be manufacturer's standard for

system specified. Glass shall be as specified in Section 08 8100, Glass Glazing, and installed as specified herein. Sealant as recommended by system manufacturer.

Kawneer Company Inc. Equal systems by approved manufacturers are acceptable. **B.** Doors: Manufacturer's standard glazed doors, for manual Door Construction 1 3/4" – 6" overall thickness, with a minimum of 0.125 inch thick, extruded-aluminum tubular rail and stile members. Mechanically fastened and welded corners.

Door Design: WS 512 (Wide Stile) – 5 inch stile)

A. The following series designations reference systems by

Non electric hardware for immediate entrance doors and frames specified under "Finish Hardware" of the specifications shall be furnished and installed by the door and frame

manufacturer. ALUMINUM FINISHES General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Finish designations prefixed by AA comply with the

system established by the Aluminum Association for designating aluminum finishes. Class I, Clear Anodic Finish: AA-M12C22A41 Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 611.

C. Installation A. Comply with manufacturer's instructions and recommendations for installation. Installation shall be completed only by qualified personnel, experienced in this type of Work. Set units plumb, level, and true to line, without warping or racking of framing members. Provide proper support and anchor securely in place. Comply with the recommended installation requirements for "thermal expansion" in

accordance with the framing system manufacturers printed instructions. Separate aluminum and other corrodible metal surfaces from sources of corrosion or electrolytic action at points of contact with other materials. Comply with requirements specified under paragraph "Dissimilar Materials" in the Appendix to American Architectural Manufacturers

Association 101 Head members for butt hinges and offset hung door installations shall be "solid, one-piece tubular" extruded members only. Drill and tap framing members as required for the installation of doors and apply surface-mounted hardware items.

4. Sill members shall be set in full bed of sealant, or with joint fillers or gaskets to provide weather-tight construction. Install flashings and end dams in strict compliance with manufacturer's details.

SECTION 09 2216 NON-STRUCTURAL METAL FRAMING A. Manufacturers CEMCO Clark Dietrich Building Systems

MarinoWARE 4. MBA Building Supplies SCAFCO

6. United Metal Products B. Materials 1. Studs, Track and Furring a. Roll formed 20 or 25 gauge electrogalvanized steel, sizes indicated, conforming to ASTM C645. b. Use 20 gauge for door jambs and walls to receive ceramic tile

or cement backer board and for walls over 14 feet high. c. Provide slotted track at top of partitions subject to deflection. d. Top track to be slotted and designed to accommodate the specified studs. e. Fire and sound rated construction: Provide studs, track and

furring in accordance with assemblies specified or noted on 2. Suspended Ceiling Components a. Furring channels: Type DWC as manufactured by U.S.

Gypsum Company, or rigid furring channels conforming to ASTM C645, 2-5/8 inches wide by 7/8 inch by 0.0188 inch b. Main runner channels: Cold rolled sections, 1-1/2 inches, formed of No. 16 gauge steel.

 Hanger wires: 8 gauge. d. Brackets: 20 gauge. e. Tie Wire: 18 gauge galvanized.

C. Installation 1. Install cold-formed framing in accordance with requirements of current versions of ASTM C754, AISD-WSD AISI-NAS, AISI-WSD, AISI-Header and the current Gypsum Construction Handbook and relevant sections of the IBC. System design shall resist horizontal loads (regular and seismic) as required by IBC and local AHJ. In addition, comply with the following requirements. At doors wider than 36" and at all lead-lined doors, provide diagonal bracing of wall above door in both directions at 6"

> above ceiling line. b. Isolate studs at exterior masonry or concrete wall surfaces, with closed cell form strip. c. One pair of 16 gauge structural steel studs shall be installed, running from floor to structure above, at each location to receive wall mounted television, shelving, brackets, etc. supporting loads greater than 25 pounds. d. Brace tops of walls that do not extend to deck at 4' o.c. in alternate directions. e. Provide 18 gauge metal backing for attachment of all wall

mounted items. Backing shall be a minimum of 6" wide and shall extend over a minimum of 2 studs. Bridge stud partitions at mid-height for partitions 10 feet high or less, and at 5 feet on center for partitions greater than 10 feet, with 1-1/2 inch channels through study secured in place. g. At walls that do not extend full height and are not otherwise braced, provide and install 2-1/2" x 2-1/2" x 3/16" tube steel stiffeners welded to base plate and anchored to floor with four (4) 1/2" x 2-1/2" expansion anchors. Set stiffeners at 4'-0" O.C. and secure to continuous 20 gauge top track. h. Suspended ceilings shall be constructed with 1-1/2 inch main runner channels spaced 4' oc and metal furring channels spaced on not over 16 inch centers. Locate main runner within 6 inches of the wall to support the ends of the furring channels and locate hangers to support the ends of the main runners. Suspend main runners from structure above with one hanger

project through ceiling. GYPSUM BOARD A. Manufacturers Certainteed CertainTeed Corporation

wire for each 12 square feet of ceiling area. Hanger spacing

occur within 6 inches of end of channels. Provide additional

support for lights, grilles and other items that attach to or

shall not exceed 48 inches on center along channel and shall

2. Georgia Pacific Gold Bond Building Products 4. National Gypsum Company Pabco Gypsum 6. United States Gypsum

B. Materials 1. Gypsum Board: 5/8 inch thick, Type X, Gypsum board shall conform to applicable sections of ASTM C1396, ASTM C1629 Gypsum board core material to provide "VOC absorption". 2. Water Resistant Gypsum Board: Use fiberglass faced water resistant type wallboard in toilet rooms, kitchens (within 4 feet of sinks), and other high moisture areas and where indicated on

3. Cementitious backer board: In wet areas use 1/2" fiberglass reinforced cement backer board under ceramic tile. Lead-Faced Gypsum Board: Where indicated on Drawings. Continuous lead sheet laminated to face of core. Thickness of lead to be as specified on physicist's report. 5. Shaftwall Coreboard: 1" thick or as indicated on assembly detail. . Impact-Resistant Gypsum Board: Where indicated on Drawings

8. Trim and Edging: 26 gauge, electro-galvanized steel B. Installation 1. Comply with GA-216: Specifications for the Application and Finishing of Gypsum Wallboard 2. Wherever gypsum board terminates against dissimilar materials, install metal edge ("J" trim or similar). 3. Finish to comply with ASTM C840 - Specification for Application and Finishing of Gypsum Board and GA-214: Recommended Levels of Gypsum Board Finish.

4. "Level 4" finish to be provided at all locations U.N.O. on plans.

Noise Reduction Gypsum Board: Where indicated on Drawings

SECTION 09 3000 A. Manufacturers

Those manufacturers as specified on the Drawings. B. Materials 1. Tile: As specified on Drawings. Provide manufacturer's full selection of trim shapes as required.

Grout: As specified on drawings. 3. Flexible Sealant: One-part silicone sealant to match grout color, unless otherwise indicated 4. Adhesive for Thin Set Installation 5. Organic adhesive by an approved manufacturer and acceptable with TCA Method W242 for walls. 6. Dry-Set per ANSI A118.1, or Latex-Portland cement mortar per

ANSI A118.4. by an approved manufacturer and acceptable with TCA Method W243 for floors. C. Installation 1. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations per the methods above. If deviations from the recommended methods are required due to undocumented conditions the Contractor shall immediately notify the Architect and propose the appropriate alternate method All joints between tile and door frames and other metal

accessories, tile and ceiling, wall tile at inside corners and wall tile and floor tile shall be sealed with silicone rubber sealant 3. Provide expansion joints at tile columns, curbs and pipes, filled with silicone. Structural joints in the building shall have expansion joints extending through the tile and such joints shall be sealed with silicone sealant unless shown otherwise.

4. Masonry walls receiving tile shall have a leveling coat of mortar installed prior to installation of tile. 5. Lay tile to pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than ½ width is used. Do not interrupt tile pattern through openings. 6. Place tile joints uniform in width, subject to variance in tolerance

allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout. 7. Form internal angles square and external angles bull-nosed. 8. Sound tile after setting. Replace hollow sounding units. 9. Grout shall be smooth and flush with the surface of the tile.

10. Apply grout sealer to grout joints per manufacturer's directions after grout has cured. Test for complete seal after two hours. If any water is absorbed, apply an additional coat. ACOUSTICAL CEILINGS SECTION 09 5100

A. Manufacturers Armstrong World Industries

2. Chicago MetallCorporation USG Interiors, Inc. B. Materials 1. Manufacturer and type/series as indicated on Drawings. 2. Exposed faces of main and cross runners shall be a white baked enamel paint finish, U.N.O. 3. Suspension system shall support the ceiling system specified with

a maximum deflection of 1/360 of the span.

on cut edge to lay flat within suspension system.

4. Wall Moldings: Painted steel with a minimum one inch wide lower flange, finish and configuration to match grid. Provide radiused moldings at circular/arc objects. C. Installation 1. Suspend main runners from structure above, 48 inches on center using not less than 12 gauge wire, spaced 48 inches on center and accurately leveled. Support main runners no further than 12 inches from wall. Main runners may not be supported by wall angle.

. Install ceiling tile into ceiling system neatly trimming tile to fit

securely within grid members. Tegular edge tiles shall be routed

Provide hold-down clips within 25 feet of exterior entrances and where recommended by ceiling manufacturer for ceiling type and 4. Provide an additional 2 full cartons of each type of acoustical tile

installed in unopened labeled cartons to the Owner.

SECTION 09 6500

A. Manufacturers Those manufacturers as specified on the Drawings. B. Materials

Resilient Flooring: As specified on Drawings. 3. Rubber Base: As specified on Drawings. Continuous rolls, cove type, UNO. C. Installation

> requirements for flooring and substrate type. 2. Testing and verification of moisture and ph levels of concrete slabs shall be provided to and accepted by flooring manufacturer prior to 3. Work shall be performed in strict accordance with manufacturer's installation instructions and approved installation procedure.

1. Floor preparation shall be in strict compliance with manufacturer's

4. Transition strips shall be provided where floor covering terminates at points higher than the contiguous finished flooring except where thresholds are provided. 5. Install floor material to toe kick of cabinet or under counter to wall. Install floor material below thresholds. 7. Tile lines and joints shall be square, symmetrical, tight and even,

and each floor shall be in a true, level plane, except where indicated as sloped. Borders shall be cut, fitted and scribed to walls and partitions after field covering has been applied. 8. Unless otherwise shown on the Drawings, or the Architect's color schedule, floor tile shall be laid with pattern grain running in the same direction (not checker-board) and tile shall be laid in conventional square corner to corner pattern. Verify with the Architect floor layout and directional grain pattern. 9. Seams and coved corners of sheet goods shall be fully heat-

bonded using only material, tools, and techniques approved by the manufacturer. 10. Form coved base as recommended by the flooring manufacturer. Where flooring terminates on walls, provide aluminum "J" trim cap. 11. Prior to installing base material all cracks and voids in the wall shall be filled. C.M.U. walls shall receive a surface filler to 1/2" below

welded without the use of solvents and adhesives; or chemically

top of base. 12. Rubber base shall be installed in strict compliance with manufacturer's requirements with a minimum number of splices 13. Provide Owner with Maintenance stock equal to 1% of the installed product but no less than 4 SF of each type of flooring and 8 LF of each base material.

SECTION 09 9100 PAINTING AND COATING A. Manufacturers Benjamin Moore Paints Sherwin Williams

1. Water-based, Low Odor products from manufacturer's top of the

Refer to the "Finish Plan" on the Drawing for designated finishes.

3. Provide 3 samples paint "draw-downs" for each color and sheen scheduled. 4. The following are acceptable products of Sherwin Williams. Other manufacturers indicated in this section or by prior approval shall furnish equal types of materials. Responsibility for recommending, scheduling and using the proper paint for the job conditions rests with the manufacturer and Contractor.

line products.

1st Coat: ProMar 200 Zero VOC Interior Latex Primer B28W2600, MPI 2nd Coat: ProMar 200 HP Zero VOC Interior Acrylic Low Gloss Eg-Shel B41-1900 Series (Gloss Level 3) MPI # 144 X-Green 3rd Coat: ProMar 200 HP Zero VOC Interior Acrylic Low Gloss Eg-Shel B41-1900 Series (Gloss Level 3) MPI # 144 X-Green

1. The number of coats scheduled is the minimum number of coats required. Additional coat(s) shall be applied, at no additional cost to the Owner, to completely hide base material, provide uniform color and to produce satisfactory finish results. 2. Exposed water, gas, waste piping, sprinkler piping, conduit, lighting and electrical panels, telephone terminal boxes, galvanized ducts and insulated ducts, shall be painted in areas other than

devices, starters, junction boxes, vents, drains, and other similar items, as directed by Architect. 3. Fire hose cabinets, access panels (except stainless steel), air registers and grilles, suspended space heaters, flanges around ceiling fixtures, exposed pipe and conduit, electrical panelboards. primed hardware, and other similar items, shall be painted to match adjacent surfaces, at the direction of the Architect, even though the item already may have a factory applied finish.

mechanical rooms, unless otherwise scheduled. Paint exposed

unfinished fixtures, metal ducts, switch boxes, control panels,

After taping and sanding gypsum board but prior to texturing, apply one coat of 1030 Ultra-Hide PVA Interior Primer-Sealer to gypsum board surfaces. The primer-sealant coat shall contrast with the color of the texture material. This primer-sealer coat may be deleted at gypsum board surfaces that receive a 100 percent skim coat of texture before painting.

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REVISIONS

PROJECT TEAM ED TEXAS

CONSTRUCTION DOCUMENTS

SHEET CONTENTS SPECIFICATIONS

PROJECT PHASE

SHEET NO.

DIVISION 23 - MECHANICAL

A. GENERAL

- 1. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS THAT WILL NOT INTERFERE WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS OF THE BUILDING, AND WILL FIT INTO AVAILABLE SPACES.
- 2. CAREFULLY LAY OUT ALL WORK TO CONFORM TO THE ARCHITECTURAL, STRUCTURAL, AND FINISH CONDITIONS; AND WITH OTHER TRADES PRIOR TO STARTING ANY WORK, TO AVOID OBSTRUCTIONS AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM. CONTRACTOR SHALL BECOME FAMILIAR WITH WALL AND PARTITION LOCATIONS, CEILING HEIGHTS, FINISHES, AND OTHER PERTINENT DATA FROM ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FURTHER BECOME FAMILIAR WITH LOCATIONS OF PIERS, BEAMS, COLUMNS, JOISTS, AND OTHER PERTINENT DATA FROM STRUCTURAL DRAWINGS.
- 3. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, UTILITY CONNECTION CHARGES, FEES, AND INSPECTIONS. CONTRACTOR SHALL GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS AND CERTIFICATES FOR APPROVAL FROM THE LOCAL AUTHORITIES HAVING JURISDICTION AS REQUIRED FOR THE PARTICULAR CLASS OF WORK INVOLVED.
- 4. EXECUTE ALL WORK IN ACCORDANCE WITH LOCAL, STATE, NATIONAL CODES, ORDINANCES, AND OTHER APPLICABLE REGULATIONS GOVERNING THE PARTICULAR CLASS OF WORK INVOLVED. THE GOVERNING CODES ARE MINIMUM REQUIREMENTS AND WHERE THE CONTRACT DOCUMENTS EXCEED CODE REQUIREMENTS, THESE DOCUMENTS SHALL PREVAIL.
- 5. UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL EACH AND EVERY ITEM CONTAINED IN, AND ASSOCIATED WITH, THE PARTICULAR CLASS OF WORK INVOLVED AS SHOWN ON THE DRAWINGS AND FURTHER DESCRIBED IN THESE SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO: LABOR, TRANSPORTATION, TOOLS, STORAGE, CUTTING, PATCHING, TRENCHING, AND CLEAN-UP.
- 6. LOCATE ALL EQUIPMENT, FIXTURES, DUCTWORK, PIPING, AND OTHER ITEMS IN APPROXIMATE LOCATIONS SHOWN. PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, AND OPENINGS, AS REQUIRED FOR A COMPLETE AND SATISFACTORILY OPERATING INSTALLATION. COORDINATE ALL WORK TO PROVIDE FOR ALL SERVICE AND ACCESS CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT AND INSTALLATIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 7. THE LOCATIONS, POINTS OF CONNECTION, DIMENSIONAL DATA AND OTHER MEASUREMENTS SHOWN ARE OFFERED AS A GENERAL GUIDE ONLY AND WITHOUT GUARANTEE OF COMPLETE ACCURACY. ALL EXISTING ITEMS SHOWN ARE TAKEN FROM EXISTING "AS-BUILT" DRAWINGS AND LIMITED FIELD SURVEY. CONTRACTOR SHALL VISIT THE SITE, AND REASONABLY FIELD VERIFY THE WORKING CONDITIONS REQUIRED TO INSTALL THE
- PARTICULAR CLASS OF WORK INVOLVED. MAKE PROVISIONS IN BID FOR SAME TO ASSURE THAT THE RESULTING INSTALLATION WILL BE COMPLETE, COORDINATED, AND RESULT IN A PROPERLY OPERATING SYSTEM.
- 8. CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE COPY OF THESE DRAWINGS. MARKED WITH ANY ADDITIONS TO, OR DEVIATIONS FROM, THE WORK ILLUSTRATED, TO REPRESENT "AS-BUILT" CONDITIONS.

 9. CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION.
- 10. COOPERATE WITH OTHER TRADES TO KEEP THE WORK AREA CLEAN AND FREE OF UNNECESSARY MATERIALS OR DEBRIS ON A DAILY BASIS. WHEN WORK IS COMPLETE, REMOVE ALL TOOLS, SCAFFOLDING, MACHINERY, AND DEBRIS. CLEAN ALL DIRT AND DUST FROM ITEMS OF WORK AND BROOM SWEEP THE WORK AREA DAILY.
- 11. COOPERATE WITH THE OWNER'S REPRESENTATIVE AND OTHER TRADES TO MEET THE ESTABLISHED CONSTRUCTION SCHEDULE. SCHEDULE WORK SO AS TO AVOID DELAYING OTHER TRADES.
- 12. WHEN ALL WORK IS COMPLETE, PAINT ALL PIPING AND EQUIPMENT AS INDICATED IN ARCHITECTURAL DOCUMENTS. TOUCH UP ALL DAMAGED FACTORY FINISHES TO MATCH ORIGINAL FINISHES.
- 13. SUBMIT ON ALL MATERIALS SPECIFIED HEREIN PRIOR TO COMMENCING WITH ANY WORK. FAILURE TO COMPLY WILL RESULT IN REPLACEMENT OF ALL ITEMS FOUND NOT IN COMPLIANCE WITH THESE REQUIREMENTS.
- 14. PROTECT ALL BUILDING COMPONENTS, WALLS, ROOFS, FLOORS, ADJACENT EQUIPMENT, LIGHTING, LANDSCAPING, PAVING, ETC. ANY ITEMS DAMAGED, OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF WORK SHALL BE CLEANED TO A "LIKE NEW", OR PRE-EXISTING, CONDITION.
- 15. AT TIME OF FINAL INSTALLATION OBSERVATIONS, THE OPERATION OF ALL SYSTEMS OF EQUIPMENT SHALL HAVE BEEN DEMONSTRATED TO PERFORM PROPERLY.
- 16. ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING BIDDING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER SO THAT AN ADDENDUM MAY BE ISSUED TO ADDRESS THOSE ITEMS PRIOR TO BIDDING. ANY DISCREPANCIES DISCOVERED AFTER BIDDING, HAT WERE REASONABLE TO HAVE BEEN DISCOVERED, SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- 17. WORK UNDER DIVISION 23 SHALL INCLUDE PROVISION OF STARTERS, CONTROLLERS, AND RELAYS, THAT ARE A PART OF THE EQUIPMENT FURNISHED UNDER DIVISION 23, TO THE DIVISION 16 INSTALLER INCLUDING ALL WIRING DIAGRAMS FOR INSTALLATION THEREOF. DISCONNECTS SHALL BE PROVIDED AND INSTALLED UNDER DIVISION 26 WHEN NOT FURNISHED WITH EQUIPMENT.
- 18. FOR RENOVATION AND REMODEL WORK, CAREFULLY REMOVE AND PROTECT ALL UNUSED EXISTING FIXTURES/EQUIPMENT, PIPING, DUCTWORK, ELECTRICAL SERVICES, AND ALL OTHER ITEMS ASSOCIATED THEREWITH WHERE INDICATED. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL AND DISPOSAL TO VERIFY WHETHER OWNER DESIRES TO KEEP ANY EXISTING ITEMS AND THE DESIRED MANNER OF DISPOSITION THEREOF. STORE ALL REMOVED ITEMS ON SITE FOR A MINIMUM OF TWO (2) WEEKS, UNLESS INDICATED OTHERWISE BY THE OWNER'S REPRESENTATIVE, TO ALLOW FOR INSPECTION BY THE OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS.
- 19. EXISTING BUILDING OPERATIONS MUST REMAIN ACTIVATED AT ALL TIMES DURING NORMAL OPERATING HOURS. OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE PRIOR TO SHUTTING-DOWN ANY BUILDING SYSTEM. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASES OF CONSTRUCTION. MAINTAIN AIR DISTRIBUTION AND PIPING SYSTEMS TO OTHER FLOORS OF THE BUILDING OUTSIDE OF THE DEMOLITION AREA. SHUT DOWN OF EXISTING SYSTEMS SHALL OCCUR DURING UNOCCUPIED PERIODS WHERE POSSIBLE.
- 20. PENETRATIONS OF THE CEILINGS, WALLS, OR FLOORS SHALL BE PATCHED, SLEEVED, SEALED, ESCUTCHEONED, AND RESTORED TO THE ORIGINAL FINISH CONDITIONS AND FIRE RATINGS. COORDINATE ALL PENETRATIONS WITH OTHER TRADES.

B. MECHANICAL HVAC SCOPE OF WORK:

- 1. PROVIDE ALL MATERIALS, EQUIPMENT, AND PAY ALL COSTS CONNECTED WITH THE INSTALLATION OF COMPLETE MECHANICAL HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEMS AS SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL ITEMS OF MATERIAL AND LABOR, AND ALL OTHER COSTS, TO COMPLETE THE WORK WITHIN THE INTENT OF THIS SPECIFICATION AND THE DRAWINGS, EVEN THOUGH EACH AND EVERY ITEM NECESSARY IS NOT SPECIFICALLY MENTIONED OR SHOWN.
- 2. SUBMIT MANUFACTURER'S BROCHURES ON ALL NEW AIR CONDITIONING EQUIPMENT, EXHAUST FANS, AIR DEVICES, AND OTHER COMPONENTS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. SUBMIT SHOP DRAWINGS ON SHEET METAL AND PIPING SYSTEMS.
- 3. THE MECHANICAL HVAC SYSTEMS SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE, BUT NOT BE LIMITED TO:
- a. MODIFICATIONS TO EXISTING MECHANICAL HVAC SYSTEM, DUCTWORK, PIPING, EQUIPMENT, AND OTHER WORK AS SHOWN
- b. REMOVE EXISTING DIFFUSERS AND DUCTWORK, PIPING, ELECTRICAL AND OTHER ITEMS ASSOCIATED THEREWITH. CO-ORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO DISPOSAL OF ANY ITEMS. CLEAN AND REPAIR ANY ITEMS TO BE RELOCATED OR REUSED.
- c. ALL SUPPLY, RETURN, AND EXHAUST AIR DUCTWORK INCLUDING INSULATION SYSTEM, VOLUME DAMPERS, FIRE AND SMOKE DAMPERS, REMOTE ADJUSTMENT DEVICES, PLENUMS, TURNING VANES, SUPPORTING DEVICES, GRILLES, REGISTERS, AND DIFFUSERS.
- d. TEMPERATURE CONTROLS COMPONENTS AND WIRING.
- e. THERMAL AND ACOUSTIC INSULATION OF DUCTWORK AND PIPING.
- f. ROUGH-IN AND FINAL CONNECTIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHER TRADES.
- g. INSPECTION, TESTING AND BALANCING OF ALL MECHANICAL HVAC SYSTEMS.

C. MATERIALS AND WORKMANSHIP FOR HVAC WORK:

- 1. SHEET METAL COMPONENTS AND AIR DISTRIBUTION DUCTWORK:
- a. FURNISH AND INSTALL A COMPLETE SYSTEM OF HVAC DUCTWORK, AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- b. DUCTWORK SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MOST CURRENT ASHRAE DESIGN STANDARDS AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS OF THE LATEST EDITION OF THE APPLICABLE S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS, GOVERNING CODES OF THE CITY, BUILDING STANDARDS SET FORTH BY THE BUILDING OWNER, AND ALL AUTHORITIES HAVING JURISDICTION.
- c. NEW RECTANGULAR SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE NEW G-90 GALVANIZED STEEL.
- d. NEW RECTANGULAR RETURN AIR DUCT SHALL BE LINED WITH 1" THICK, 1.5 PCF DENSITY, ACOUSTICAL AND THERMAL DUCT LINER FOR FIRST 10'-0" FROM UNIT AND ALL TRANSFER DUCTS. ALL SUPPLY AIR DUCTWORK FOR THE FIRST 10'-0" FROM THE UNIT TO BE LINED WITH 1.5" INTERNAL LINER. ALL CUT EDGES SHALL BE BUTTERED WITH ADHESIVE. ALL DUCT DIMENSIONS SHOWN ARE NET AIR STREAM DIMENSIONS. INCREASE SHEET METAL SIZE TO MAINTAIN THESE CLEAR AIR STREAM DIMENSIONS WHERE LINER IS USED.
- f. EXTERNALLY SEAL ALL SHEET METAL DUCT JOINTS TO INCLUDE SEALING PRIOR TO APPLYING ANY EXTERNAL INSULATION.
- g. NEW RECTANGULAR DUCT NOT INTERNALLY LINED SHALL BE EXTERNALLY WRAPPED WITH INSULATION, 2" THICK, 1.5 LB. PER CUBIC FOOT DENSITY, R-6.0 FIBERGLASS INSULATION WITH ALUMINUM FOIL VAPOR BARRIER. WHERE CONCEALED ABOVE CEILING MASTIC SEAL ALL INSULATION JOINTS. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- h. EXHAUST DUCTWORK SHALL BE UNINSULATED WITH SEALED JOINTS.
- i. NEW ROUND BRANCH DUCTS AND FITTINGS SHALL BE FACTORY FABRICATED EQUAL TO DUCTWORK AS MANUFACTURED BY UNITED SHEET METAL COMPANY. ALTERNATELY, SHOP MADE 26 GAUGE PITTSBURGH LOCK
- j. EXTERNALLY SEAL AND THEN INSULATE ALL ROUND DUCT WITH MINIMUM 1-1/2" THICK 1.5 LB. PER CUBIC FOOT DENSITY, R-6.0 DUCTWRAP INSULATION WITH ALUMINUM FOIL VAPOR BARRIER. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- k. ALL INSULATION SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2015, OR LATER, VERSION OF THE INTERNATIONAL ENERGY CONSERVATION CODE, WHICH REQUIRES A MINIMUM INSTALLED R-VALUE OF 6.0 FOR CONDITIONED, COOLED OR HEATED, AND OUTSIDE AIR SYSTEM DUCTWORK AND PLENUMS WHEN LOCATED INSIDE BUILDINGS OR SPACES. INCREASE INSULATION THICKNESS AS REQUIRED TO COMPLY.
- I. FIRE HAZARD CLASSIFICATION OF INSTALLED DUCT INSULATION SYSTEMS SHALL MEET THE REQUIREMENTS OF ASTM-E-84; FLAME SPREAD OF 25, OR LESS; SMOKE DEVELOPED AND FUEL CONTRIBUTED OF 50, OR LESS. ALL INSULATION SYSTEMS, ADHESIVES, MASTICS, SEALANTS, AND TAPES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH U.L. 181A OR U.L. 181B.
- 2. DUCTWORK SHALL BE CLASSIFIED FOR CONSTRUCTION STANDARDS, AS FOLLOWS:
- a. ALL DUCTWORK ASSOCIATED WITH ROOF TOP AC UNITS AND ALL EXHAUST DUCTWORK SHALL BE CLASSIFIED AS LOW PRESSURE DUCTWORK, AND SHALL BE CONSTRUCTED TO ONE INCH (1.0") W.G. STANDARDS.
- b. INSULATED FLEXIBLE ROUND DUCTWORK SHALL BE ALLOWED FOR THE LAST SIX FEET (6'-0") AND FOR FINAL CONNECTIONS TO INDIVIDUAL ROUND NECK AIR DEVICES. ALL BRANCH RUNOUTS TO AIR DEVICES SHALL BE THE SAME SIZE AS THE NECK UNLESS NOTED OTHERWISE. FLEXIBLE INSULATED METAL DUCT SHALL HAVE A DOUBLE LAMINATION OF POLYESTER ENCAPSULATING A STEEL WIRE HELIX WHICH FORMS THE INNER CORE, AND FURTHER ENCLOSED IN ONE INCH (1") THICK FIBERGLASS INSULATION AND SHEATHED IN A FIBERGLASS REINFORCED METALIZED JACKET, EQUAL TO THERMAFLEX M-KC. INSTALL FLEXIBLE DUCT AS STRAIGHT AS POSSIBLE AND MAKE ALL CHANGES IN DIRECTION WITH LONG RADIUS BENDS WITH SUITABLE CLAMPS INSTALLED ON BOTH ENDS. SUPPORT FLEXIBLE DUCT JUST ABOVE EACH DIFFUSER.
- c. PROVIDE A TWIST-IN FLARED TAP WITH A LOCKING QUADRANT MANUAL VOLUME DAMPER AT ALL NEW MAIN DUCT TAPS AND EXTEND AS SHOWN.
- d. PROVIDE TURNING VANES INSTALLED IN ALL ELBOWS OF SUPPLY AND RETURN AIR DUCTS AND FLEXIBLE CONNECTIONS AT ALL EQUIPMENT. PROVIDE ONE INCH (1") SPACING AIR EXTRACTORS, OR SPLITTER DAMPERS, WITH EXTERNAL ADJUSTMENTS AT ALL RECTANGULAR BRANCH DUCT TAKE-OFFS TO AIR DEVICES. REFER TO DETAIL SHEET.
- e. PROVIDE OPENINGS IN WALLS ABOVE CEILING TO PROVIDE MEANS OF RETURN AIR BACK TO AIR HANDLING EQUIPMENT.

3. AIR DEVICES:

- a. FURNISH AND INSTALL SUPPLY, RETURN, AND EXHAUST AIR DEVICES AS INDICATED AND LOCATED ON THE DRAWINGS. AIR DEVICES SHALL BE MANUFACTURED BY TITUS, METAL-AIR, KRUEGER, OR TUTTLE AND BAILEY, AND SHALL BE OF THE CAPACITIES, CHARACTERISTICS, AND SIZES AS INDICATED AND SCHEDULED, AND AS SPECIFIED HEREIN.
- b. NEW SUPPLY DIFFUSERS SHALL BE LOUVERED FACE LAY-IN TYPE TO MATCH CEILING TILE ACTUALLY INSTALLED. STANDARD FRAME SIZE IS 24" X 24" FACE. UNITS SHALL HAVE ADJUSTABLE DISCHARGE PATTERN.

 PATTERNS ARE FOUR-WAY BLOW. UNI ESS INDICATED OTHERWISE BY AIRELOW ARROWS. DIFFUSERS SHALL MEET BUILDING STANDARDS SET BY OWNER. AND BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR 1
- PATTERNS ARE FOUR-WAY BLOW, UNLESS INDICATED OTHERWISE BY AIRFLOW ARROWS. DIFFUSERS SHALL MEET BUILDING STANDARDS SET BY OWNER, AND BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- c. NEW RETURN AND EXHAUST AIR GRILLES AND REGISTERS SHALL BE EGGCRATE FACE TYPE WITH LAY-IN FRAME. STANDARD FRAME SIZE IS 24" X 24".
- d. ALL AIR DEVICES COLOR SHALL BE COORDINATED WITH ARCHITECT. GRILLES SHALL MEET BUILDING STANDARDS SET BY THE OWNER, AND BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- e. AIR DEVICES SHALL BE LOCATED APPROXIMATELY WHERE SHOWN. FOR EXACT LOCATIONS AND CEILING TYPE REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. FRAME MOUNTING TYPES SHALL BE COMPATIBLE WITH THE CEILING TYPE INDICATED.
- 4. DISHWASHER EXHAUST DUCT SYSTEM
- a. DISHWASHER EXHAUST DUCTS SHALL BE CONSTRUCTED OF 18-8 STAINLESS STEEL, TYPE 304, AND BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES.
- b. EXHAUST DUCTS SHALL BE MINIMUM 20 GAUGE THICK (MINIMUM 0.035 INCHES THICK), WHEN CONCEALED ABOVE CEILINGS, WITH CONTINUOUS LIQUID-TIGHT WELDED AND TREATED JOINTS AND SEAMS, USING STAINLESS STEEL RODS, ON THE INTERIOR OR EXTERIOR OF THE DUCT SURFACE. USE 18 GAUGE THICK STAINLESS STEEL WITH WELDED FINISHED JOINTS WHERE EXPOSED. WELDED JOINTS SHALL BE AT THE TOP EDGES OF THE DUCT WORK
- c. DUCTS SHALL SLOPE 1/4" INCH PER FOOT TOWARD THE GRILLE, HOOD OR AN APPROVED RESERVOIR.
- d. ALL CHANGES IN DIRECTION SHALL BE MADE WITH 1-1/2 TIMES THE DUCT WIDTH TO CENTERLINE RADIUS ELBOWS; NO TURNING VANES OR MITERED FITTINGS WILL BE ALLOWED.
- e. PROVIDE DUCT ACCESS DOORS EVERY TWENTY FEET (20'), IF REQUIRED, AND AT EACH CHANGE IN DIRECTION FOR DUCT CLEANING PURPOSES. ACCESS DOORS SHALL BE OF WATER TIGHT CONSTRUCTION WITH SUITABLE HINGES AND LATCHES.
- f. DO NOT INTERNALLY LINE DISHWASHER EXHAUST DUCTWORK.



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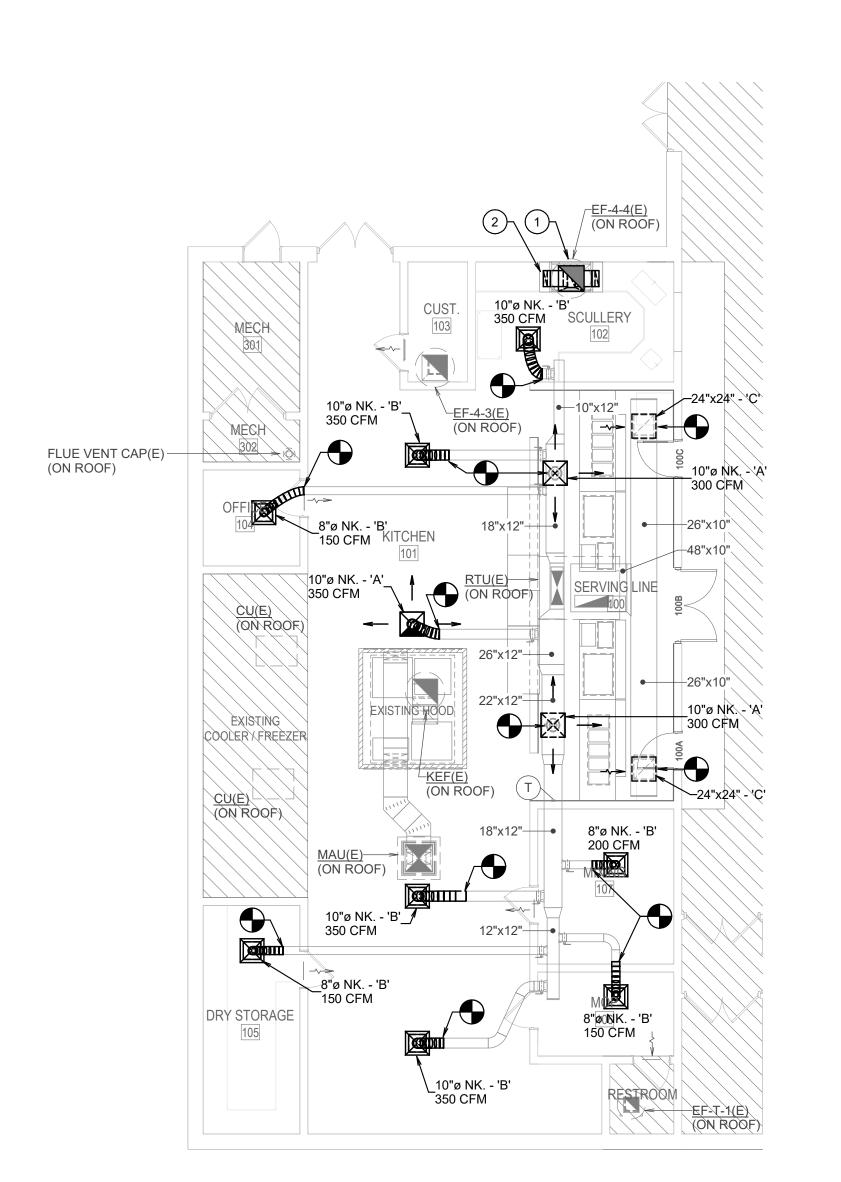
SHEET CONTENTS
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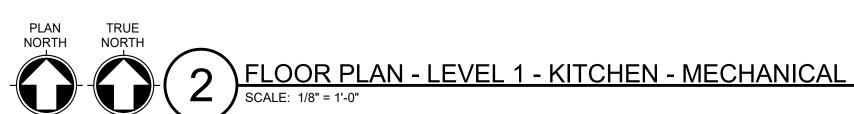
MECHANICAL

SHEET NO.



(ON ROOF





GRILLES, REGISTERS, AND DIFFUSERS MOUNTING MAX. N.C. **EQUALIZING DAMPER** DESIGNATION TYPE MATERIAL FINISH MANUFACTURER MODEL DESCRIPTION **LEVEL** GRID **BLADE** 24"x24" FACE, ROUND NECK COLLAR, DIRECTIONAL DIFFUSER, REFER TO PLAN FOR SUPPLY DIFFUSER - LOUVERED STEEL WHITE NO NECK SIZE & FLOW PATTERN. SUPPLY DIFFUSER - LOUVERED STEEL WHITE NO NO RETURN AIR GRILLE ALUMINUM WHITE NO NO TITUS 1/2"x1/2"x1" EGG CRATE WITH FRAMED BORDER; DO NOT STACK 1/2"

MECHANIC	AL LEGEND
	SUPPLY DUCT RISE / DROP
	RETURN OR EXHAUST DUCT RISE / DROP
	SUPPLY / RETURN AIR ARROW
R _{>} D _{>}	RISE / DROP IN DUCT
	MANUAL DAMPER
M	MOTORIZED DAMPER
F.D.	FIRE DAMPER
F.S.D.	FIRE-SMOKE DAMPER
Ţ	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDITY SENSOR
\$	WALL SWITCH
•	CONNECT TO EXISTING
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	NEW WORK

DEMOLITION NOTES BY SYMBOL ':: $\langle 1 \rangle$ EXISTING AIR DEVICE TO BE REMOVED AND REPLACED WITH NEW.

- $\langle 2 \rangle$ EXISTING EXHAUST FAN TO REMAIN AND BE REUSED.
- \langle 3 \rangle EXISTING DISHWASHER EXHAUST DUCTWORK TO BE REMOVED BACK UP TO EXHAUST FAN CONNECTION ON ROOF.
- 4 ALL EXISTING DUCTWORK, PIPING AND CONTROLS TO REMAIN AND BE
- RE-USED IN THIS AREA UNLESS NOTED OTHERWISE.
- $\langle 5 \rangle$ EXISTING DOOR GRILLE TO REMAIN, BE REUSED, AND BE CLEANED FREE OF ALL DUST AND DEBRIS.

NOTES BY SYMBOL 'O'

1) TWO 16"x4" DUCT TAKE-OFFS WITH SHOE TAP, TAP IN VERTICAL OFF OF 18"x8" DUCT MAIN. 18"x8" DUCT TRANSITION IN VERTICAL UP TO EXISTING EXHAUST FAN ON ROOF.

(2) 16"x4" EXHAUST AIR DUCT DOWN TO DISHWASHER 16"x4" CONNECTION, TYP.

GENERAL HVAC NOTES:

- 1. RECTANGULAR AND ROUND SUPPLY/RETURN/OUTSIDE AIR DUCTWORK IS TO BE EXTERNALLY INSULATED WITH 2" THICK ACOUSTICAL AND THERMAL WRAP TO MEET ENERGY CODE (2015 IECC) REQUIREMENTS EXCEPT WHERE NOTED OTHERWISE. RECTANGULAR TRANSFER AIR DUCTS SHALL BE LINED WITH 1" LINER ONLY. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED WHERE CONCEALED AND INTERNALLY LINED SPIRAL SEAMED WHERE EXPOSED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0. SUPPLY, RETURN, OUTSIDE AND RELIEF AIR DUCTWORK SHALL BE LINED FOR THE FIRST 10'-0" FROM THE INLET AND OUTLET OF ALL AIR HANDLERS. RETURN AIR DUCTWORK SHALL BE LINED WITH 1" THICK LINER AND SUPPLY, RELIEF AND OUTSIDE AIR DUCTWORK SHALL BE LINED WITH 1-1/2" THICK LINER.
- 2. BRANCH RUN-OUTS TO CEILING/COVE MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP AND EXTENDED HANDLE AS SHOWN (REFER TO SPECIFICATIONS FOR DETAILS). EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- 3. ALL DUCTWORK SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS. CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN. UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE WITH STRUCTURE, ARCHITECTURE, AND OTHER TRADES TO ENSURE CONFLICTS DO NOT OCCUR. ABOVE CEILING SPACE IS MINIMAL. CAUTION IS NECESSARY FOR PROPER INSTALLATION AND COORDINATION.
- 4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE, UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
- 5. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHING, ETC., SHALL BE MADE WATERTIGHT AND BE AS RECOMMENDED BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR TO COORDINATE WITH AND USE ROOF CONNECT (512-481-8966) AS THE ROOFING SYSTEMS INSTALLER.
- 6. EXTEND DUCTWORK AS SHOWN THROUGH ROOF INSIDE CURB TO EACH DUCT CONNECTION TO/FROM A ROOF MOUNTED UNIT. TRANSITION TO FULL SIZE OF EQUIPMENT OPENING FROM DUCT SIZES SHOWN. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCT CONNECTIONS AT EACH ROOF MOUNTED EQUIPMENT.
- 7. SEAL ALL LONGITUDINAL AND TRANSVERSE DUCT JOINTS TO PREVENT DUCT AIR LEAKAGE TO INCLUDE DUCT AND ACCESSORY PENETRATIONS. DO NOT SEAL CONTROL/FIRE DAMPER CONTROL ROD PENETRATIONS. SEAL CLASS "A" REQUIRED.
- 8. RE-BALANCE EXISTING DIFFUSERS TO MATCH NEW AIRFLOW WHERE EXISTING HVAC EQUIPMENT IS REMAINING TO BE REUSED.
- 9. CLEAN ALL EXISTING REUSED SUPPLY, RETURN AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF
- 10. WHERE EXISTING DUCTWORK IS REMAINING AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- 11. FIRE SPRINKLER SYSTEM MUST REMAIN FUNCTIONAL AND ONLINE AT ALL TIMES. IF CONTRACTOR MUST REMOVE FIRE SPRINKLER PIPING TO PERFORM WORK. THEY MUST MEET ALL CODES AND STANDARDS TO ISOLATE THE PIPE BRANCH THAT THEY ARE WORKING ON AND PERFORM THE WORK NECESSARY TO BRING THE FIRE SPRINKLER SYSTEM BACK ONLINE. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ANY FIRE SPRINKLER PIPING WORK THAT WILL NEED TO BE COMPLETED.

GENERAL MECHANICAL DEMOLITION NOTES:

Consulting Engineers

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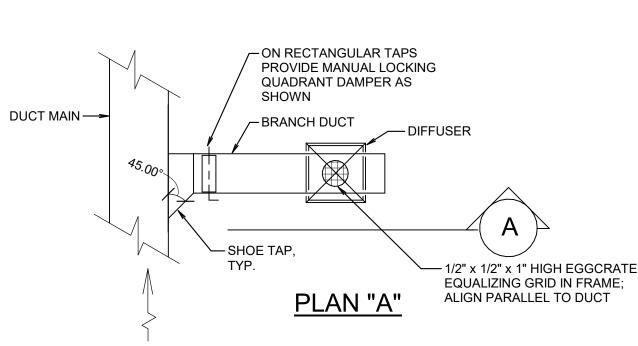
Dallas, TX 75243

- 1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
 - 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- 5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED.
- 6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- 7. CLEAN EXISTING RE-USED EXHAUST AND TRANSFER GRILLES FREE OF ALL DUST AND DEBRIS.
- 8. ALL EXISTING SECURITY AND OTHER CEILING MTD DEVICES NOT SHOWN TO BE REPLACED, SHALL REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
- 9. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH EXISTING ELECTRICAL CONDUITS, CIRCUITS, SPRINKLER PIPING, LOW VOLTAGE WIRING, AND DATA TRAYS

ABOVE CEILING.

10. FIRE SPRINKLER SYSTEM MUST REMAIN FUNCTIONAL AND ONLINE AT ALL TIMES. IF CONTRACTOR MUST REMOVE FIRE SPRINKLER PIPING TO PERFORM WORK, THEY MUST MEET ALL CODES AND STANDARDS TO ISOLATE THE PIPE BRANCH THAT THEY ARE WORKING ON AND PERFORM THE WORK NECESSARY TO BRING THE FIRE SPRINKLER SYSTEM BACK ONLINE. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ANY FIRE SPRINKLER PIPING WORK THAT WILL NEED TO BE COMPLETED.

CUSHION, MINIMUM LENGTH OF DUCT DIAMETER OF DIFFUSER NECK SIZE OR 12" MINIMUM, WHICHEVER IS GREATER. **EQUALIZING GRID-**SPIN-IN FITTING -FLEX DUCT -



TYPICAL RECTANGULAR DUCT DIFFUSER DETAILS

AT LAST DIFFUSER PROVIDE AIR -SECTION "A"

KITCHEN - HVAC SHEET NO.

ED TEXAS

3) SHOE TAP DETAIL
NO SCALE

AIR FLOW

- SHOE TAP,

TYPICAL

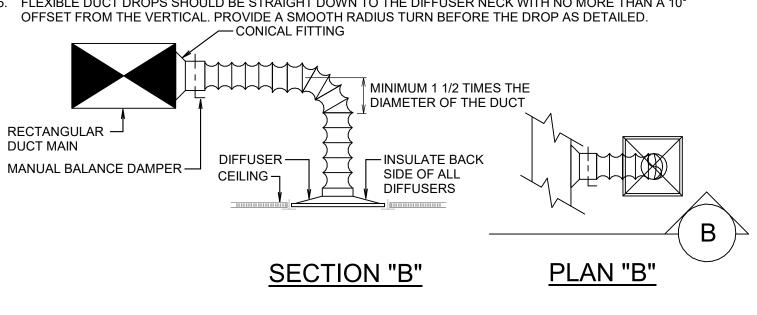
BRANCH DUCT

NOTES:

1. FOR ROUND DUCT USE STRAIGHT SPIN-IN TYPE FITTINGS WITH SEPARATE LOCKING HANDLE BALANCING

DAMPERS IN ALL AREAS WITH LAY-IN CEILINGS. 2. IN AREAS WITH HARD CEILINGS, USE SPIN-IN FITTINGS AND DAMPERS WITH REMOTE YOUNG REGULATORS LOCATED ON THE CEILING. ALTERNATELY PROVIDE CEILING ACCESS DOORS LARGE ENOUGH TO FACILITATE AIR BALANCING. THE NUMBER OF ACCESS PANELS SHALL BE MINIMIZED AND CONSOLIDATED. ALL ACCESS PANEL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. MAXIMUM LENGTH OF FLEXIBLE DUCT USED SHALL NOT EXCEED 6'-0".

4. RIGID AND FLEX DUCT DIAMETER TO BE EQUAL TO NECK SIZE SHOWN UNLESS SPECIFICALLY NOTED 5. FLEXIBLE DUCT DROPS SHOULD BE STRAIGHT DOWN TO THE DIFFUSER NECK WITH NO MORE THAN A 10° OFFSET FROM THE VERTICAL. PROVIDE A SMOOTH RADIUS TURN BEFORE THE DROP AS DETAILED.



SPIN-IN FITTING - RIGID DUCT WHERE RUN-OUT EXCEEDS 6'-0" - MANUAL BALANCE DAMPER - RECTANGULAR DUCT MAIN SECTION "A" PLAN "A"

SUPPLY DIFFUSER DETAILS
NO SCALE

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OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

REVISIONS

DELTA

PROJECT TEAM

PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS FLOOR PLAN - LEVEL 1

M100

- THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS THAT WILL NOT INTERFERE WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS OF THE BUILDING, AND WILL FIT INTO AVAILABLE SPACES.
- CAREFULLY LAY OUT ALL WORK TO CONFORM TO THE ARCHITECTURAL. STRUCTURAL, AND FINISH CONDITIONS; AND WITH OTHER TRADES PRIOR TO STARTING ANY WORK, TO AVOID OBSTRUCTIONS AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM. CONTRACTOR SHALL BECOME FAMILIAR WITH WALL AND PARTITION LOCATIONS, CEILING HEIGHTS, FINISHES, AND OTHER PERTINENT DATA FROM ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FURTHER BECOME FAMILIAR WITH LOCATIONS OF PIERS, BEAMS, COLUMNS, JOISTS, AND OTHER PERTINENT DATA FROM STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, UTILITY CONNECTION CHARGES, FEES, AND INSPECTIONS. CONTRACTOR SHALL GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS AND CERTIFICATES FOR APPROVAL FROM THE LOCAL AUTHORITIES HAVING JURISDICTION AS REQUIRED FOR THE PARTICULAR CLASS OF WORK INVOLVED.
- EXECUTE ALL WORK IN ACCORDANCE WITH (BASE BUILDING STANDARDS SET FORTH BY THE BUILDING OWNER) AND LOCAL STATE, NATIONAL CODES. ORDINANCES, AND OTHER APPLICABLE REGULATIONS GOVERNING THE PARTICULAR CLASS OF WORK INVOLVED. THE GOVERNING CODES ARE MINIMUM REQUIREMENTS AND WHERE THE CONTRACT DOCUMENTS EXCEED CODE REQUIREMENTS, THESE DOCUMENTS SHALL PREVAIL.
- UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL EACH AND EVERY ITEM CONTAINED IN, AND ASSOCIATED WITH, THE PARTICULAR CLASS OF WORK INVOLVED AS SHOWN ON THE DRAWINGS AND FURTHER DESCRIBED IN THESE SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO: LABOR, TRANSPORTATION, TOOLS, STORAGE, CUTTING, PATCHING AND CLEAN-UP.
- LOCATE ALL EQUIPMENT, FIXTURES, DUCTWORK, PIPING, AND OTHER ITEMS IN APPROXIMATE LOCATIONS SHOWN. PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, AND OPENINGS, AS REQUIRED FOR A COMPLETE AND SATISFACTORILY OPERATING INSTALLATION. COORDINATE ALL WORK TO PROVIDE FOR ALL SERVICE AND ACCESS CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT AND INSTALLATIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- THE LOCATIONS, POINTS OF CONNECTION, DIMENSIONAL DATA AND OTHER MEASUREMENTS SHOWN ARE OFFERED AS A GENERAL GUIDE ONLY AND WITHOUT GUARANTEE OF COMPLETE ACCURACY. ALL EXISTING ITEMS SHOWN ARE NOT TAKEN FROM EXISTING "AS-BUILT" DRAWINGS AND LIMITED FIELD SURVEY. CONTRACTOR SHALL VISIT THE SITE, AND REASONABLY FIELD VERIFY THE WORKING CONDITIONS REQUIRED TO INSTALL THE PARTICULAR CLASS OF WORK INVOLVED. MAKE PROVISIONS IN BID FOR SAME TO ASSURE THAT THE RESULTING INSTALLATION WILL BE COMPLETE, COORDINATED, AND RESULT IN A PROPERLY OPERATING SYSTEM.
- CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE COPY OF THESE DRAWINGS, MARKED WITH ANY ADDITIONS TO, OR DEVIATIONS FROM, THE WORK ILLUSTRATED, TO REPRESENT "AS-BUILT" CONDITIONS.
- CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION.
- COOPERATE WITH OTHER TRADES TO KEEP THE WORK AREA CLEAN AND FREE OF UNNECESSARY MATERIALS OR DEBRIS ON A DAILY BASIS. WHEN WORK IS COMPLETE, REMOVE ALL TOOLS, SCAFFOLDING, MACHINERY, AND DEBRIS CLEAN ALL DIRT AND DUST FROM ITEMS OF WORK AND BROOM SWEEP THE
- COOPERATE WITH THE OWNER'S REPRESENTATIVE AND OTHER TRADES TO MEET THE ESTABLISHED CONSTRUCTION SCHEDULE. SCHEDULE WORK SO AS TO AVOID DELAYING OTHER TRADES.
- PROVIDE PIPING MARKERS FOR THE PIPING SYSTEMS. TO INCLUDE FLOW ARROWS, EVERY 30' ON CENTER AND 3'-0" BEFORE AND AFTER ELBOWS OR
- 13. SUBMIT ON ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN PRIOR TO COMMENCING WITH ANY WORK. FAILURE TO COMPLY WILL RESULT IN REPLACEMENT OF ALL ITEMS FOUND NOT IN COMPLIANCE WITH THESE

REQUIREMENTS.

- PROTECT ALL BUILDING COMPONENTS, WALLS, ROOFS, FLOORS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED, OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF WORK SHALL BE CLEANED TO A "LIKE NEW", OR PRE-EXISTING, CONDITION.
- AT TIME OF FINAL INSTALLATION OBSERVATIONS, THE OPERATION OF ALL SYSTEMS OF EQUIPMENT SHALL HAVE BEEN DEMONSTRATED TO PERFORM PROPERLY.
- ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING BIDDING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER SO THAT AN ADDENDUM MAY BE ISSUED TO ADDRESS THOSE ITEMS PRIOR TO BIDDING. ANY DISCREPANCIES DISCOVERED AFTER BIDDING, THAT WERE REASONABLE TO HAVE BEEN DISCOVERED, SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- FOR RENOVATION AND REMODEL WORK, CAREFULLY REMOVE AND PROTECT ALL UNUSED EXISTING FIXTURES/EQUIPMENT, PIPING, DUCTWORK, ELECTRICAL SERVICES, AND ALL OTHER ITEMS ASSOCIATED THEREWITH WHERE INDICATED. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL AND DISPOSAL TO VERIFY WHETHER OWNER DESIRES TO KEEP ANY EXISTING ITEMS AND THE DESIRED MANNER OF DISPOSITION THEREOF. STORE ALL REMOVED ITEMS ON SITE FOR A MINIMUM OF TWO (2) WEEKS, UNLESS INDICATED OTHERWISE BY THE OWNER'S REPRESENTATIVE, TO ALLOW FOR INSPECTION BY THE OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS.
- EXISTING BUILDING OPERATIONS MUST REMAIN ACTIVATED AT ALL TIMES DURING NORMAL OPERATING HOURS. OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE PRIOR TO SHUTTING-DOWN ANY BUILDING SYSTEM. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASES OF CONSTRUCTION. MAINTAIN AIR DISTRIBUTION AND PIPING SYSTEMS TO OTHER FLOORS OF THE BUILDING OUTSIDE OF THE DEMOLITION AREA. SHUT DOWN OF EXISTING SYSTEMS SHALL OCCUR DURING UNOCCUPIED PERIODS WHERE POSSIBLE.
- PENETRATIONS OF THE CEILINGS, WALLS, OR FLOORS SHALL BE PATCHED, SLEEVED, SEALED, ESCUTCHEONED, AND RESTORED TO THE ORIGINAL FINISH CONDITIONS AND FIRE RATINGS. COORDINATE ALL PENETRATIONS WITH OTHER TRADES.
- B. PLUMBING SCOPE OF WORK:
 - PROVIDE ALL MATERIALS, EQUIPMENT, AND PAY ALL COSTS CONNECTED WITH THE MODIFICATIONS OF EXISTING PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS, AND AS HEREINAFTER SPECIFIED.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL ITEMS OF MATERIAL AND LABOR, AND ALL OTHER COSTS, TO COMPLETE THE WORK WITHIN THE INTENT OF THESE DRAWINGS, EVEN THOUGH EACH AND EVERY ITEM NECESSARY IS NOT SPECIFICALLY MENTIONED OR SHOWN.
 - SUBMIT MANUFACTURER'S BROCHURES ON BASIC MATERIALS AND PLUMBING FIXTURES TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.
- BUT NOT BE LIMITED TO:

ALL WORK SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE.

- DOMESTIC COLD WATER SYSTEM, INCLUDING DISTRIBUTION AND BACKFLOW PREVENTION, AS REQUIRED BY CODE AND CONNECTION TO EXISTING WATER SUPPLIES.
 - DOMESTIC HOT WATER SYSTEM, INCLUDING EXTENDING AND CONNECTION TO DISTRIBUTION PIPING.
 - TRIM FOR PLUMBING FIXTURES, INCLUDING SETTING, AND FINAL CONNECTIONS.
 - THERMAL INSULATION OF ALL PIPING SYSTEMS.
 - ROUGH-IN AND FINAL CONNECTIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHER TRADES.
 - ALL PERMITS AND FEES.
- INSPECTION AND TESTING.

PLUMBING MATERIALS AND WORKMANSHIP.

UTILITY CONNECTIONS:

- CONTRACTOR SHALL, BEFORE COMMENCEMENT OF THE PROJECT VERIFY THE LOCATION, DEPTH, SIZE, AND PRESSURE OR GRADE OF ALL EXISTING BUILDING UTILITY LINES TO WHICH CONNECTIONS FOR SERVICE ARE TO BE MADE. IF, FOR ANY REASON, CONDITIONS APPEAR THAT WILL ADVERSELY AFFECT THE PROPER INSTALLATION AND OPERATION OF THESE SYSTEMS, SUCH CONDITIONS SHALL BE REPORTED TO THE PROJECT COORDINATOR IN WRITING FOR RESOLUTION THEREBY.
- ALL CHARGES FOR CUTTING AND PATCHING OF CONCRETE SLAB. WALLS, ETC., REQUIRED FOR THESE SERVICES, SHALL BE INCLUDED IN

SANITARY SEWER/VENT SYSTEM:

- FURNISH AND INSTALL A COMPLETE SANITARY SYSTEM OF SOIL, WASTE, AND VENT PIPING FOR ALL NEW AND RELOCATED FIXTURES, DRAINS, EQUIPMENT DISCHARGES, ETC., AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. ALL PIPING SHALL RUN STRAIGHT AS POSSIBLE AND BE INSTALLED TO GRADE A MINIMUM OF 1/4" PER FOOT FOR PIPING 3" AND SMALLER, AND 1/8" PER FOOT FOR PIPING 4" AND LARGER, UNLESS NOTED OTHERWISE. INSTALL THE SYSTEM IN ACCORDANCE WITH ALL LOCAL CODES.
- SANITARY SYSTEM WASTE AND VENT PIPING SHALL BE CISPI 301, OR ASTM B888 SERVICE WEIGHT ASPHALTUM COATED CAST IRON SOIL PIPE AND ASTM A74 SERVICE WEIGHT CAST IRON FITTINGS. JOINTS SHALL BE MADE WITH A STAINLESS STEEL CORRUGATED SHIELD AND CLAMP ASSEMBLY OVER ONE PIECE NEOPRENE SEALING SLEEVE, CLAMP-ALL "HI-TORQ 80" OR HUSKY SD-2000. CONTRACTOR SHALL INSTALL ALL UNDERGROUND SANITARY PIPING WITH POLY VINYL CHLORIDE (PVC) SCHEDULE 40, DRAIN WASTE VENT (DWV) PIPE, ASTM D2466, ASTM D 2321, ASTM D2665 AND ASTM 1785, NSF STAMPED AND APPROVED. SYSTEM SHALL BE RATED FOR 200 PSI MINIMUM PRESSURE. FITTING SHALL BE POLY VINYL CHLORIDE (PVC) SCHEDULE 40, DWV PATTERNED FITTINGS, ASTM D2466 AND ASTM 1784, NSF STAMPED AND APPROVED. SOLVENT CEMENT: SHALL COMPLY WITH PIPE AND FITTING MANUFACTURERS RECOMMENDATIONS AND SHALL BE A TWO (2) STEP PROCESS WITH PRIMER MANUFACTURED FOR THERMOPLASTIC PIPING SYSTEMS AND SOLVENT CEMENT PER MANUFACTURER AND SHALL CONFORM TO ASTM D2564 AND ASTM F656.
- PVC PIPE MATERIAL SHALL NOT BE ALLOWED TO SERVE FIXTURES, DRAINS, OR EQUIPMENT SUBJECT TO RECEIVING FLUIDS WITH TEMPERATURES OF 140 DEG.F. OR HIGHER. PROVIDE CAST IRON SERVICE WEIGHT PIPE AND FITTINGS AS SPECIFIED ABOVE AND EXTEND A MINIMUM OF 20' (TWENTY FEET) OR TO MAIN WASTE LINE TO ASSURE HIGH TEMPERATURE COOLS IN CAST IRON PIPE BEFORE ENTERING PVC PIPING MATERIAL. WHERE PVC IS NOT TO BE USED BELOW GRADE PROVIDE CAST IRON PIPE WITH BELL AND SPIGOT JOINTS, AND USE NEOPRENE COMPRESSION GASKET SEALS, ASTM C564. PIPES AND JOINTS SHALL BE MARKED WITH THE APPLICABLE CISPI STANDARD COMPLIANCE COLLECTIVE TRADEMARK.

FLOOR DRAINS/FLOOR SINKS:

CURRENTLY THERE ARE NO NEW FLOOR DRAINS OR FLOOR SINKS. ALL NEW FIXTURES AND EQUIPMENT WILL DISCHARGE OPEN SITE AT EXISTING FLOOR DRAINS AND FLOOR SINKS.

FIELD QUALITY CONTROL

- FURNISH INSTRUMENTS, EQUIPMENT, AND LABOR NECESSARY TO
- TEST DRAINAGE, WASTE, AND VENTING PIPING WITH WATER BEFORE FIXTURES ARE INSTALLED.
- AFTER PLUMBING FIXTURES HAVE BEEN SET AND TRAPS FILLED WITH WATER, SUBMIT ENTIRE DRAINAGE, WASTE, AND VENTING SYSTEM TO FINAL TEST WITH SMOKE.

DOMESTIC WATER SYSTEM:

- FURNISH AND INSTALL A COMPLETE WATER SUPPLY SYSTEM WITH BRANCH LINES SERVING ALL NEW AND RELOCATED PLUMBING FIXTURES, FAUCETS, EQUIPMENT, ETC., AS INDICATED ON THE DRAWINGS, AND AS SPECIFIED HEREIN.
- PIPE MATERIALS: WATER PIPING LOCATED ABOVE GRADE 2-1/2" AND SMALLER SHALL BE, ASTM E88 TYPE "L" HARD COPPER TUBING WITH ANSI B16.22 WROUGHT COPPER FITTINGS. JOINTS SHALL BE MADE WITH 95/5 SOLDER. WATER PIPING LOCATED BELOW GRADE SHALL BE, ASTM B88 TYPE "K", SOFT COPPER. THERE SHALL BE NO JOINTS IN TUBING LOCATED UNDER THE SLAB.
- VALVES: PROVIDE BRONZE LEAD FREE BALL VALVES WITH STAINLESS STEEL BALL AND STEMS FOR PIPE SIZES 2 1/2" AND SMALLER. VALVES SHALL BE EQUAL TO THAT AS MANUFACTURED BY HAMMOND -ULTRAPURE.
- RO WATER PIPING: ALL REVERSE OSMOSIS PIPING SHALL BE SCH. 40 SOCKET-FUSED, UNPIGMENTED TYPE 2 VIRGIN NATURAL POLYPROPYLENE CONFORMING TO ASTM D4101. FITTINGS SHALL BE BY SAME MANUFACTURER AS THE PIPING AND SHALL BE SOCKET FUSION UNPIGMENTED TYPE 2 VIRGIN COPOLYMER POLYPROPYLENE. BALL VALVES SHALL BE DOUBLE-BLOCKING TYPE WITH O-RING CUSHIONS UNDER THE PTFE SEATS, VIRGIN, UNPIGMENTED TYPE 1

HOMOPOLYMER POLYPROPYLENE. ACCEPTABLE MANUFACTURER: IPEX – ENPURE HIGH-PURITY POLYPROPYLENE OR EQUAL BY ORION.

- PIPING SHALL BE INSTALLED WITH A GRADE FOR DRAINAGE TOWARD MAIN SUPPLY RISERS AND TO FIXTURE CONNECTIONS TO ALLOW COMPLETE DRAINAGE OF THE SYSTEM.
- WATER SYSTEM SHALL BE STERILIZED WITH A SOLUTION OF HTH IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE PUBLIC HEALTH DEPARTMENT. PUMP THE HTH SOLUTION INTO THE WATER SYSTEM AND FILL THE COMPLETE SYSTEM, INCLUDING BRANCH PIPES. EACH OUTLET SHALL BE PURGED FOR AIR DURING THE STERILIZATION PROCESS. SYSTEM SHALL BE COMPLETELY FLUSHED AFTER STERILIZATION.
- AT EACH FIXTURE FAUCET, PROVIDE A STOP VALVE IN EACH SUPPLY. STOP VALVES SHALL BE IN ACCORDANCE WITH PLUMBING CODE. PROVIDE IN-LINE CHECKS ON WATER SUPPLIES AT FAUCET WHERE REQUIRED TO PREVENT CROSS-CONNECTIONS. INSTALL AIR CHAMBERS 1'-6" MINIMUM HEIGHT AT ALL CONNECTIONS AND ASSE 1010 APPROVED & PDI CERTIFIED SHOCK ARRESTERS EQUAL TO "HYDRA-RESTER", SIOUX CHIEF MANUFACTURING CO.

VACUUM BREAKERS: ACCEPTABLE MANUFACTURER

- a) WATTS. b) FEBCO.
- c) BEECC
- ATMOSPHERIC, CHECK VALVE TYPE. BRONZE BODY CONSTRUCTION WITH POLISHED CHROME FINISH.

SPILL-RESISTANT VACUUM BREAKERS: ACCEPTABLE MANUFACTURER:

- FEBCO
- BEECO ANTI-SIPHON
- TESTABLE, CHECK VALVE TYPE. LEAD FREE BRONZE BODY CONSTRUCTION WITH POLISHED
- EQUAL TO WATTS LF008PCQT

REDUCED PRESSURE TYPE BACKFLOW PREVENTER ASSEMBLY (FOR NON-RO WATER).

- ACCEPTABLE MANUFACTURERS: a) WATTS. b) BEECO
- AMES. DOUBLE CHECK VALVE TYPE WITH SHUTOFF VALVES
- a) QUARTER TURN BALL SHUT-OFF VALVES UP TO 2-1/2 b) OUTSIDE STEM AND YOKE GATE SUT-OFF VALVES 3
- INCHES AND OVER. DIFFERENTIAL PRESSURE TYPE RELIEF VALVE WITH AIR GAP
- LEAD-FREE BRONZE BODY CONSTRUCTION UP TO 2-1/2 INCHES. CAST IRON BODY CONSTRUCTION 3 INCHES AND OVER.
- PROVIDE IN-LINE UPSTREAM Y-TYPE STRAINER. 20 MESH STRAINER 2 INCHES AND BELOW. 0.125 PERFORATED SCREEN MESH 2-1/2 INCHES AND
- ACCEPTABLE PRODUCT: WATTS NO. 909S (FDA)-QT.
- REDUCED PRESSURE TYPE BACKFLOW PREVENTER ASSEMBLY -STAINLESS STEEL (FOR CONNECTION TO COMMERCIAL DISHWASHERS): ACCEPTABLE MANUFACTURES: a) WATTS.

- APOLLO.
- WILKINS. DOUBLE CHECK VALVE TYPE WITH SHUTOFF VALVES.
- QUARTER TURN BALL SHUT-OFF VALVES UP TO 1 INCHES. DIFFERENTIAL PRESSURE TYPE RELIEF VALVE WITH AIR GAP
- LEAD-FREE STAINLESS STEEL BODY CONSTRUCTION UP TO 1
- INCHES PROVIDE IN-LINE UPSTREAM Y-TYPE STRAINER.
- a) 20 MESH STRAUNER 1 INCHES AND BELOW. ACCEPTABLE PRODUCT: WATTS NO. 009SS-QT.
- PROVIDE STAINLESS STEEL. 16 INCH BY 16 INCH ACCESS DOORS WITH CAM LOCKS EQUAL TO MILCOR STYLE "K, M OR DW" AS REQUIRED FOR ACCESS TO ALL VALVES BEHIND GYPSUM BOARD CEILINGS AND WALLS, PAINT TO MATCH ADJACENT FINISHES.
- REQUIRED TO PREVENT CROSS-CONNECTIONS.
- INSULATION: INSULATION OF ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING AND ALL CONDENSATE DRAIN PIPING. DOMESTIC COLD AND HOT WATER: ONE INCH (1") THICK, 4 PIPE COVERING WITH FACTORY APPLIED, WHITE FRG, FIRE RESISTANT, VAPOR BARRIER JACKET. USE 7 PSF DENSITY INSULATION INSERTS WITH 16 GAUGE MOLDED FIBERGLASS WITH FIRE RESISTANT JACKET. ELBOWS AND FITTINGS WILL BE THE SAME THICKNESS.
- COPPER TUBING BELOW SLAB OR CAST IN CONCRETE: 1/2" ARMAFLEX OR APPROVED EQUAL
- WASTE AND VENT PIPING SHALL BE TESTED ON COMPLETION OF THE ROUGH WORK AND BEFORE FIXTURES AND TRAPS ARE CONNECTED. ALL OPENINGS. EXCEPT HIGHEST VENTS. ARE TO BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER. SYSTEM SHALL STAND WITHOUT LEAK OR LOSS OF WATER FOR A PERIOD OF NOT LESS THAN
- ALL WATER PIPING SHALL BE PRESSURIZED HYDRAULICALLY AT 150 POUNDS PER SQUARE INCH AND THIS PRESSURE SHALL BE HELD WITHOUT ADDITIONAL PRESSURIZATION FOR NOT LESS THAN ONE (1 HOUR. EQUIPMENT, ETC., IN THE SYSTEM THAT MAY BE DAMAGED BY THIS PRESSURE SHALL BE ISOLATED OR DISCONNECTED FROM THE
- GAS PIPING SHALL BE TESTED WITH AIR PRESSURE BY MERCURY GAUGE TO A PRESSURE EQUAL TO 18" MERCURY COLUMN FOR A PERIOD OF FOUR (4) HOURS. SYSTEM SHALL HOLD THE PRESSURE WITHOUT RE-PRESSURIZATION.



- WIDTH VARIES PER PIPE SIZE AND

DEPTH OF PIPING (MIN. 2'-0" AND

6" CLEAR ON BOTH SIDES OF PIPE

FIELD VERIFY EXACT

---- IF CARTON FORMS OR VOID

VERIFY VOID DEPTH WITH

BY TEST CUT (SQUARE).

STRUCTURAL ENGINEER OF

SPACE ARE PRESENT.

SLAB THICKNESS.

TO BE INSTALLED)

— EXISTING SLAB

EXISTING SOIL

MIN.

└─ PIPING

NOTE: INFORMATION PROVIDED IS NOT INTENDED TO REFLECT THE EXACT SLAB TYPE BUT IS INTENDED FOR GENERAL BACKFILL INFORMATION ONLY.

REINFORCING, AND COORDINATE SAW CUTTING REQUIREMENTS WITH THE

EXISTING FOUNDATION UNDERFLOOR PIPING DETAIL

CONTRACTOR SHALL FIELD VERIFY EXISTING SLAB TYPE, THICKNESS,

STRUCTURAL ENGINEER PRIOR TO PERFORMING ANY WORK.

REFER TO STRUCTURAL

EXISTING REINFORCING

- REFER TO STRUCTURAL

DRAWINGS FOR SELECT

COMPACTION

REQUIREMENTS).

BACKFILL REQUIREMENTS

IMMEDIATELY BELOW SLAB

(DEPTH, MATERIAL TYPE &

DRAWINGS FOR REWORK OF

INSTALL BRONZE LEAD FREE CHECK VALVES IN THE HOT AND COLD WATER BRANCHES TO MIXING TYPE FAUCETS OR MIXING VALVES, AS

POUND OR HEAVIER DENSITY, MOLDED SECTIONAL GLASS FIBER

CONDENSATE DRAIN: 1/2" ARMAFLEX OR APPROVED EQUAL

TESTS AND INSPECTIONS

REFER TO ARCH. & ---

STRUCTURAL

DWG.'S FOR

PATCHING & OF

FOR CUTTING.

CONTRACTOR SHALL FIELD —

WITH STRUCTURAL ENGINEER

VERIFY AND COORDINATE

FOR EXISTING SLAB

CONDITIONS.

SAW CUT FLOORS

PRIOR TO SAW CUTTING OF -

DEPTH VARIES

PER FLOW LINE

BACKFILL AROUND PIPE PER —

NO SCALE

MANUFACTURER'S RECOMMENDATIONS

SOILS TEST REPORT RECOMMENDATIONS

AND IN ACCORDANCE WITH THE SITE

REQUIREMENTS

EXISTING SLAB COORD. WITH

STRUCTURAL ENGINEER

ON EXACT METHODS AND

PROCEDURE TO BE USED

- FOUR (4) HOURS.
- SYSTEM.

REVERSE OSMOSIS SYSTEM CIRCULATION PUMP SCHEDULE <u>DESIGNATION</u> PUMP TYPE MANUFACTURER SERVICE GPM RPM DESCRIPTION MODEL HEAD HP VOLTS PH 0.167 | 120 V | 1 | 60 Hz | AT SPEED 3 - STAINLESS STEEL BODY RO SYSTEM GRUNFOS UPS26-99SFC 33 GPM

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER RETURN (HWR)
SS	SANITARY WASTE (SS)
V	SANITARY VENT (V)
RO	REVERSE OSMOSIS WATER (RO)
	EXISTING TO REMAIN
	FLOOR DRAIN
	FLOOR SINK
	GAS METER
	ROOF PIPE SUPPORT
	PLUG VALVE
№ - ○ -	GAS PRESSURE REGULATOR
	RISE & DROP IN PIPING
C.O. C.O.	CLEANOUT
+6+	BALL VALVE
	CHECK VALVE
 	UNION
. 	GAS COCK
	PRESSURE REDUCING VALVE
`	PRESSURE RELIEF VALVE
⊢ ф ^{НВ}	HOSE BIBB
	NEW CONNECTION TO EXISTING
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLE
B.T.C.	BRANCH TO CONNECTION
A.F.F.	ABOVE FINISHED FLOOR
B.F.F.	BELOW FINISHED FLOOR
B.F.G.	BELOW FINISHED GRADE
EXT. GB.	EXTERIOR GRADE BEAM
Æ	FLOWLINE ELEVATION
СО	CLEAN OUT
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
DCO	DOUBLE CLEAN OUT
WCO	WALL CLEAN OUT
VTR	VENT THROUGH ROOF
(E)	EXISTING UTILITIES
D.S.	DOWNSPOUT
\Box	SQUARE FEET
	BOLS SHOWN ARE NECESSARILY USED

GENERAL PLUMBING NOTES:

ALL DIMENSIONS AND FIELD CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE. THE LOCATION OF ALL NEW PIPING, FIXTURES, EQUIPMENT, LOCATIONS, SIZES, SCALES, AND DIMENSIONS SHALL BE CHECKED AND VERIFIED ON SITE.

Consulting Engineers

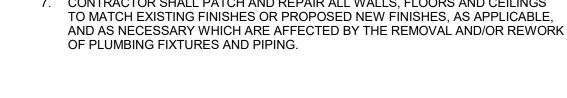
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- 2. CONTRACTOR SHALL LAY OUT THEIR WORK BASED ON ACTUAL FIELD MEASUREMENTS AND ACTUAL DIMENSIONS OF EQUIPMENT AND FIXTURS INSTALLED. ALL PIPING AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET IN PLACE TO MAINTAIN REQUIRED SERVICE CLEARANCES. ALL INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- 3. CONTRACTOR SHALL CHANGE THE LOCATION OF NEW PIPING, WHERE REQUIRED, TO MEET FIELD CONDITIONS.
- 4. CONTRACTOR SHALL SUBMIT COMPLETE PRODUCT DATA ALONG WITH SHOP DRAWINGS, PREPARE AND SUBMIT 1/4" = 1'-0" SCALE PLUMBING PIPING SHOP DRAWINGS. CONTRACTOR SHALL FULLY COORDINATE ALL PIPING SHOP DRAWINGS WITH SHEET METAL SHOP DRAWINGS AND WITH THE WORK OF ALL OTHER TRADES. PRIOR TO SUBMITTAL SHOP DRAWINGS SHALL BE CHECKED FOR OBSTRUCTIONS AND INTERFERENCES, ETC. FAILURE TO SUBMIT SHOP DRAWINGS IN A TIMELY MANNER AS REQUIRED TO KEEP PACE WITH THE CONSTRUCTION SCHEDULE MAY RESULT IN DELAYS. AND POSSIBLE STOPPAGE OF PAYMENT TO THE CONTRACTOR, ADDTIONALLY, NO WORK MAY PROCEED UNTIL SUCH SHOP DRAWINGS ARE SUBMITTED, REVIEWED, AND FOUND TO BE ACCEPTABLE BY THE ARCHITECT AND ENGINEER.
- 5. REFER TO STRUCTURAL ENGINEER'S PLANS FOR EXACT LOCATION OF STRUCTURAL PEIRS, BEAMS, JOISTS AND OTHER STRUCTURAL ELEMENTS. MODIFY PIPE ROUTING AS REQUIRED TO AVOID CONFLICTS WHERE SUCH
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL WALLS, PARTITIONS, CEILINGS, CEILING HEIGHTS, AND EQUIPMENT/FIXTURES.
- 7. COORDINATE ALL UNDERGROUND UTILITIES WITH CIVIL ENGINEERING PLANS FOR CONNECTION OF ALL SANITARY WASTE, STORM DRAINS, DOMESTIC WATER AND FIRE WATER SUPPLIES THAT EXTEND 5'-0" BEYOND THE BUILDING LINE. VERIFY EXACT FLOW LINE ELEVATIONS OF WASTE AND STORM MAINS PRIOR TO MAKING ANY CONNECTIONS.
- 8. CONTRACTOR SHALL CONFIRM SCALE OF PLUMBING DRAWINGS BY COMPARISON WITH ARCHITECTURAL DRAWINGS TO VERIFY THE ACCURACY OF ALL TAKE-OFFS MADE DURING THE BIDDING PERIOD.
- 9. ANY PIPE PENETRATIONS OF CEILINGS, WALLS OR FLOORS SHALL BE RESTORED TO THE FIRE RATINGS INDICATED ON THE ARCHITECTURAL DRAWINGS. FLOOR, WALL AND CEILING PIPING PENETRATIONS SHALL BE PATCHED, SLEEVED, SEALED, AND BE PROVIDED WITH APPROPRIATE
- 10. REFER TO ARCHITECTRUAL DRAWINGS FOR EXACT LOCATION OF FLOOR
- 11. ALL GREASE WASTE AND SANITARY SEWER PIPING THAT RECEIVES A DISCHARGE OF WASTE OR WATER THAT IS 140 DEGREE F. OR GREATER IN TEMPERATURE SHALL BE STANDARD WEIGHT CAST IRON PIPE WITH HUB AND SPIGOT FITTINGS FOR BURIED PIPING (UNDER DIRT EVEN IF IN A CRAWL SPACE) INSTALLATIONS AND NO-HUB FOR ABOVE SLAB INSTALLATIONS OR SUSPENDED ABOVE GROUND IN A CRAWL SPACE, WITHOUT EXCEPTION. EXTEND CAST IRON PIPE TO BE A MINIMUM OF 20' TWENTY LINEAR FEET IN LENGTH BEFORE ALLOWING TRANSITION BACK TO ANOTHER PIPE MATERIAL, OR AFTER
- 12. CONTRACTOR SHAL NOT DEVIATE FROM THE CONSTRUCTION DOCUMENTS. ANY DEVIATION SHALL RECEIVE WRITTEN ACCEPTANCE AND APPROVAL FROM THE OWNER AND ARCHITECT IN ADVANCE OF SUCH WORK BEING PERFORMED. SUBMIT SUCH REQUESTS TO THE ARCHITECT AND ENGINEER ALONG WITH THE MONETARY CREDIT, AS APPLICABLE. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS FOUND ON THE PROJECT THAT DID NOT RECEIVE A LETTER OF ACCEPTANCE AND APPROVAL FROM THE OWNER OR ARCHITECT SHALL BE

CONNECTING TO A MAIN DRAIN LINE.

- THE INFORMATION SHOWN ON THE DEMOLITION DRAWINGS IS NOT TAKEN FROM "AS BUILT" DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE GENERAL AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING, VERIFY THE GENERAL LOCATION OF ALL EXISTING WORK, AND BECOME INFORMED AS TO THE RELATION TO AND IMPACT ON THE
- WORK SHOWN ON THE DEMOLITION DRAWINGS DOES NOT ACCURATELY REFLECT ALL OF THE EXISTING CONDITIONS OR THE COMPLETE SCOPE OF THE DEMOLITION WORK. THIS WORK SHALL BE BASED ON THE DEMOLITION DRAWINGS, EXISTING DRAWINGS MADE AVAILABLE TO THE CONTRACTOR AND
- OF THE DEMOLTITION WORK.
- CONTRACTOR SHALL TRACE ALL PIPING BACK TO MAIN RISERS AND/OR SUPPLIES, AND VERIFY THAT PIPING DOES NOT SERVE ANY OTHER FIXTURES TO REMAIN. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO REMOVAL OF PIPING TO BE DEMOLISHED.
- COMPLETION OF THE PROJECT. TO PREVENT BLOCKAGE OF THE DRAINS WITH CONSTRUCTION DIRT, TRASH AND DEBRIS. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORS AND CEILINGS



1. ALL BACKFLOW PREVENTORS SHALL BE TESTED BY AN APPROVED BACKFLOW PREVENTION SPECIALIST PRIOR TO PLACING IN SERVICE. A **CUSTOMER SERVICE INSPECTION CERTIFICATE** SHALL BE REQUIRED PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY PERMIT.

REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

ESCUTCHEONS WHERE LOCATED IN FINISHED/EXPOSED SPACES. DRAINS, PLUMBING FIXTURES, & KITCHEN EQUIPMENT.

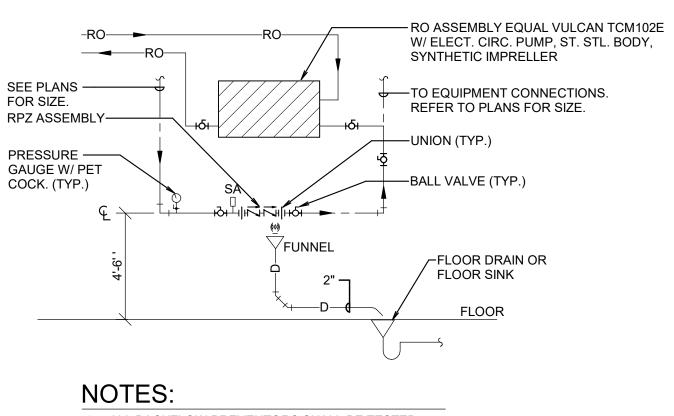
FULLY REPLACED AND SHALL BE MADE TO BE IN FULL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AT THE EXPENSE OF THE CONTRACTOR.

GENERAL DEMOLITION NOTES:

- WORK REQUIRED. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE IN THE FASHION NOTED ABOVE.
- COORDINATE DEMOLITION WORK WITH BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT SHALL AFFECT OTHER SYSTEMS WITHING THE LIMITS OF NEW CONSTRUCTION OR OTHER AREAS OF THE EXISTING BUILDING.
- 4. THE DRAWINGS ONLY REFLECT KNOWN AREAS OF DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE COMPLETE SCOPE

FLUSH AND CLEAN ALL EXISTING FLOOR DRAINS, AREAWAY DRAINS, AND

RELATED DRAIN PIPING AS NEEDED DURING CONSTRUCTION, AND AT THE



NO SCALE

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OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

REVISIONS

DELTA

DESCRIPTION

PROJECT TEAM DRAWN BY ED TEXAS

CONSTRUCTION DOCUMENTS SHEET CONTENTS PLUMBING

PROJECT PHASE

SPECIFICATIONS LEGEND & NOTES

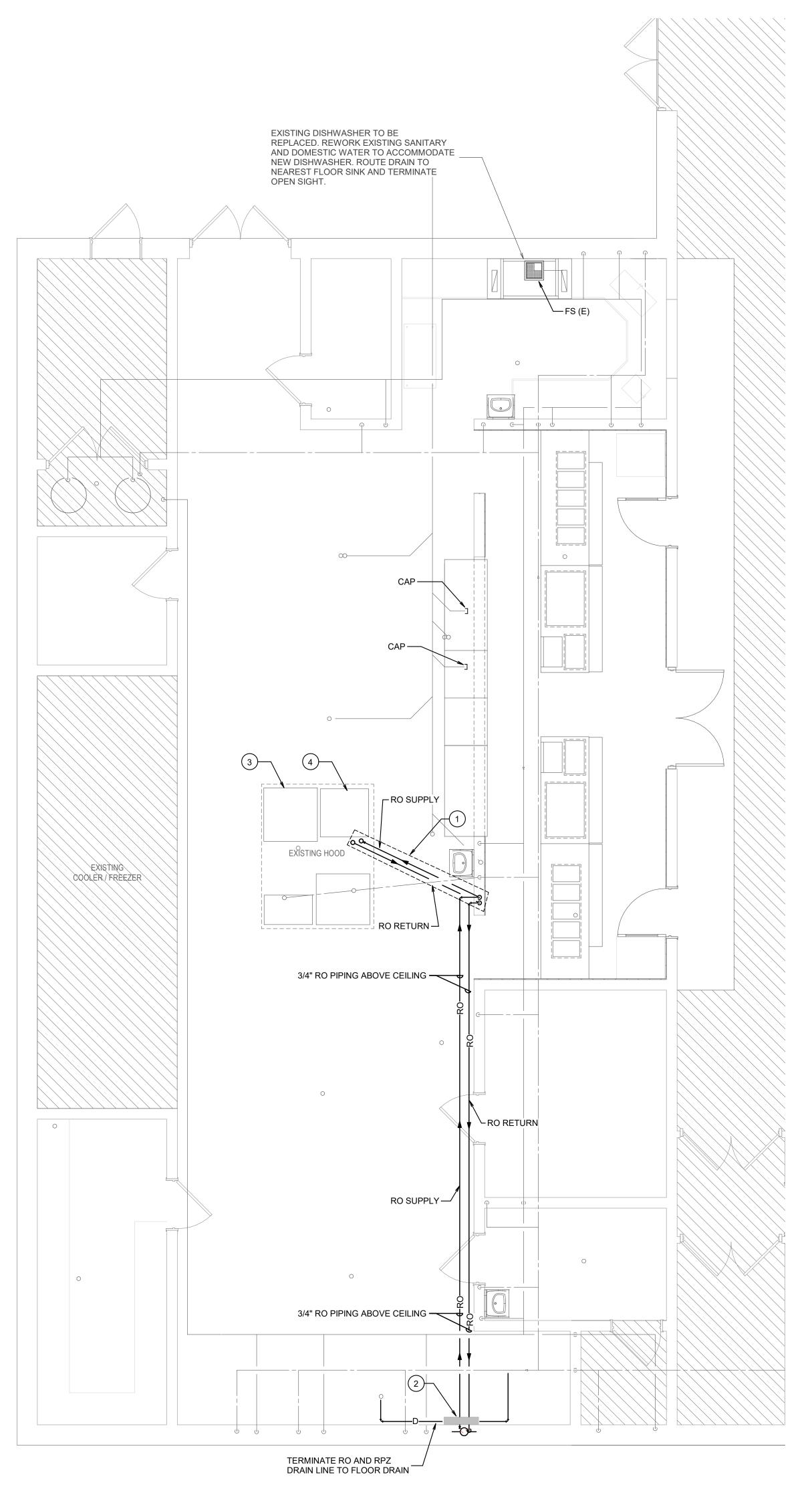
TO ACCOMMODATE AREAS OF NEW CONSTRUCTION, INCLUDING ALL AREAS OF RENOVATION, AREAS OF THE EXISTING BUILDING NOT CURRENTLY SPRINKLERED AND ADDITIONS. CONTRACTOR SHALL REWORK THE EXISTING FIRE RISER, FIRE HEADER, FIRE MAIN, DISTRIBUTION PIPING AND BRANCH PIPING AS REQUIRED IN ORDER TO ACCOMMODATE THE RENOVATED AREAS, AREAS OF NEW CONSTRUCTION AND AREAS OF THE BUILDING NOT CURRENTLY SPRINKLERED. RELOCATE AND / OR REPLACE EXISTING SPRINKER MAINS, BRANCH PIPING AND SPRINKLERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION. PROVIDE NEW

SPRINKLERS AS NECESSARY FOR COMPLETE COVERAGE. WHERE SPRINKLER PIPING IS REMOVED DISCONNECT & CAP ABOVE CEILING. CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK PRIOR TO BID SUBMITTAL.

PLUMBING EQUIPMENT ROUGH-IN CONNECTIONS ARE BASED ON ARCHITECT-PROVIDED EQUIPMENT SELECTIONS AND CUTSHEETS. CONTRACTOR TO REVIEW CUTSHEETS, CONFIRM CONNECTION REQUIREMENTS, AND FIELD VERIFY FIELD CONDITIONS AND REQUIREMENTS PRIOR TO PLUMBING ROUGH-IN. CONTRACTOR SHALL SUBMIT ANY AND ALL REQUIRED PLUMBING ROUGH-IN CONNECTION CHANGES TO ENGINEER PRIOR TO PLUMBING ROUGH-IN.

NOTES BY SYMBOL 'O':

- 1 SAWCUT EXISTING PIPING TO ACCOMMODATE NEW RO SYSTEM PIPING BELOW GRADE. ROUTE RO PIPING IN 3" PVC SLEEVE BELOW FLOOR. REFER TO DETAIL "01" ON SHEET P000.
- 2 RO ASSEMBLY AND RPZ. MOUNT RO ASSEMBLY ABOVE RPZ MAX 6'-0" AFF. REFER TO DETAIL "02" ON SHEET P000 FOR RPZ DETAIL.
- 3 EXISTING BRAISING PAN AND STEAMER TO BE REPLACED. REWORK EXISTING DOMESTIC WATER AND DRAIN PIPING TO ACCOMMODATE NEW EQUIPMENT.
- 4 EXISTING COMBI OVEN TO BE REPLACED. REWORK EXISTING DOMESTIC WATER AND DRAIN PIPING TO ACCOMMODATE NEW EQUIPMENT.
- 5 EXISTING THREE COMPARTMENT SINK TO BE REMOVED AND RETURNED TO OWNER. REMOVE ASSOCIATED EXISTING SANITARY SEWER PIPING AND CAP BELOW FLOOR. REMOVE ASSOCIATED EXISTING VENT AND DOMESTIC WATER PIPING AND CAP ABOVE CEILING AT WATER MAIN.



DEMOLITION FLOOR PLAN - LEVEL 1 - OVERALL - PLUMBING

CAP (TYP)—

- - + -



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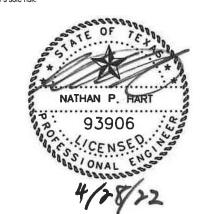
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PROJECT TEAM **ED TEXAS**

PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS FLOOR PLAN - LEVEL 1 -**PLUMBING**

SHEET NO.

P100



GENERAL DEMOLITION NOTES:

- 1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY, CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO AND EFFECT ON THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
- 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL AFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL VERIFY WITH THE OWNER IF THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OF EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER DEMOLITION INFORMATION TO INCLUDE PHASING OF WORK AND CONSTRUCTION SCHEDULE.
- 6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED.
- 7. REMOVE ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT TO BE REMOVED.

GENERAL LOW VOLTAGE NOTES:

FIRE ALARM INSTALLER.

- 1. PRIOR TO COMMENCING ANY DEMOLITION WORK, ALL LOW VOLTAGE SYSTEMS (PA & PAGING, FIRE ALARM, NETWORK, SECURITY CAMERAS) ARE TO BE OPERATIONALLY TESTED BY THE OWNER AND WITNESSED BY THE CONTRACTOR, AND ANY DEFICIENCIES SHALL BE NOTED.
- 2. ALL DEVICES NOT SHOWN TO BE REMOVED, SHALL BE PROTECTED FROM DUST, DEBRIS AND DAMAGE DURING CONSTRUCTION.
- 3. ALL FIRE ALARM WORK TO BE PERFORMED BY A STATE OF TEXAS LICENSED

GENERAL POWER NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY
- 2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
- 3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
- 4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED
- OTHERWISE ON THE PLANS.
- 6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID). 7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- 8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRITTEN.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 1" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN ACCESSIBLE CEILING FOR ALL TEL/DATA DEVICES SHOWN ON DRAWINGS, COORDINATE EXACT DEVICE LOCATION WITH OWNER'S I.T. REPRESENTATIVE AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
- 10. WHERE SHOWN, THE NUMBER DESIGNATION SHOWN AT WALL VOICE/DATA OUTLETS IS FOR OWNERS QUANTITY OF CABLE DROPS.
- 11. DO NOT MOUNT THE POWER AND/OR TELEPHONE/DATA JUNCTION BOXES BACK TO BACK IN THE WALL.
- 12. REFER TO MECHANICAL FLOOR PLANS FOR WALL MOUNTED THERMOSTAT. SENSOR AND ALL OTHER CONTROL DEVICE LOCATIONS. PROVIDE FLUSH, GALVANIZED STEEL, WALL MOUNTED JUCTION BOX WITH 3/4" EMT CONDUIT AND NYLON PULL-STRING TO 4" ABOVE ACCESSIBLE CEILING FOR EACH DEVICE.
- 13. ALL DEVICES SHALL BE MOUNTED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE EXACT MOUNTING LOCATIONS, HEIGHTS AND ORIENTATIONS WITH ARCHITECTURAL DRAWINGS.
- 14. ALL RECEPTACLES MOUNTED IN KITCHENS, RESTROOMS, AT COUNTERS CONTAINING SINKS, OUTSIDE THE BUILDING OR SERVING VENDING MACHINES SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER(GFCI) PROTECTION.
- 15. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE
- ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. 16. ALL ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT
- ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER DESIGNATION.
- 17. ELECTRICAL CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING. 18. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ALL MOTOR STARTERS
- 19. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULES TO REFLECT FINAL BUILDING CONDITIONS.
- 20. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.

GENERAL LIGHTING NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS.
- 2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
- 3. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE AND LOCATION OF DEVICES AND/OR FIXTURES.
- 5. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE.
- 6. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE MOUNTING FRAMES AND ACCESSORIES WITH THE CEILING TYPE ACTUALLY BEING FURNISHED. REFER TO FINAL ARCHITECTURAL REFLECTED CEILING PLAN AND RELATED SUBMITTALS PRIOR TO CONFIRMING MOUNTING FRAMES AND ACCESSORIES. LIGHT FIXTURE SUBMITTALS SHALL BE BASED ON THIS LEVEL OF COORDINATION OCCURRING PRIOR TO SUBMITTALS BEING GENERATED BY THE CONTRACTOR.
- 7. ALL CIRCUITS SHOWN SHALL BE 277V, 20A CIRCUITS UNLESS NOTED
- 8. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- 9. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON PLANS.
- 10. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID). 11. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL
- BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE. 12. MOUNT LIGHT SWITCHES AS INDICATED ON ARCHITECTURAL DRAWINGS (48"

AFF UNLESS NOTED OTHERWISE).

- 13. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANG BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANG BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
- 14. EMERGENCY LIGHTING FIXTURES WITH BATTERY PACKS DESIGNED TO BE SWITCHED SHALL BE CONNECTED TO AREA LIGHTING HOT LEG AND SWITCH LEG TO ALLOW LAMPS TO BE CONTROLLED FROM LOCAL WALL SWITCH AND ILLUMINATE UPON POWER FAILURE.
- 15. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS TO AVOID CONFLICTS WITH DUCTWORK, PIPING, ETC.
- 16. CONTRACTOR SHALL PROVIDE ALL REQUIRED SWITCH PACKS, MOTION SENSORS AND ASSOCIATED WIRING TO CONTROL EACH ROOM AS SHOWN.
- SWITCH PACKS SHALL BE LOCATED ABOVE THE CEILING. 17. FIXTURES DESIGNATED "NL" SHALL REMAIN ON AT ALL TIMES FOR NIGHT
- 18. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.

	(SINGLE OR DOUBLE FACE)
፟ ♥ •	WALL MOUNTED EXIT LIGHT ASSEMBLY (SINGLE OR DOUBLE FACE)
0 Ø	CEILING MOUNTED LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
$\bigcirc \oslash$	WALL MOUNTED LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
· ·	PENDANT/SUSPENDED LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
0	CEILING MOUNTED RECTANGULAR LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
7/////	WALL MOUNTED RECTANGULAR LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
0 0	PENDANT/SUSPENDED RECTANGULAR LIGHT FIXTURE (HATCHING INDICATES EMERGENCY FIXTURE)
●- □	POLE MOUNTED OUTDOOR AREA LIGHT FIXTURE (SINGLE OR MULTIPLE HEADS PER POLE)
$\nabla \nabla \nabla$	TRACK LIGHT FIXTURE (LENGTH OF TRACK AS INDICATED ON DRAWINGS, NUMBER OF HEADS AS SPECIFIED)
\$ \$3 \$4	POLE SWITCH - SINGLE / THREE WAY / FOUR WAY
\$D	DIMMER SWITCH
\$K	KEYED SWITCH
\$м	MANUAL MOTOR STARTER
	TIMED OWNED I

LIGHTING LEGEND

CEILING MOUNTED EXIT LIGHT ASSEMBLY

	(SINGLE OR MULTIPLE HEADS PER POLE)
$\nabla\nabla\nabla$	TRACK LIGHT FIXTURE (LENGTH OF TRACK AS INDICATED ON DRAWIN NUMBER OF HEADS AS SPECIFIED)
\$ \$3 \$4	POLE SWITCH - SINGLE / THREE WAY / FOUR W
\$D	DIMMER SWITCH
\$к	KEYED SWITCH
\$м	MANUAL MOTOR STARTER
\$т	TIMER SWITCH
\$P	SWITCH WITH PILOT LIGHT
\$LV	LOW VOLTAGE SCENE SWITCH
\$ ^a	SWITCH WITH SWITCH LEG DESIGNATION
\$oc	SWITCH WITH OCCUPANCY SENSOR
oc oc	MOTION OCCUPANCY/VACANCY SENSOR - WALL / CEILING MOUNTED
PH	PHOTOCELL
- F	LOW-VOLTAGE LIGHTING CONTROL STATION
RC	ROOM CONTROLLER

UL 924 DEVICE

NOT ALL SYMBOLS USED

RISER I	DIAGRAM LEGEND
<u></u>	TRANSFORMER
M	METER
<u></u>	GROUND CONNECTION
^	CIRCUIT BREAKER
≪^ ≫	DRAW-OUT CIRCUIT BREAKER
-\-	FUSED SWITCH
7-	NON-FUSED DISCONNECT
V	AUTOMATIC TRANSFER SWITCH
	GENERATOR
	HEATER CONNECTION

NOT ALL SYMBOLS USED

F	FIRE ALARM MANUAL PULL STATION
FI (FI)	FIRE ALARM AUDIO/VISUAL DEVICE - WALL / CEILING MOUNTED
S S	FIRE ALARM STROBE ASSEMBLY - WALL / CEILING MOUNTED
§ (§)	SMOKE DETECTOR - WALL / CEILING MOUNTED
(\$) _D	DUCT MOUNTED SMOKE DETECTOR
(H) (H)	HEAT DETECTOR - WALL / CEILING MOUNTED
FS	FIRE ALARM SPRINKLER SYSTEM WATER FLOW SENSOR
TS	FIRE ALARM SPRINKLER SYSTEM VALVE TAMPER SENSOR
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
GAP	EMERGENCY GENERATOR ANNUNCIATOR PANEL
▼	WALL MOUNTED TELEPHONE OUTLET
$\nabla \nabla \nabla$	DATA OUTLET - WALL / FLUSH FLOOR / CEILING MOUNTED
T	WALL MOUNTED DATA/TELEPHONE OUTLET
₩AP	CEILING MOUNTED WIRELESS ACCESS POINT
1	WALL MOUNTED SYSTEM CLOCK - SINGLE / DOUBLE FACE
<u>\$</u> \$	SPEAKER ASSEMBLY - WALL / CEILING MOUNTED
M M	MICROPHONE OUTLET - WALL / CEILING MOUNTED
AV AV	AV BOX - WALL / CEILING MOUNTED
V	VOLUME CONTROL
K	SECURITY SYSTEM KEYPAD
M M	SECURITY SYSTEM MOTION SENSOR - WALL / CEILING MOUNTED
D	SECURITY SYSTEM DOOR MAGNETIC LOCK
	SECURITY SYSTEM CAMERA
CR	SECURITY SYSTEM CARD READER
IC	INTERCOM
B	GLASS BREAK DETECTOR
J	SECURITY SYSTEM JUNCTION BOX
•	SECURITY SYSTEM DOOR CONTACT
•	DOORBELL/PUSHBUTTON
$\overline{}$	

NOT ALL SYMBOLS USED

POWE	R LEGEND
	RACEWAY IN WALL OR ABOVE CEILING
	RACEWAY IN OR BELOW FLOOR
B-4	HOMERUN : LETTER(S) DENOTES PANEL NAME NUMBER DENOTES CIRCUIT NUMBER
А	DENOTES DEVICE MOUNTED ABOVE COUNTER
WP	DENOTES WEATHERPROOF DEVICE
GFI	DENOTES GROUND FAULT INTERRUPTING DEVICE
$ \Phi \Phi \Phi $	DUPLEX RECEPTACLE - WALL / FLOOR / CEILING MOUNTED
P #	QUADRAPLEX RECEPTACLE - WALL / FLOOR / CEILING MOUNTED
P	ISOLATED GROUND DUPLEX RECEPTACLE
	ISOLATED GROUND QUADRUPLEX RECEPTACLE
	PLUG LOAD CONTROLLED DUPLEX - HALF CONTROLLED / FULLY CONTROLLED
•	PLUG LOAD CONTROLLED QUADRAPLEX - HALF CONTROLLED / FULLY CONTROLLED
Φ	SIMPLEX RECEPTACLE
\bigcirc	SINGLE PHASE, 3 WIRE GROUNDED RECEPTACLE (NUMBER INDICATES AMPERAGE RATING)
\bigcirc	SPECIAL RECEPTACLE (NUMBER DENOTES AMPERAGE RATING)
\Diamond	USB RECEPTACLE
$\Leftrightarrow \Leftrightarrow$	USB COMBO RECEPTACLE - DUPLEX / QUADRUPLEX
*	ISOLATED GROUND USB COMBO RECEPTACLE - DUPLEX / QUADRUPLEX
	PLUG LOAD CONTROLLED USB COMBO - HALF CONTROLLED / FULLY CONTROLLED
•	POKE-THRU DEVICE
Q 0 0°	JUNCTION BOX - WALL / FLOOR / CEILING MOUNTED
	POWER/DATA SURFACE RACEWAY
P	POWER/DATA POWER POLE
	CONTROL DEVICE
Z PL	PLUG LOAD CONTROL DEVICE
	SCOREBOARD FLUSH FLOOR BOX
\bigcirc	MOTOR CONNECTION
- ⊠	MOTOR STARTER
4	DISCONNECT SWITCH
42	DISCONNECT SWITCH - FUSED

VARIABLE FREQUENCY DRIVE (VFD)

480V PANELBOARD

208V PANELBOARD

DISTRIBUTION PANELBOARD

DRY-TYPE TRANSFORMER NOT ALL SYMBOLS USED

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REVISIONS

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PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS **ELECTRICAL GENERAL** NOTES & LEGEND

E000

SHEET NO.

- 1. PROVIDE ALL EQUIPMENT MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR, OR INCIDENTAL TO, THE INSTALLATION OF A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR SPECIFIED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT, WITH WHICH WORK COMES IN CONTACT, MOVE MATERIALS. EQUIPMENT, DEBRIS, ETC., AND SHALL SATISFACTORILY REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE FAILING MATERIALS AND/OR EQUIPMENT WITH NEW MATERIALS AND/OR EQUIPMENT TO GIVE SATISFACTORY SERVICE DURING THE GUARANTEE PERIOD. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE OWNER FOR APPROVAL AND SCHEDULING OF ANY EXISTING BUILDING SYSTEM INTERRUPTIONS.
- 2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR INTENDED USE, AS INTERPRETED BY THE ARCHITECT OR OWNER. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMEN IN A NEAT, WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS, AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL ELECTRICAL WORK SHALL BE FURNISHED BY THE
- 3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES & STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES & STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT OR OWNER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, THE CONTRACTOR SHALL BEAR ALL COSTS RELATED TO THE CORRECTION OF SUCH CONFLICTS.
- 4. THE CONTRACTOR SHALL VISIT THE PREMISES TO BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK, WORKING CONDITIONS AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT OR OWNER OF ANY DISCREPANCIES PRIOR TO BIDDING OR PERFORMING ANY WORK.
- 5. IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATIONS THAT ARE COMPLETE AND INCLUDE ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
- 6. CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT, SIZES AND LOCATIONS WITH MECHANICAL & PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE REQUIRED ELECTRICAL DISCONNECT SWITCHES, FUSES, CIRCUIT BREAKERS, BRANCH CIRCUITS, CONTROL CONDUITS AND CONDUCTORS NECESSARY FOR PROPER OPERATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL MATERIALS AND LABOR TO INSTALL FULLY FUNCTIONAL SYSTEMS IN ACCORDANCE WITH THE INTENT DISPLAYED IN THESE DOCUMENTS AND TO COMPLY WITH ALL CODES.

B. CODES AND STANDARDS

1. CONTRACTOR SHALL COMPLY WITH LATEST INDUSTRY STANDARDS, CODES, OR ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS

C. SUBMITTAL DATA

- 1. SUBMITTAL DATA SHALL INCLUDE BUT IS NOT LIMITED TO, THE FOLLOWING:
- b. CONDUCTORS 600V OR LESS. c. FIRE STOPPING.
- d. GROUNDING CONDUCTORS AND CONNECTORS.
- e. IDENTIFICATION NAMEPLATES. WIRING DEVICES.
- g. SUPPORTING DEVICES. h. 600V AND BELOW: PANELBOARDS, CIRCUIT BREAKERS, MOTOR STARTERS AND DISCONNECTS.

a. BUSHINGS: LOCKNUTS AND CONNECTORS; WIREWAYS, RACEWAYS, JUNCTION, PULL AND OUTLET BOXES.

D. TEMPORARY WORKING ACCESS

F. MOUNTING SUPPORTS

- 1. REMOVE EXISTING WIRES, CONDUIT, EQUIPMENT, FIXTURES, AND OTHER ITEMS AS REQUIRED TO PROVIDE ACCESS FOR WORK IN EXISTING FACILITY.
- 2. REINSTALL AND REFINISH ITEMS TO REMAIN THAT WERE REMOVED, OR OTHERWISE DAMAGED, TO MATCH EXISTING ADJACENT SURFACES UPON COMPLETION OF THE WORK.

E. DISRUPTION OF EXISTING FUNCTIONS

- 1. ACCESS: ACCESS TO AND USE OF THE EXISTING FACILITIES AND SITE WILL BE RESTRICTED, AND SHALL BE UNDER THE DIRECTION AND CONTROL OF THE OWNER OR SITE MANAGER.
- 2. DISRUPTIONS: MAINTAIN EXISTING ELECTRICAL, COMMUNICATIONS, ALARM, AND OTHER EXISTING SYSTEMS, AND MAINTAIN EXISTING FUNCTIONS IN SERVICE EXCEPT FOR SCHEDULED DISRUPTIONS.
- 3. SCHEDULING OF DISRUPTIONS: SEEK AND OBTAIN APPROVAL THREE DAYS IN ADVANCE OF EVENT FOR DATE, STARTING TIME, AND DURATION OF EACH REQUIRED DISRUPTION.
- 4. NOTICE OF DISRUPTION: DATE, TIME AND DURATION OF EACH DISRUPTION SHALL BE SUBJECT TO THE OWNER OR SITE MANAGER'S PRIOR APPROVAL, AND SHALL INCLUDE THE ABOVE INFORMATION IN THE FORM OF A
- MEMORANDUM SUBMITTED BY THE CONTRACTOR TO THE OWNER OR SITE MANAGER FOR APPROVAL.
- 1. PROVIDE APPROPRIATE MOUNTING SUPPORTS WITHIN THE BUILDING ELEMENTS AS REQUIRED FOR INSTALLATION OF PANELBOARDS, ACCESS PANELS, JUNCTION BOXES, CONDUITS, PULL BOXES, AND OTHER DEVICES AND
- CABINETS WHICH INSTALL SURFACE AND/OR RECESSED INTO WALLS, FLOORS AND CEILINGS. NO PERFORATED STRAPS OR TIE WIRES SHALL BE PERMITTED.
- 3. USE CAST "C" CLAMPS, "U" STRAPS OR RING HANGERS ATTACHED TO RODS, AND/OR BRACKETS FASTENED TO STRUCTURE FOR INDIVIDUAL CONDUITS.
- 2. PROVIDE UNISTRUT BEHIND PANELS MOUNTING TO CMU WALLS.
- 4. SUPPORT GROUPED RACEWAYS TOGETHER IN HORIZONTAL RUNS ON TRAPEZE HANGERS CONSTRUCTED OF UNISTRUT OR EQUAL SUSPENDED FROM CAD-PLATED STEEL RODS.

- 1. PROVIDE FIRESTOPPING AND SEALING OF PENETRATIONS IN FIRE-RATED CONSTRUCTION, HORIZONTAL AND VERTICAL, UTILIZING THE FOLLOWING MATERIALS:
- a. FOAM: DOW CORNING FIRESTOP SILICONE RTV FOAM, CAT #2001 OR EQUAL. b. SEALANT: DOW CORNING FIRESTOP RTV SILICONE SEALANT, CAT #2000 OR EQUAL. c. DAMMING MATERIALS: MINERAL FIBERBOARD, MINERAL FIBER MATTING, MINERAL FIBER PUTTY, PLYWOOD OR PARTICLE BOARD, AS SELECTED BY THE APPLICATOR.

H. IDENTIFICATION

- PROVIDE THE NECESSARY MEANS TO CLEARLY AND PERMANENTLY IDENTIFY EACH ITEM OF EQUIPMENT.
- 2. PROVIDE EQUIPMENT WITH PLASTIC NAMEPLATES, CORRELATED TO THE DESIGNATION USED ON THE DRAWINGS
- 3. LABEL ALL JUNCTION BOXES WITH CIRCUIT INFORMATION OR ITS USE. I.E.: F/A, TELECOM.

CONDUIT

- 1. PROVIDE COMPLETE RACEWAY SYSTEM FOR ALL WIRING UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES, BUT IS NOT LIMITED TO, BRANCH CIRCUIT WIRING, CONTROL WIRING, AND AUXILIARY SYSTEMS WIRING UNLESS SPECIFIED TO THE CONTRARY HEREIN OR ON DRAWINGS. PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEM. INSTALL NYLON PULL CORD IN ALL EMPTY ELECTRICAL RACEWAYS.
- 2. RACEWAYS SHALL BE SIZED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE NEC TO PREVENT DAMAGE TO THE CONDUCTORS. DO NOT USE RACEWAYS SIZED LESS THAN 3/4" UNLESS SPECIFIED OTHERWISE.
- 3. PROVIDE GALVANIZED RIGID METAL RACEWAYS FOR ALL USES IN DAMP AND WET LOCATIONS, IN CRAWL SPACES, IN HAZARDOUS AREAS, AND IN LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
- 4. PROVIDE GALVANIZED ELECTRIC METALLIC TUBING WITH STEEL, WATERTIGHT, COMPRESSION TYPE FITTINGS FOR ALL OTHER USES INCLUDING CONTROL WIRING.
- 5. ALL EMT ENTERING BOXES SHALL BE SECURED WITH INSULATING THROAT CONNECTORS AND LOCKNUTS.
- 6. NO RACEWAY SHALL BE LOCATED IN PROXIMITY OF HOT WATER LINES OR EXCESSIVE HEAT.
- 7. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT CONNECTION FOR FINAL CONNECTION TO EACH MOTOR NOT TO EXCEED 24 INCHES IN LENGTH.
- 8. COORDINATE ROUTING OF CONDUITS IN EXISTING CONSTRUCTION WITH THE OWNER.
- 9. ALL EXPOSED RACEWAYS SHALL BE INSTALLED WITH RUNS PARALLEL AND/OR PERPENDICULAR WITH BUILDING WALLS.
- 10. PENETRATIONS OF WALLS, FLOORS, AND ROOF FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. JUNCTION AND PULL BOXES

1. JUNCTION AND PULL BOXES 100 CUBIC INCHES IN VOLUME AND SMALLER SHALL BE STANDARD OUTLET BOXES. THOSE LARGER THAN 100 CUBIC INCHES SHALL BE CONSTRUCTED AS SPECIFIED FOR CABINET CONSTRUCTION AND SHALL BE FURNISHED WITH COVERS. BOXES SHALL BE FACTORY-FABRICATED FROM GALVANIZED STEEL TO PREVENT CORROSION.

K. OUTLET BOXES

- 1. AT EACH OUTLET SHOWN, PROVIDE A BOX OF SUITABLE SIZE AND CONSTRUCTION. 2. CEILING OUTLETS SHALL BE 4-INCH SQUARE BOXES OF THE APPROPRIATE DEPTH.
- L. PULL CORDS
- 1. PROVIDE IN EACH EMPTY CONDUIT A NYLON PULL CORD TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS.

M. SYSTEMS OF CONDUCTORS

- 1. PROVIDE NEW CONDUCTORS HAVING "THWN" OR "THHN" INSULATION RATED NOT LESS THEN 600 VOLTS. CONDUCTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC FOR THE ELECTRICAL SERVICES AND
- 2. NO WIRE SMALLER THAN NO. 12 AWG SHALL BE UTILIZED FOR LIGHTING OR POWER CIRCUIT, AND NONE SMALLER THAN NO. 14 SHALL BE UTILIZED FOR ANY CONTROL CIRCUIT.
- 3. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID UNLESS OTHERWISE SPECIFIED OR INDICATED.
- 4. FOR HOME RUNS OVER 60 FEET LONG, USE MINIMUM #10 CONDUCTORS. 5. FOR HOME RUNS OVER 100 FEET LONG, USE MINIMUM #8 CONDUCTORS.
- 6. MAKE ALL CONNECTIONS WITH U.L. APPROVED SOLDERLESS PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOCK, OR AN APPROVED EQUAL

N. WIRING DEVICES AND ACCESSORIES

- 1. WIRING DEVICES SHALL BE FURNISHED IN COLORS WITH DEVICE PLATES OF COLORS AND MATERIALS SELECTED BY THE ARCHITECT OR OWNER, EXCEPT FOR DEVICES ON EMERGENCY POWER, WHICH SHALL BE RED IN
- 2. WALL SWITCHES: LIGHTING CIRCUITS SHALL BE PROVIDED WITH SPECIFICATION GRADE HP RATED, UL LISTED, SIDE AND BACK-WIRED, FLUSH TUMBLER SWITCHES RATED 20 AMP, 120 VOLTS, UNLESS OTHERWISE NOTED.
- 3. STANDARD WALL RECEPTACLES SHALL BE SPECIFICATION GRADE, RATED 20 AMP, 120 VOLT, 3-WIRE, GROUNDING TYPE, BACK AND SIDE-WIRED, NEMA 5-20R, COLOR AND FINISH AS SPECIFIED BY ARCHITECT OR OWNER.
- 4. PROVIDE A DEVICE PLATE FOR EACH OUTLET INSTALLED

O. PANELBOARDS

- 1. PROVIDE MINIMUM 10,000 AIC CIRCUIT BREAKERS. 2. ACCEPTABLE MANUFACTURERS: SQUARE D COMPANY AND EATON.
- P. MOTOR AND HVAC WIRING AND CONNECTIONS:
- 1. PROVIDE ALL NECESSARY CONDUIT, BOXES, SUPPORTS, AND WIRING FOR THESE ITEMS
- 2. REFER TO THE MECHANICAL DRAWINGS FOR THE EXTENT AND SCOPE OF THIS WORK
- 3. PROVIDE NEC DISCONNECT SWITCH FOR EACH MOTOR OR HVAC UNIT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- 4. INSTALL ALL CONDUCTORS AND PROTECTIVE DEVICES IN STRICT CONFORMANCE WITH APPLICABLE CODES, REGARDLESS OF ANY PLAN DISCREPANCIES AND/OR MECHANICAL EQUIPMENT SIZE VARIATIONS.

1. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE.

Q. GROUNDING

T. GUARANTEE

1. GROUNDING SYSTEM SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, WITH THE REQUIREMENTS OF OTHER AUTHORITIES HAVING JURISDICTION WITH THE NEC, AND APPLICABLE NFPA

2. PROVIDE SEPARATE GROUND WIRE FOR ALL CIRCUITS.

R. TELEPHONE AND DATA:

1. ALL CABLE AND CONDUITS SHALL BE PROVIDED BY OTHERS.

S. CUTTING AND PATCHING

1. CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND DRILLING OF WALLS, FLOORS, CEILINGS, ETC. FOR THE INSTALLATION OF WORK; ALL EXPOSED BUILDING SURFACES DAMAGED BY INSTALLATION OF ELECTRICAL WORK SHALL BE PATCHED AND FINISHED IN THE SAME MATERIALS AND MANNER AS ADJACENT AREAS.

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OWP PROJECT NO. DATE OF ISSUE 2022-110-00 04.28.2022

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REVISIONS

PROJECT TEAM DRAWN BY ED TEXAS

CONSTRUCTION DOCUMENTS SHEET CONTENTS

PROJECT PHASE

ELECTRICAL SHEET NO.

SPECIFICATIONS -

DEMOLITION NOTES BY SYMBOL 'O':

- DISCONNECT AND REMOVE POWER FOR BOOSTER HEATER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- DISCONNECT AND REMOVE POWER FOR EXISTING DISHWASHER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- DISCONNECT AND REMOVE POWER FOR EXISTING DISPOSER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- DISCONNECT AND REMOVE POWER FOR EXISTING SINK HEATER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- 5 DISCONNECT AND REMOVE POWER FOR EXISTING PASS THRU HEATED CABINET ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- 6 DISCONNECT AND REMOVE POWER FOR EXISTING PASS THRU REFRIGERATED CABINET ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- 7 DISCONNECT AND REMOVE POWER FOR EXISTING BRAISING PAN ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.

DEMOLITION NOTES BY SYMBOL ':

- B DISCONNECT AND REMOVE POWER FOR EXISTING COMBI DOUBLE OVEN ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
- 9 DISCONNECT AND REMOVE POWER FOR EXISTING CONVECTION OVEN ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
- DISCONNECT AND REMOVE POWER FOR EXISTING CONVECTION STEAMER ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
- DISCONNECT AND REMOVE POWER FOR EXISTING SERVING LINE ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
- TEMPORARILY SUPPORT ALL CEILING MOUNTED FIRE ALARM DEVICES AND OTHER LOW VOLTAGE DEVICES DURING THE REPLACEMENT OF EXISTING CEILING. PROTECT DEVICES FROM DEBRIS AND DAMAGE DURING RENOVATION. REINSTALL ON NEW CEILING.

GENERAL POWER NOTES:

1. REFER TO GENERAL POWER NOTES ON SHEET E000.

NOTES BY SYMBOL 'O':

— EXISTING ELECTRICAL **EQUIPMENT TO REMAIN**

(1) PROVIDE NEW STAINLESS STEEL DISCONNECT SWITCHES.

2 REUSE EXISING FLOOR STUB-UP CONDUIT FOR NEW KITCHEN EQUIPMENT.

(3) TEMPORARILY SUPPORT ALL CEILING MOUNTED FIRE ALARM DEVICES AND OTHER LOW VOLTAGE DEVICES DURING THE REMOVAL AND REPLACEMENT OF EXISTING CEILING. PROTECT DEVICES FROM DEBRIS AND DAMAGE DURING RENOVATION. REINSTALL ON NEW CEILING.

CUST. 103

BOOSTER HEATER—

K - 43,45,47

K - 37,39,41





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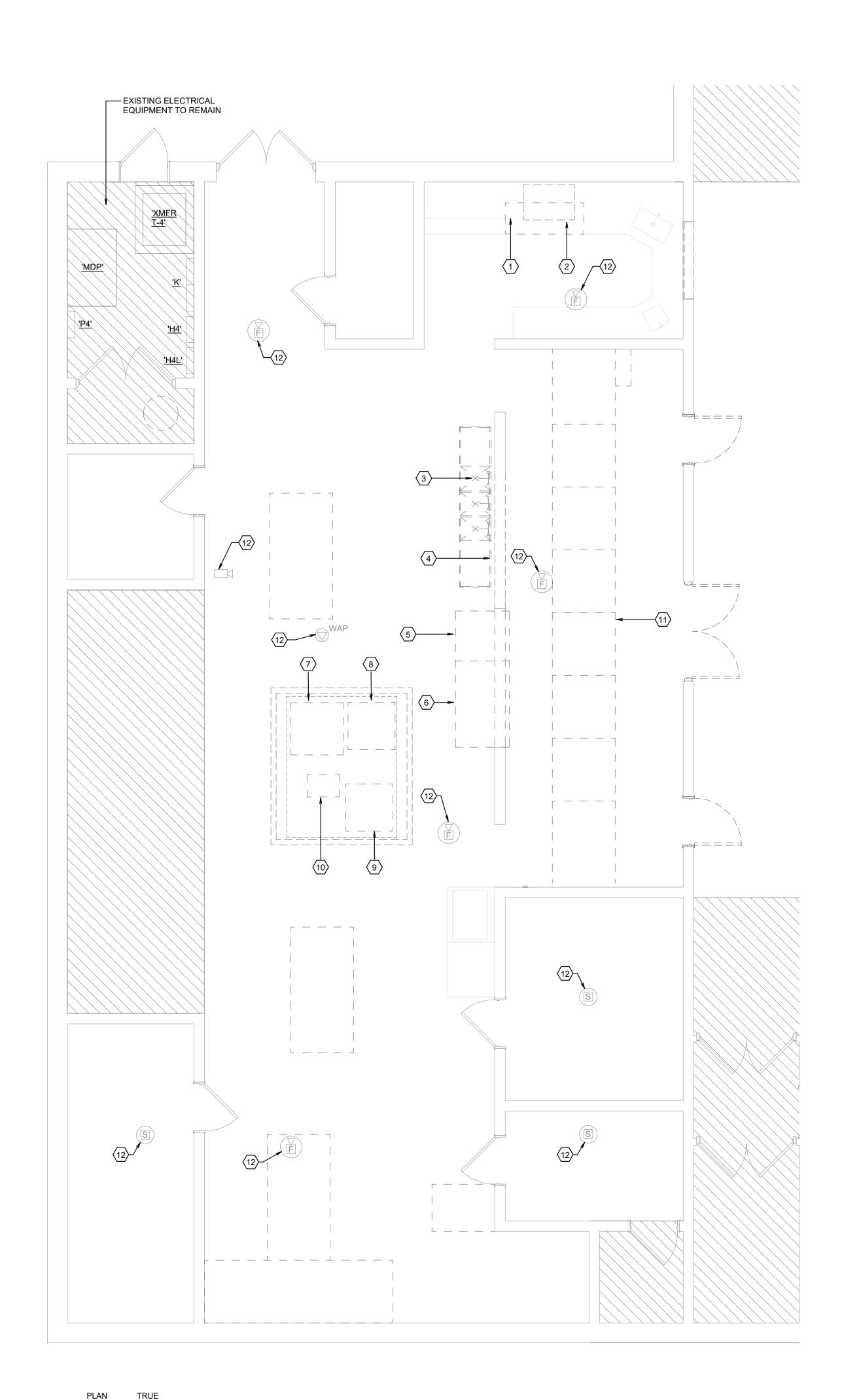
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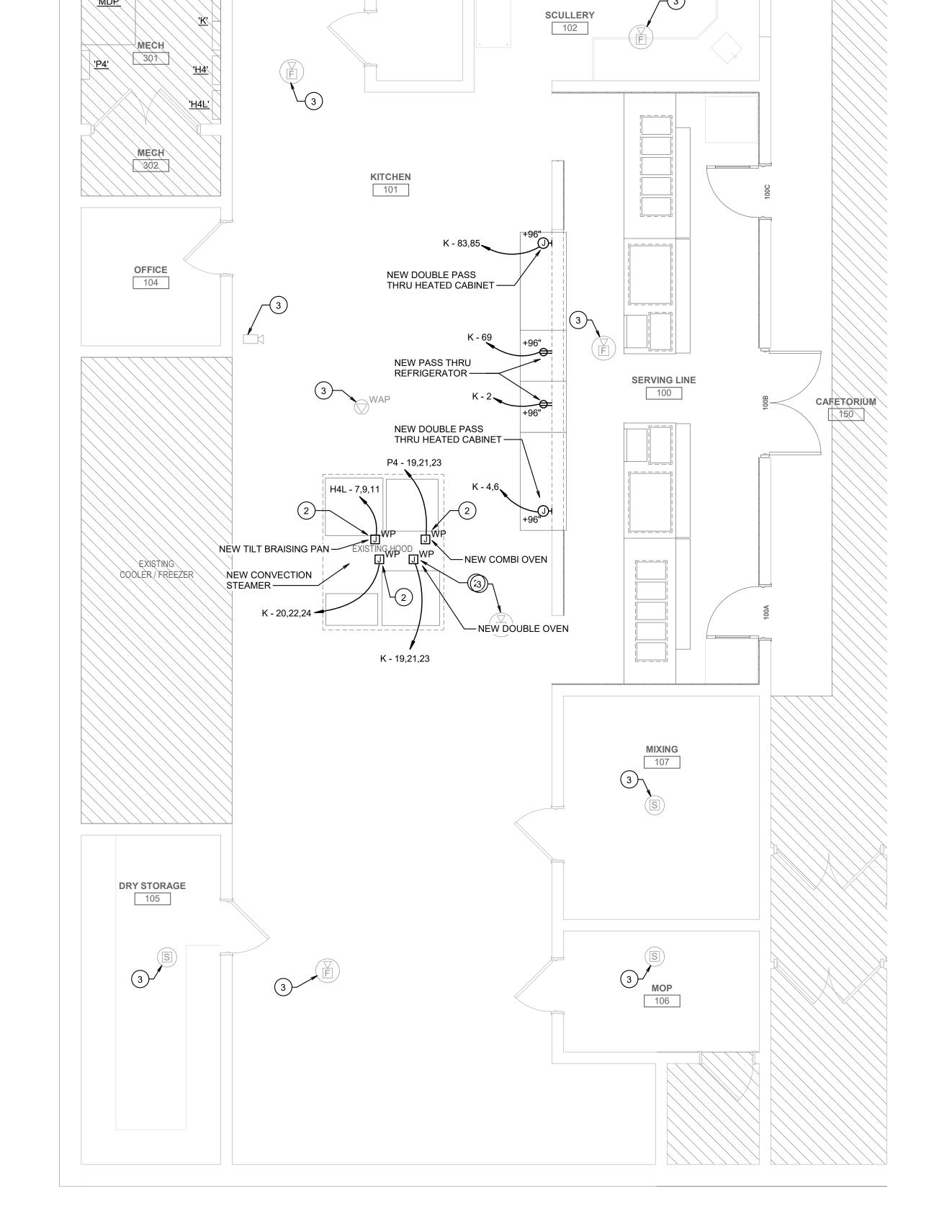
2022-110-00 04.28.2022 **REVISIONS**

PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS FLOOR PLAN - LEVEL 1 -

ELECTRICAL SHEET NO.



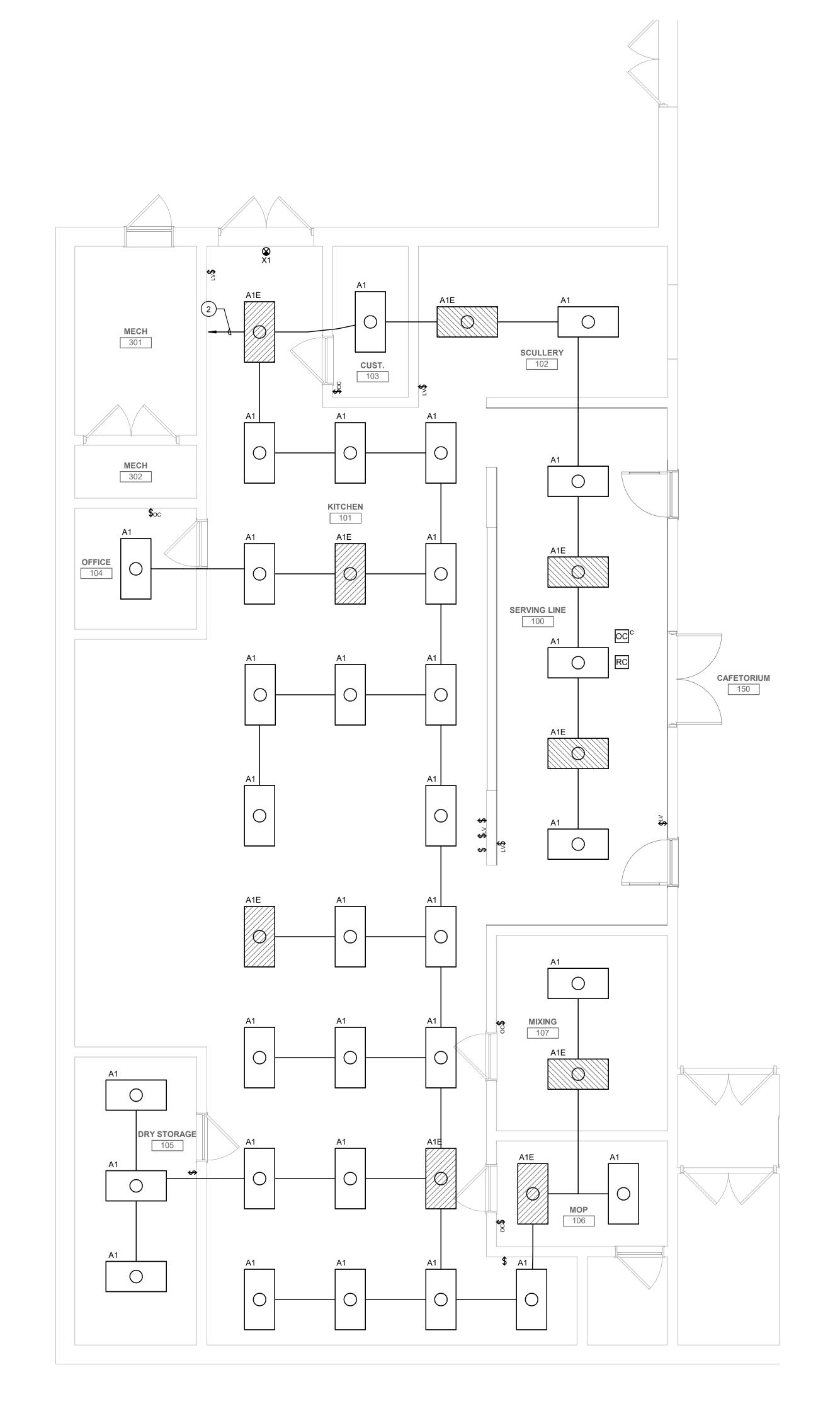




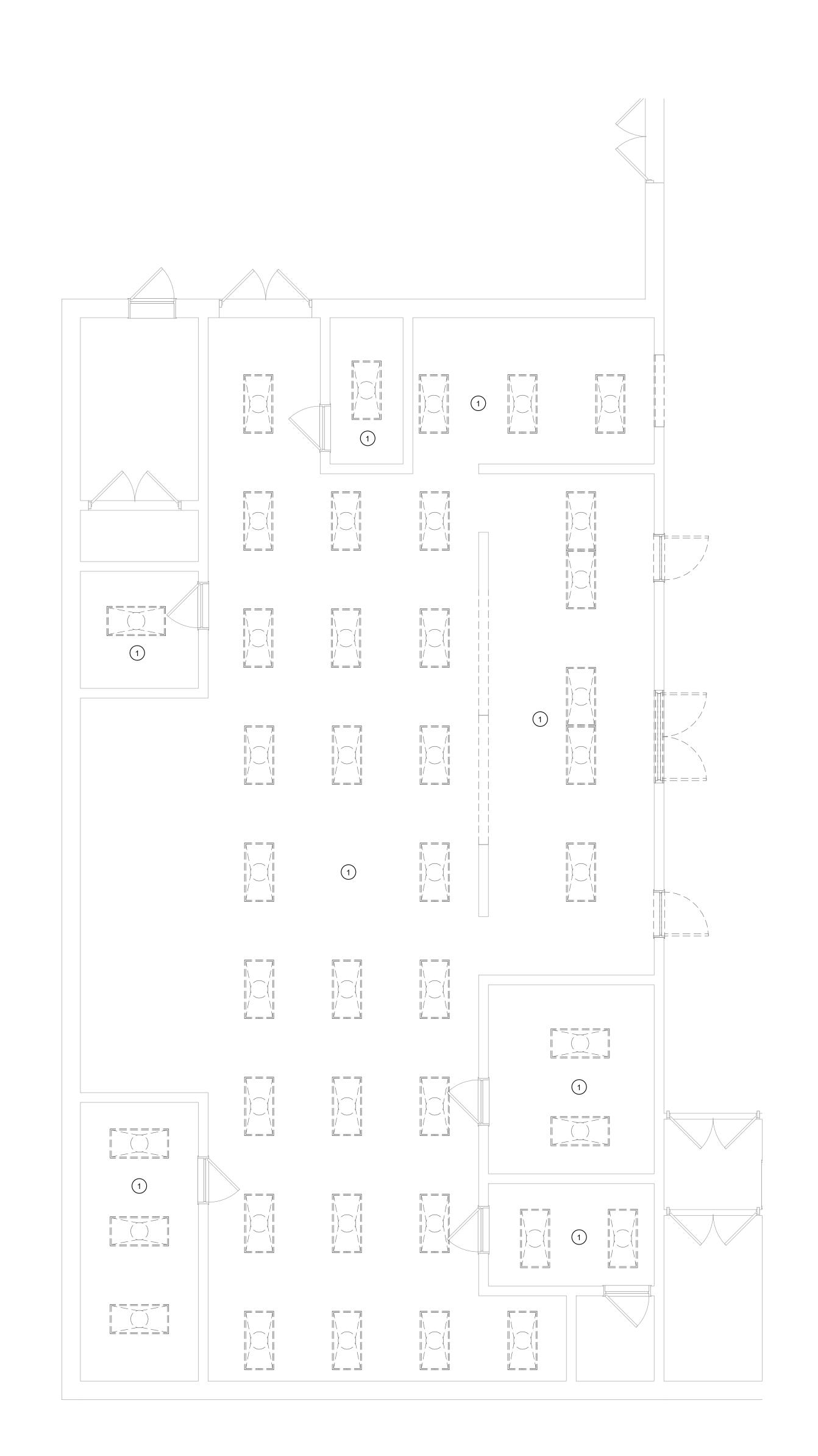


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Suite 1100 (972) 788-4222
Dallas, TX 75243 Project 22034-00

(2) CONNECT NEW LIGHTING FIXTURES INDICATED FOR THIS ROOM TO THE EXISTING 120V LIGHTING BRANCH CIRCUIT SERVING THIS AREA, MADE AVAILABLE BY DEMOLITION OF EXISTING LIGHTING FIXTURES, WITH 2#12, 1#12G, 3/4"C, MINIMUM. FIELD VERIFY CIRCUIT AVAILABILITY PRIOR TO WORK AND UPDATE EXISTING PANEL SCHEDULE(S) AS REQUIRED PER CODE.









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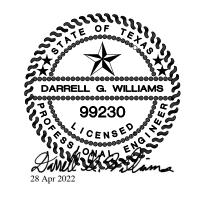
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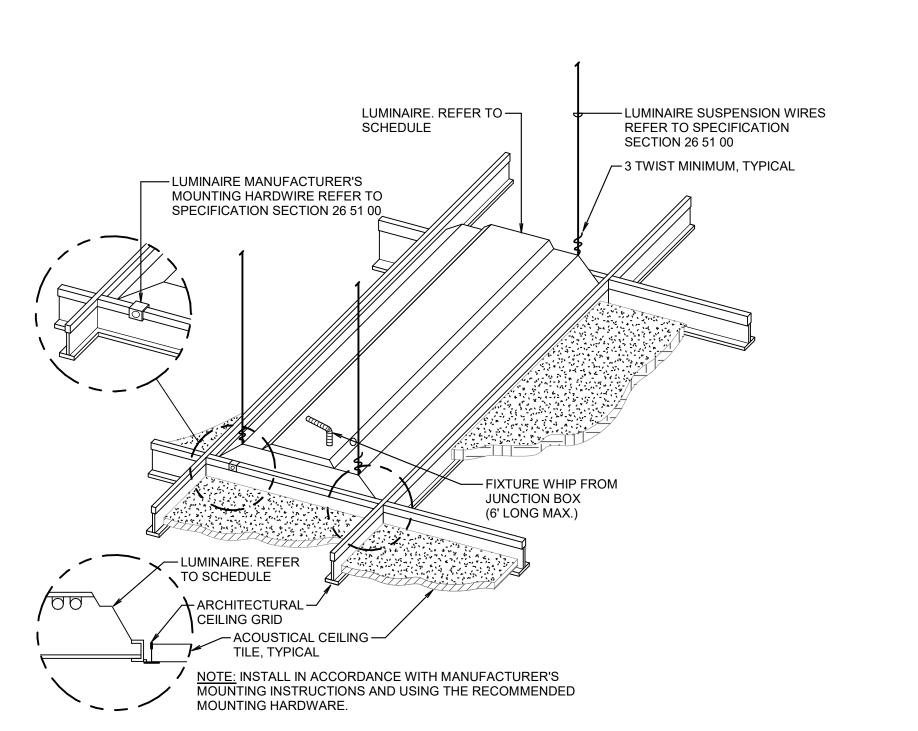
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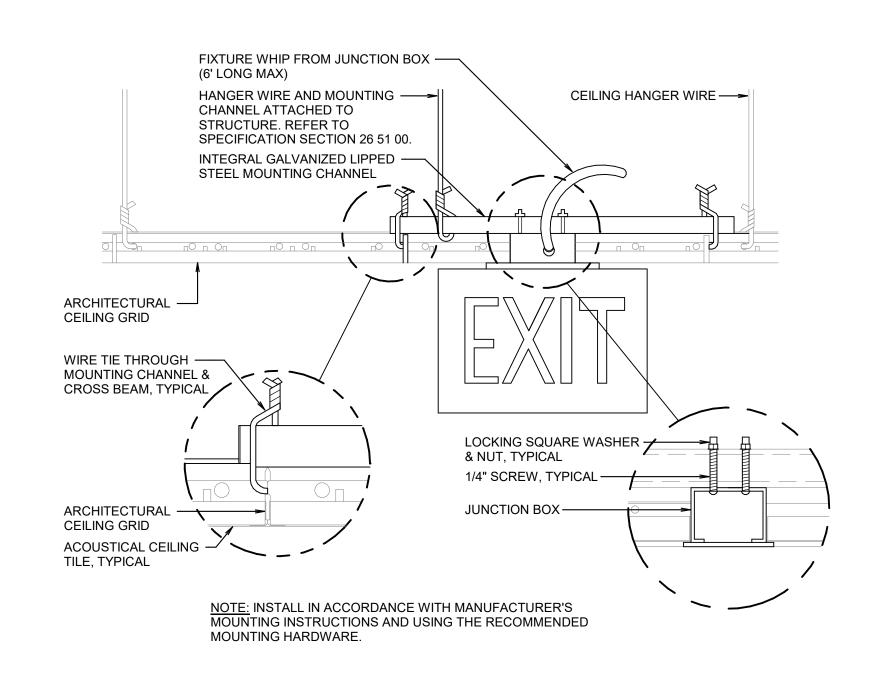
SHEET CONTENTS FLOOR PLAN - LEVEL 1 -LIGHTING

SHEET NO.





LAY-IN CEILING LUMINAIRE MOUNTING DETAIL
NO SCALE



(2) LAY-IN CEILING EXIT SIGN MOUNTING DETAIL NO SCALE

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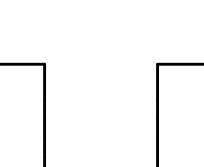
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ED TEXAS

PROJECT PHASE CONSTRUCTION DOCUMENTS

SHEET CONTENTS ELECTRICAL DETAILS

SHEET NO.



A.I.C. Rating: 10,000 A.I.C.

Wire Size Poles BKR Load Name REM CKT

20 NEW PASS THRU.

2 25 NEW DOUBLE ROLL THRU HEATED...

3 40 EXISTING LOAD

1 20 EXISTING LOAD

2 60 EXISTING LOAD

1 20 EXISTING LOAD 1 20 EXISTING LOAD

1 20 EXISTING LOAD

3 20 EXISTING LOAD

3 15 EXISTING LOAD

2 80 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD 1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 20 EXISTING LOAD

1 40 EXISTING LOAD

1 20 EXISTING LOAD 1 20 EXISTING LOAD

1 20 EXISTING LOAD

2 20 EXISTING LOAD

3 60 EXISTING LOAD

Panel Totals

Total Conn. Load: 86,443 VA

Total Est. Demand: 56,482 VA Total Conn. Current: 239.9 A Total Est. Demand Current: 156.8 A

40 CONVECTION STEAMER

Mains Type: MLO

Mains Rating: 600.0 A

Volts: 120/208 Wye

-- 1643

0 0

0 0

5000 0

0 0

0 0

244.6 A

Estimated Demand

55,642 VA

840 VA

Total Load: 28,547 VA 28,547 VA 29,350 VA

237.9 A

237.9 A

Demand Factor

65.00%

100.00%

C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.

10064

8333 2667

8333 2667 3#8,1#10G-EXISTING

CONDUIT

Phases: 3

Sections: 2

Wires: 4

PANEL: H4 Location: MECH 301 Supply From: Mounting: SURFACE

Enclosure: NEMA 1

CKT REM Load Name BKR Poles Wire Size

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

-- EXISTING LOAD

Volts: 480/277 Wye Phases: 3 Wires: 4 Sections: 1

A.I.C. Rating: 14,000 A.I.C. Mains Type: MLO Mains Rating: 100.0 A

Wire Size Poles BKR Load Name REM CK1

3 70 EXISTING LOAD 1 20 EXISTING LOAD

	Total Load:	0 VA	0 VA	0 VA			
	Total Amps:	0.0 A	0.0 A	0.0 A			
Load Classification	Connected Load	Demand Factor	Estima	ted Demand	Panel To	als	
					Total Conn. Load:	0 VA	
					Total Est. Demand:	0 VA	
					Total Conn. Current:	0.0 A	
					Total Est. Demand Current:	0.0 A	

General Notes:

A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION. B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.

C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.

Remarks: 1. PROVIDE GFCI CIRCUIT BREAKER.

PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT. 4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.

5. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY UTILITY LAB CONTROLLER. B. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

		PANE															
				MECH :	301				480/277	' Wye			C. Rating:				
		Supply I						Phases:	3			Ma	ains Type:	MLO			
		Mou	nting:	SURFA	CE			Wires:	4			Mai	ns Rating:	100.0) A		
		Enclo	sure:	NEMA ²	1			Sections:	1								
СКТ	REM	Load Name	BKR	Poles	Wire Size		A		3		C	Wire Size	Poles	BKR	Load Name	REM	С
1		SPACE		1									1		SPACE		+
3		SPACE		1									1		SPACE		
5		SPACE		1									1		SPACE		
7		NEW TILT BRAISING			3#10,1#10G-EXISTIN	4000	0										
9	2,5	PAN	30	3	G CONDUIT			4000	0				3	30	EXISTING LOAD		7
11					OOMDON					4000	0						•
13		SPACE		1									1		SPACE		
15		SPACE		1									1		SPACE		
17		SPACE		1									1		SPACE		
19		SPACE		1									1		SPACE		
					Total Load:	4,00	0 VA	4,00	0 VA	4,00	0 VA						
					Total Amps:	14.	4 A	14.	4 A	14.	.4 A						
Load	Classi	fication			Connected Load	Demai	nd Facto	or	Estima	ited Dema	ınd		F	Panel	Totals		
Kitch	en Equi	pment			12,000 VA	100	0.00%		12	2,000 VA							
		•											Total Con	n. Loa	d: 12,000 VA		
												Т	otal Est. [Deman	d: 12,000 VA		
													tal Conn.				
													Demand				
													201114114	<u> </u>			

Pomarke:
C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINA
B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.
A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION.

1. PROVIDE GFCI CIRCUIT BREAKER.

2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS. 3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.

4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.

5. PROVIDE WITH SHUNT TRIP BREAKER. 6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

		PAN	EL:	P4														
		Loc	ation:	MECH 3	301			Volts:	480/277	7 Wye		A.I.C. Rating: 14,000 A.I.C.						
		Supply	From:					Phases:	3			Mains Type: MCB						
		Mou	nting:	SURFA	CE			Wires:	4			Main	s Rating:	400.0	Α			
Enclosure: NEMA 1								Sections:	1			· ·						
CKT	REM	Load Name	BKR	Poles	Wire Size		4	E	3	С	;	Wire Size	Poles	BKR	Load Name	REM	CK1	
1						0	0										2	
3		EXISTING LOAD	20	3				0	0		_		3	20	EXISTING LOAD		4	
5										0	0						6	
7		EXISTING LOAD	20	3		0	0	0	0				3	20	EXISTING LOAD		8 10	
11		EXISTING LOAD	20	3				0	U	0	0		3	20	EXISTING LUAD		12	
13						0	0									+	14	
15		EXISTING LOAD	30	3				0	0				3	30	EXISTING LOAD		16	
17										0	0						18	
19						10388							1		SPACE		20	
21	2,5	NEW COMBI OVEN	50	3	3#6,1#10G-1"C			10388					1		SPACE	-	22	
23										10388			1		SPACE		24	
25		SPACE		1									1		SPACE		26	
27		SPACE		1	 Total Load:	10.20	20 \ / A	10.20		10,38	0 \ / /		1		SPACE		28	
					Total Amps:		10,388 VA 37.5 A		10,388 VA 37.5 A		5 A							
nad (Class	ification			Connected Load	Demai	nd Facto	or	Fetima	ted Demai	nd			Panel T	otals			
		ipment		<u> </u>	31,163 VA		0.00%	,		,163 VA	14		•	unor r				
1110110	90	ipmon.			01,100 171		0.0070			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Т	Total Con	n. Load	d: 31,163 VA			
															d: 31,163 VA			
													al Conn.					
												Total Est.						
															- 1			
Gener	al Na	tos:																
		<u>tes:</u> E FEED-THROUGH LU(28 EVE	2 ELITLIE	SE EXDVISION													
		E FULL SIZED PHASE,																
		E FULL SIZED PHASE, NTRACTOR SHALL UP				MREDS (JVI EIVIV	I DANEI G	CHEDI	II E TA DEI		NAL BUILDING CONT	DITIONS					
. 171	= COI	NI NACIOR SHALL UP	DAIE	YOOM IN	AIVIES AIND ROOM NO	INIDEK9 (אוון אוכ	LPAINELS	סטובטנ	LE IUREI	-LEGI FII	NAL BUILDING CON	פאטוווט.					

PANEL: K

Supply From:

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

BOOSTER HEATER

EXISTING LOAD

THRU HEATED...

1. PROVIDE GFCI CIRCUIT BREAKER.

5. PROVIDE WITH SHUNT TRIP BREAKER.

1. PROVIDE GFCI CIRCUIT BREAKER.

5. PROVIDE WITH SHUNT TRIP BREAKER.

3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.

Kitchen Equipment

Receptacle

EXISTING LOAD

NEW DOUBLE ROLL

EXISTING LOAD 50 2

A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION. B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.

3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.

NEW PASS THRU...

NEW 30KW

2,5 | NEW DOUBLE OVEN | 100 | 3

SPACE

Location: MECH 301

Mounting: SURFACE

NEW DISHWASHER | 60 | 3 | REUSE EXISTING

3#2,1#8G-EXISTING

CONDUIT

90 3 3#3,1#8G-1-1/4"C

25 2 2#10,1#1-G-3/4"C.

Connected Load

85,603 VA

840 VA

2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.

6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

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6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

Total Amps:

Enclosure: NEMA 1

LIGHTING FIXTURE SCHEDULE							
Type	Description	Manufacturer	Model	Lamp	Voltage	Wattage	Mounting
	2X4 LED ACRYLIC LENS, DOUBLE GASKETING, 0-10V DIMMING, DOUBLE GASKETING, 5600 LUMENS.	METALUX	24GRFA-LD5-42-A125-UNV-835-CD1-G3-U -INVERTED LENS	LED	MVOLT	45 W	RECESSED
1E	SAME AS TYPE 'A1' EXCEPT WITH EMERGENCY BATTERY PACK	METALUX	24GRFA-LD5-42-A125-UNV-835-CD1-G3-U- EL14W -INVERTED LENS	LED	MVOLT	45 W	RECESSED
1	LED EXIT SIGN, SINGLE FACE, DIE-CAST ALUMINUM HOUSING	SURE-LITES	CX71WHSD	LED	MVOLT	3 W	CEILING/WALL



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REVISIONS

ED TEXAS PROJECT PHASE

PROJECT TEAM

CONSTRUCTION DOCUMENTS SHEET CONTENTS LIGHT FIXTURE &

PANEL SCHEDULES

SHEET NO.