



Texas Department of Public Safety Purchase Order

Purchase Order Number

405-16-P008770

SHOW THIS NUMBER ON ALL
PACKAGES, INVOICES AND
SHIPPING DOCUMENTS.

V
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Vendor Number: 00018144
1742919890000 | CEDA-TEX SVCS INC

500 BRUSHY CREEK RD STE 306
USA
CEDAR PARK, TX 78613-3159

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Texas Department of Public Safety
Administration Division
5805 North Lamar Blvd
Austin, TX 78752-4431
US
Email: eprocurementshipping@dps.texas.gov
Phone: (512) 424-2000

State Sales Tax Exemption Certificate: The undersigned claims an exemption from taxes under Chapter 20, Title 122A, Revised Civil Statutes of Texas, for purchase of tangible personal property described in this numbered order, purchased from contractor and/or shipper listed above, as this property is being secured for the exclusive use of the State of Texas.

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Texas Department of Public Safety
Finance - Accounts Payable - MSC 0130
PO Box 4087
Austin, TX 78773-0130
US
Email: apinvoices@dps.texas.gov
Phone: (512) 424-2060

Solicitation (Bid) No.: 405-16-B001943

Payment Terms: State of Texas Prompt Pay

Shipping Terms:

Delivery Calendar Day(s) A.R.O.: 0

Item # 1
Class-Item 910-75

HQ - Bldg C Annex Vess Demo Office Demo and Construct as per attached IFB.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 38,675.00	JOB	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 38,675.00

<u>LN/FY/Account Code</u> 1/16/16-23021-6247-1001- - -1300- - -	<u>Dollar Amount</u> \$ 38,675.00
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Item # 2

Documents and instructions for this Purchase Order include:

1. Purchase Order 405-16-P008770
2. TXDPS Terms and Conditions incorporated in the IFB Package
3. Statement of Work/Specifications incorporated in the IFB Package
4. Invitation for Bid (IFB) Package - 405-16-B001943
5. Ceda-Tex Services bid response as submitted to TXDPS
6. Ceda-Tex Services to reference PO Number 405-16-P008770 on all documentation
7. Invoices must include: Business name, remittance address, month of services and PO 405-16-P008770

Ceda-Tex Services shall coordinate project with Contract Monitor to complete job within 30 business days from date of award unless approval from Contract Monitor is given to extend the expected date of completion.

Item # 3

U.S. Department of Homeland Security E-Verify System

By entering into this Contract, the Contractor certifies and ensures that it utilizes and will continue to utilize, for the term of this Contract, the U.S. Department of Homeland Security E-Verify system to determine the eligibility of

1. All persons employed to perform duties within Texas, during the term of the Contract; and
2. All persons, including subcontractors, assigned by the Contractor to perform work pursuant to the Contract, within the United States of America.

The Contractor shall provide, upon request of TXDPS an electronic or hardcopy screenshot of the confirmation or tentative non-confirmation screen containing the E-Verify case verification number for attachment to the Form I-9 for the three most recent hires that match the criteria above, by the Contractor, and Contractor subcontractors, as proof that this provision is being followed.

If this certification is falsely made, the Contract may be immediately terminated, at the discretion of the state and at no fault to the state, with no prior notification. The Contractor shall also be responsible for the costs of any re-solicitation that the state must undertake to replace the terminated Contract.

Notice Under Government Code 2261.252

Pursuant to Government Code 2261.252 the Department may not enter into a contract for the purchase of goods or services with a private vendor if members of the Public Safety Commission or certain positions within the agency including the Executive Director, the General Counsel or the Procurement Director or their covered family members have a financial interest in the vendor. Any contract found to violate Government Code 2261.252 is void.

CERTIFICATION CONCERNING RESTRICTED EMPLOYMENT FOR FORMER STATE OFFICERS OR EMPLOYEES UNDER TEXAS
GOVERNMENT CODE 572.069

Respondent certifies that it has not employed and will not employ a former Texas Department of Public Safety (TXDPS) or state officer who participated in a procurement or contract negotiation for TXDPS involving Respondent within two years after the state officer or employee left state agency employment or service. This certification only applies to former state officers or employees whose state service or employment ceased on or after September 1, 2015. Any contract found to violate Government Code 572.069 is void.

Workers Compensation

Texas law does not require workers' compensation insurance and there are other options for businesses to demonstrate responsibility in protecting the bidder's covered workers from work-related injuries or illnesses. Bidders should include a statement of the specific methods it uses to so protect its covered workers. <http://www.tdi.texas.gov/consumer/wc.html>.

Installation location requires controlled access. Contractors and sub contractors will be required to submit to a Criminal History Background Check. Vendors will be required to meet the terms and conditions in section Criminal History Background Checks in the attached Texas Department of Public Safety Terms and Conditions, dated 10/2014.

Vendor Contact: Fred Odanga

Phone: 512-339-0155

Email: contact@cedatex.com

TXDPS Contact: Jessica Warren

Phone: 512-424-2584

Email: Jessica.Warren@dps.texas.gov

TXDPS Purchaser: Jennifer Feliciano

Phone: 512-424-2096

Email: jennifer.feliciano@dps.texas.gov

TAX:	\$ 0.00
FREIGHT:	\$ 0.00
TOTAL:	\$ 38,675.00

APPROVED

By: Jennifer Feliciano,CTCM, CTPM

Phone#: (512) 424-5255

BUYER



TEXAS DEPARTMENT OF PUBLIC SAFETY
INVITATION FOR BIDS (IFB)
Building Remodel – TXDPS HQ Bldg. C

IF NOT BIDDING
DO NOT RETURN THIS FORM.

BID ISSUE DATE 6/20/2016
BID OPENING DATE 7/5/2016 @ 3:00 pm
CENTRAL TIME
OPEN MARKET BID 405-16-B001943

Destination of Goods or Services
Texas Department of Public Safety
5805 N. Lamar Blvd.
Austin, Texas 78752

By submitting this Bid, the Bidder agrees to comply with the Terms & Conditions of this Bid and certifies that if a Texas address is shown as the address of the Bidder, the Bidder qualifies as a Texas Bidder as defined in 34 TAC Rule 20.32(68).

FORMAL INVITATION FOR BIDS

INSTRUCTIONS FOR SUBMISSION OF BIDS:

Submit Bids to:

Texas Department of Public Safety
(TXDPS) eProcurement System
Bid #405-16-B001943

https://eprocure.dps.texas.gov/bsol/login.jsp

IN THE EVENT BIDDER CANNOT ACCESS THE EPROCUREMENT SYSTEM PLEASE SUBMIT SIGNED BID TO:

SERVICES.BRANCH@DPS.TEXAS.GOV

THIS IFB MAY BE CANCELLED AT ANY TIME

HAND CARRIED AND MAILED BIDS
MAY BE SUBMITTED TO:
5805 N. Lamar Blvd., Bldg. A
Austin, Texas 78752

*****NOTE*****

Bids received after the Bid opening date, will not be accepted.

VENDOR CONTACT INFORMATION

Company Name
Company Remit Payment to Address
City, State, and Zip Code
Printed Name of Representative
E-Mail Address
Phone Number:
Fax Number:

AN IDENTIFICATION NUMBER IS REQUIRED TO PROCESS PAYMENT FOR GOODS/SERVICES PURCHASED AGAINST CONTRACT AWARDS. THE FEDERAL EMPLOYERS IDENTIFICATION NUMBER (EIN) WILL BE USED TO ESTABLISH A PAYEE ID NUMBER:

PLEASE ENTER YOUR FEDERAL EIN: [] [] [] [] [] [] [] [] [] []

Every Bidder SHALL have an EIN prior to receiving payment under an awarded contract. This requirement is necessary to minimize identity theft. For information on obtaining your EIN, you may call the IRS at 800-829-4933 or visit the following web site:

https://www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Employer-ID-Numbers-EINs

CHECK HERE IF YOU ARE A SOLE OWNERSHIP OR PARTNERSHIP: []

PREFERENCES

See Section 2.27 and 2.28 of the State of Texas Procurement Manual regarding preferences.

Check below to claim a preference under 34 TAC Rule 20.38

- Goods produced or offered by a Texas bidder that is owned by a Texas resident service-disabled veteran
Goods produced in Texas or offered by a Texas bidder that is not owned by a Texas resident service-disabled veteran
Agricultural products grown in Texas
Agricultural products offered by a Texas bidder
Services offered by a Texas bidder that is owned by a Texas resident service-disabled veteran
Services offered by a Texas bidder that is not owned by a Texas resident service disabled veteran
Recycled motor oil and lubricants
Foods of Higher Nutritional Value
Texas Vegetation Native to the Region
Products of persons with mental or physical disabilities
Vendors that meet or exceed air quality standards
Products and services from economically depressed or blighted areas
Recycled or Reused Computer Equipment of Other Manufacturers
Products produced at facilities located on formerly contaminated property
USA produced supplies, materials or equipment
Rubberized asphalt paving material
Products made of recycled, remanufactured, or environmentally sensitive materials including recycled steel
Energy Efficient Products

NOTE TO RESPONDENT

When responding to this solicitation Bidder shall respond with all information/documents pertaining to the award of the product and/or services to include: any exceptions to TXDPS's Terms and Conditions (TXDPS excludes any of the Bidder's exceptions to the terms and conditions and any additional terms and conditions provided by the Bidder in its Bid unless expressly agreed otherwise in the award, Statements of Work and/or any agreements. After the Bid opening date no additional document submissions will be allowed unless requested by TXDPS.

Any information/documents/exceptions received after the Bid opening date will not be considered unless requested by TXDPS.

DESCRIPTION AND PRICING**PURCHASE OF THE FOLLOWING:**

The Texas Department of Public Safety (TXDPS) solicits bids for remodeling of an office space on the first floor of Building C on TXDPS Headquarters Campus. This is a re-bid of IFB 405-16-B001901.

If the Bidder does NOT submit through the eProcurement System, the documents included in this IFB shall be returned with the Bid. Please utilize the enclosed checklist to ensure the Bid response is complete.

If the Bidder is submitting through the eProcurement System, page 9 shall be uploaded in the Attachments Tab of eProcurement using the following link: <https://eprocure.dps.texas.gov/bsol/login.jsp>

IN THE EVENT THE BIDDER CANNOT ACCESS THE EPROCUREMENT SYSTEM, PLEASE USE THE PRICING SHEET BELOW WHEN SUBMITTING YOUR BID.

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	Remodeling (Demo and Construct)	1	JOB	\$	\$

June 22, 2016, 1:00 p.m.

Mandatory Site Visit at 5805 North Lamar Blvd. Building C, Austin, TX 78752. Vendors that attended the site visit for Bid 405-16-B001901 are not required to attend this site visit.

June 27, 2016, 3:00 p.m.

Questions due via eProcurement or e-mailed to Services.Branch@dps.texas.gov

June 30, 2016, 5:00 p.m.

Responses to submitted Questions will be posted to eProcurement and/or to the Electronic State Business Daily (ESBD).

Point of Contact:

TXDPS Purchaser:

Jennifer Feliciano

Phone Number:

(512) 424-2096

E-Mail:

Services.Branch@dps.texas.gov

SERVICE PERIOD:

From date of award – 08/31/2016

SERVICE PERIOD WITH OPTIONS

Applicable

Not Applicable

INVITATION FOR BIDS
Texas Department of Public Safety
Continuation Page

TXDPS will use the best value factors listed below in determining the lowest overall cost for this solicitation listed below including but not limited to:

1. the purchase price;
2. installation costs;
3. life cycle costs;
4. the quality and reliability of goods and services;
5. delivery terms;
6. cost of any employee training associated with this particular purchase;
7. the effect of a purchase on agency productivity;
8. past vendor performance;
9. Bidder experience or demonstrated capability; and
10. other factors relevant to determining the best value for the state in the context of this particular purchase

Information obtained from the Texas Comptroller's Office Vendor Performance Tracking System may be used in evaluating bids to determine the best value for the state. Only those bids that are deemed to be in administrative compliance will be evaluated for responsiveness to the state's needs.

INVITATION FOR BIDS
Texas Department of Public Safety
Continuation Page

DESCRIPTION (Continued)

1. CHANGE ORDERS

No verbal changes to these specifications are permitted. Any changes will be by written addendum. Change orders will be allowed only if unforeseen conditions arise or if TXDPS needs to dictate changes. No verbal change orders will be allowed, all change orders will be in writing by a purchase order change notice.

2. IMMIGRATION

The Vendor represents and warrants that it shall comply with the requirements of the Immigration Reform and Control Act of 1986 and 1990 regarding employment verification and retention of verifications forms for any individuals hired on or after November 6, 1986, who will perform any labor or services under the Contract and the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA) enacted on September 30, 1996.

3. OFFER PREPARATION COSTS

TXDPS will not be responsible or liable for any costs incurred by any Bidder in the preparation and submission of its Bid or for other costs incurred by participating in this solicitation process.

4. ORDER OF PRECEDENCE

In the event of conflicts or inconsistencies between this Contract and its exhibits or attachments, such conflicts or inconsistencies will be resolved by reference to the documents in the following order of priority. This Agreement is composed of the following documents:

- 4.01. Purchase Order/Contract, including all amendments/change orders and attachments;
- 4.02. This IFB Including all Amendments;
- 4.03. The Vendor's Bid Response.

5. POSTINGS

It is the Bidder's responsibility to check the Electronic State Business Daily (ESBD) for any additional documents that have been added after the initial posting date. The Bidder's failure to periodically check the ESBD will in no way release the selected Bidder from "addenda or additional information" resulting in additional costs to meet the requirements of the IFB.

6. BACKGROUND CHECK Applicable Not Applicable

Work on this project is being performed in secure State of Texas facilities. All contract work crews are subject to Background checks prior to allowing access to these facilities. This includes all workers associated with the project or their respective sub-contractors.

Documents will be provided to the primary contractor for distribution to their affected personnel or subcontractors (post bid and prior to commencement of the work). Personnel information must be provided upon request from each person working on this site. Fingerprinting may be included as part of that background check and a location shall be identified to the Vendor for compliance. Incomplete forms will be returned and only approved personnel shall be allowed on the site.

INVITATION FOR BIDS
Texas Department of Public Safety
Continuation Page

DESCRIPTION (Continued)

The Vendor, to include all staff working on awarded project shall have thirty (30) calendar days from the date of award to get fingerprints taken, paperwork submitted and personnel approved. In case of background check failure of personnel, the Vendor shall have five (5) business days from announcement of failure to re-submit completed fingerprint and forms to the Project Manager for replacement personnel.

If all background checks have not been completed in the thirty (30) calendar days, the purchase order will be cancelled and will be awarded to next qualified Bidder listed on the bid tabulation. The above procedures and stipulations will apply to any subsequent Bidders that are awarded the project. TXDPS is a Police organization and will make every effort to enforce applicable State of Texas, Federal and International laws. Persons with outstanding warrants shall be subject to immediate arrest. Persons with criminal histories may not be allowed unescorted in secure TXDPS facilities. Nondisclosure statements may also be required when working on or within certain TXDPS locations.

7. BONDS Applicable Not Applicable

Bonds will be required from the successful Bidder before commencing any work as follows:

- 7.01. For a contract in excess of \$100,000.00 a performance bond shall be executed in the amount of the contract conditioned upon the faithful performance of the work in accordance with the plans, specifications, and contract documents. Said bond shall be solely for the protection of the state.
- 7.02. For a contract in excess of \$25,000.00 a payment bond shall be executed in the amount of the contract, solely for the protection of all claimants supplying labor and material.
- 7.03. Any bids submitted shall include the cost of any applicable bond. Costs shall be included in the base bid and shall not be itemized separately.

If a bond is required, the successful Bidder will be notified by mail. The bond must be received by TXDPS within ten calendar days and must reference the IFB number. A purchase order will not be issued until the bond is received and no work shall begin until the Bidder is notified.

8. HISTORICALLY UNDERUTILIZED BUSINESS (HUB) PARTICIPATION

- 8.1 The Respondent shall make a good faith effort to comply with all state Historically Underutilized Business (HUB) requirements pursuant to Texas Government Code, Chapter 2261 and administrative rules, if applicable. The successful Respondent shall also comply with the approved HUB Subcontracting Plan.
- 8.2 The Respondent shall submit a HUB Subcontracting Plan (HSP) as part of its Proposal and shall comply with implementation of the HSP. The successful Respondent shall seek written approval from the Department prior to making any modifications to its HSP.
- 8.3 The Respondent shall submit a detailed description of the HSP and required forms with the Proposal which is included as Attachment H, HUB Subcontracting Plan (HSP). The Respondent's Proposal will be disqualified if the HSP Forms are not completed in full or missing from the Respondent's original Proposal.
- 8.4 The successful Respondent shall provide notice to all subcontractors of their selection as a subcontractor for this Contract. The notice will specify, at a minimum, TXDPS' name, the name of the Contract Administrator, this Contract's assigned contract number, the subcontracting opportunity the subcontractor will perform, the approximate dollar value of the subcontract, and the expected percentage of this Contract's total value that the subcontract represents. A copy of the notice will be provided to the Contract Administrator no later than ten (10) business days after the effective date of this Contract.

INVITATION FOR BIDS
Texas Department of Public Safety
Continuation Page

8.5 The successful Respondent shall submit to the Contract Administrator on a monthly basis (by the 5th day of the following month) the Prime Vendor Progress Assessment Report, which is included as Attachment H, HUB Subcontracting Plan.

9. **INSURANCE** Applicable Bidders may be Required to Present Proof of Insurance.

See Terms and Conditions for all insurance requirements

10. **INSURANCE: PROFESSIONAL LIABILITY** Applicable Not Applicable

If the Vendor is a licensed or certified person who renders professional services, then **Professional Liability** (including Errors and Omissions) including coverage for the rendering of, or failure to render, professional services with minimum limits of \$1,000,000 per occurrence, \$2,000,000 annual aggregate. **NOTE:** If the insurance described above is written on a claims-made form, coverage shall be continuous (by renewal or extended reporting period) for not less than twenty-four (24) months following completion of the contract and acceptance by TXDPS. Coverage, including any renewals, shall have the same retroactive date as the original policy applicable to this Contract.

11. **SERVICE CALL RESPONSE TIME** Applicable Not Applicable

Response time will vary dependent upon the complexity and/or location of the service. After receiving a call for service, the Vendor shall have a technician on-site within the specified time requirements for the following types of service calls:

11.01. **SERVICE CALL DURING REGULAR WORK HOURS (8:00 a.m. to 5:00 p.m.)**: Within N/A hour(s) of notification.

11.02. **SERVICE CALLS OUTSIDE REGULAR HOURS**: Within N/A hour of notification

11.03. **EMERGENCY SERVICE DURING REGULAR WORK HOUR (8:00 a.m. to 5:00 p.m.)**: Response time to emergency call-backs during regular business hours shall be within N/A hours. TXDPS will identify emergency calls at time of notification.

11.04. **EMERGENCY CALLS OUTSIDE REGULAR HOURS**: Within N/A hour(s) of notification.

An emergency call will be identified as any conditions that can potentially impact the health, safety and welfare of TXDPS' employees and the public. TXDPS will identify emergency calls at time of notification.

12. **WARRANTY CALL RESPONSE TIME** Applicable Not Applicable

TXDPS requires the Vendor to respond to any warranty call concerning this project within a 48 hour time period. For any warranty call issued, the Vendor shall have a qualified technician onsite within 72 hours of being notified that a warranty issue exists.

INVITATION FOR BIDS
Texas Department of Public Safety
Continuation Page

DESCRIPTION (Continued)

13. RETAINAGE

Applicable

Not Applicable

TXDPS reserves the right to withhold 10% retainage from final payment until all work is accepted by TXDPS and warranty or equipment operation and maintenance documents are in hand (if applicable). This includes required original Vendor provided installation letters on their letterhead, applicable material manufacturer industry standard warranties, any equipment operation and maintenance manuals, or other project inclusive documentation for the respective trades associated with this project.

14. WAGE RATES

Applicable

Not Applicable

TXDPS is the contracting agency for this state-funded project. The following statute requires any contracting agency to specify the generally prevailing rate of wages in contracts that are bid.

14.01 Gov't Code § 2258. Prevailing wage rates pursuant to the requirements of this statute. TXDPS has ascertained the attached rates located in Exhibit F, are paid to various classifications of workers in the locality of this project.

14.02 The hourly rate for legal holiday and overtime work shall be not less than 1½ times the base hourly rate.

A contractor or subcontractor who violates this section shall pay to the state or a political subdivision of the state on whose behalf the contract is made, \$60 for each worker employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the contract. The Gov't Code § 2258 prevailing wage rate can be viewed at the following: <http://www.statutes.legis.state.tx.us/Docs/GV/htm/GV.2258.htm>

15. UNIFORM GENERAL CONDITIONS FOR CONSTRUCTION PROJECTS:

Applicable

Not Applicable

This Contract will be governed by the Uniform General Conditions (UGC). UGC may be viewed at http://www.tfc.state.tx.us/divisions/facilities/prog/construct/formsindex/07C%20-%20UGC_2010.pdf

DESCRIPTION (Continued)

16. REFERENCES: Applicable Not Applicable

All Bidders shall submit three (3) past or current projects of similar size and complexity within the past five (5) years to include the following information as identified on Attachment C, Verification of Experience Form shall be returned with the Bid.

1. Bidder Name:
2. Company Information
3. Project name, location, and description
4. Start and Completion Dates

17. CORRECTIVE ACTION PLAN: Applicable Not Applicable

If TXDPS discovers issues of unsatisfactory performance as set forth in this Contract, TXDPS shall request a "Corrective Action Plan" from the Vendor. Upon request from the TXDPS Project Manager or his/her designated representative, the Vendor shall deliver a Corrective Action Plan within ten (10) business days that will then be reviewed for acceptance by the TXDPS Contract Administrator. The Corrective Action Plan will address and correct all unsatisfactory performance within thirty (30) days of the implementation. Failure to correct the unsatisfactory performance within the allotted time shall be grounds for termination.

18. U.S. DEPARTMENT OF HOMELAND SECURITY E-VERIFY SYSTEM:

By entering into this Contract, the Vendor certifies and ensures that it utilizes and will continue to utilize, for the term of this Contract, the U.S. Department of Homeland Security E-Verify system to determine the eligibility of

1. All persons employed to perform duties within Texas, during the term of the Contract; and
2. All persons, including subcontractors, assigned by the Vendor to perform work pursuant to the Contract within the United States of America.

The Vendor shall provide, upon request of TXDPS an electronic or hardcopy screenshot of the confirmation or tentative non-confirmation screen containing the E-verify case verification number for attachment to the Form I-9 for the three most recent hires that match the criteria above, by the Vendor, and Vendor subcontractors, as proof that this provision is being followed. If this certification is falsely made, the Contract may be immediately terminated, at the discretion of TXDPS and at no fault to TXDPS, with no prior notification. The Vendor shall also be responsible for the costs of any re-solicitation that TXDPS must undertake to replace the terminated Contract.

19. NOTICE UNDER GOVERNMENT CODE 2261.252

Pursuant to Government Code 2261.252 the Department may not enter into a contract for the purchase of goods or services with a private vendor if members of the Public Safety Commission or certain positions within the agency including the Executive Director, the General Counsel or the Procurement Director or their covered family members have a financial interest in the vendor. Any contract found to violate Government Code 2261.252 is void.

20. DISCLOSURE OF RESTRICTED EMPLOYMENT

Pursuant to Government Code 572.069 the Respondent certifies that it has not employed and will not employ a former TXDPS or state officer who participated in a procurement or contract negotiation for TXDPS involving the Respondent within two (2) years after the state officer or employee left state agency employment or service.

This certification only applies to former state officers or employees whose state service or employment ceased on or after September 1, 2015.

21. NOTICE UNDER GOVERNMENT CODE 2252.908

Pursuant to Government Code 2252.908 the Department may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the Department at the time the business entity submits the signed contract to the Department. The Texas Ethics Commission has adopted rules and procedures under these provisions:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

Any contract found to violate Government Code 2252.908 is void.

22. BIDDER AFFIRMATIONS

22.1 Pursuant to §231.006(d), Texas Family Code, regarding child support, the Bidder certifies that the individual or business entity named in this Bid is not ineligible to receive the specified payment and acknowledges that the contract may be terminated and payment may be withheld if this certification is inaccurate. Furthermore, any Bidder subject to §231.006, Gov't Code, must include names and Social Security numbers of each person with at least 25% ownership of the business entity submitting the Bid. This information must be provided prior to award. Enter the Name & Social Security Numbers for each person below:

Name:	Social Security Number:
Name:	Social Security Number:
Name:	Social Security Number:

22.2. Pursuant to §669.003, Gov't Code, TXDPS may not enter into a contract with a person who employs a current or former executive head of any state agency until four years has passed since that person was the executive head of the state agency. By submitting a Bid, the Bidder certifies that it does not employ any person who was the executive head of any state agency in the past four years. If Bidder does employ a person who was the executive head of a state agency, provide the following information:

Name of Former Executive: _____

Name of State Agency: _____

Date of Separation from State Agency: _____

Position with Bidder: _____

Date of Employment with Bidder: _____

**TEXAS DEPARTMENT OF PUBLIC SAFETY
STANDARD TERMS AND CONDITIONS**

ATTACHMENTS

List of Attachments	Description
Attachment A	Checklist
Attachment B	Scope of Work
Attachment C	Verifications
Attachment D	Drawings

ATTACHMENT A

CHECKLIST

Checklist

A complete Bid response will consist of the items identified below.

Bidder shall complete this Checklist to confirm the items in its Bid. Place a check next to each item that Bidder is submitting to TXDPS. This Checklist shall be returned with the Bid response.

Document Name/Description

- Checklist

- If NOT submitting through eProcurement System, documents included in this IFB shall be returned with the Bid. Please utilize the Checklist to ensure the Bid is complete (Page 1 of IFB must be signed).

- If submitting through eProcurement System, Bidder Affirmations, Section 21.1 and 21.2, shall be uploaded to the Attachments Tab of eProcurement using the following link:
<https://eprocure.dps.texas.gov/bsol/login.jsp>

- If not submitting through eProcurement System, Bidder Affirmations, Sections 21.1 and 21.2 of this IFB shall be completed and returned with the Bid. -DO NOT LEAVE THESE QUESTIONS BLANK or use N/A. If these sections are not applicable to your company, use the following language:
 - a) Paragraph 21.1 "No owners with at least 25%"
 - b) Paragraph 21.2 "Do not employ a former executive head of any agency")

- Verifications (Attachment C)

- Attended Mandatory Site Visit (Vendors that attended the site visit for Bid 405-16-B001901 are not required to attend again)

- Proof of Insurance (Awarded Vendor only)

ATTACHMENT B

SCOPE OF WORK AND SPECIFICATIONS



Headquarters Campus – TEXAS DEPARTMENT OF PUBLIC SAFETY
Building C: Victim and Employee Services

The Texas Department of Public Safety (TXDPS) is requesting Bid Solicitations for remodeling of an office space on the first floor of Building C on TXDPS Headquarters Campus. See the attached scope of work and plans for more information.

Project Location:

TXDPS Headquarters Campus
Building C, VESS, first floor
5085 North Lamar Blvd.
Austin, Texas 78752

NOTE: Building contacts will be identified to the bidders for the respective locations for site visits and future access. Access times for each phase of construction must be scheduled ahead of actual work.

Table of Contents - Specification Sections

Section 01 11 00	Construction Summary of Work
Section 01 40 00	Quality Assurance Requirements
Section 01 73 00	Cutting and Patching
Section 01 74 00	Cleaning
Section 02 41 19	Selective Demolition
Section 07 21 00	Building Insulation
Section 08 14 00	Flush Wood Doors
Section 08 71 00	Door Hardware & Schedule
Section 09 22 16	Non-Structural Metal Framing
Section 09 29 00	Gypsum Board
Section 09 51 13	Acoustical Ceiling Grid and Tiles
Section 10 44 00	Fire Extinguishers
Section 12 24 13	Roller Window Shades

Jessica Ruth Warren
#25573

NOT FOR REGULATORY
APPROVAL, PERMITTING
OR CONSTRUCTION.



SECTION 01 11 00 – CONSTRUCTION SUMMARY OF WORK

PART 1 – GENERAL

SECTION 1.0 GENERAL

1.01 SCOPE OF WORK

This section outlines the scope of work included to demolish some existing walls to remodel the first floor VESS area as indicated on the floor plan attachment. Refer to the appropriate specification section for further information about installation and preparation methods and components to be provided. The contractor is responsible for including all means and methods necessary to complete this portion of the project. In general, the work includes, but is not limited to the following items:

1. See Contract Drawings for complete understanding of demolition and construction scope. This list is generic in nature for major items and intended only to give an overview of general project scope.
2. See Demolition sheets as required. There is an asbestos contractor that will be remediating asbestos. This is a phased process that will require coordination with the asbestos contractor. This contract will be responsible for all other demolition as indicated on the project drawings.
3. The electrical will be completed by TXDPS staff electricians. Coordinate for Demolition and Construction.
4. Demolish existing walls, door frames, kitchen cabinets, and ceiling grid as indicated on attached demo plan. See phasing requirements.
5. Frame new walls as indicated on attached floor plan and specification sections.
6. Install door frames, doors, and hardware as indicated on the attached floor plan. Doors, door frames and hardware to match existing in immediate area/ TXDPS standard Office Lockset and core – see specifications. Verify with TXDPS on how the doors should be keyed.
7. Install acoustic attenuating gypsum board on all new walls indicated on plan – see attached specification.
8. Provide insulation in all walls indicated on floor plan and as per specifications.
9. Provide and install solid surface window sills at all window locations – see details.
10. Provide and install new window roller shades for all windows indicated on plan and in specifications.
11. Install new ceiling grid and new ceiling tiles as indicated on attached floor plan.
12. Clean area daily and at completion of project for a ready to use condition.
13. Provide 2 fire extinguishers and blocking in walls to install in locations directed by TXDPS.
14. Contractor is required to provide a turnkey final product. If there are any missing items not included in this scope of work, contractor is to notify TXDPS in writing of any issues.

1.02 ADDITIONAL SCOPE ADDED

- 1 Demolish and cap the following per plumbing standards/ requirements: janitor's sink, kitchen sink, and floor drain as indicated on attached demo plan. See phasing requirements.
- 2 Patch holes in concrete floor where plumbing pipes have penetrated/ floor drain, in order to be ready to receive finishes.
- 3 Disconnect the water heater located in existing janitor's closet and cap pipes. Move to designated location in basement of Building C Annex, directed by TXDPS. TXDPS plumbing staff will be responsible for all new piping and reconnections for full functionality.
4. See attached specification for roller window shades.

1.03 QUALITY CONTROL

1. Contractor is responsible for properly disposing of all debris including trash, or construction debris associated with this project. Removal shall not utilize TXDPS dumpster or equipment unless authorized by TXDPS Building Manager.



2. TXDPS will identify an exterior staging area/ entry for use by the contractor. This temporary storage must be maintained in a neat orderly manner and restored to original condition upon completion.
3. Any container used as part of this contract is subject to inspection upon being located on TXDPS property.
4. Contractor shall efficiently schedule all work to ensure work will be done in as few calendar days as possible for optimum installation to meet the manufacturer's warranty requirements. All work shall be continuous to ensure the facility impact is minimal with limited disruptions. Every effort shall be made to
5. eliminate down time and get the TXDPS operations back in service as quickly and safely as possible. The exact dates will be coordinated once the bid award is made.
6. All work will be performed by qualified craft persons with a minimum of (3) three years of experience in the field. It shall be the contractor's responsibility to provide only skilled qualified workers for this project.
7. The new work shall comply with the state and local ordinances.
8. Attached demo and floor plans include other trades work for reference of work that will be coordinated in the space.

1.04 PERFORMANCE REQUIREMENTS

1. All work shall be considered new unless otherwise indicated.
2. The Contractor shall check and verify all dimensions, notes, conditions in the installation area on site before any construction work is started. All discrepancies shall be reported to TXDPS in writing. No extra charge of compensation will be allowed on account of any difference between actual measurements and measurements or dimensions supplied by TXDPS, either verbally or in written form.
3. The Contractor shall assume full responsibility for the accuracy, fit and stability of all parts of the work.
4. All labor, materials and installations must comply with the codes, rules and regulations of local, state and federal authorities having jurisdiction. Any discrepancy which exists between the requirements by the plans, specifications, said codes, rules and regulations, shall be immediately brought to the attention of TXDPS Facilities Department, in writing for resolution.
5. The Contractor shall provide all necessary protection of existing work and newly added work.
6. The Contractor shall be responsible for adequately bracing and protecting all work during construction against damage, breakage, collapse, distortion and misalignment according to applicable codes and standards.
7. Working hours will be between 7:00 am and 5:00 pm during the week and during the weekend if necessary. TXDPS needs to be clean and ready for work as soon as work is complete. If additional time is necessary for the specified products, schedule must be coordinated with TXDPS before any work begins.
8. The Contractor shall repair and restore to its original condition all work and items damaged as a result of building operations and shall leave the work completed to the true intent of the drawings and specifications and to the satisfaction of TXDPS.
9. Any disturbance or damage to the existing building, site or utilities resulting from either directly or indirectly from the building operations shall be promptly repaired, restored or replaced to the satisfaction of TXDPS at no additional cost to TXDPS.
10. All materials and construction to be incorporated in the work shall be in strict accordance with the latest editions of IBC and shall conform to the standards and recommendations of the various trade institutes where applicable.

1.05 SUBMITTALS

1. Provide:
 - a. Manufacturer's technical data.
 - b. Application or installation instructions.
2. Provide schedule of installation as part of this requirement.
3. Provide samples and manufacturer's literature for all products used on this project.



4. Provide certificates signed by the manufacturer certifying that installers comply with specified requirements.
5. All bidders shall submit information of not less than three (3) projects of similar size and complexity to include:
 - a. Project name and location.
 - b. Products installed.
 - c. Date of completion.
 - d. Owner's contact name and telephone number.
6. Provide maintenance data for O&M (Operations and Maintenance) Manuals.
7. Provide warranty information to be turned over to the Owner at Substantial Completion.

1.06 SCHEDULING

1. All field work installations at the listed location shall be scheduled to facilitate continued facility usage as required by the TXDPS.
2. Prior approval must be received from local TXDPS staff if scheduled project tasks may impact regular TXDPS facility operational schedule.

1.07 SPECIAL CONSIDERATIONS

1. Even if it is not anticipated, the contractor may be required to shut down operations during the project for an unforeseen State of Texas emergency. In this event, the contractor will be required to finish any open work, secure the site staging area, and evacuate his/her personnel as safely but as quickly as possible from the property. Notification to return to work will be issued as soon as possible from authorized TXDPS personnel.
2. Any propane tanks, gas cylinders or other flammable/hazardous materials must be secured and stored in a safe industry acceptable manner when in use or when they are being stored for future use at this or any TXDPS facility. Storage locations and quantities are to be identified to the affected Building Manager for the duration of the contract.
3. Contractor vehicles used for transport of personnel or materials shall be locked with the emergency brake set and the ignition key removed when left unattended. Parking or storage must be located only in approved areas determined by the local building manager. The Department of Public Safety shall not be responsible for damage by others to contractor personal vehicles left on the project site. Any vehicle or equipment without an ignition key starter shall be rendered inoperable if left overnight. Also, any Vehicle or large equipment with a common industrial type of ignition source shall be rendered inoperable if left overnight. Security and safety of tools or equipment shall be the responsibility of the contractor during work and after regular business hours. Items such as ladders must be removed and secured prohibiting unauthorized access to the facility.
4. The facility shall not be left open by removal of any building component without prior knowledge of the TXDPS Building Manager. All removed openings are to be left secure with new products at the end of each work day or reasonably secured with 3/4" plywood or industry standard plugs. Temporary fillers must be cut to size and screwed securely into the opening in the event new component material need to be altered if the first attempt fails to fit an opening.
5. Contractor will be required to provide operation demonstration to the identified staff for future maintenance needs along with other information on warranty, maintenance manuals or other related details. Warranty information is subject to approval by Department of Public Safety's Legal Section. Counsel may advise as to the warranty details that are not in compliance to state law or must be changed not to violate agency policy.
6. Work will be performed in secure facilities in each Region. Contract work crews are subject to Background checks prior to allowing access to these facilities. This includes all workers associated with the contractor or their respective sub- contractors.



7. Documents will be provided to the primary contractor for distribution to their affected personnel or sub-contractors. The Department of Public Safety a Police organization and will make every effort to enforce applicable State of Texas, Federal and International laws. Persons with outstanding warrants shall be subject to immediate arrest. Persons with criminal histories may not be allowed in secure TXDPS facilities. Nondisclosure statements may be required when working on or within certain TXDPS locations.

1.08 PRECONSTRUCTION CONFERENCE

1. A preconstruction conference will be held with TXDPS Regional Commander, TXDPS Regional Field Manager, TXDPS Contact, Contractor, and involved trades to discuss all aspects of the project. The Contractor's foreman or field representative will attend this conference.
2. TXDPS shall reserve the right to require an alternate superintendent and/or foreman.
3. The preconstruction conference shall not be held until all specified submittals have been received, reviewed and accepted by TXDPS's Contact.
4. Delivery of materials and commencement of construction shall not proceed until the preconstruction conference is held. Delays in obtaining a complete set of submittals shall not extend the contracted completion date.

1.09 EMERGENCY RESPONSE

1. The Contractor shall provide TXDPS with after-hours (24 hour) emergency telephone numbers of the Contractor's superintendent and foreman.
2. The Contractor must respond to emergency situations or calls within two (2) hours.

1.10 DEFINITIONS

1. TXDPS: Texas Department of Public Safety = Owner.
2. Contractor/Contractor: Primary party responsible for coordination of their own employees or their respective sub-contractor groups to complete the contract project to meet these specifications.
3. Installer/Applicator/Erector: Entity engaged by Construction Manager as an employee, Subcontractor, or Sub- subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
4. TXDPS Contact: Owners primary representative for this project having authority to communicate project details and accept or deny final installation completion.
5. TDLR-TAS: Texas Department of Licensing and Regulation – Texas Accessibility Standards.

1.11 WARRANTY

1. Installer shall furnish a single, written warranty covering 100% of the new material and labor costs protecting the owner, for a period of one (1) years from date of Substantial Completion.
2. In the event of component damage from the use of incompatible materials, or during installation any accident, mishandling, improper transportation methods or negligence on part of the Contractor or Sub-Contractor forces, the Primary Contractor shall be responsible for replacement at no cost the TXDPS.
3. Refer to specific sections of the specification for systems and product warranty requirements. Verify with Manufacturer of proposed systems and products that specified warranty requirements are acceptable, without exception, prior to selecting materials for use on this project.
4. Submit a full Contractor's Guarantee of the Work to be free from defect in materials and workmanship upon Substantial Completion, and prior to final payment. This Guarantee shall be for a period of one (1) years from the date of Substantial Completion, and shall be signed by a Principal of the Contractor's firm, and sealed if a corporation.
5. If requested by TXDPS Contact, submit a letter from the manufacturer acknowledging that completed Work is acceptable and that warranty remains in effect.



1.12 FINAL INSPECTION AND PAYMENT

1. Inspections: TXDPS will conduct inspections of the project to verify work is in general compliance with the project intent, Contract Documents, and specifications prior to issuing payments to the Contractor. Inspections will be done by TXDPS Contact or designated representative and may be conducted at any time, prior to payments and at a minimum prior to final payments to the Contractor.
2. Final Inspection: The Contractor and the TXDPS Contact or designated representative shall provide a comprehensive final inspection after completion of the project. All application errors shall be addressed and final punch list items completed prior to rendering any final payments.

1.13 PRE-JOB DAMAGE SURVEY OF FACILITY

1. Perform a thorough pre-job survey of property and all affected and adjacent areas of the building with TXDPS prior to starting the work in order to document existing damage. Damaged items identified during the survey will not be the responsibility of Contractor unless further damaged by the Contractor during execution of the project.
2. Documentation recorded during this meeting (pictures and videos) will be sent to TXDPS in order to review at the end of the project. It is the responsibility of the contractor to provide this documentation.

END OF SECTION 01 11 00 – CONSTRUCTION SUMMARY OF WORK



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SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Requirements for Contractor to provide quality-assurance and -control services required by TXDPS Contract Monitor or authorities having jurisdiction are not limited by provisions of this Section.
- C. See specific specification sections for testing and inspection requirements.

1.2 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements.
- C. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.
- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
- I. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.3 CONFLICTING REQUIREMENTS

- A. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to TXDPS Contract Monitor for a decision before proceeding.
- B. The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to TXDPS Contract Monitor for a decision before proceeding.



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1.4 SUBMITTALS

- A. If required and for TXDPS's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.5 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this Article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- C. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or products that are similar to those indicated for this Project in material, design, and extent.
- F. Specialists: Certain sections of the Specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirement for specialists shall not supersede building codes and regulations governing the Work.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 548; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

1.6 QUALITY CONTROL

- A. Inspections are Contractor's responsibility. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 - 1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by TXDPS, unless agreed to in writing by TXDPS.
 - 2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.



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3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing to the TXDPS Contract Monitor.
- C. Retesting/Re-inspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and re-inspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- D. Testing Agency Responsibilities: Cooperate with TXDPS Contract Monitor and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify TXDPS Contract Monitor and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- E. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
- F. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

PART 2 – PRODUCTS - Not applicable.

PART 3 – EXECUTION

3.1 REPAIR AND PROTECTION

- A. On completion of testing, inspecting, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
 2. Comply with the Contract Document requirements for Specification 01730_CUTTING AND PATCHING.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION



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SECTION 01 73 00 - CUTTING AND PATCHING

PART 1 – GENERAL

1.1 SUMMARY

- A. Provisions as established in the General Requirements of the Scope of Work.

1.2 SUBMITTALS

- A. Submit written request in advance of cutting or alteration which affects:
 - 1. Structural integrity of any element of the Project.
 - 2. Integrity of weather-exposed or moisture-resistant element.
 - 3. Efficiency, maintenance, or safety of any operational element.
 - 4. Visual qualities of sight-exposed elements.
 - 5. Work of Owner or separate contractor.
- B. Include in request:
 - 1. Identification of Project.
 - 2. Location and description of affected work.
 - 3. Necessity for cutting or alteration.
 - 4. Description of proposed work, and products to be used.
 - 5. Alternatives to cutting and patching.
 - 6. Effect on work of Owner or separate contractor.
 - 7. Written permission of affected separate contractor.
 - 8. Date and time work will be executed.

1.3 PAYMENT FOR COSTS

- A. Costs resulting from ill-timed or defective work, or work not conforming to Contract Documents, including costs for additional services of other consultants shall be borne by the party responsible for ill-timed, rejected or non-conforming Work.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Products: Those required for original installation.

PART 3 – EXECUTION

3.1 GENERAL

- A. Execute cutting, fitting, and patching including excavation and fill, to complete the Work, and to:
 - 1. Fit the several parts together, to integrate with other work.
 - 2. Uncover work to install ill-timed work.
 - 3. Remove and replace defective and non-conforming work.
 - 4. Remove samples of installed work for testing.
 - 5. Provide openings in elements of Work for penetrations of mechanical and electrical work.

3.2 INSPECTION

- A. Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
- B. After uncovering, inspect conditions affecting performance of work.
- C. Beginning of cutting or patching means acceptance of existing conditions.



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3.3 PREPARATION

- A. Provide temporary supports to assure structural integrity of surroundings; devices and methods to protect other portions of the Project from damage.
- B. Provide protection from elements for areas which may be exposed by uncovering work; maintain excavations free of water.

3.4 CUTTING AND PATCHING

- A. Execute cutting, fitting, and patching (including excavation and fill) to complete work.
- B. Fit products together, to integrate with other work.
- C. Uncover work to install ill-timed work.
- D. Remove and replace defective or non-forming work.
- E. Remove samples of installed work for testing when requested.
- F. Provide openings in the work for penetration of mechanical and electrical work.

3.5 PERFORMANCE

- A. Execute work by methods to avoid damage to other work, and which will provide proper surfaces to receive patching and finishing.
- B. Employ original installer to perform cutting and patching for weather-exposed and moisture-resistant elements and sight-exposed surfaces.
- C. Cut rigid materials using masonry saw or core drill. Pneumatic tools are not allowed without prior approval.
- D. Restore work with new products in accordance with requirements of the Contract Documents.
- E. Fit work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- F. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for an assembly, refinish entire unit.

END OF SECTION



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SECTION 01 74 00 - CLEANING

PART 1 – GENERAL

1.1 SUMMARY

- A. Provisions as established in the General Requirements of the Scope of Work.
- B. Section Includes:
 - 1. Cleaning during construction.
 - 2. Final cleaning of project and related site work.

1.2 CLEANING DURING CONSTRUCTION

- A. Control accumulation of waste materials and rubbish; dispose of off-site daily.
- B. Keep site and construction areas clean on a daily basis.
- C. Maintain areas free of dust and other contaminants during finishing operations.

1.3 FINAL CLEANING

- A. Execute cleaning prior to inspection for Substantial Completion of the Work.

PART 2 – PRODUCTS

2.1 CLEANING MATERIALS

- A. Use materials which will not create hazards to health or property, and which will not damage surfaces.
- B. Use only materials and methods recommended by manufacturer of material being cleaned.

PART 3 – EXECUTION

3.1 CLEANING

- A. In addition to removal of debris and cleaning specified in other sections, clean exposed-to-view surfaces.
- B. Remove waste, foreign matter, and debris from access ways.
- C. Maintain cleaning until Final Completion.
- D. Final Cleaning: In addition to cleaning during construction, prior to Substantial Completion provide the following:
 - 1. Remove temporary protection and labels not required to remain.
 - 2. Remove waste, debris, and surplus materials from site daily. Clean grounds; remove stains, spills, and foreign substances from paved areas and sweep clean. Rake clean other exterior surfaces.

END OF SECTION



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SECTION 02 41 19 - SELECTIVE STRUCTURE DEMOLITION

PART 1 GENERAL 1.1

SUMMARY

- A. Section Includes:
 - 1. Demolishing designated building equipment and fixtures.
 - 2. Demolishing designated construction.
 - 3. Cutting and alterations for completion of the Work.
 - 4. Removing designated items for reuse and TXDPS's retention.
 - 5. Protecting items designated to remain.
 - 6. Removing demolished materials.

1.2 SUBMITTALS

- A. Requirements for submittals. As specified.
- B. Demolition Schedule: Indicate overall schedule and interruptions required for utility and building services.

1.3 CLOSEOUT SUBMITTALS

- A. Requirements for submittals. As specified.
- B. Project Record Documents: Accurately record actual locations of capped utilities, concealed utilities discovered during demolition, and subsurface obstructions.
- C. Operation and Maintenance Data: Submit description of system, inspection data, and parts lists.

1.4 QUALITY ASSURANCE

- A. Conform to applicable code for demolition work, dust control, products requiring electrical disconnection and re-connection.
- B. Conform to applicable code for procedures when hazardous or contaminated materials are discovered.
- C. Obtain required permits from authorities having jurisdiction.

1.5 PRE-INSTALLATION MEETINGS

- A. Project Meetings: Pre-installation meeting. As specified.
- B. Convene minimum one week prior to commencing work of this section.

1.6 SEQUENCING

- A. Summary of Work: Requirements for sequencing. As specified.
- B. Sequence activities in the following order and stages.
 - 1. Coordinate with the Owner and Architect order of work.

1.7 SCHEDULING

- A. Schedule Work to coincide with hazardous materials and other trades on site.
 - B. Cooperate with Owner in scheduling noisy operations and waste removal that may impact Owners operation and in adjoining spaces.
 - C. Coordinate utility and building service interruptions with Owner.
 - 1. Do not disable or disrupt building fire or life safety systems without seven days prior written notice to Owner.
 - 2. Schedule tie-ins to existing systems to minimize disruption.

1.8 PROJECT CONDITIONS

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Cease operations immediately if structure appears to be in danger and notify Architect/Engineer. Do not resume operations until directed.
- C. Notify Architect upon discovery of unknown hazardous materials.
- D. Refer to Asbestos and Lead Abatement Specifications for known hazardous materials.

PART 2 PRODUCTS

Not Used.



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PART 3 EXECUTION 3.1

PREPARATION

- A. Notify affected utility companies before starting work and comply with their requirements.
- B. Mark location and termination of utilities.
- C. Erect, and maintain temporary barriers and security devices, including warning signs and lights, and similar measures, for protection of the public, Owner, and existing improvements indicated to remain.
- D. Erect and maintain weatherproof closures for exterior openings.
- E. Erect and maintain temporary partitions to prevent spread of dust, odors, and noise to permit continued Owner occupancy.
- F. Prevent movement of structure; provide temporary bracing and shoring required to ensure safety of existing structure.
- G. Provide appropriate temporary signage including signage for exit or building egress.
- H. Do not close or obstruct building egress path. 3.2

SALVAGE REQUIREMENTS

- A. Coordinate with Owner to identify building components and equipment required to be removed and delivered to Owner.
- B. Tag components and equipment Owner designates for salvage.
- C. Protect designated salvage items from demolition operations until items can be removed.
- D. Carefully remove building components and equipment indicated to be salvaged.
- E. Disassemble as required to permit removal from building.
- F. Package small and loose parts to avoid loss.
- G. Mark equipment and packaged parts to permit identification and consolidation of components of each salvaged item.
- H. Prepare assembly instructions consistent with disassembled parts. Package assembly instructions in protective envelope and securely attach to each disassembled salvaged item.
- I. Deliver salvaged items to Owner. Obtain signed receipt from Owner. 3.3

DEMOLITION

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Maintain protected egress from and access to adjacent existing buildings at all times.
- C. Do not close or obstruct roadways or sidewalks without permits.
- D. Cease operations immediately when structure appears to be in danger and notify TXDPS.
- E. Disconnect and remove selected utilities within demolition areas.
- F. Cap and identify abandoned utilities at termination points when utility is not completely removed. Annotate Record Drawings indicating location and type of service for capped utilities remaining after demolition.
- G. Demolish in orderly and careful manner. Protect existing improvements, supporting structural members.
- H. Carefully remove building components indicated to be reused.
 - 1. Disassemble components as required to permit removal.
 - 2. Package small and loose parts to avoid loss.
 - 3. Mark components and packaged parts to permit reinstallation.
 - 4. Store components, protected from construction operations, until reinstalled.
- I. Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
- J. Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition. K. Remove temporary Work.

END OF SECTION 02 41 19



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SECTION 07 21 00 - BUILDING INSULATION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Batt thermal insulation at ceiling – see section 2.3.B below.
- B. Sound batt insulation at interior walls as indicated on floor plan – see section 2.3.A below.

1.2 RELATED SECTIONS

- A. Section 05 12 00 – Structural Steel Framing
- B. Section 09 20 60 – Gypsum Board Systems

1.3 REFERENCES

- A. ASTM International Inc. (ASTM):
 1. ASTM C165 - Test Method for Measuring Compressive Properties of Thermal Insulations.
 2. ASTM C411 - Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation.
 3. ASTM C612 - Specification for Mineral Fiber Block and Board Thermal Insulation.
 4. Light Frame Construction and Manufactured Housing; 2001.
 5. ASTM C764 - Specification for Mineral Fiber Loose-Fill Thermal Insulation.
 6. ASTM C1015 - Practice for Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation.
 7. ASTM C1104 - Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation.
 8. ASTM C1304 - Standard Test Method for Assessing the Odor Emission of Thermal Insulation Materials.
 9. ASTM C1320 - Standard Practice for Installation of Mineral Fiber Batt and Blanket Thermal Insulation.
 10. ASTM C1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings.
 11. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2001.
 12. ASTM E96 - Test Methods for Water Vapor Transmission of Materials.
 13. ASTM E119, - Test Methods for Fire Tests of Building Construction and Materials.
 14. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C; 1999.
 15. ASTM E970 - Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source.

1.4 SUBMITTALS

- A. Submit under provisions of Division 1.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Test data showing compliance of products with specified requirements.
 2. Preparation instructions and recommendations.
 3. Storage and handling requirements and recommendations.
 4. Installation methods.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of building insulation through one source.
- B. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
 1. Surface-Burning Characteristics: ASTM E84.
 2. Fire-Resistance Ratings: ASTM E119.
 3. Combustion Characteristics: ASTM E136.



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1.6 DELIVERY, STORAGE AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Johns-Manville International, Inc. (JM), PO Box 5108, Denver, CO 80217. ASD. Tel: (800) 654-3103. Fax: (303) 978-2318. www.jm.com.
- B. Or approved Equal.

2.1 INSULATING MATERIALS - GENERAL

- A. General: Provide insulating materials that comply with requirements and with referenced standards.
 - 1. Preformed Units: Sizes to fit applications indicated; selected from manufacturer's standard thicknesses, widths, and lengths.

2.2 FORMALDEHYDE-FREE INSULATING MATERIALS

- A. Formaldehyde-Free Unfaced Glass-Fiber Batt Thermal and Acoustic Insulation: Equal to JM Formaldehyde-Free Fiber Glass Sound Control Insulation; ASTM C665, Type I; with maximum flame-spread and smoke-developed indices of 25 and 50, respectively; and of the following properties:
 - 1. Thermal Resistance (R-Value): 13.
 - 2. Combustion Characteristics: Passes ASTM E136.
 - 3. Thickness: R-13 3-5/8 inches.
 - 4. Thickness: Minimum 3-1/2 " thick or as required (to achieve required overall STC rating of 49 only at restroom interior walls is STC rating required).
- B. Formaldehyde-Free FSK-25 Faced Glass-Fiber Batt Insulation: JM Formaldehyde-Free Kraft Faced Batts; ASTM C665, Type III, Class A, Category 1 for FSK (foil-scrim-Kraft)faced, with maximum flame-spread and smoke-development; indices of 25 and 50, respectfully; and of the following properties:
 - 1. Thermal Resistance (R-Value): 19.
 - 2. Thickness: R-19, 6-1/2 inches

2.4 INSULATION ACCESSORIES

- A. Tape: Self-adhesive vapor retarder tape with flame spread index of 25 or less, smoke developed index of 50 or less.
- B. Fasteners: Type recommended by insulation manufacturer for application.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with requirements for Sections in which substrates and related work are specified and other conditions affecting performance.
- B. Verify insulation materials, adjacent materials, and substrates are dry and ready to receive insulation and adhesives.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances harmful to insulations or vapor retarders, including removing projections capable of puncturing vapor retarders or of interfering with insulation attachment.

3.3 INSTALLATION, GENERAL

- A. Comply with insulation manufacturer's written instructions applicable to products and application indicated.
- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice and snow.



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- C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
 - D. Water-Piping Coordination: If water piping is located on the inside of insulated exterior walls, coordinate location of piping placing it on the interior side of the wall with the insulation installed between the exterior side of the wall and the water pipe.
- 3.4 INSTALLATION OF GENERAL BUILDING INSULATION
- A. Seal joints between closed-cell (non-breathing) insulation units by applying adhesive, mastic, or sealant to edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.
 - B. Install glass-fiber blankets in cavities formed by framing members according to the following requirements:
 - 1. Use blanket widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill cavity, provide lengths that will produce a snug fit between ends.
 - 2. Place blankets in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
 - 3. For metal-framed wall cavities where cavity heights exceed 96 inches (2438 mm), support unfaced blankets mechanically and support faced blankets by taping stapling flanges to flanges of metal studs.
 - C. Sound Insulation Installation: Install sound insulation where indicated in sound rated assemblies. Maintain acoustical rating of assembly.
 - D. Schedule
 - 1. Install R-13 un-faced batt insulation in 3-5/8" inch interior metal stud walls.
 - 2. All walls with sound attenuation batts which do not extend to underside of deck above, shall have a sound attenuation blanket extend 48" on both sides of the partition.
- 3.5 PROTECTION
- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.
 - B. Call for inspection by Architect prior to closing walls for review of insulation installation. Correct all items cited by Architect prior to continuing with work of other sections.
 - C. Remove and replace installed insulation that has been damaged or is wet, with new insulation prior to closing wall.

END OF SECTION 07 21 00 - BUILDING INSULATION



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Section 08 14 00 - Flush Wood Doors

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Solid core veneer-faced doors.
 - 2. Factory finishing.

1.3 PREINSTALLATION MEETINGS

- A. Pre-installation Conference: Conduct conference at project location.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of door. Include details of core and edge construction, louvers, and trim for openings. Include factory-finishing specifications.
- C. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; and the following:
 - 1. Dimensions and locations of blocking.
 - 2. Dimensions and locations of cylinder and holes for hardware.
 - 3. Dimensions and locations of cutouts.
 - 4. Undercuts.
 - 5. Requirements for veneer matching.
 - 6. Doors to be factory finished and finish requirements.
- D. Samples for Initial Selection: For factory-finished doors.
- E. Samples for Verification:
 - 1. Factory finishes applied to actual door face materials, approximately 8 by 10 inches (200 by 250 mm), for each material and finish.[For each wood species and transparent finish, provide set of three samples showing typical examples of color and grain to be expected in finished work.]
 - 2. Provide construction samples of doors, approximately 5 by 5 inches (125 by 125 mm), with door faces and vertical edges representing actual construction to be used.
 - 3. Frames for light openings, minimum 6 inches (150 mm) long, for each material, type, and finish required.

1.5 INFORMATIONAL SUBMITTALS

- A. Sample Warranty: For special warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. A qualified manufacturer that is a member in good standing of the Window and Door Manufacturers Association.
- B. Product Performance: Provide documents showing compliance to the following WDMA attributes, validating the specified WDMA Performance Duty Level:
 - 1. Adhesive Bonding Durability: WDMA TM-6



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2. Cycle Slam: WDMA TM-7
 3. Hinge Loading: WDMA TM-8
 4. Screw Holding: WDMA TM-10
 - a. Door Face
 - b. Vertical Door Edge
 - c. Horizontal Door Edge (applies when hardware is attached)
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Comply with requirements of referenced standard and manufacturer's written instructions.
 - B. Package factory-finished doors individually in manufacturer's standard plastic bags, stretch wrap, or cardboard cartons.
 - C. Mark each door on top rail with opening number used on Shop Drawings. Include manufacturer's order number and date of manufacture.
- 1.8 FIELD CONDITIONS
- A. Environmental Limitations: Do not deliver or install doors until spaces are enclosed and weather tight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining temperature between 60 and 90 deg F (16 and 32 deg C) and relative humidity between 25 and 55 percent during remainder of construction period.
- 1.9 WARRANTY
- A. Special Warranty: Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Warping (bow, cup, or twist) more than 1/4 inch (6.4 mm) in a 42-by-84-inch (1067-by-2134-mm) section.
 - b. Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch (0.25 mm in a 76.2-mm) span.
 2. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.
 3. Warranty Period for Solid-Core Interior Doors: Life of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Marshfield DoorSystems, Inc. flush wood doors or a comparable product by one of the following:
 1. Algoma Hardwoods, Inc.
 2. Eggers Industries.
 3. Marshfield DoorSystems
 4. Mohawk Doors
- B. Source Limitations: Obtain flush wood doors from single manufacturer.

2.2 FLUSH WOOD DOORS, GENERAL

- A. Quality Standard: In addition to requirements specified, comply with WDMA I.S.1-A-11, "Architectural Wood Flush Doors."



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- B. Low-Emitting Materials: Fabricate doors with adhesives and composite wood products that do not contain added urea formaldehyde.
 - C. WDMA I.S.1-A Performance Grade:
 - 1. Heavy Duty unless otherwise indicated.
 - 2. Extra Heavy Duty: toilet rooms and janitor's closets.
 - a. All doors must meet specified WDMA Performance Duty Level, including face screw holding requirement. Surface applied hardware shall be installed with screws; through bolts are not acceptable.
 - D. Fire Rated Wood doors: Doors complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire –protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.
 - 1. Temperature Rise Limit: At vertical exist enclosures and exist passageways, provide doors that have a maximum transmitted temperature end point of not more than 250 degree F above ambient after 30 minutes of standard fire protection rating indicated.
 - 2. Cores: Provide core specified or fire-resistant composite core as needed to provide fire protection rating as indicated.
 - 3. Blocking: Provide composite blocking approved for use in doors of fire-protection ratings indicated as needed to maintain WDMA performance level and eliminate through-bolting hardware.
 - 4. Edge Construction: Category A - intumescent included in door construction.
 - 5. Pairs: Provide fire-retardant stiles that are listed and labeled for applications indicated without formed-steel edges and astragals.
 - 6. Pairs: Provide formed-steel edges and astragals with intumescent seals as required.
 - a. Provide steel edges and astragals primed for field painting.
 - b. Provide veneer wrapped steel edges and astragals. Veneer shall be same specie as face.
 - c. Finish steel edges and astragals with baked enamel, color as selected from manufacturer's standard offering.
 - d. Provide stainless steel edges and astragals.
 - E. Acoustic Rated Wood Doors – STC 42
 - 1. Provide core indicated or special construction core as required to meet STC rating indicated on door schedule. All STC ratings must be tested as operable.
 - 2. Provide gasketing and door shoe as required to meet manufacturers tested acoustic rating.
 - 3. Hollow metal frames shall be fully grouted or packed with mineral wool where acoustic rated wood doors are installed.
 - 4. The Sound Transmission Class (STC) specified shall be certified by the manufacturer to be based on tests conducted at an independent testing agency in accordance with ASTM E90-90 and E413-87.
- ### 2.3 VENEER-FACED DOORS FOR TRANSPARENT FINISH
- A. Interior Solid-Core Doors
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Marshfield Door Systems; "Signature Series" or a comparable product by one of the following:
 - a. Algoma Hardwoods.
 - b. Eggers Industries.
 - c. Mohawk Doors



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2. Veneer Grade: AA
3. Species: Select white birch
4. Cut: Rotary cut
5. Match between Veneer Leaves: Book match.
6. Assembly of Veneer Leaves on Door Faces: Running match.
7. Exposed Vertical Edges: Veneer of same species as face, bonded to structural composite lumber, concealing edges for crossband
8. Horizontal Edges: Structural composite lumber. Bond smooth PVC edgeband to structural composite lumber, providing cleanable surface.
9. Core: Wood-based Particleboard
10. Construction: Five plies. Stiles and rails are bonded to core, and then entire unit is abrasive planed before veneering.
11. WDMA I.S.1-A Performance Grade: As specified in Article 2.2.

2.4 FABRICATION

- A. Factory fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of referenced quality standard for fitting unless otherwise indicated.
- B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame Shop Drawings, BHMA-156.115-W, and hardware templates.
 1. Coordinate with hardware in metal frames to verify dimensions and alignment before factory machining.

2.5 SHOP PRIMING

- A. Doors for Transparent Finish: Factory finish door faces and vertical stile edges with stain.

2.6 FACTORY FINISHING

- A. General: Comply with referenced quality standard for factory finishing. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.
 1. Finish faces and vertical edges, seal top and bottom edges as required for warranty purposes.
- B. Factory finish for all new doors in this project are indicated to receive transparent finish.
- C. Transparent Finish:
 1. Grade: Premium.
 2. Finish: Manufacturer's standard UV cured polyurethane, equal to WDMA TR-6 catalyzed polyurethane.
 3. Staining: As selected by TXDPS from manufacturer's full range.
 4. Sheen: Satin.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and installed door frames, with Installer present, before hanging doors.
 1. Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs. Any deficiencies must be corrected prior to door installation.
 2. Reject doors with defects.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.



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3.2 INSTALLATION

- A. Hardware: For installation, see [Section 087100 "Door Hardware."] [Section 087111 "Door Hardware (Descriptive Specification)."]
- B. Installation Instructions: Install doors to comply with manufacturer's written instructions and referenced quality standard.
- C. Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels as indicated below; do not trim stiles and rails in excess of limits set by manufacturer. Machine doors for hardware. Seal edges of doors, edges of cutouts, and mortises after fitting and machining.
 - 1. Clearances: Provide 1/8 inch (3.2 mm) at heads, jambs, and between pairs of doors. Provide 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering unless otherwise indicated. Where threshold is shown or scheduled, provide 1/4 inch (6.4 mm) from bottom of door to top of threshold unless otherwise indicated.
 - 2. Bevel non-fire-rated doors 1/8 inch in 2 inches (3-1/2 degrees) at lock and hinge edges.
 - 3. Trim bottom rail only to extent permitted by labeling agency.
- D. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
- E. Factory-Finished Doors: Do not trim factory finished doors for width.

3.3 ADJUSTING

- A. Operation: Correct any deficiency that prohibits the door from swinging or operating freely. Do not remove hinge screws after initial insertion. Shims used for alignment purposes must be inserted between hinge and frame. Do not insert shims between hinge and door.
- B. To prevent stile failure, insure that door closers are properly adjusted and do not limit the door opening swing. Limit door opening swing only with a properly located stop.
- C. Finished Doors: Replace doors that are damaged or that do not comply with requirements. Doors may be repaired or refinished if Work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION 081416 Flush Wood Doors



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SECTION 08 71 00 Door Hardware

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hardware for hollow metal and wood doors.
- B. Thresholds.
- C. Weatherstripping, seals and door gaskets.

1.2 RELATED SECTIONS

- A. Section 08 21 00 – Wood Doors

1.3 REFERENCES

- A. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 1998.
- B. AWI - Architectural Woodwork Institute
- C. BHMA A156.1 - American National Standard for Butts and Hinges; Builders Hardware Manufacturers Association, Inc.; 2000 (ANSI/BHMA A156.1).
- D. DHI; Door and Hardware Institute; current edition.
- E. NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association; 1999.
- F. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures; National Fire Protection Association; 2000.
- G. SDI - Steel Door Institute
- H. UBC Std 7-2, Part II - Test Standard for Smoke- and Draft-control Assemblies; International Conference of Building Officials; 1997.
- I. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

1.4 SUBMITTALS

- A. See Scope of work requirements.

1.6 WARRANTY

- A. Refer to Conditions of the Contract.
- B. Manufacturer's Warranty:
 - 1. Closers: Ten (10) years.
 - 2. Locksets and Cylinders: Three (3) years
 - 3. All other hardware: Two (2) years

PART 2 PRODUCTS

2.1 GENERAL REQUIREMENTS FOR DOOR HARDWARE PRODUCTS

- A. Provide products that comply with the following:
 - 1. Applicable provision of Federal, State, and local codes.
 - 2. ANSI/ICC A117.1, American National Standard for accessible and usable Buildings and Facilities.
 - 3. Applicable provisions of NFPA 101, Life Safety code.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- D. Mounting heights for hardware from finished floor to center line of hardware item:
 - 1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."



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- 3.2 ADJUSTING
 - A. Adjust hardware for smooth operation.
- 3.3 PROTECTION OF FINISHED WORK
 - A. Protect finished Work.
 - B. Do not permit adjacent work to damage hardware or finish.
- 3.4 HARDWARE SCHEDULE:
 - Finish: DULL CHROME (US26D)
 - Keying: MASTER KEY & KEY AS DIRECTED. FURNISH FOUR MASTERKEYS
 - Core cylinders: Sargent XC series with 6 pins

Hardware Set 1: STORAGE ROOMS: Door # 1B

- 3 HINGES MCKINNEY TA2714 4 ½ X 4 ½
- 1 STORAGE LOCK SARGENT 6500 LINE, 04 FUNCTION, L Lever design,
Finish: 26D Satin Chrome
- 1 STOP ROCKWOOD 409
- 3 SILENCERS ROCKWOOD 608
- 1 CORE CYLINDER SARGENT AS REQUIRED

Hardware Set 2: OFFICE Doors #: 1A, 2, 3, 4, 5 & 6

- 3 HINGES MCKINNEY TA2714 4 ½ X 4 ½
- 1 Office LOCK SARGENT 6500 LINE, 05 FUNCTION, L Lever design,
Finish: 26D Satin Chrome
- 1 STOP ROCKWOOD 409
- 3 SILENCERS ROCKWOOD 608
- 1 CORE CYLINDER SARGENT AS REQUIRED

END OF SECTION: 08 71 00 Door Hardware



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SECTION 092216 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Non-load-bearing steel framing systems for interior gypsum board assemblies.
 - 2. Suspension systems for interior gypsum ceilings, soffits, and grid systems.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.02 FRAMING SYSTEMS

- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
 - 1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
 - 2. Protective Coating: ASTM A 653/A 653M, G60, hot-dip galvanized unless otherwise indicated.
- B. Studs and Runners: ASTM C 645.
 - 1. Steel Studs and Runners:
 - a. Minimum Base-Metal Thickness: 0.027 inch.
 - b. Depth: As indicated by wall types.
- C. Slip-Type Head Joints, where required:
 - 1. Single Long-Leg Runner System: ASTM C 645 top runner with 2-inch-deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top runner and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
- D. Firestop Tracks: Top runner manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing
 - 1. Minimum Base-Metal Thickness: 0.027 inch.
- F. Cold-Rolled Channel Bridging: Steel, 0.053-inch minimum base-metal thickness, with minimum 1/2-inch-wide flanges.
 - 1. Depth: 1-1/2 inches.
 - 2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel.



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- G. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
 - 1. Minimum Base-Metal Thickness: 0.018 inch.
 - 2. Depth: As indicated on Drawings.
- H. Resilient Furring Channels: 1/2-inch- deep, steel sheet members designed to reduce sound transmission.
 - 1. Configuration: Asymmetrical or hat shaped.
- I. Cold-Rolled Furring Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch- wide flanges.
 - 1. Depth: As indicated on Drawings.
 - 2. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum uncoated-steel thickness of 0.033 inch.
 - 3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch- diameter wire.
- J. Z-Shaped Furring: With slotted or non-slotted web, face flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-metal thickness of 0.018 inch, and depth required to fit insulation thickness indicated in wall types.

2.03 SUSPENSION SYSTEMS

- A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch- diameter wire, or double strand of 0.048-inch- diameter wire.
- B. Hanger Attachments to Concrete:
 - 1. Anchors: Fabricated from corrosion-resistant materials with holes or loops for attaching wire hangers and capable of sustaining, without failure, a load equal to 5 times that imposed by construction as determined by testing according to ASTM E 488 by an independent testing agency.
 - a. Type: Post-installed, chemical anchor or Post-installed, expansion anchor.
 - 2. Powder-Actuated Fasteners: Suitable for application indicated, fabricated from corrosion-resistant materials with clips or other devices for attaching hangers of type indicated, and capable of sustaining, without failure, a load equal to 10 times that imposed by construction as determined by testing according to ASTM E 1190 by an independent testing agency.
- C. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter.
- D. Carrying Channels: Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.053 inch and minimum 1/2-inch- wide flanges.
 - 1. Depth: 2-1/2 inches unless otherwise indicated.
- E. Furring Channels (Furring Members):
 - 1. Hat-Shaped, Rigid Furring Channels: ASTM C 645, 7/8 inch deep.
 - a. Minimum Base-Metal Thickness: 0.018 inch
 - 2. Resilient Furring Channels: 1/2-inch- deep members designed to reduce sound transmission.
 - a. Configuration: Asymmetrical or hat shaped.



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2.04 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
- B. Isolation Strip at Exterior Walls: Provide one of the following:
 - 1. Asphalt-Saturated Organic Felt: ASTM D 226, Type I (No. 15 asphalt felt), nonperforated.
 - 2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.

3.03 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C 754.
 - 1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- C. Install bracing at terminations in assemblies.
- D. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.04 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacing indicated, but not greater than spacing required by referenced installation standards for assembly types.
 - 1. Single-Layer Application: 16 inches o.c. unless otherwise indicated.
 - 2. Multilayer Application: 16 inches o.c. unless otherwise indicated.
 - 3. Tile Backing Panels: 16 inches o.c. unless otherwise indicated.
- B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- C. Install studs so flanges within framing system point in same direction.
- D. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.



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1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
 2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb unless otherwise indicated.
 - b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
 - c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
 3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
 4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
 - a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
 5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- E. Direct Furring:
1. Screw to wood framing.
 2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches O.C.
- F. Z-Furring Members:
1. Erect insulation, specified in Section 072100 "Thermal Insulation," vertically and hold in place with Z-furring members spaced 24 inches O.C.
 2. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches O.C.
 3. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.
- G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing. 3.05
- ### INSTALLING SUSPENSION SYSTEMS
- A. Install suspension system components according to spacing indicated, but not greater than spacing required by referenced installation standards for assembly types.
1. Hangers: 48 inches O.C.
 2. Carrying Channels (Main Runners): 48 inches O.C.
 3. Furring Channels (Furring Members): 16 inches O.C.



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- B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
- C. Suspend hangers from building structure as follows:
 - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
 - a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counter splaying, or other equally effective means.
 - 2. Where width of ducts and other construction within ceiling plenum produces hanger spacing that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
 - a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
 - 3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
 - 4. Do not attach hangers to steel roof deck.
 - 5. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
 - 6. Do not connect or suspend steel framing from ducts, pipes, or conduit.
- D. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.
- E. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
- F. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

END OF SECTION 092216 NON-STRUCTURAL METAL FRAMING



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Section 092900 – GYPSUM BOARD

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Interior gypsum board.
 - 2. Tile backing panels.
- B. Related Requirements:
 - 1. Section 092216 "Non-Structural Metal Framing" for non-structural framing and suspension systems that support gypsum board panels.
 - 2. Section 092116.23 "Gypsum Board Shaft Wall Assemblies" for metal shaft-wall framing, gypsum shaft liners, and other components of shaft-wall assemblies.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.05 FIELD CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.02 GYPSUM BOARD, GENERAL

- A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.03 INTERIOR GYPSUM BOARD

- A. Gypsum Wallboard: ASTM C 1396/C 1396M.
- B. Gypsum Board, Type X: ASTM C 1396/C 1396M.
 - 1. Thickness: 5/8 inch.
 - 2. Long Edges: Tapered.



2.04 SOUND ATTENUATING GYPSUM BOARD

A. Acceptable Manufacturers

1. CertainTeed Gypsum, Inc.
 - a. Basis of Design: CertainTeed SilentFX® QuickCut Gypsum Board OR EQUAL.
 1. Laminated noise-reducing gypsum board consisting of two layers of dense gypsum board encased in smooth, moisture and mold resistant paper facings laminated together with a viscoelastic polymer compound. Meeting ASTM C1766 and ASTM C1396.
 2. Type and Thickness: Type X (where required by fire rating), 5/8 inch (15.9 mm) thick
 3. Size: 48 by not less than 96 inches (1220 by not less than 2440 mm) longest length possible to minimize joints.
 4. Surface Paper: 100% recycled moisture and mold resistant paper on face, back and long edges.
 5. Mold Resistance Rating:
 - a. Score of 10 (best possible) tested in accordance with ASTM D3273

B. Acoustical Sealant

1. Acceptable Manufacturers
 - a. Green Glue Company OR EQUAL
 1. Basis of Design: Green Glue Noise proofing Sealant

2.05 TRIM ACCESSORIES

A. Interior Trim: ASTM C 1047.

1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
2. Shapes:
 - a. Cornerbead.
 - b. Bullnose bead.
 - c. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - d. L-Bead: L-shaped; exposed long flange receives joint compound.
 - e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
 - f. Expansion (control) joint.
- B. Aluminum Trim: Extruded accessories of profiles and dimensions indicated.
 1. Aluminum: Alloy and temper with not less than the strength and durability properties of ASTM B 221, Alloy 6063-T5.
 2. Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified.

2.07 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.

B. Joint Tape:

1. Interior Gypsum Board: Paper.
2. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
3. Tile Backing Panels: As recommended by panel manufacturer.

C. Joint Compound for Interior Gypsum Board: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.

1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
5. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.



- D. Joint Compound for Tile Backing Panels:
 - 1. Cementitious Backer Units: As recommended by backer unit manufacturer.
- 2.08 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
 - B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
 - 1. Laminating adhesive shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 - 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
 - D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
 - 1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.
 - E. Acoustical Joint Sealant: Manufacturer's standard non-sag, paintable, non-staining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - 1. Acoustical joint sealant shall have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - F. Acoustic Joint Sealant for use with High STC Interior Gypsum Board assemblies: Latex sealant, ASTM C834, Grade -18 degrees C.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Pabsco Gypsum; QuietSeal Pro.
 - 2. Extrudability (ASTM C1183 Method B): ≥ 2.1 g/s Extrusion Rate
 - 3. Artificial Weathering (ASTM C732 500 Hours): No wash-out, slump, or cracking. Also $\leq 25\%$ total bond area loss.
 - 4. Volume Shrinkage (ASTM C1241 Type OP): $\leq 30\%$ volume shrinkage.
 - 5. Low Temperature Flexibility (ASTM C734): No adhesion loss or cracking through to substrate after 500 hours.
 - 6. Recovery and Adhesion Loss (ASTM C736): $\geq 75\%$ recovery and $\leq 25\%$ total bond area loss.
 - 7. Slump (ASTM D2202): No slump observed.
 - 8. Stain Index (ASTM D2203): Maximum allowable stain index of 1.
 - 9. Surface Burning Characteristics (ASTM E84): Meets NFPA Class A Fire-Rating.
 - G. Acoustic Putty Pads for use with High STC Interior Gypsum Board assemblies:
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Pabsco Gypsum; QuietPutty.
 - 2. Thickness: 1/8 inch.
 - 3. Weight: 6 oz. per pad.
 - 4. Size: 7 inch by 7 inch.
 - 5. Density: 1 oz. per cu. inch.
 - 6. STC-rated: 47-63, ASTM E90



PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and substrates including welded hollow-metal frames and framing, with Installer present, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold amaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- I. STC-Rated Assemblies: Seal construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C 919 and with manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.
 - 1. For assemblies that include High STC Interior Gypsum Board, utilize acoustic sealant designed for use with that product.
 - 2. For receptacles, junction boxes, and other penetrations or joints that are larger than 3/4 inch in assemblies that include High STC Interior Gypsum Board, utilize acoustic putty pads.
 - a. At electrical boxes, wrap the putty completely around the back side of the box.
- J. Install sound attenuation blankets before installing gypsum panels unless blankets are readily installed after panels have been installed on one side.

3.03 APPLYING INTERIOR GYPSUM BOARD

- A. Install sound attenuation interior gypsum board in all locations unless otherwise indicated.



- B. Single-Layer Application:
 - 1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
 - 2. On partitions/walls, apply gypsum panels vertically (parallel to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - b. At stairwells and other high walls, install panels horizontally unless otherwise indicated or required by fire-resistance-rated assembly.
 - 3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 - 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.
- C. Multilayer Application:
 - 1. On ceilings, apply gypsum board indicated for base layers before applying base layers on walls/partitions; apply face layers in same sequence. Apply base layers at right angles to framing members and offset face-layer joints one framing member, 16 inches minimum, from parallel base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly.
 - 2. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
 - 3. On Z-furring members, apply base layer vertically (parallel to framing) and face layer either vertically (parallel to framing) or horizontally (perpendicular to framing) with vertical joints offset at least one furring member. Locate edge joints of base layer over furring members.
 - 4. Fastening Methods: Fasten base layers and face layers separately to supports with screws.

3.05 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints at locations indicated on Drawings and at other locations according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- C. Interior Trim: Install in the following locations:
 - 1. Cornerbead: Use at outside corners unless otherwise indicated.
 - 2. Bullnose Bead: Use where indicated.
 - 3. LC-Bead: Use at exposed panel edges.
 - 4. L-Bead: Use where indicated.
 - 5. U-Bead: Use where indicated.
- D. Aluminum Trim: Install in locations indicated on Drawings.

3.06 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
 - 1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.



3.07 PROTECTION

- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged includes, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION Section 092900 – GYPSUM BOARD



SECTION 09 51 13: ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section includes acoustical panels and exposed suspension systems for ceilings.
- B. Products furnished, but not installed under this Section, include anchors, clips, and other ceiling attachment devices to be cast in concrete.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified, 6 inches in size.

1.04 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Acoustical Ceiling Panels: Full-size panels equal to 2 percent of quantity installed.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical panels, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

1.06 FIELD CONDITIONS

- A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
 1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 1. Flame-Spread Index: Comply with ASTM E 1264 for Class A materials.
 2. Smoke-Developed Index: 450 or less.

2.02 ACOUSTICAL PANELS, GENERAL

- A. Source Limitations:
 1. Acoustical Ceiling Panel: Obtain each type from single source from single manufacturer.



2. Suspension System: Obtain each type from single source from single manufacturer.
 - B. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
 - C. Glass-Fiber-Based Panels: Made with binder containing no urea formaldehyde.
 - D. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance unless otherwise indicated.
 1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface according to ASTM E 795.
 - E. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
 1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.
- 2.03 ACOUSTICAL PANELS ACP-1
- A. Manufacturers: Subject to compliance with requirements, provide products indicated or a comparable product by a Manufacturer acceptable to Owner and Architect.
 - B. Color: White.
 - C. Edge/Joint Detail: Square.
 - D. Thickness: As indicated on Drawings.
 - E. Modular Size: As indicated on Drawings.
 - F. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.
- 2.04 METAL SUSPENSION SYSTEMS, GENERAL
- A. Metal Suspension-System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635/C 635M.
 1. High-Humidity Finish: Comply with ASTM C 635/C 635M requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.
 - B. Attachment Devices: Size for five times the design load indicated in ASTM C 635/C 635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
 1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing according to ASTM E 488 or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
 - a. Type: Post installed expansion or Post installed bonded anchors.
 - b. Corrosion Protection: Carbon-steel components zinc plated to comply with ASTM B 633, Class Fe/Zn 5 (0.005 mm) for Class SC 1 service condition.
 - c. Corrosion Protection: Stainless-steel components complying with ASTM F 593 and ASTM F 594, Group 1 Alloy 304 or 316 for bolts; Alloy 304 or 316 for anchor.
 - d. Corrosion Protection: Components fabricated from nickel-copper-alloy rods complying with ASTM B 164 for UNS No. N04400 alloy.
 2. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing according to ASTM E 1190, conducted by a qualified testing and inspecting agency.



C. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:

1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
2. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635/C 635M, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.135-inch- diameter wire.

2.05 METAL SUSPENSION SYSTEM

A. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; pre-painted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 coating designation; with prefinished 15/16-inch- wide metal caps on flanges.

1. Structural Classification: Heavy-duty system.
2. End Condition of Cross Runners: Override (stepped) type.
3. Face Design: Flat, flush.
4. Cap Material: Steel cold-rolled sheet.
5. Cap Finish: Painted white

2.06 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.

1. Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners unless otherwise indicated.
2. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.
3. Shadow Molding: Where indicated, provide manufacturer's standard with 1/2 inch deep by 1/2 inch wide reveal.

2.07 ACOUSTICAL SEALANT

A. Acoustical Sealant: Manufacturer's standard sealant complying with ASTM C 834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.

1. Exposed and Concealed Joints: Non-sag, paintable, non-staining latex sealant.
2. Acoustical sealant shall have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions effecting performance of acoustical panel ceilings.

B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.



3.03 INSTALLATION

- A. General: Install acoustical panel ceilings to comply with ASTM C 636/C 636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
- B. Suspend ceiling hangers from building's structural members and as follows:
 - 1. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
 - 2. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
 - 3. Do not attach hangers to steel roof deck. Attach hangers to structural members.
- C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
 - 1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
 - 2. Screw attach moldings to substrate at intervals not more than 16 inches O.C. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
 - 3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- D. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- E. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
 - 1. Arrange directionally patterned acoustical panels as follows:
 - a. As indicated on reflected ceiling plans.
 - 2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension-system runners and moldings.
 - 3. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.

3.04 CLEANING

- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09 51 13: ACOUSTICAL PANEL CEILINGS



SECTION 10 44 00 FIRE EXTINGUISHERS, CABINETS & ACCESSORIES

PART 1 GENERAL

- 1.1 WORK INCLUDED
 - A. Fire extinguishers.
- 1.2 REFERENCES
 - A. NFPA 10 - Portable Fire Extinguishers.
- 1.3 QUALITY ASSURANCE
 - A. Conform to NFPA 10 - Portable Fire Extinguishers.
- 1.4 SUBMITTALS
 - A. Include physical dimensions, operational features, color and finish, wall mounting brackets with mounted measurements, anchorage details, rough-in measurements, location, and details.
 - B. Submit manufacturer's installation instructions under provisions of Section 01300.
- 1.5 OPERATION AND MAINTENANCE DATA
 - A. Include test, refill or recharge schedules, procedures, and re-certification requirements.
- 1.6 ENVIRONMENTAL REQUIREMENTS
 - A. Do not install extinguishers when ambient temperatures may cause freezing.

PART 2 PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS
 - A. Larsen's Manufacturing Company.
 - B. OR Equal
- 2.2 EXTINGUISHERS
 - A. Multi-Purpose Dry Chemical: Heavy Duty DOT steel tank; with specially fluidized and siliconized mono ammonium phosphate powder for pressurization; including hose and nozzle; Class ABC; 10 gallon baked enamel, color red. Provide number of units as indicated on Life Safety Sheets in Drawings. Model: Amerex Model B441.
- 2.3 CABINETS
 - A. Cabinet shall be fully-recessed or semi-recessed mounted where shown on Drawings as "F.E.C."; provide trim matching door to infill space between wall surface and door flange.
 - B. Non-rated Walls: Provide and install fire extinguisher cabinets equal to Larsen's Occult Series; Model 0-2409AL, Vertical Die Cut Lettering (color White), brushed aluminum finish.
 - C. Rated Walls: Provide and install fire extinguisher cabinets equal to Larsen's Occult Series; Model FS 0-2409AL, Vertical Die Cut Lettering (color White), brushed aluminum finish.
 - D. Provide model with shelf for fire blanket at Mechanical Rooms. If not available, provide matching cabinet for fire blanket.
- 2.4 FABRICATION
 - A. Predrill holes for anchorage.
 - B. Form body of cabinet with tight inside corners and seams.
 - C. Hinge doors for 180 degree opening with continuous piano hinge. Provide roller type catch.
- 2.5 FINISHES
 - A. Extinguisher: As scheduled in 2.2 of this Section.
 - B. Cabinet Trim and Door: Brushed Aluminum. For fully recessed cabinets use flat trim and For semi-recessed use square trim.
 - C. Cabinet Interior: Manufacturer's standard.

PART 3 EXECUTION

- 3.1 INSPECTION
 - A. Beginning of installation means acceptance of existing conditions.



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3.2 INSTALLATION

- A. Install brackets plumb and level on wall 42 inches or as required by code from finished floor to centerline of discharge nozzle.
- B. Secure rigidly in place in accordance with manufacturer's instructions.

END OF SECTION 10 44 00 FIRE EXTINGUISHERS, CABINETS & ACCESSORIES



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SECTION 12 24 13 – ROLLER WINDOW SHADES

PART 1: GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Manually operated roller shades with single rollers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.
- C. Samples: For each exposed product and for each color and texture specified, 10 inches long.
- D. Samples for Verification: For each type of roller shade.
 - 1. Shadeband Material: Not less than 10 inches square. Mark inside face of material if applicable.
 - 2. Roller Shade: Full-size operating unit, not less than 16 inches wide by 36 inches long for each type of roller shade indicated.
- E. Roller-Shade Schedule: Showing how many and sizes that will be needed.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each type of shadeband material, signed by product manufacturer.
- C. Product Test Reports: For each type of shadeband material, for tests performed by manufacturer and witnessed by a qualified testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roller shades to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 - 1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.



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- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Hunter Douglas Contract.
 - 2. Lutron Electronics Co., Inc.
 - 3. MechoShade Systems, Inc.
 - 4. Substitutions as specified.
- B. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

- A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
 - 1. Bead Chains: Stainless steel.
 - a. Loop Length: Full length of roller shade.
 - b. Limit Stops: Provide upper and lower ball stops.
 - c. Chain-Retainer Type: Chain tensioner, sill mounted.
- B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
 - 1. Roller Drive-End Location: Right side of inside face of shade.
 - 2. Direction of Shadeband Roll: Regular, from back of roller.
 - 3. Shadeband-to-Roller Attachment: Removable spline fitting integral channel in tube.
- C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.
- E. Shadebands:
 - 1. Shadeband Material: Light-filtering fabric.
 - 2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
 - a. Type: Enclosed in sealed pocket of shadeband material.
 - b. Color and Finish: As selected by TXDPS from manufacturer's full range.
- F. Installation Accessories:
 - 1. Exposed Headbox: Rectangular, extruded-aluminum enclosure including front fascia, top and back covers, endcaps, and removable bottom closure.
 - a. Height: Manufacturer's standard height required to enclose roller and shadeband when shade is fully open, but not less than height indicated on Drawings.
 - 2. Endcap Covers: To cover exposed endcaps.



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2.3 SHADEBAND MATERIALS

- A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Roller-shade manufacturer.
 - 2. Type: Woven PVC-coated fiberglass and PVC-coated polyester.
 - 3. Weave: Basketweave.
 - 4. Thickness: 32 mil.
 - 5. Weight: 16.8 oz / sq. yd.
 - 6. Roll Width: To fit window opening.
 - 7. Orientation on Shadeband: Up the bolt.
 - 8. Openness Factor: To be selected by TXDPS.
 - 9. Color: To be selected by TXDPS.

2.4 ROLLER-SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.
- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:
 - 1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch per side or 1/2-inch total, plus or minus 1/8 inch. Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch, plus or minus 1/8 inch.
 - 2. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible – provide drawings of battens or seams if they will be required.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER-SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.

3.3 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller-shade surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.



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3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain motor-operated roller shades.

END OF SECTION

ATTACHMENT C

VERIFICATIONS

VERIFICATIONS

SOLICITATION NUMBER#: _____

BIDDERS NAME: _____

Bidder's Experience on Similar Projects Within Past Five (5) Years

Company's Name: _____

Address: _____

E-mail: _____ Point of Contact: _____ Phone Number: _____

Project Dates: Start Date: _____ End Date: _____

Project name, location and brief description: _____

Company's Name: _____

Address: _____

E-mail: _____ Point of Contact: _____ Phone Number: _____

Project Dates: Start Date: _____ End Date: _____

Project name, location and brief description: _____

Company's Name: _____

Address: _____

E-mail: _____ Point of Contact: _____ Phone Number: _____

Project Dates: Start Date: _____ End Date: _____

Project name, location and Brief Description: _____

Company's/Sub Contractor's Personnel Experience /Certificate/License Verification if required in Solicitation

Employee/Sub Contractor Name/Job Title: _____

Certificate and/or License Type and Number : _____

License Expiration Date: _____

Years of Experience: _____

Employee/Sub Contractor Name/Job Title: _____

Certificate and/or License Type and Number : _____

License Expiration Date: _____

Years of Experience: _____

Employee/Sub Contractor Name/Job Title: _____

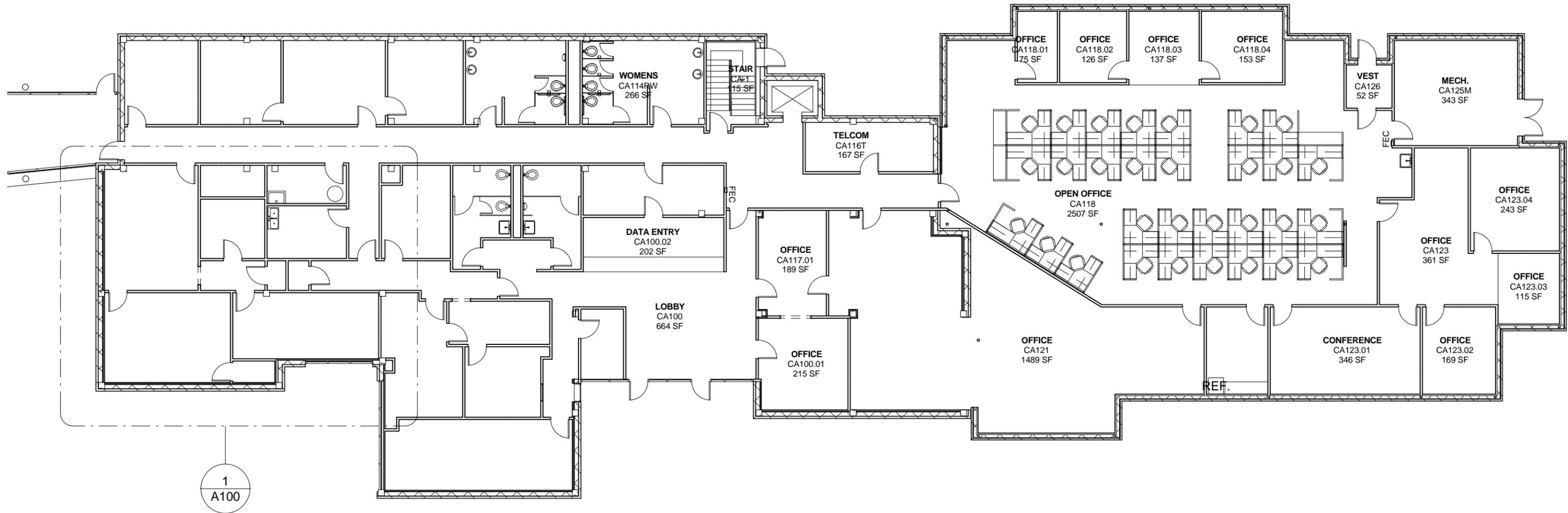
Certificate and/or License Type and Number : _____

License Expiration Date: _____

Years of Experience: _____

ATTACHMENT D

DRAWINGS



AREA OF WORK 1/A100



Building C Annex Headquarters

Jessica Ruth Warren
 #25573

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 APPROVAL, PERMITTING
 OR CONSTRUCTION.**

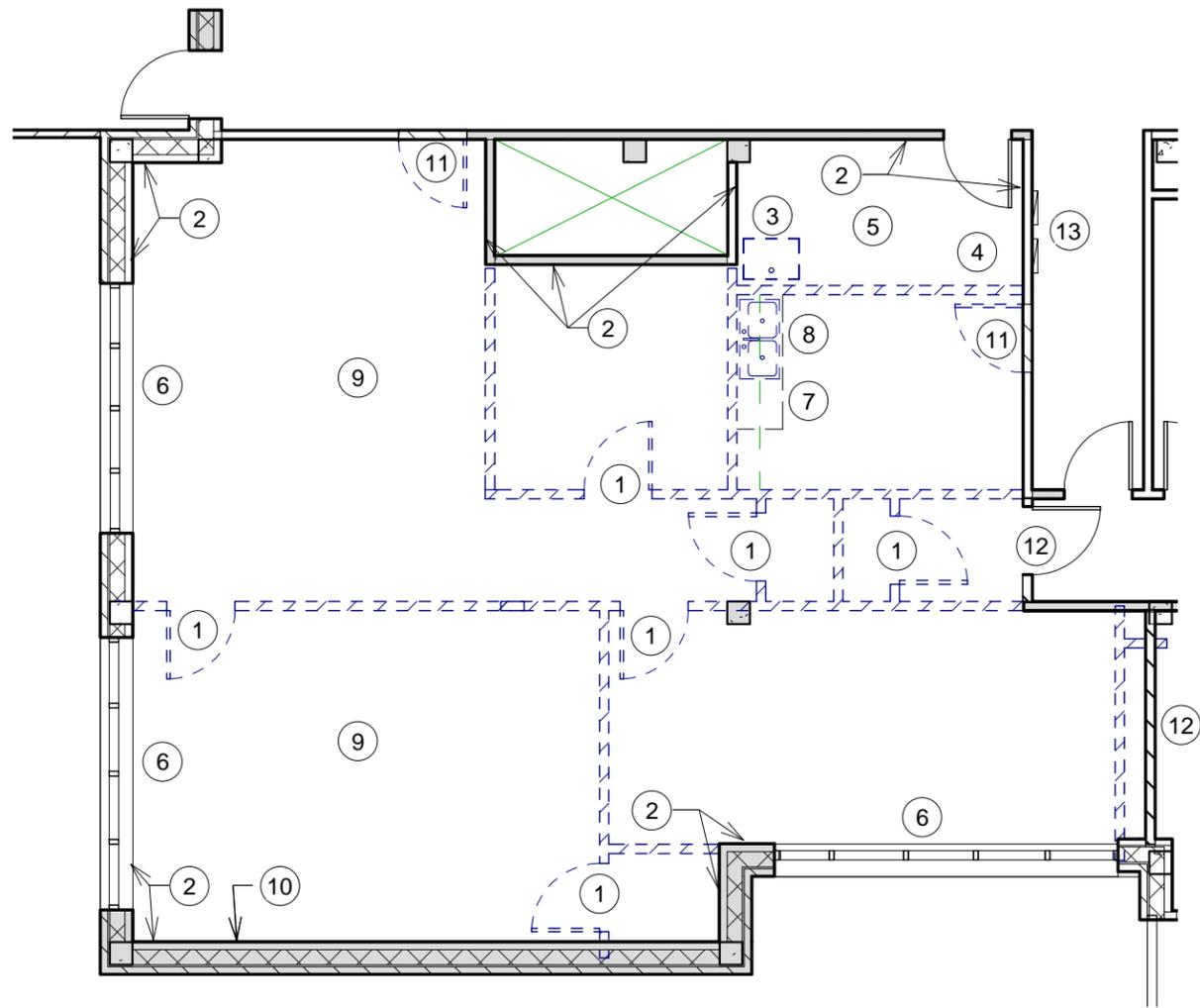
Existing First Floor

REVISIONS			Project number 16-011	
No.	Description	Date	Date	5/24/2016
			Drawn by	JW
			Checked by	
			Scale:	1/16" = 1'-0"
				A001

H:\Our stuff\Building C VESS\Building C- VESS Remodel 2016\Building and Land\Drawings\Building C VESS.rvt
6/1/2016 2:32:24 PM

Symbol Legend

-  New wall, 3 5/8" metal studs w/ insulation & 5/8" sound attenuation gyp. bd. both sides to deck above
-  Existing Wall to Remain
-  Existing Wall to be Removed
-  Doors: Refer to door schedule sheet A100



General Demolition Notes

1. All existing information is based on existing drawings and field observation and may not reflect all field conditions accurately. Notify TXDPS if any work described in the documents cannot be performed due to existing field conditions.
2. Demolition work shall be executed in conformance with all codes and ordinances as set forth by all governing authorities.
3. An asbestos contractor will be removing the flooring. It will be the responsibility of this contractor to phase the demolition required on this project while coordinating schedules with the asbestos contractor.
 - Phase One: Create the outer barrier to this area of work - see key note 12 below.
 - Phase Two: Remove all walls within the suite so that abatement can remove all flooring including flooring that may be located underneath the sill plates of the walls being removed. Keep as much of the suspended ceiling as possible during asbestos abatement.
 - Phase Three: Asbestos abatement
 - Phase Four: The rest of the scope of demolition work can be phased as necessary to complete project
4. The lights and mechanical ductwork / supply diffusers will need to be properly disconnected and supported during demolition. See reflected ceiling plan for work accomplished after demolition.
3. Remove existing construction as indicated with key notes. Remove the existing walls as indicated by the legend. The typical wall removal includes finishes, mechanical, plumbing, and electrical systems contained therein.
4. Prepare all remaining walls/ ceiling/ flooring and any areas of demolition to receive new finishes: scrape, clean, patch repair, and sand so all surfaces are smooth. Floor patch to be used as needed to achieve a smooth surface for the flooring.
5. All floor penetrations from removed plumbing, mechanical or electrical need to be flush with concrete slab and patched as necessary.
6. Remove and salvage any signage. Return to TXDPS for reuse.
7. Remove and dispose existing window coverings / blinds.

Demolition Key Notes

- ① Remove door and frame, salvage door for reuse.
- ② Remove all wallcovering from these walls to remain.
- ③ Remove existing janitor's sink and cap per code requirements. Flooring must be flush and ready to receive new carpet.
- ④ Relocate existing Water Heater in basement mechanical room as per TXDPS. Take precaution to verify all fixtures currently fed from this water heater will continue to receive hot water once the water heater is relocated (unless the fixtures were removed during this project).
- ⑤ Remove existing floor drain and piping from floor below. Properly cap any connecting pipes that are fed from other areas.
- ⑥ Remove existing window surround / sill - see floor plan for new window sill.
- ⑦ Remove millwork/ cabinetry.
- ⑧ Remove sink and piping of kitchen sink and cap per code requirements.
- ⑨ Remove chair rail and wood base from these rooms.
- ⑩ Remove inset cabinet in wall and infill flush with wall on both sides.
- ⑪ Remove door and frame, salvage door for reuse and infill opening to be flush with wall as soon as door is removed.
- ⑫ To create an enclosed barrier around project work area before demolition begins, either build portion of new wall and door / frame as in final plan OR create a temporary barrier if sequence of work delegates.
- ⑬ Electrical panels are to remain.



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#25573

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Demolition Floor Plan

REVISIONS			Project number	16-011
No.	Description	Date	Date	May 31, 2016
			Drawn by	JRW
			Checked by	Checker
			Scale:	A002
			As indicated	

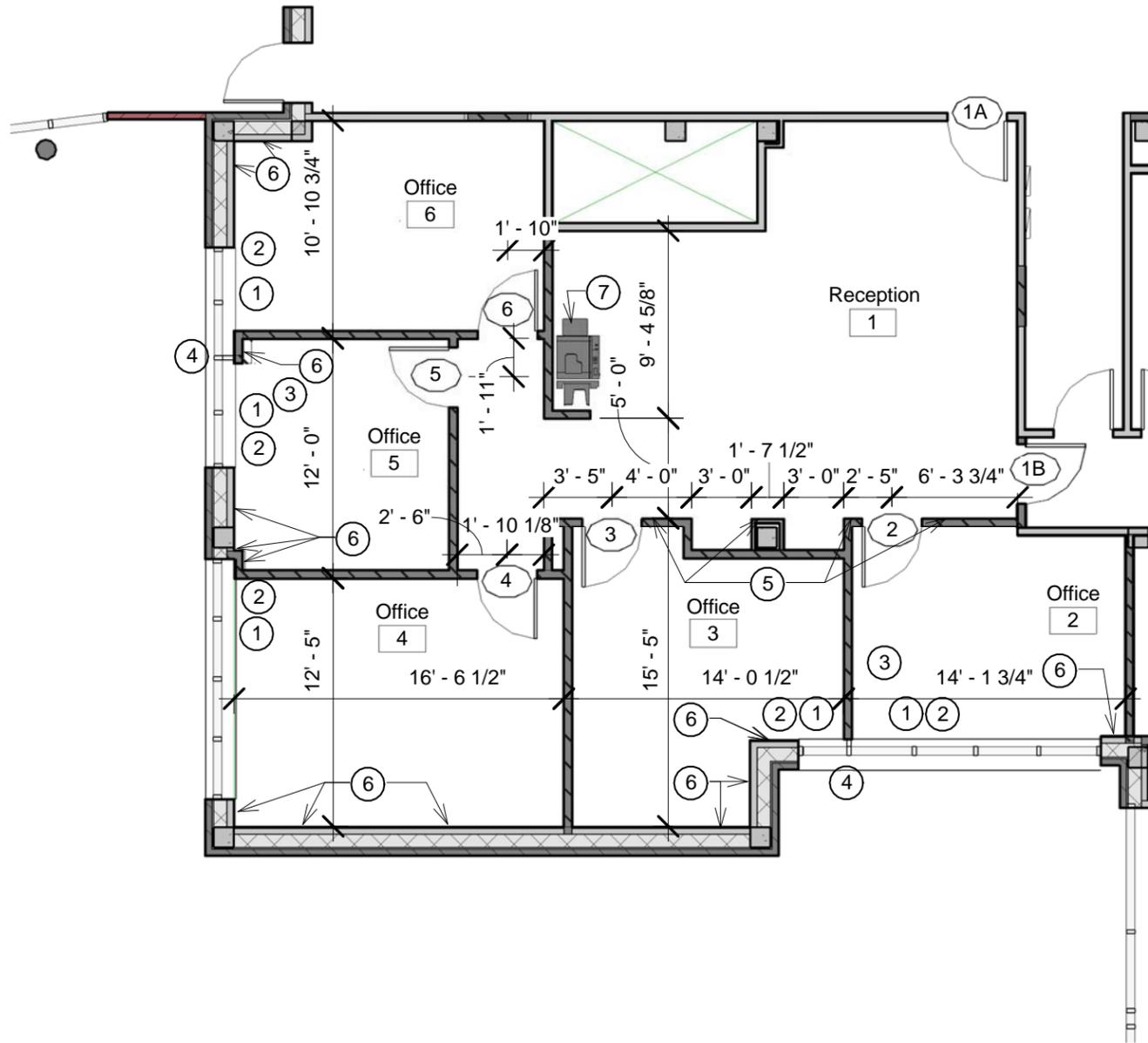
Symbol Legend

 New wall, 3 5/8" metal studs w/ insulation & 5/8" sound attenuation gyp. bd. both sides to deck above

 Existing Wall to Remain

 Existing Wall to be Removed

 1A Doors: Refer to door schedule sheet A100



General Construction Notes

- Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from TXDPS before continuing with construction.
- The contractor shall verify and coordinate all existing conditions / dimensions in the field prior to the start of any work and notify TXDPS in writing of any discrepancies.
- Interior dimensions are to the face of metal stud at new construction or to the face of existing construction, unless otherwise noted (U.O.N.).
- Locate the interior face of all door frames 6" off the adjacent wall, U.O.N.
- All existing columns are to be furred out with 1 5/8" metal studs. Locate the face of stud 1" off of the face of the existing column, U.O.N.
- Walls that are not dimensioned, are to align with an edge of existing construction.
- Provide 18" clear on the pull side and 12" clear on the push side of all doors per the Texas Accessibility Standards.
- Door 1A is an existing door and frame in place - replace existing hardware with new functionality.
- Reuse existing doors that were salvaged during demolition, if in good condition.
- Provide 2 data outlets and 2 power for each office.
- Provide and install rubber base in each room where new carpet is installed.
- Where rubber wall base is needed in corridor where door was removed, replace wall base where door was removed to the wall in one direction. Color and size to match existing.
- All walls that are not indicated to receive paint, are to receive vinyl wallcovering as indicated in the specifications (Korseal Grande Hacienda, 5021-25 OR equal).
- Install carpet in the following rooms Reception 1 and connecting corridor leading to following offices, Office 2, Office 3, Office 4, Office 5 and Office 6. See specification for requirements.

Construction Key Notes

- Provide and install 13 mm thick solid surface [equal to Wilsonart Oatmeal 9101GS (3)] for window sills - see detail.
- Provide and install roller shades for windows as indicated - see specification for specific requirements. Verify size of each opening.
- Provide and install an end cap for walls that terminate at the storefront mullions equal to Gordon Interior Specialities; Final Forms 1 End Cap; model 911-EC-487 - Paint to match walls.
- Provide and install a partition extension similar to Gordon Interior Specialities; Mullion Mate - partition closure. This will extend from the end cap provided and attach to the storefront mullion. Utilize appropriate model to extend full depth of window sill - maximum 13.75". Color to match existing storefront.
- Align these walls
- Prepare and paint walls indicated.
- Provide two Data outlets and Power for owner provided copier.

Door Schedule

Mark	Width	Height	Thickness	Finish	Frame Material	Hardware Set
1A	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2
1B	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	1
2	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2
3	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2
4	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2
5	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2
6	3' - 0"	7' - 0"	0' - 1 3/4"	Solid Core Wood	Hollow Metal	2



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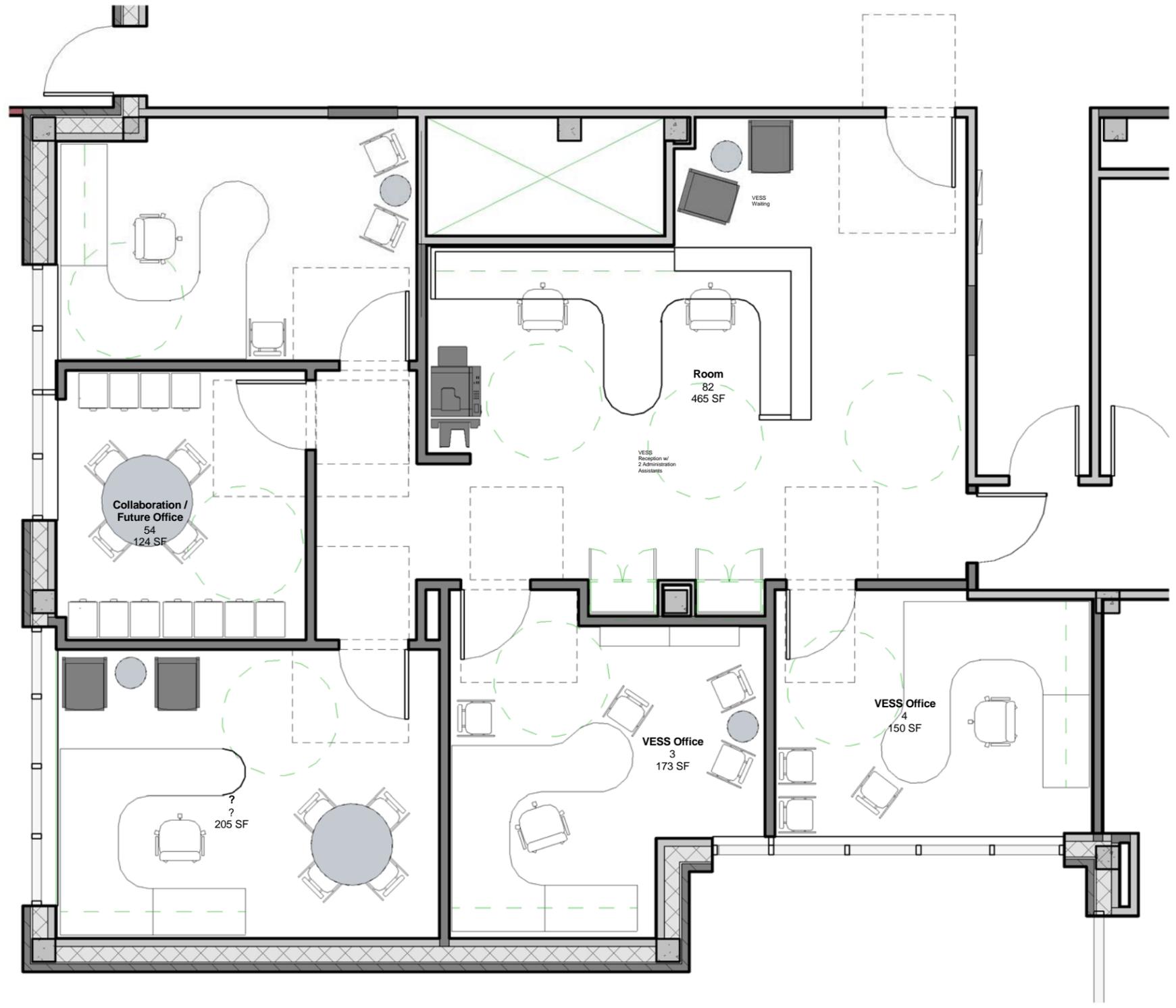
**NOT FOR REGULATORY
APPROVAL, PERMITTING
OR CONSTRUCTION.**

Floor Plan

REVISIONS

No.	Description	Date

Project number	16-011
Date	May 31, 2016
Drawn by	Author
Checked by	Checker
Scale: As indicated	A100



Building C Annex

Headquarters

5805 North Lamar Blvd. | Austin, Texas 78752

Jessica Ruth Warren
#25573

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OR CONSTRUCTION.**

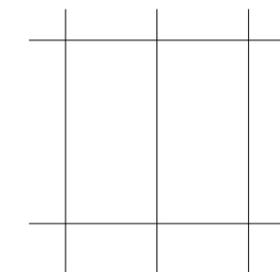
Proposed Layout TDLR Plan

REVISIONS			Project number	16-011
No.	Description	Date	Date	May 31, 2016
			Drawn by	Author
			Checked by	Checker
			Scale:	A101
			3/16" = 1'-0"	

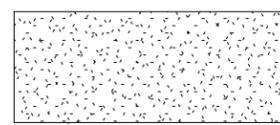
General Notes:

1. Demolition will be required for existing lighting fixtures/ wiring and mechanical to be removed/ disconnected properly and disposed of before new ceiling, mechanical diffusers and lighting can be installed.
2. Any item located in the ACT ceiling must be ordered to fit within a Acoustical Ceiling Tile/ Grid and have all trim required for this application. Any item located in gypsum board ceiling must have all trim required for that application.
3. All devices identified in the legend/ plan are to be connected to power as required by manufacturer's recommendations.
4. Mechanical Scope of Work requires signed and sealed Mechanical Drawings. Mechanical Drawings must coordinate with Reflected Ceiling Plan lighting as indicated in this drawing.

Legend



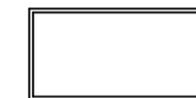
2' x 4' Lay-in Acoustical Tile and Grid system - see specification



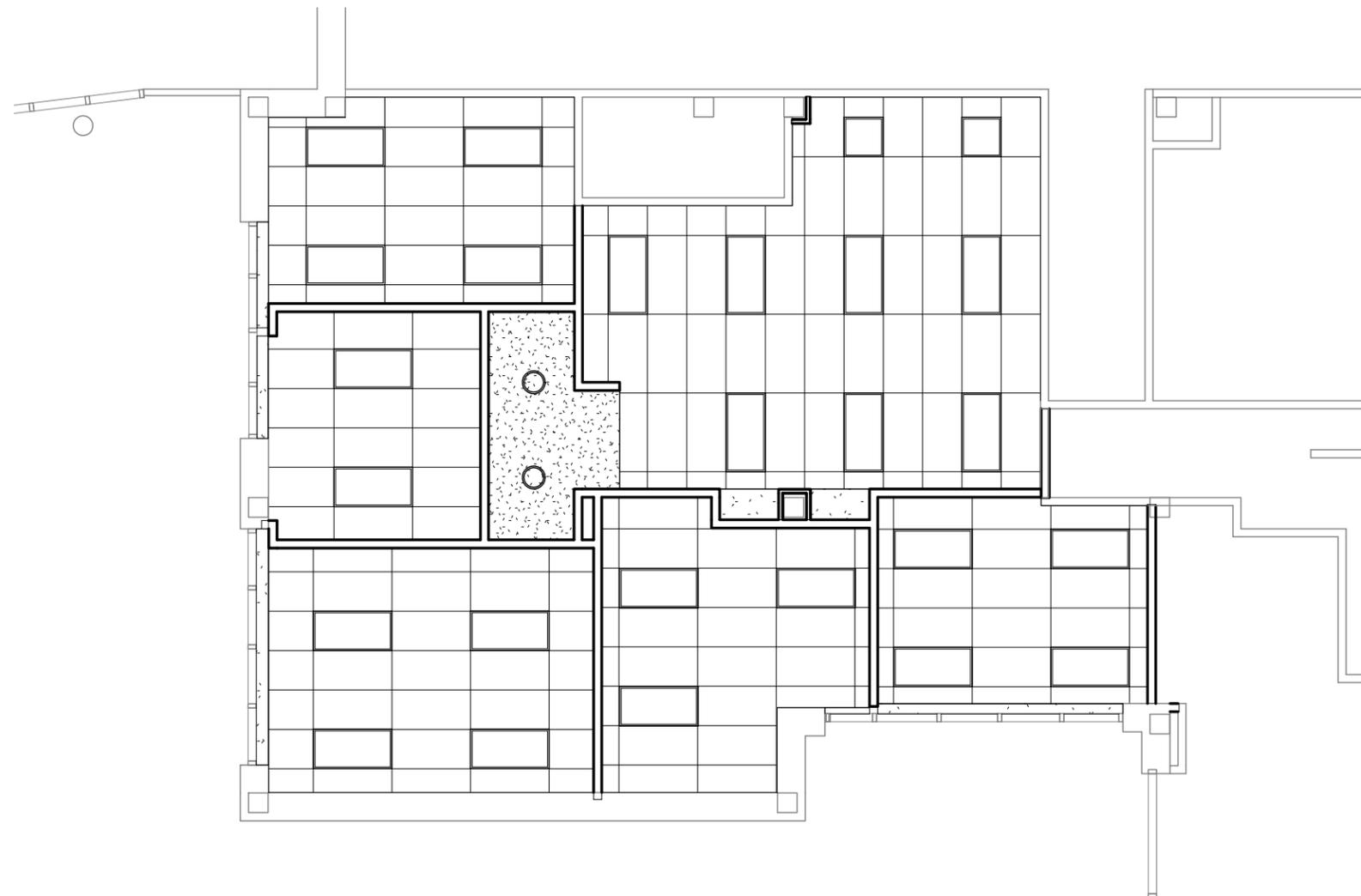
Gypsum board ceiling - to be finished and painted



6" diameter LED Recessed Can Lights



2 x 4 LED Troffer light located within ACT grid



1 First Floor - VESS Reflected Ceiling Plan
1/8" = 1'-0"



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Reflected Ceiling Plan

REVISIONS			Project number	16-011
No.	Description	Date	Date	May 31, 2016
			Drawn by	Author
			Checked by	Checker
			Scale: As indicated	A102