SERVICE AGREEMENT NO. 4870

Demolition of Aircraft East General Aviation Hangar One

THIS **Demolition of Aircraft East General Aviation Hangar One Agreement** ("Agreement") is entered into by and between the City of Corpus Christi, a Texas home-rule municipal corporation ("City") and Coastal Bend Demolition, Inc. ("Contractor"), effective upon execution by the City Manager or the City Manager's designee ("City Manager").

WHEREAS, Contractor has bid to provide Demolition of Aircraft East General Aviation Hangar One in response to Request for Bid/Proposal No. 4870 ("RFB/RFP"), which RFB/RFP includes the required scope of work and all specifications and which RFB/RFP and the Contractor's bid or proposal response, as applicable, are incorporated by reference in this Agreement as Exhibits 1 and 2, respectively, as if each were fully set out here in its entirety.

NOW, THEREFORE, City and Contractor agree as follows:

1. **Scope.** Contractor will provide Demolition of Aircraft East General Aviation Hangar One ("Services") in accordance with the attached Scope of Work, as shown in Attachment A, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety, and in accordance with Exhibit 2.

2. **Term.** The Term of this Agreement is six months beginning on the date provided in the Notice to Proceed from the Contract Administrator or the City's Procurement Division. Should it be deemed necessary by the City for the completion of the Services, the parties may mutually extend the term of this Agreement, provided, the parties do so in writing prior to the expiration of the original term.

3. **Compensation and Payment**. This Agreement is for an amount not to exceed $226,500.00, subject to approved extensions and changes. Payment will be made for Services performed and accepted by the City within 30 days of acceptance, subject to receipt of an acceptable invoice. All pricing must be in accordance with the attached Bid/Pricing Schedule, as shown in Attachment B, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety. Any amount not expended during the initial term or any option period may, at the City's discretion, be allocated for use in the next Option Period.

   Invoices must be mailed to the following address with a copy provided to the Contract Administrator:

City of Corpus Christi
Attn: Accounts Payable
P.O. Box 9277
Corpus Christi, Texas 78469-9277

4. Contract Administrator. The Contract Administrator designated by the City is responsible for approval of all phases of performance and operations under this Agreement, including deductions for non-performance and authorizations for payment. The City's Contract Administrator for this Agreement is as follows:

Victor Gonzalez
Aviation Department
Phone: 361-826-1788
Email: victor@cctexas.com

5. Insurance; Bonds.

(A) Before performance can begin under this Agreement, the Contractor must deliver a certificate of insurance ("COI"), as proof of the required insurance coverages, to the City's Risk Manager and the Contract Administrator. Additionally, the COI must state that the City will be given at least 30 days' advance written notice of cancellation, material change in coverage, or intent not to renew any of the policies. The City must be named as an additional insured. The City Attorney must be given copies of all insurance policies within 10 days of the City Manager's written request. Insurance requirements are as stated in Attachment C, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety.

(B) In the event a payment bond, a performance bond, or both, are required of the Contractor to be provided to the City under this Agreement before performance can commence, the terms, conditions, and amounts required in the bonds and appropriate surety information are as included in the RFB/RFP or as may be added to Attachment C, and such content is incorporated here in this Agreement by reference as if each bond's terms, conditions, and amounts were fully set out here in its entirety.

6. Purchase Release Order. For multiple-release purchases of Services to be provided by the Contractor over a period of time, the City will exercise its right to specify time, place and quantity of Services to be delivered in the following manner: any City department or division may send to Contractor a purchase release order signed by an authorized agent of the department or division. The purchase release order must refer to this Agreement, and Services will not be rendered until the Contractor receives the signed purchase release order.

7. Inspection and Acceptance. Any Services that are provided but not accepted by the City must be corrected or re-worked immediately at no charge to the City. If

immediate correction or re-working at no charge cannot be made by the Contractor, a replacement service may be procured by the City on the open market and any costs incurred, including additional costs over the item's bid/proposal price, must be paid by the Contractor within 30 days of receipt of City's invoice.

8. Warranty.

(A) The Contractor warrants that all products supplied under this Agreement are new, quality items that are free from defects, fit for their intended purpose, and of good material and workmanship. The Contractor warrants that it has clear title to the products and that the products are free of liens or encumbrances.

(B) In addition, the products purchased under this Agreement shall be warranted by the Contractor or, if indicated in Attachment D by the manufacturer, for the period stated in Attachment D. Attachment D is attached to this Agreement and is incorporated by reference into this Agreement as if fully set out here in its entirety.

(C) Contractor warrants that all Services will be performed in accordance with the standard of care used by similarly situated contractors performing similar services.

9. Quality/Quantity Adjustments. Any Service quantities indicated on the Bid/Pricing Schedule are estimates only and do not obligate the City to order or accept more than the City's actual requirements nor do the estimates restrict the City from ordering less than its actual needs during the term of the Agreement and including any Option Period. Substitutions and deviations from the City's product requirements or specifications are prohibited without the prior written approval of the Contract Administrator.

10. Non-Appropriation. The continuation of this Agreement after the close of any fiscal year of the City, which fiscal year ends on September 30th annually, is subject to appropriations and budget approval specifically covering this Agreement as an expenditure in said budget, and it is within the sole discretion of the City's City Council to determine whether or not to fund this Agreement. The City does not represent that this budget item will be adopted, as said determination is within the City Council's sole discretion when adopting each budget.

11. Independent Contractor. Contractor will perform the work required by this Agreement as an independent contractor and will furnish such Services in its own manner and method, and under no circumstances or conditions will any agent, servant or employee of the Contractor be considered an employee of the City.

12. Subcontractors. Contractor may use subcontractors in connection with the work performed under this Agreement. When using subcontractors, however, the

Contractor must obtain prior written approval from the Contract Administrator unless the subcontractors were named in the bid or proposal or in an Attachment to this Agreement, as applicable. In using subcontractors, the Contractor is responsible for all their acts and omissions to the same extent as if the subcontractor and its employees were employees of the Contractor. All requirements set forth as part of this Agreement, including the necessity of providing a COI in advance to the City, are applicable to all subcontractors and their employees to the same extent as if the Contractor and its employees had performed the work. The City may, at the City's sole discretion, choose not to accept Services performed by a subcontractor that was not approved in accordance with this paragraph.

13. **Amendments and Changes.** This Agreement may be amended or modified only by written change order signed by both parties. Change orders may be used to modify quantities as deemed necessary by the City. Any changes that alter the method, price, or schedule of work must be allowable, allocable, within the scope of any federal grant or cooperative agreement, and reasonable for the completion of the project scope.

14. **Waiver.** No waiver by either party of any breach of any term or condition of this Agreement waives any subsequent breach of the same.

15. **Taxes.** The Contractor covenants to pay payroll taxes, Medicare taxes, FICA taxes, unemployment taxes and all other related taxes. Upon request, the City Manager shall be provided proof of payment of these taxes within 15 days of such request.

16. **Notice.** Any notice required under this Agreement must be given by fax, hand delivery, or certified mail, postage prepaid, and is deemed received on the day faxed or hand-delivered or on the third day after postmark if sent by certified mail. Notice must be sent as follows:

IF TO CITY:
City of Corpus Christi
Attn: Victor Gonzalez, Senior Project Manager
1000 International Drive, Corpus Christi, TX 78406
Phone: 361-826-1788
Fax: n/a

IF TO CONTRACTOR:
Coastal Bend Demolition, Inc.
Attn: Vernon Carr, President
5001 Allen Pl., Corpus Christi, TX 78411
Phone: 361-851-0464
Fax: n/a

17. ***CONTRACTOR SHALL FULLY INDEMNIFY, HOLD HARMLESS AND DEFEND THE CITY OF CORPUS CHRISTI AND ITS OFFICERS, EMPLOYEES AND AGENTS ("INDEMNITEES") FROM AND AGAINST ANY AND ALL LIABILITY, LOSS, CLAIMS, DEMANDS, SUITS, AND CAUSES OF ACTION OF WHATEVER NATURE, CHARACTER, OR DESCRIPTION ON ACCOUNT OF PERSONAL INJURIES, PROPERTY LOSS, OR DAMAGE, OR ANY OTHER KIND OF INJURY, LOSS, OR DAMAGE, INCLUDING ALL EXPENSES OF LITIGATION, COURT COSTS, ATTORNEYS' FEES AND EXPERT WITNESS FEES, WHICH ARISE OR ARE CLAIMED TO ARISE OUT OF OR IN CONNECTION WITH A BREACH OF THIS AGREEMENT OR THE PERFORMANCE OF THIS AGREEMENT BY THE CONTRACTOR OR RESULTS FROM THE NEGLIGENT ACT, OMISSION, MISCONDUCT, OR FAULT OF THE CONTRACTOR OR ITS EMPLOYEES OR AGENTS. CONTRACTOR MUST, AT ITS OWN EXPENSE, INVESTIGATE ALL CLAIMS AND DEMANDS, ATTEND TO THEIR SETTLEMENT OR OTHER DISPOSITION, DEFEND ALL ACTIONS BASED THEREON WITH COUNSEL SATISFACTORY TO THE CITY ATTORNEY, AND PAY ALL CHARGES OF ATTORNEYS AND ALL OTHER COSTS AND EXPENSES OF ANY KIND ARISING OR RESULTING FROM ANY SAID LIABILITY, DAMAGE, LOSS, CLAIMS, DEMANDS, SUITS, OR ACTIONS. THE INDEMNIFICATION OBLIGATIONS OF CONTRACTOR UNDER THIS SECTION SHALL SURVIVE THE EXPIRATION OR EARLIER TERMINATION OF THIS AGREEMENT.***

18. **Termination.**

(A) **Termination for Cause.** The City may terminate this Agreement for Contractor's failure to comply with any of the terms of this Agreement. The City must give the Contractor written notice of the breach and set out a reasonable opportunity to cure. If the Contractor has not cured within the cure period, the City may terminate this Agreement immediately thereafter.

(B) **Termination for Convenience**. Alternatively, the City may terminate this Agreement for convenience upon 30 days advance written notice to the Contractor. The City may also terminate this Agreement upon 24 hours written notice to the Contractor for failure to pay or provide proof of payment of taxes as set out in this Agreement. In the event of termination for convenience, the Contractor will be compensated for all Services performed prior to the date of termination. The City shall have no further obligations to the Contractor.

19. **Effect of Breach.** In addition to the remedy of termination, if the Contractor violates or breaches any provision of the Agreement, the City may pursue any other claims or causes of action available under the law. No specific sanctions or penalties apply to this Agreement except those that are otherwise available under the law.

20. Limitation of Liability. The City's maximum liability under this Agreement is limited to the total amount of compensation listed in Section 3 of this Agreement. In no event shall the City be liable for incidental, consequential or special damages.

21. Assignment. No assignment of this Agreement by the Contractor, or of any right or interest contained herein, is effective unless the City Manager first gives written consent to such assignment. The performance of this Agreement by the Contractor is of the essence of this Agreement, and the City Manager's right to withhold consent to such assignment is within the sole discretion of the City Manager on any ground whatsoever.

22. Severability. Each provision of this Agreement is considered to be severable and, if, for any reason, any provision or part of this Agreement is determined to be invalid and contrary to applicable law, such invalidity shall not impair the operation of nor affect those portions of this Agreement that are valid, but this Agreement shall be construed and enforced in all respects as if the invalid or unenforceable provision or part had been omitted.

23. Order of Precedence. In the event of any conflicts or inconsistencies between this Agreement, its attachments, and exhibits, such conflicts and inconsistencies will be resolved by reference to the documents in the following order of priority:

A. this Agreement (excluding attachments and exhibits);
B. its attachments; then, its exhibits;
C. the bid solicitation document including any addenda (Exhibit 1); then,
D. the Contractor's bid response (Exhibit 2).

24. Certificate of Interested Parties. Contractor agrees to comply with Texas Government Code Section 2252.908, as it may be amended, and to complete Form 1295 "Certificate of Interested Parties" as part of this Agreement.

25. Governing Law. Contractor agrees to comply with all federal, Texas, and City laws in the performance of this Agreement. The applicable law for any legal disputes arising out of this Agreement is the law of the State of Texas, and such form and venue for such disputes is the appropriate district, county, or justice court in and for Nueces County, Texas.

26. Public Information Act Requirements. This paragraph applies only to agreements that have a stated expenditure of at least $1,000,000 or that result in the expenditure of at least $1,000,000 by the City. The requirements of Subchapter J, Chapter 552, Government Code, may apply to this contract and the Contractor agrees that the contract can be terminated if the Contractor knowingly or intentionally fails to comply with a requirement of that subchapter.

27. **Entire Agreement.** This Agreement constitutes the entire agreement between the parties concerning the subject matter of this Agreement and supersedes all prior negotiations, arrangements, agreements and understandings, either oral or written, between the parties.

28. **Federal Funding Requirements.** This project is subject to requirements provided for by relevant federal agencies. A set of Federal Requirements has been attached as Attachment E, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety. The Contractor must comply with Attachment E while performing the Services. The Contractor will insert in any subcontracts all Federal Provisions/Requirements contained in the Agreement, such other clauses as FEMA, the FAA, or their designees may by appropriate instructions require and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses.

[Signature Page Follows]

CONTRACTOR

DocuSigned by:

Signature: Vernon Carr
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Printed Name: Vernon Carr

Title: President

Date: 8/29/2023

CITY OF CORPUS CHRISTI

_____

Josh Chronley
Assistant Director of Finance – Procurement

Date: _____

APPROVED AS TO LEGAL FORM

_____

Assistant City Attorney Date

Attached and Incorporated by Reference:
Attachment A: Scope of Work
Attachment B: Bid/Pricing Schedule
Attachment C: Insurance and Bond Requirements
Attachment D: Warranty Requirements
Attachment E: Federal Requirements

Incorporated by Reference Only:
Exhibit 1: RFB/RFP No. 4870
Exhibit 2: Contractor's Bid/Proposal Response

Attachment A: Scope of Work

1.1 General Requirements/Background Information

The Contractor shall provide demolition services for Aircraft East General Aviation Hangar One. The Contractor shall have enough responsible, trained personnel qualified to provide the required services.

1.2 Scope of Work

A. The Contractor shall provide a demolition plan to Contract Administrator prior to commencing work for CCIA's review.

B. The Contractor shall provide all supervision, labor, transportation, tools, materials, and equipment necessary for the completion of services. All services must be performed in accordance with federal, state, local building codes, and OSHA safety requirements.

C. The Contractor shall acquire all required permit from Development Services. Submit Discontinuation of City Utilities Form 1017 with permit application. Form 1017 is provided in **Attachment A-1.** Lead and Asbestos reports are provided in **Attachments A-2 and A-3**. **There are areas of the building with asbestos- containing materials and lead-based paint.** The contract allowance will be used to compensate the permit fees and the fees will be reimbursed at cost. Permitting fees should not exceed $9,000.00. For bidding consistency, use $9,000.00 for the permit fee in your proposal which will include the following fees: demolition fee, plan review fee, and disposal fee.

D. The Contractor shall demolish the entire structure including the foundation, associated signposts, and post foundations which are located on the south side of the hangar, and haul debris to an authorized disposal site. The building is approximately 28,000 square feet (SF). See **Attachment A-4** for photos of the building.

E. The Contractor shall selectively demolish and dispose of asbestos-containing material and lead-based paint in accordance with Federal, State, and Local requirements. All removal shall be in accordance with the Texas Asbestos Health Protection rules. Third-party lead and asbestos monitoring will be contracted by the City. The Contractor shall follow the attached abatement work plan, see **Attachment A-2, A-3**.

F. The Contractor shall demolish all interior and exterior electrical systems and components back to the pad-mounted transformer. Service is to be

disconnected at transformer by AEP, the Contractor shall schedule all work with AEP.

G. The Contractor shall demolish all interior and exterior plumbing service lines back to the nearest service main.

H. The Contractor shall coordinate all utilities termination with the City to include: sewer, natural gas, water, and stormwater.

I. The Contractor shall grade and haul in topsoil as necessary to prevent water ponding and to promote positive drainage towards existing area inlets. Hydroseed and water as needed to establish vegetation. Topsoil is defined as the outer layer of soil, several inches deep, made up of clay, sand, and silt. Topsoil has gone through a screening process to remove debris and create a consistent texture. Topsoil will be required to bring the finished grade directly adjacent to the edge of the pavement. Topsoil will also be required to a uniform depth of 4 inches after compacting all fill areas and in areas where seeding and fertilizer are to be applied. The topsoil shall be evenly spread to all proposed areas. Spreading shall not be done when the ground or topsoil is frozen, excessively wet, or otherwise in a condition detrimental to the work. Spreading shall be carried on so that turfing operations can proceed with a minimum of soil preparation or tilling. After spreading, any large, stiff clods and hard lumps shall be broken with a pulverize or by other effective means, and all stones or rocks (2 inches or more in diameter), roots, litter, or any foreign matter shall be racked up and disposed of by the Contractor. After spreading is completed, the topsoil shall be lightly rolled and lightly packed to avoid displacement. The compacted topsoil surface shall conform to the required lines, grades, and cross sections to prevent the ponding of water. Any topsoil or other dirt falling upon pavements because of hauling or handling of topsoil shall be promptly removed.

J. Backfill material shall be made with select soil, free of rocks and debris, and shall be pneumatically tamped in six-inch layers to secure a field density ratio of 90 percent unless otherwise specified. Material for backfill shall be fine, readily compatible soil, granular material selected from the excavation, or a source of the Contractor's choosing. It shall not contain frozen lumps, stones that would be retained on a 2-inch sieve, chunks of high plastic clay, or other objectionable materials.

K. If any trench is required for the protection of existing pipes (ie. Stormwater drain), trenches shall not be excessively wet and shall not contain pools of water during backfilling operations. Trenches shall be completely backfilled and tamped level with the adjacent surface. Care shall be

exercised to thoroughly compact the backfill material under the haunches of the pipe. Material shall be brought up evenly on both sides of the pipe.

L. The Contractor shall be responsible for hauling water to the site. The Contractor shall provide general care of the seeded areas as soon as the Hydro seeding has been laid and shall continue until final inspection and acceptance of the work. This includes water and watering equipment to all seeded areas. Seeded areas will be kept moist until it has become established, and its continued growth assured. In all cases, watering shall be done in a manner that will avoid erosion from the application of excessive quantities and will avoid damage to the finished surface.

M. All building debris shall be removed from the site. There shall be no visible debris on site upon completion of the project.

N. Prior to any structural demolition, installation, or removal of fencing requires the approval and coordination of the Airport Public Safety office. Daily coordination is required to ensure the AOA area is not compromised and remains secured during the entire process.

O. The Contractor shall provide Temporary Airport Operations Area (AOA) Fencing. The fence must be 8' tall with 3 strained barbwire. The contractor cannot drill into the existing apron to secure a temporary AOA fence. The fence shall be physically connected to the existing fence on the south end AOA fence and up to the adjacent building on the North side. The fence shall be adequately secured to keep unauthorized personnel out of the AOA. The fence shall also have a mesh covering attached to the fence to prevent debris from entering the AOA.

The temporary fence must be metal chain-link. Any fence installed over natural ground shall be post-driven. The fence installed with existing pavement shall be secured using sandbags, water barrels, or another method that does not damage existing pavement and is priorly approved by CCIA Project Manager. The fence shall be secured so that an individual cannot push over the fence. The temporary chain-link fence must be approved by the CCIA Public Safety Office and Project Manager prior to installation. All costs associated with meeting the TSA fencing requirements and approval shall be incorporated into the bid. TSA and CCIA may inspect the fence periodically for compliance. It is the Contractor's responsibility to maintain this temporary fence to the approval of the TSA and CCIA throughout the duration of the project. The removal of the temporary fence at the end of the project shall be

considered subsidiary to the temporary chain link fence. Post holes within the natural ground and all disturbed areas shall be filled with the material to match the surrounding conditions and tamped flush with the surface.

The Contractor will have to obtain a CCIA badge to conduct work in the AOA area which requires to attend a class and associated fees described below.
Personnel entering the secured area must be in possession of and always display a valid airport identification badge or must be escorted by a person with a valid airport identification badge with escort privileges. Any person who is escorting individuals must always be in positive control of the escorted individuals. Any person who has been issued a badge, but is not in possession of the badge, may not enter the secured AOA. Airport identification badges may be obtained from the airport during regularly scheduled times for issuance of badges. There is a $45.00 charge for issuance of the badge and $100.00 if the badge is not returned within 30 days of expiration. All badges must be returned to the airport upon completion of the project unless directed otherwise by the airport. Any fine, including all associated costs, assessed by the airport for failure to maintain the security of the airport which is a direct result of the negligence of the prime contractor, any of his subcontractors, or any supply/delivery personnel, will be assessed to the prime contractor. The contractor must have enough personnel airport-issued badges with escort authorization present to maintain constant escort and positive control of all unbadged personnel while inside the airport security fence. The Contractor shall provide all expenses incurred associated with obtaining an airport badge shall be considered subsidiary to the overall project costs.

P. The Contractor shall provide a Temporary Construction Fence around the entire construction site prior to demolition.

Q. All loose debris shall be acquired at the end of every workday to prevent debris from blowing out of the controlled construction site.

R. The Contractor shall provide temporary controls to protect the occupied adjacent building from damage.

S. The Contractor shall provide stormwater protection and silt fencing around the entire construction perimeter.

T. The Contractor shall protect all underground utilities from damage, including the stormwater collection system running underneath the

building. Any damage shall be corrected by the Contractor at the Contractor's expense.

U. The Contractor shall provide adequate controls to prevent equipment from tracking debris out of the construction site and onto the airport roadways. Any debris tracked off-site shall be immediately cleaned the same day.

V. No explosives will be allowed for any demolition of any facility or infrastructure.

W. The Contractor shall install Permanent AOA Fencing which meets FAA requirements. The Contractor shall provide and install a new permanent hot-dipped galvanized 8' tall, 270' long, AOA fence with three strand barbed wire in accordance with items 1-5 below, in conformance with the supplied drawings and specification, only as it applies to this project scope, and to match existing fence material type and coating as shown in **Attachment A-4** photos 13-17. Alternate materials and/or coatings will not be accepted.

1. Demolish a small section of the fence and install a new section of fence as shown in **Attachment A-5**. The last fence pole and building connection point shall be no more than 3" apart.
2. All fence material, including but not limited to fabric, poles, braces, rails, ties, tension wire, hardware, barbed wire, extension arms, stretcher bars, stretcher bar bands, rebar anchors, grounding, and concrete shall be in conformance with F-162 Specifications provided in **Attachment A-6** only as it applies to this project scope.
3. Install new fence system in accordance with the details shown in **Attachment A-7** only as it applies to this project scope.
4. Install new concrete erosion control strip in accordance with details shown in **Attachment A-8** only as it applied to this project scope.
5. Install new grounding system in accordance with **Attachment A-9** only as it applies to this project scope. Grounding systems shall be installed at 50' intervals.

X. The Contractor shall repair any potential damage to the parking lot including existing pot holes, see **Attachment A-11.**

1.3 Work Site and Conditions

The work shall be performed at the CCIA located at: East Hanger 1 – 586 Hangar Lane, Corpus Christi, TX 78406, **see Attachment A-Site Map**.

1.4 Contractor Quality Control and Superintendence

The Contractor shall establish and maintain a complete Quality Control Program that is acceptable to the Contract Administrator to assure that the requirements of the Contract are provided as specified. The Contractor will also provide supervision of the work to insure it complies with the contract requirements.

1.5 Special Instructions

A. The Contractor shall report to the Project Manager or designee at the location upon arrival.

B. Any unauthorized changes or services performed by the Contractor will be the responsibility of the Contractor.

C. The Contractor shall clean and haul away all debris.

D. After completion of the inspection the Contractor shall report back to the Contract Administrator or designee.

1.6 Invoicing

The Contractor shall submit invoice for services to the City. The invoice shall include:

A. Work description, Purchase Order Number (PO#), Service Agreement Number, Location and date of service and labor hours.

B. Invoices shall be sent as follows: Original to CCIA Accounts Payable and a copy to John Johnson at JohnJ@cctexas.com and one to the Contract Administrator Victor Gonzalez at Victor@cctexas.com.

C. The Contractor shall include copies of the work order and contractor information provided by the Project Manager or designee. This is used as a back- up for the invoice. Approval for payment shall be authorized by the Contract Administrator.

D. Progress payments are not authorized. The invoice will be paid in full after completion and acceptance of the project.

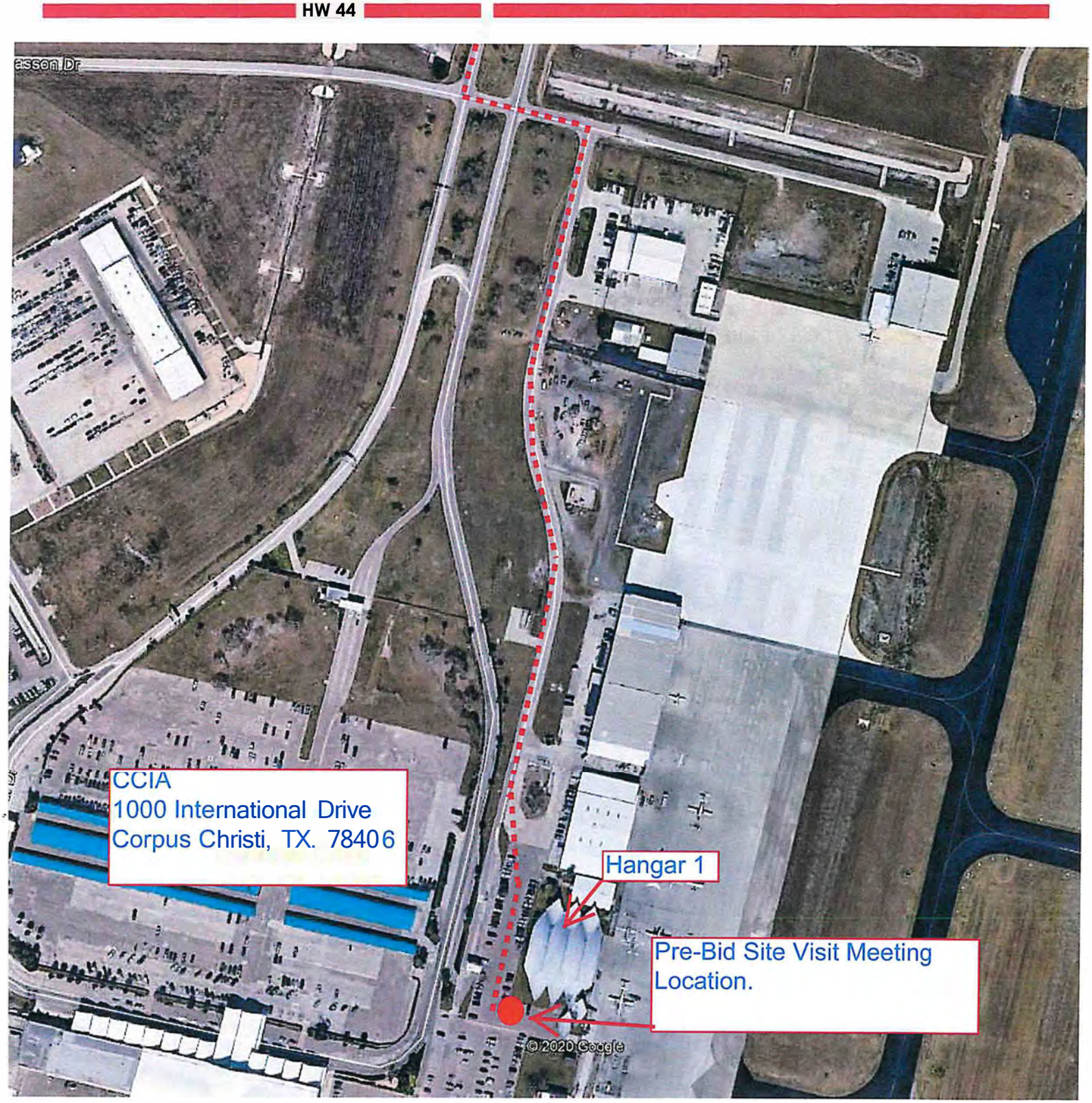
1.7 Bonds

The Contractor shall provide a payment bond if the estimate of this project exceeds
$50,000 and a performance bond if the estimate of this project exceeds $100,000 for the full amount of the contract. Insurance and bonds must be maintained throughout the term of the contract.

1.8 Scope of Work Attachments

Attachment A-Site Map
Attachment A-1 Discontinuation of City Utility Services
Attachment A-2 Lead-Based Paint Inspection Report
Attachment A-3 Asbestos Survey
Attachment A-4 Hangar One Building Photos
Attachment A-5 Fencing Map
Attachment A-6 F-162 Fence Specifications
Attachment A-7 New Fence Details
Attachment A-8 Concrete Erosion Control Strip Details
Attachment A-9 New Grounding System Details

Attachment A -Site Map



Discontinuation of City Utility Services

Upon Issuance of a Demolition or House Move Permit

Development Services Department

2406 Leopard St. Corpus Christi, TX 78408 | Phone: 361.826.3240 | Fax: 361.826.4375 | PermitRequests@cctexas.com

DATE: _____/_____/_____ Permit #_____

Check the type of permit that applies: ☒ Demolition ☐ House Move

Permit Address: _____
Street City Zip

Upon issuance of a Demolition or House Move permit, work shall not commence for a period of 72 hours, unless ALL public and private utility line locations have been identified and the removal of City Gas utility meters and service pipe lines has been performed. The location of underground utilities requires a 48 hour notification and the removal of any under / above ground City Gas utilities requires a 24 hour notification.

With my signature, I acknowledge that I understand and agree to abide by the policy;

_____ _____
Contractor Name (Printed) Contractor Signature

_____
Company Name

_____
Company Address

_____ _____
Email Telephone Number

_____ _____
Contact Name (Printed) Telephone Number

Asbestos Mold Inspections Coastal Bend

2732 S. Padre Island Drive • Corpus Christi, TX 78415
(361) 384-7776

www.asbestosmoldcoastalbend.com info@amicoastalbend.com

September 29, 2020

CB201220

Mr. Max Jones
Capital Improvements Program Manager
City of Corpus Christi
1201 Leopard Street
Corpus Christi, TX 78401
P: (361) 826-3389
E: maxj@cctexas.com

Re: Lead-Based Paint (LBP) Inspection Report
Corpus Christi International Airport – Hangar 1
586 Hangar Lane
Corpus Christi, Texas 78401
Project No.: CB-20-1220

Mr. Jones:

Pursuant to your request on September 23, 2020, Mr. Arthur Vallejo, Texas Department of State Health Services (TDSHS), Lead Inspector, #2060891, of Astex Environmental Services (Astex), TDSHS Lead Firm #2110460, inspected the above referenced site located at 586 Hangar Lane, Corpus Christi, Texas 78401 for the purpose of performing a visual examination as well as conducting a Lead-Based Paint (LBP) Survey. For this survey, Astex conducted lead-based paint testing utilizing a Niton X-Ray Fluorescence (XRF) portable paint analyzer.

Summary of Results

Utilizing the XRF, Astex secured a total of sixty-five (65) individual paint readings from randomly selected interior & exterior surfaces. In accordance with the Environmental Protection Agency (EPA), and the Federal Housing and Urban Development (HUD) Guidelines, all XRF readings with levels at or above 1.0 mg/cm² are considered to be *positive* for Lead content.

- **The gray door components located within the hangar analyzed above 1.0 mg/cm² and are identified as *positive* or lead containing. (See Photos)**

This XRF testing was conducted in order to pre-determine the potential representative lead content of the building's components and it is important to note that this limited testing is not intended to identify all painted components that are or are not lead-containing but rather give an indication of a potential lead hazard that may be present.

Conclusions

Based on the above OSHA criteria and XRF testing, the following Conclusions are offered:

- **A lead dust hazard is present on structural components for the hangar building.**

- **Since this building is neither categorized as "target housing" nor a "child-occupied facility," in accordance with the revised "HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" (HUD Guidelines), it is exempt from the Federal HUD Regulations and the Texas Environmental Lead Reduction Rules (TELRR); however, the Occupational Safety and Health (OSHA) definition that ANY lead content identified in paint could create a hazard of Lead Dust exposure if paint is deteriorated and/or disturbed.**

- **See XRF Component Specific Analytical Results attached.**

Recommendations

- OSHA Regulation, 29 CFR 1926.62(d)(1) indicates employees performing lead-related tasks (e.g. manual demolition of structures, manual scraping, manual sanding, heat gun applications, and power tool cleaning with dust collection systems) should be monitored for exposure to lead particulate. Each contractor performing tasks with personnel on-site during disturbance of LBP components are solely responsible for the respiratory program for said company and personnel.

- Each contractor performing tasks with personnel on-site during disturbance of LBP components are solely responsible for developing and communicating Engineering Controls to be implemented to reduce employee exposure to lead for said company and personnel.

- In the United States, the Resource Conservation and Recovery Act (RCRA) of 1976 led to establishment of federal standards for the disposal of solid waste and hazardous waste. RCRA requires that industrial wastes and other wastes must be characterized following testing protocols published by EPA.

    ~ A toxicity characteristic leaching procedure (TCLP) is a soil sample extraction method for chemical analysis employed as an analytical method to simulate leaching through a landfill. The testing methodology is used to determine if a waste is characteristically hazardous, i.e., classified as one of the "D" listed wastes by the U.S. Environmental Protection Agency (EPA). The extract is analyzed for substances appropriate to the protocol (for this application Lead TCLP).

- AES recommends at least one (1) TCLP Lead sample be collected and delivered to a certified and licensed laboratory for the characterization of lead content by volume for the appropriate waste stream disposal (a list of licensed laboratories may be provided by and AES representative upon request).

If you have any questions regarding any part of this report, please do not hesitate to call me at (210) 828-9800.

Sincerely,
Astex Environmental Services
TDSHS Lead Firm #2110460

Stephen Jimenez
TDSHS Lead Risk Assessor #2071040

XRF ANALYTICAL RESULTS

Astex Environmental Services
139 Braniff Drive
San Antonio, TX 78216

CCIAP Hanger 1

Index	Time	Type	Units	Room	Side	Component	Feature	Substrate	Results	Action Level	PbC
1	2020-09-23 10:47	PAINT	mg / cm ^2			CALIBRATION	lower		Negative	1.00	0.80 ± 0.20
2	2020-09-23 10:49	PAINT	mg / cm ^2	exterior	A	wall	lower	concrete	Null	1.00	1.10 ± 0.40
3	2020-09-23 10:50	PAINT	mg / cm ^2	exterior	A	wall	lower	concrete	Negative	1.00	< LOD : 0.16
4	2020-09-23 10:50	PAINT	mg / cm ^2	exterior	A	wall	lower	concrete	Negative	1.00	< LOD : 0.12
5	2020-09-23 10:55	PAINT	mg / cm ^2	exterior	A	wall	lower	metal	Negative	1.00	< LOD : 0.03
6	2020-09-23 10:55	PAINT	mg / cm ^2	exterior	A	wall	lower	metal	Negative	1.00	< LOD : 0.03
7	2020-09-23 10:55	PAINT	mg / cm ^2	exterior	A	wall	lower	metal	Negative	1.00	< LOD : 0.04
8	2020-09-23 10:56	PAINT	mg / cm ^2	exterior	B	wall	lower	metal	Negative	1.00	< LOD : 0.03
9	2020-09-23 10:56	PAINT	mg / cm ^2	exterior	B	wall	lower	concrete	Negative	1.00	< LOD : 0.06
10	2020-09-23 10:57	PAINT	mg / cm ^2	exterior	B	wall	lower	concrete	Negative	1.00	< LOD : 0.03
11	2020-09-23 10:57	PAINT	mg / cm ^2	exterior	B	door	trim	wood	Negative	1.00	< LOD : 0.04
12	2020-09-23 10:57	PAINT	mg / cm ^2	exterior	B	door	trim	wood	Negative	1.00	< LOD : 0.48
13	2020-09-23 10:58	PAINT	mg / cm ^2	exterior	B	door	trim	wood	Negative	1.00	< LOD : 0.06
14	2020-09-23 10:59	PAINT	mg / cm ^2	Bay	C	wall	lower	drywall	Negative	1.00	< LOD : 0.03
15	2020-09-23 10:59	PAINT	mg / cm ^2	Bay	C	wall	lower	wood	Negative	1.00	< LOD : 0.05
16	2020-09-23 11:00	PAINT	mg / cm ^2	Bay	C	column	lower	wood	Negative	1.00	< LOD : 0.43
17	**2020-09-23 11:07**	**PAINT**	**mg / cm ^2**	**Bay**	**C**	**door**	**door**	**wood**	**Positive**	**1.00**	**1.10 ± 0.10**
18	**2020-09-23 11:07**	**PAINT**	**mg / cm ^2**	**Bay**	**C**	**door**	**door**	**wood**	**Positive**	**1.00**	**1.20 ± 0.20**
19	2020-09-23 11:07	PAINT	mg / cm ^2	Bay	C	door	door	wood	Negative	1.00	< LOD : 0.03
20	2020-09-23 11:08	PAINT	mg / cm ^2	Bay	C	door	trim	wood	Negative	1.00	< LOD : 0.04
21	**2020-09-23 11:08**	**PAINT**	**mg / cm ^2**	**Bay**	**C**	**door**	**trim**	**wood**	**Positive**	**1.00**	**1.20 ± 0.20**
22	2020-09-23 11:08	PAINT	mg / cm ^2	Bay	C	door	trim	wood	Negative	1.00	< LOD : 0.05
23	2020-09-23 11:10	PAINT	mg / cm ^2	Bay	C	wall	lower	drywall	Negative	1.00	< LOD : 0.03
24	2020-09-23 11:11	PAINT	mg / cm ^2	Bay	B	wall	lower	metal	Negative	1.00	< LOD : 0.17
25	2020-09-23 11:11	PAINT	mg / cm ^2	Bay	B	wall	lower	metal	Negative	1.00	< LOD : 0.25
26	2020-09-23 11:12	PAINT	mg / cm ^2	Bay	B	wall	lower	metal	Negative	1.00	< LOD : 0.40
27	2020-09-23 11:13	PAINT	mg / cm ^2	Bay	B	wall	support beam	metal	Negative	1.00	< LOD : 0.11
28	2020-09-23 11:13	PAINT	mg / cm ^2	Bay	B	wall	support beam	metal	Negative	1.00	< LOD : 0.20
29	2020-09-23 11:14	PAINT	mg / cm ^2	Bay	B	wall	support beam	metal	Negative	1.00	< LOD : 0.11
30	2020-09-23 11:17	PAINT	mg / cm ^2	Bay	A	wall	trim	wood	Negative	1.00	< LOD : 0.03
31	2020-09-23 11:17	PAINT	mg / cm ^2	Bay	A	wall	lower	wood	Negative	1.00	< LOD : 0.04
32	2020-09-23 11:17	PAINT	mg / cm ^2	Bay	A	wall	upper	drywall	Negative	1.00	< LOD : 0.03
33	2020-09-23 11:19	PAINT	mg / cm ^2	Bay	A	door	door	metal	Negative	1.00	< LOD : 0.03
34	2020-09-23 11:19	PAINT	mg / cm ^2	Bay	A	door	trim	wood	Negative	1.00	< LOD : 0.03
35	2020-09-23 11:22	PAINT	mg / cm ^2	Bay	A	wall	lower	drywall	Negative	1.00	< LOD : 0.03

Astex Environmental Services
139 Braniff Drive
San Antonio, TX 78216

CCIAP Hanger 1

Index	Time	Type	Units	Room	Side	Component	Feature	Substrate	Results	Action Level	PbC
36	2020-09-23 11:22	PAINT	mg / cm ^2	Bay	A	wall	lower	drywall	Negative	1.00	< LOD : 0.03
37	2020-09-23 11:23	PAINT	mg / cm ^2	Bay	D	wall	lower	drywall	Negative	1.00	< LOD : 0.03
38	2020-09-23 11:23	PAINT	mg / cm ^2	Bay	D	wall	lower	drywall	Negative	1.00	< LOD : 0.03
39	2020-09-23 11:23	PAINT	mg / cm ^2	Bay	D	ceiling	upper	drywall	Negative	1.00	< LOD : 0.03
40	2020-09-23 11:24	PAINT	mg / cm ^2	Bay	D	ceiling	upper	drywall	Negative	1.00	< LOD : 0.03
41	2020-09-23 11:24	PAINT	mg / cm ^2	Bay	D	door	casing	wood	Negative	1.00	< LOD : 0.04
42	2020-09-23 11:24	PAINT	mg / cm ^2	Bay	D	door	trim	wood	Negative	1.00	< LOD : 0.03
43	2020-09-23 11:26	PAINT	mg / cm ^2	Bay	D	shelves	shelf	wood	Negative	1.00	< LOD : 0.03
44	2020-09-23 11:27	PAINT	mg / cm ^2	Bay	D	wall	lower	drywall	Negative	1.00	< LOD : 0.03
45	2020-09-23 11:28	PAINT	mg / cm ^2	Bay	D	wall	lower	drywall	Negative	1.00	< LOD : 0.03
46	2020-09-23 11:31	PAINT	mg / cm ^2	Bay	D	wall	lower	wood	Negative	1.00	< LOD : 0.03
47	2020-09-23 11:31	PAINT	mg / cm ^2	Bay	D	wall	baseboard	wood	Negative	1.00	< LOD : 0.04
48	2020-09-23 11:31	PAINT	mg / cm ^2	Bay	D	door	casing	wood	Negative	1.00	< LOD : 0.43
49	2020-09-23 11:32	PAINT	mg / cm ^2	Bay	D	door	trim	wood	Negative	1.00	< LOD : 0.18
50	**2020-09-23 11:32**	**PAINT**	**mg / cm ^2**	**Bay**	**D**	**door**	**door**	**wood**	**Positive**	**1.00**	**2.60 ± 1.60**
51	**2020-09-23 11:32**	**PAINT**	**mg / cm ^2**	**Bay**	**D**	**door**	**door**	**wood**	**Positive**	**1.00**	**2.30 ± 1.20**
52	2020-09-23 11:35	PAINT	mg / cm ^2	exterior	A	window	casing	metal	Negative	1.00	< LOD : 0.03
53	2020-09-23 11:35	PAINT	mg / cm ^2	exterior	A	window	casing	metal	Negative	1.00	< LOD : 0.03
54	2020-09-23 11:36	PAINT	mg / cm ^2	exterior	A	window	casing	metal	Negative	1.00	< LOD : 0.03
55	2020-09-23 11:37	PAINT	mg / cm ^2	interior	A	window	casing	metal	Negative	1.00	< LOD : 0.03
56	2020-09-23 11:39	PAINT	mg / cm ^2	counter	A	built-in	casing	wood	Negative	1.00	< LOD : 0.03
57	2020-09-23 11:41	PAINT	mg / cm ^2	AC clodeu	A	wall	upper	wood	Negative	1.00	< LOD : 0.03
58	2020-09-23 11:41	PAINT	mg / cm ^2	AC clodeu	A	wall	lower	drywall	Negative	1.00	< LOD : 0.03
59	2020-09-23 11:42	PAINT	mg / cm ^2	interior	A	door	door	wood	Negative	1.00	< LOD : 0.04
60	2020-09-23 11:42	PAINT	mg / cm ^2	interior	A	door	door	wood	Negative	1.00	< LOD : 0.06
61	2020-09-23 11:43	PAINT	mg / cm ^2	interior	A	door	casing	wood	Negative	1.00	< LOD : 0.82
62	2020-09-23 11:43	PAINT	mg / cm ^2	interior	A	door	casing	wood	Negative	1.00	< LOD : 0.58
63	2020-09-23 11:43	PAINT	mg / cm ^2	interior	A	wall	lower	wood	Negative	1.00	< LOD : 0.03
64	2020-09-23 11:44	PAINT	mg / cm ^2	interior	A	wall	baseboard	wood	Negative	1.00	< LOD : 0.04
65	2020-09-25 09:54	SHUTTER_CAL	cps								1.42 ± 0.00

PHOTOS

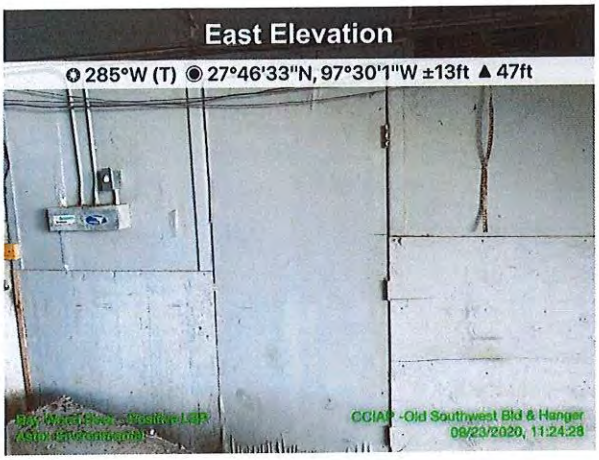


Photo 01

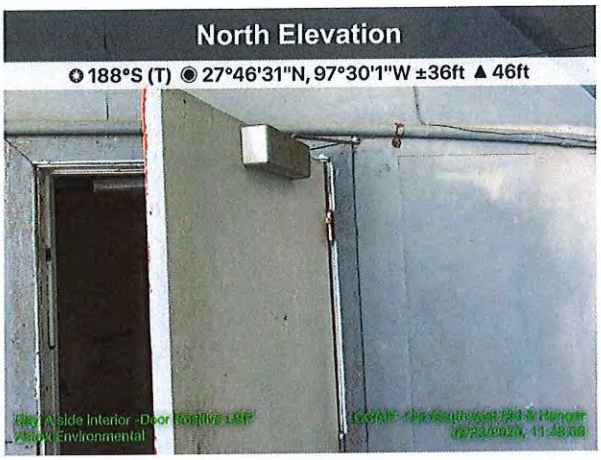


Photo 02

LICENSES / CERTIFICATIONS

Texas Department of State Health Services

BE IT KNOWN THAT

JEFF ZUNKER SPECIALTY PRODUCTS INC DBA ASTEX ENVIRONMENTAL SERVICES

is certified to perform as a

Lead Firm

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

Certification Number: 2110460

Expiration Date: 11/05/2020

John Hellerstedt, M.D.,
Commissioner of Health

Control Number: 7023

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

SEE BACK

Department of State Health Services certifies that
STEPHEN P JIMENEZ
is certified as a
Lead Risk Assessor
Certification No: 2071040
Control No: 7611
Expires: 4/26/2021

John Hellerstedt, M.D.,
Commissioner of Health

Texas Department of State Health Services

BE IT KNOWN THAT

STEPHEN P JIMENEZ

is certified to perform as a

Lead Risk Assessor

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

Certification Number: 2071040

Expiration Date: 04/26/2021

John Hellerstedt, M.D.,
Commissioner of Health

Control Number: 7611

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

SEE BACK

Asbestos Mold Inspections Coastal Bend

2732 S. Padre Island Drive • Corpus Christi, TX 78415
(361) 384-7776

www.asbestosmoldcoastalbend.com info@amicoastalbend.com

September 29, 2020

CB201220

Mr. Max Jones
Capital Improvements Program Manager
City of Corpus Christi
1201 Leopard Street
Corpus Christi, Texas 78401
P: (361) 826-3389
E: maxj@cctexas.com

Re: Pre-Demolition Asbestos Survey
Corpus Christi International Airport – Hangar 1
586 Hangar Lane
Corpus Christi, Texas 78401
Project No: CB-20-1220

Mr. Jones:

The following are the results of the asbestos testing conducted by Mr. Art Vallejo, Texas Department of State Health Services (TDSHS) Asbestos Inspector License #60-2313, of Astex Environmental Services (AES) at the above referenced project. On September 23, 2020, a total of thirty-nine (39) samples of suspect asbestos containing building materials were collected and sent to Environmental Analytical Services, L.L.C., Houston, Texas, TDSHS Laboratory License No.: 30-0373, for analysis by Polarized Light Microscopy (PLM) in accordance with EPA 600/R-93/116 Method.

Asbestos is a naturally occurring mineral that is distinguished from other minerals by the fact that it occurs in long, thin fibers. Its characteristics are that it does not burn, it is strong, it conducts heat and electricity poorly, and it is impervious to chemical corrosion, therefore, asbestos was utilized in numerous construction materials. Typically, asbestos containing materials (ACM) can be found as: fireproofing material on the steel beams of multi-story buildings; roofing shingles, felts, and tars; floor tiles and mastic, acoustic ceiling and wall textures; joint compound; and Thermal System Insulation (TSI) for pipes, ducts, and joints. Over a period of years these asbestos-containing materials may become friable, that is pulverized by hand pressure, thus releasing fibers into the air.

Limitations:
The results, findings and conclusions documented in this report are based solely on conditions observed the day(s) of the inspection (Photos **Appendix B**, if applicable). AES and its assigns make no representations or assumptions as to past or future conditions of the premises or building material content. AES representatives executed the enclosed ACBM inspection in areas (as directed by those authorizing the work to be done) that may be impacted during future

maintenance, renovation or demolition tasks. Unless directed otherwise, inspection methods used were non-destructive; that is, existing materials were not significantly disturbed or demolished in order to verify the presence of hidden ACBM. As in all ACBM testing events, bulk samples (small physical specimens) are required and were collected in the most discrete method possible in order to maintain the visual appearance of the premises. AES is not responsible for damage or repair to areas where bulk samples were required to satisfy the authorized work to be completed.

The building owner, tenant, personnel and their authorized contractors are solely responsible for reviewing and communicating with their personnel the content of the enclosed ACBM's tested (whether they tested positive for ACM or not). Furthermore, inaccessible materials (i.e. areas where no access was possible or permitted) were not documented or tested. Additional materials found that do not appear to match the description of the enclosed sample results must be tested prior to disturbance. Materials visually identified as non-asbestos were not sampled (i.e. fiberglass, foam rubber, wood, carpet, glass, etc).

As authorized, this report has been generated to comply with regulatory requirements and assist in the identification of ACBM at the project site. The enclosed is not intended to be utilized as a State required asbestos abatement work plan (Design Specification) or as a bidding document for asbestos abatement. AES licensed and certified personnel are available to assist with said documentation if it is required for this project.

Laboratory Results

The results are detailed below, and the laboratory analytical sheets can be found in the Appendix.

Sample No.	Material	Location	Results
1220-01	Acoustic Ceiling Material	Main Building, Office Spaces	None Detected
1220-02	Acoustic Ceiling Material	Main Building, Office Spaces	None Detected
1220-03	Acoustic Ceiling Material	Main Building, Office Spaces	None Detected
1220-04	Ceramic Floor/Grout	Main Building, Office Spaces	None Detected
1220-05	Ceramic Floor/Grout	Main Building, Office Spaces	None Detected
1220-06	Ceramic Floor/Grout	Main Building, Office Spaces	None Detected
1220-07	Sheetrock/Joint Compound	Main Building, Office Spaces	None Detected
1220-08	Sheetrock/Joint Compound	Main Building, Office Spaces	None Detected
1220-09	Sheetrock/Joint Compound	Main Building, Office Spaces	None Detected
1220-10	Vinyl Floor Tile/Mastic (Tan)	Main Building, Office Spaces	None Detected
1220-11	Vinyl Floor Tile/Mastic (Tan)	Main Building, Office Spaces	None Detected
1220-12	Vinyl Floor Tile/Mastic (Tan)	Main Building, Office Spaces	None Detected
1220-13	Popcorn Ceiling Texture	Main Building, Office Spaces	None Detected
1220-14	Popcorn Ceiling Texture	Main Building, Office Spaces	None Detected
1220-15	Popcorn Ceiling Texture	Main Building, Office Spaces	None Detected
1220-16	Duct Insulation Mastic	Main Building, Office Spaces	None Detected
1220-17	Duct Insulation Mastic	Main Building, Office Spaces	None Detected

Sample No.	Material	Location	Results
1220-18	Duct Insulation Mastic	Main Building, Office Spaces	None Detected
1220-19	Duct Insulation Mastic	Inside Bay 1	None Detected
1220-20	Duct Insulation Mastic	Inside Bay 1	None Detected
1220-21	Duct Insulation Mastic	Inside Bay 1	None Detected
1220-22	Sheetrock/Joint Compound (Grey Wall)	Inside Bay 1	Point Count: 0.75%, Chrysotile
1220-23	Sheetrock/Joint Compound (Tan Wall)	Inside Bay 1	Point Count: 0.50%, Chrysotile
1220-24	Sheetrock/Joint Compound (Blue Wall)	Inside Bay 1	Point Count: 0.75%, Chrysotile
1220-25	**Fiber Glass Seam Mastic (Black)**	**Inside Bay 1**	**Mastic: 5%, Chrysotile**
1220-26	**Fiber Glass Seam Mastic (Black)**	**Inside Bay 1**	**Not Analyzed Positive Stop**
1220-27	**Fiber Glass Seam Mastic (Black)**	**Inside Bay 1**	**Not Analyzed Positive Stop**
1220-28	Seam Caulk (White)	Inside Bay 1, Metal Support	None Detected
1220-29	Seam Caulk (White)	Inside Bay 1, Metal Support	None Detected
1220-30	Seam Caulk (White)	Inside Bay 1, Metal Support	None Detected
1220-31	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-32	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-33	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-34	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-35	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-36	Roof Vapor Barrier	Exterior Cement Roof	None Detected
1220-37	Exterior Window Caulking	Exterior Window	None Detected
1220-38	Exterior Window Caulking	Exterior Window	None Detected
1220-39	Exterior Window Caulking	Exterior Window	None Detected

CONCLUSIONS AND RECOMMENDATIONS:

Based on the analytical results found in **Appendix A**, the following conclusions and recommendations are offered:

1. **The following building materials have been laboratory analyzed to be asbestos containing and must be removed by a Texas licensed Asbestos Abatement Contractor prior to the materials being disturbed during renovation/demolition:**

   - **All Black Seam Mastic within Bay 1 and where found throughout**

2. **The asbestos containing material listed above must be removed under the supervision of a Texas Asbestos Consultant prior to renovation/demolition.**

3. **The Texas Asbestos Health Protection Rules (TAHPR) require all abatement or removal projects not under an Operation and Maintenance Program be designed (specifications and drawings) by a Texas licensed Asbestos Designer (e.g. Astex Environmental Services). Additionally, a TDSHS Licensed Project Manager/Air Monitor must monitor all projects.**

If you or any permitting agencies have questions regarding this report I can be reached at (210) 828-9800.

Sincerely,

9.29-20

Stephen Jimenez — Date
Astex Environmental Services
TDSHS Asbestos Consultant #10-5764

APPENDIX A

LABORATORY ANALYTICAL RESULTS

Environmental Analytical Services, LLC

13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942
www.easlabs.com | facebook.com/easlabs | info@easlabs.com

Test: EPA 600/R-93/116
Polarized Light Microscopy

Client Information:
Asbestos Mold Inspections Coastal Bend
2732 S Padre Island Dr
Corpus Christi,TX 78415
Phone: 210-828-9800
E-Mail: jeffzunker@astexinc.com

Project:
Corpus Christi Int'l Airport, Old SW Bldg (Hanger 1)
589 Hager Ln, Corpus Christi, TX 78406
CB-20-1220
EAS Job: 20092505
Attn: Jeff Zunker

Date Analyzed: 09/28/2020 02:05 PM
Date Received: 09/25/2020 09:26 AM
TAT Requested: 1 Day
Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-01 20092505.01	A	White Material Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-02 20092505.02	A	White Material Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-03 20092505.03	A	White Material Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-04 20092505.04	A	White Flooring Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-04 20092505.04	B	Gray Granular Mortar Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-05 20092505.05	A	White Flooring Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0
TDSHS License No. 300373
LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By: Terry Brindley
Terry Brindley

Approved Signatory: Terry Brindley
Terry Brindley

Environmental Analytical Services, LLC

13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942
www.easlabs.com | facebook.com/easlabs | info@easlabs.com

Test: EPA 600/R-93/116
Polarized Light Microscopy

Client Information:
Asbestos Mold Inspections Coastal Bend
2732 S Padre Island Dr
Corpus Christi,TX 78415
Phone: 210-828-9800
E-Mail: jeffzunker@astexinc.com

Project:
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589 Hager Ln, Corpus Christi, TX 78406
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EAS Job: 20092505
Attn: Jeff Zunker

Date Analyzed: 09/28/2020 02:05 PM
Date Received: 09/25/2020 09:26 AM
TAT Requested: 1 Day
Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-05 20092505.05	B	Gray Granular Mortar Homogeneous	**NO**	**None Detected**		Other Non-Fibrous 100%
BS-06 20092505.06	A	White Flooring Homogeneous	**NO**	**None Detected**		Other Non-Fibrous 100%
BS-06 20092505.06	B	Gray Granular Mortar Homogeneous	**NO**	**None Detected**		Other Non-Fibrous 100%
BS-07 20092505.07	A	White Texture Non-Homogeneous	**NO**	**None Detected**	Cellulose 2%	Binders / Paint 98%
BS-07 20092505.07	B	White Joint Compound Homogeneous	**NO**	**None Detected**	Cellulose 2%	Binders 98%

NVLAP Lab Code: 200784-0
TDSHS License No. 300373
LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By: Terry Brindley
Terry Brindley

Approved Signatory: Terry Brindley
Terry Brindley

Environmental Analytical Services, LLC

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Houston, Texas 77040
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Test: EPA 600/R-93/116
Polarized Light Microscopy

Client Information:
Asbestos Mold Inspections Coastal Bend
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E-Mail: jeffzunker@astexinc.com

Project:
Corpus Christi Int'l Airport, Old SW Bldg (Hanger 1)
589 Hager Ln, Corpus Christi, TX 78406
CB-20-1220
EAS Job: 20092505
Attn: Jeff Zunker

Date Analyzed: 09/28/2020 02:28 PM
Date Received: 09/25/2020 09:26 AM
TAT Requested: 1 Day
Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-07 20092505.07	C	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
BS-08 20092505.08	A	White Texture Non-Homogeneous	NO	None Detected	Cellulose 2%	Binders / Paint 98%
BS-08 20092505.08	B	White Joint Compound Homogeneous	NO	None Detected	Cellulose 2%	Binders 98%
BS-08 20092505.08	C	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
BS-09 20092505.09	A	White Texture Non-Homogeneous	NO	None Detected	Cellulose 2%	Binders / Paint 98%

NVLAP Lab Code: 200784-0
TDSHS License No. 300373
LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:
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Terry Brindley

Approved Signatory: Terry Brindley
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Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-09 20092505.09	B	White Joint Compound Homogeneous	NO	None Detected	Cellulose 2%	Binders 98%
BS-09 20092505.09	C	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
BS-10 20092505.10	A	Tan Floor Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-10 20092505.10	B	Yellow Mastic Homogeneous	NO	None Detected	Cellulose 2%	Adhesive 98%
BS-11 20092505.11	A	Tan Floor Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-11 20092505.11	B	Yellow Mastic Homogeneous	NO	None Detected	Cellulose 2%	Adhesive 98%

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Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-12 20092505.12	A	Tan Floor Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-12 20092505.12	B	Yellow Mastic Homogeneous	NO	None Detected	Cellulose 2%	Adhesive 98%
BS-13 20092505.13	A	White Popcorn Texture Homogeneous	NO	None Detected	Cellulose 2%	Binders 98%
BS-14 20092505.14	A	White Popcorn Texture Homogeneous	NO	None Detected	Cellulose 2%	Binders 98%
BS-15 20092505.15	A	White Popcorn Texture Homogeneous	NO	None Detected	Cellulose 2%	Binders 98%
BS-16 20092505.16	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%

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Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-16 20092505.16	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
BS-17 20092505.17	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%
BS-17 20092505.17	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
BS-18 20092505.18	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%
BS-18 20092505.18	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	

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Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-19 20092505.19	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%
BS-19 20092505.19	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
BS-20 20092505.20	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%
BS-20 20092505.20	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
BS-21 20092505.21	A	Gray Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Fiberglass 20%	Other Non-Fibrous 80%

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Date Analyzed: 09/28/2020 02:37 PM
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TAT Requested: 1 Day
Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-21 20092505.21	B	Yellow Fibrous Insulation Homogeneous	**NO**	**None Detected**	Fiberglass 100%	
BS-22 20092505.22	A	White Texture Non-Homogeneous	**YES**	**Chrysotile 2%**		Binders / Paint 98%
BS-22 20092505.22	B	White Joint Compound Homogeneous	**YES**	**Chrysotile 2%**		Binders 98%
BS-22 20092505.22	C	Brown/White Fibrous Drywall Non-Homogeneous	**NO**	**None Detected**	Cellulose 20%	Binders 80%
BS-23 20092505.23	A	White Texture Non-Homogeneous	**YES**	**Chrysotile 2%**		Binders / Paint 98%

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Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-23 20092505.23	B	White Joint Compound Homogeneous	**YES**	**Chrysotile 2%**		Binders 98%
BS-23 20092505.23	C	Brown/White Fibrous Drywall Non-Homogeneous	**NO**	**None Detected**	Cellulose 20%	Binders 80%
BS-24 20092505.24	A	White Texture Non-Homogeneous	**YES**	**Chrysotile 2%**		Binders / Paint 98%
BS-24 20092505.24	B	White Joint Compound Homogeneous	**YES**	**Chrysotile 2%**		Binders 98%
BS-24 20092505.24	C	Brown/White Fibrous Drywall Non-Homogeneous	**NO**	**None Detected**	Cellulose 20%	Binders 80%

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Date Analyzed: 09/28/2020 02:17 PM
Date Received: 09/25/2020 09:26 AM
TAT Requested: 1 Day
Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-25 20092505.25	A	Black Mastic Homogeneous	**YES**	**Chrysotile 5%**	Wollastonite 5%	Bitumen 90%
BS-26 20092505.26		Not Analyzed Postive Stop				
BS-27 20092505.27		Not Analyzed Postive Stop				
BS-28 20092505.28	A	White Caulk Homogeneous	**NO**	**None Detected**	Cellulose 2%	Other Non-Fibrous 98%
BS-29 20092505.29	A	White Caulk Homogeneous	**NO**	**None Detected**	Cellulose 2%	Other Non-Fibrous 98%
BS-30 20092505.30	A	White Caulk Homogeneous	**NO**	**None Detected**	Cellulose 2%	Other Non-Fibrous 98%

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Microscope: PLM Olympus BH-2

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-31 20092505.31	A	Black/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-32 20092505.32	A	Black/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-33 20092505.33	A	Black/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-34 20092505.34	A	Brown/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-35 20092505.35	A	Brown/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%
BS-36 20092505.36	A	Brown/Silver Vapor Barrier Non-Homogeneous	NO	None Detected		Other Non-Fibrous 100%

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Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-37 20092505.37	A	Black Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
BS-38 20092505.38	A	Black Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
BS-39 20092505.39	A	Black Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%

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Analyzed By: Terry Brindley
Terry Brindley

Approved Signatory: Terry Brindley
Terry Brindley

20092505

Environmental Analytical Services, LLC

13201 Northwest Freeway Suite 503,
Houston Texas 77040
(281) 850-4892 • Fax (713) 934-9942
E-mail easlabs@aol.com
Lone Star Overnight Account #123757

AMICB

* Job ID:20092505

Asbestos Mold Inspections Coastal Bend

CHAIN OF CUSTODY

~~Astex Environmental Services~~ 139 Braniff Drive San Antonio, Texas 78216	Project Name **Corpus Christi International Airport** **Old Southwest building - (Hanger 1)**

Project #	**CB-20-1220**		Analysis:	**PLM 3Q**
Address:	**589 Hager Lane**		Note:	**Z5832599**
City, State:	**Corpus Christi, TX 78406**		Date:	**9/3/20**

TURNAROUND TIME: ☐ 2 Hour ☐ 8 Hour X 24 HOURS (Rush)
☐ 2 Day ☐ 5 DAY (ROUTINE) ☐ OTHER: **Positive Stop On Non Friable**
(Specify)

(**NOTE**: All Turnaround Times are based on the Date / Time the Sample is received by the Laboratory)

	Sample Number	Location	Description
1.	BS-01	Main Building Office spaces	Spray-on Ceiling material
2.	BS-02	Main Building Office spaces	Spray-on Ceiling material
3.	BS-03	Main Building Office spaces	Spray-on Ceiling material
4.	BS-04	Main Building Office spaces	4 x 2 Granite floor material w black mortar
5.	BS-05	Main Building Office spaces	4 x 2 Granite floor material w black mortar
6.	BS-06	Main Building Office spaces	4 x 2 Granite floor material w black mortar
7.	BS-07	Main Building Office spaces	Sheetrock / joint compound
8.	BS-08	Main Building Office spaces	Sheetrock / joint compound
9	BS-09	Main Building Office spaces	Sheetrock / joint compound
10.	BS-10	Main Building Office spaces	(Tan) - 12 x 12 floor tile w Adhesive
11.	BS-11	Main Building Office spaces	(Tan) - 12 x 12 floor tile w Adhesive
12.	BS-12	Main Building Office spaces	(Tan) - 12 x 12 floor tile w Adhesive
13.	BS-13	Main Building Office spaces	Popcorn Ceiling Texture
14.	BS-14	Main Building Office spaces	Popcorn Ceiling Texture
15.	BS-15	Main Building Office spaces	Popcorn Ceiling Texture
16.	BS-16	Main Building Office spaces	HVAC Duct mastic & Insulation
17.	BS-17	Main Building Office spaces	HVAC Duct mastic & Insulation
18.	BS-18	Main Building Office spaces	HVAC Duct mastic & Insulation
19.	BS-19	Inside Bay 1	HVAC Duct mastic & Insulation
20.	BS-20	Inside Bay 1	HVAC Duct mastic & Insulation
21.	BS-21	Inside Bay 1	HVAC Duct mastic & Insulation
22.	BS-22	Inside Bay 1	Sheetrock / joint compound (Grey wall)
23.	BS-23	Inside Bay 1	Sheetrock / joint compound (Tan wall)
24.	BS-24	Inside Bay 1	Sheetrock / joint compound (Blue wall)
25.	BS-25	Inside Bay 1	Fiber glass seam mastic (Black)
26.	BS-26	Inside Bay 1	Fiber glass seam mastic (Black)
27.	BS-27	Inside Bay 1	Fiber glass seam mastic (Black)
28.	BS-28	Inside Bay 1 Metal Support wall beams	Seam caulk (white)
29.	BS-29	Inside Bay 1 Metal Support wall beams	Seam caulk (white)

9-25-20 9:26am

20092505

30.	BS-30	Inside Bay 1 Metal Support wall beams	Seam caulk (white)
31.	BS-31	On Exterior of Cement Roof	Roof Vapor Barrier material
32.	BS-32	On Exterior of Cement Roof	Roof Vapor Barrier material
33.	BS-33	On Exterior of Cement Roof	Roof Vapor Barrier material
34.	BS-34	On Exterior of Cement Roof	Roof Vapor Barrier material
35.	BS-35	On Exterior of Cement Roof	Roof Vapor Barrier material
36.	BS-36	On Exterior of Cement Roof	Roof Vapor Barrier material
37.	BS-37	Exterior on window casing seams	Window caulk
38.	BS-38	Exterior on window casing seams	Window caulk
39.	BS-39	Exterior on window casing seams	Window caulk

Relinquished By: _____ 9-4-20
(Signature) Date and Time:

Accepted By: Chris Mclean 9-25-20 9:26a
(Signature) Date and Time:

Environmental Analytical Services, LLC

13201 Northwest Freeway Suite 520
Houston, Texas 77040
phone 713-343-4017 • fax 713-934-9942
www.easlabs.com • facebook.com/easlabs • info@easlabs.com

Point Count Method by Polarized Light Microscopy Analysis
(EPA 600/R-93/116)

Asbestos Mold Inspections Coastal Bend
2732 S Padre Island Dr
Corpus Christi, TX 78415
361-384-7776
info@amicoastalbend.com

Project:
Corpus Christi Int'l Airport
SW Bldg (Hanger 1)
589 Hager Ln
Corpus Christi, TX 78406
CB-20-1220
EAS Job #: 20092505
Attn: Mr. Jeff Zunker

Date Analyzed: September 28, 2020

Date Received: September 28, 2020

Microscope: Olympus-CH-40
Analysis Time Requested: 2 hour

Sample#	Layer	Sample Description	Homo-Geneous (Y/N)	Asbestos Detected? Yes/No	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
BS-22 20092505.22	A	White Texture	NO	**YES**	**0.75% Chrysotile**		
BS-22 20092505.22	B	White Joint Compound	YES	**YES**	**0.50% Chrysotile**		
BS-23 20092505.23	A	White Texture	NO	**YES**	**0.50% Chrysotile**		
BS-23 20092505.23	B	White Joint Compound	YES	**YES**	**0.25% Chrysotile**		
BS-24 20092505.24	A	White Texture	NO	**YES**	**0.75% Chrysotile**		
BS-24 20092505.24	B	White Joint Compound	YES	**YES**	**0.50% Chrysotile**		

NVLAP Lab Code: 200784-0
TDSHS # 300373
Page 1 of 1

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small too be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test reports relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from Environmental Analytical Services.

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Analyzed by: Terry Brindley
Terry Brindley

Approved Signatory:
Arthur Hernandez

Environmental Analytical Services, LLC

13201 Northwest Freeway Suite 520
Houston, Texas 77040
(713) 343-4017• Fax (713) 934-9942
E-mail easlabs@aol.com
Lone Star Overnight Account #123757

CHAIN OF CUSTODY

* Job ID:20092505

Asbestos Mold Inspections Coastal Bend

Asbestos Mold Inspections Coastal Bend 2732 S Padre Island Dr Corpus Christi, TX 78415	(Project Name) Corpus Christi Int'l Airport SW Bldg (Hangar 1) 589 Hagar Ln, Corpus Christi, TX 78406	
Number & Type of Sample: 3 PTCT	Project Number CB-20-1220	P.O. Number

TURNAROUND TIME ☒ 2 Hour ☐ 8 Hour ☐ 24 Hours
☐ 2 Day ☐ 3 Day ☐ 5 Day (ROUTINE) ☐ OTHER: _____ (Specify)

(**NOTE**: All Turnaround Times are based on the Date / Time the Sample is received by the Laboratory)

Contact Person: Jeff Zunker Phone: (210) 828-9800 E-mail info@amicoastalbend.com
Special Instructions: _____

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION (See attached description)
BS-22		Texture, Joint Compound
BS-23		
BS-24		

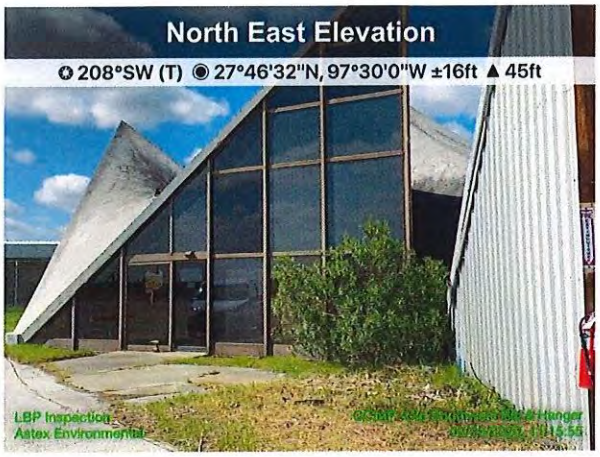
(email)

Relinquished By: Margarita Sandoval 9-28-20 3:32pm Accepted By: Chris Mabee 9-28-20 3:32pm
(signature) Date and Time: (signature) Date and Time:

Page ___ of ___

APPENDIX B

PHOTOGRAPHS



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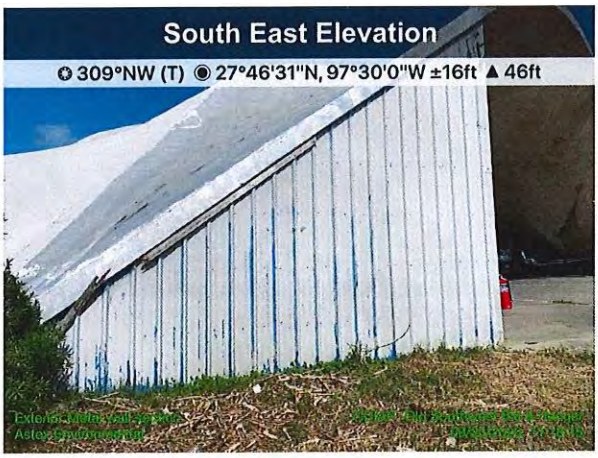

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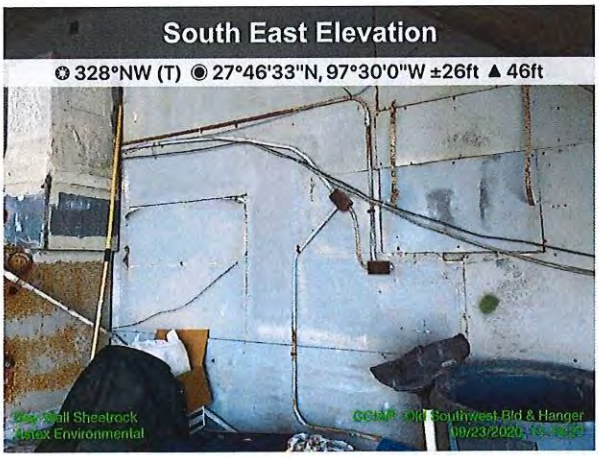

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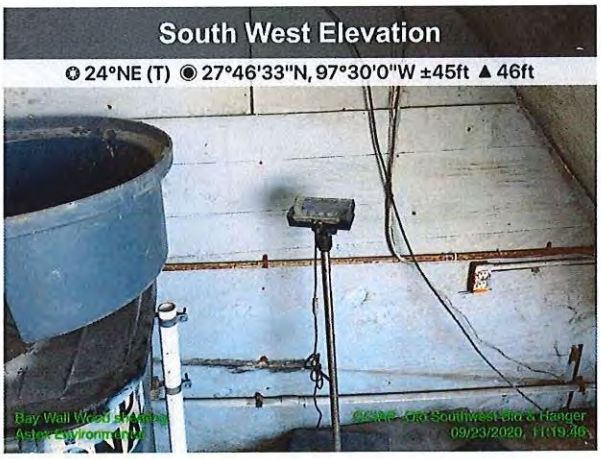

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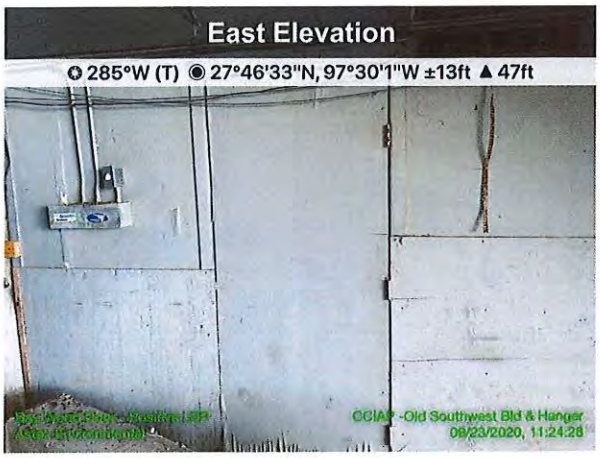

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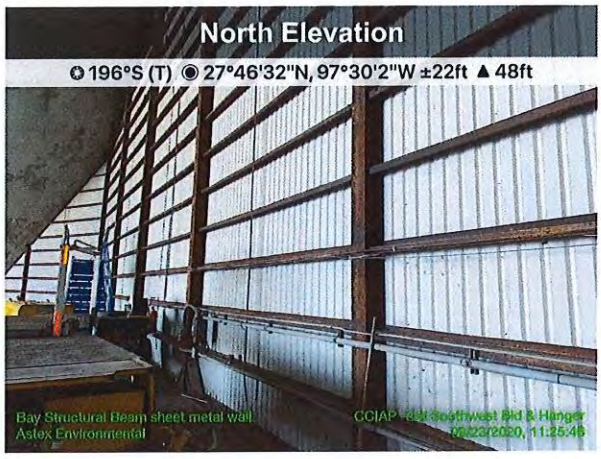

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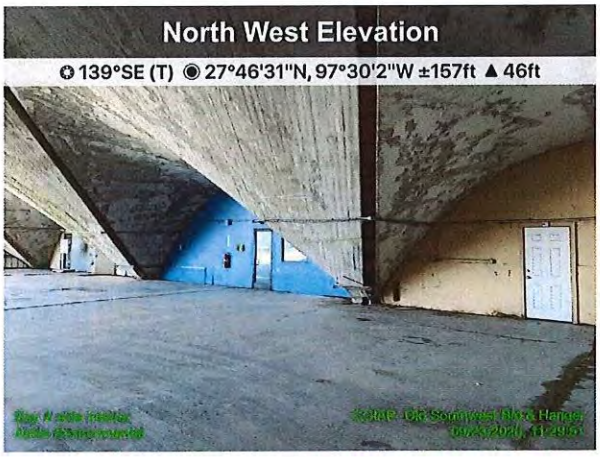
Photo 09

Photo 10



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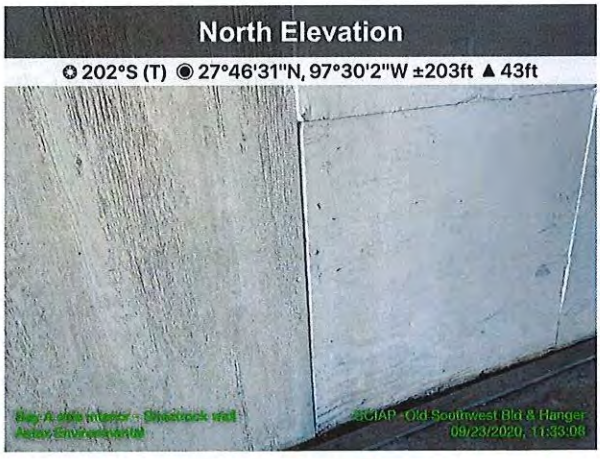

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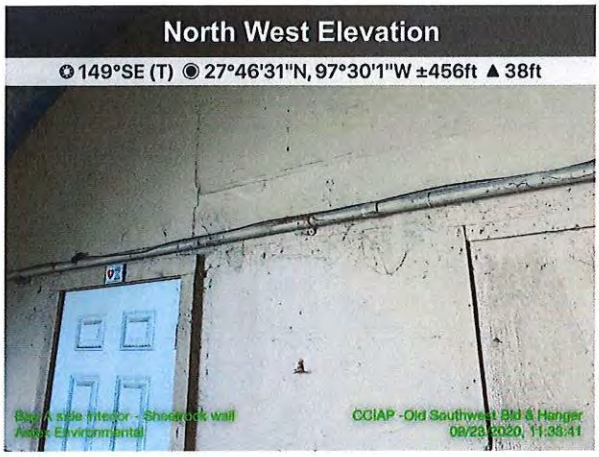

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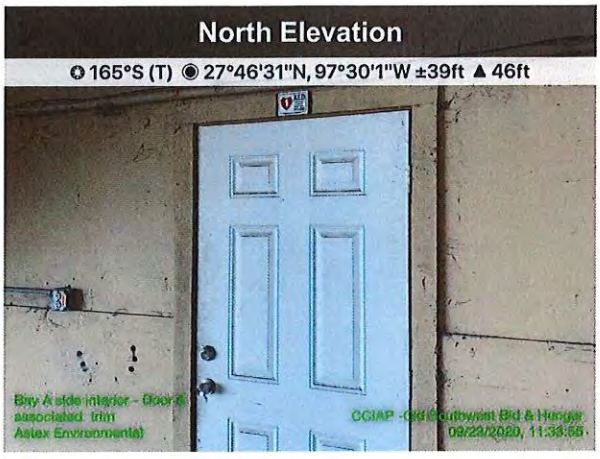

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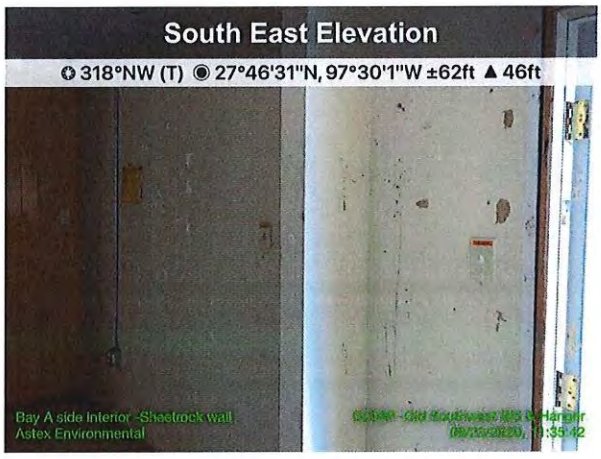

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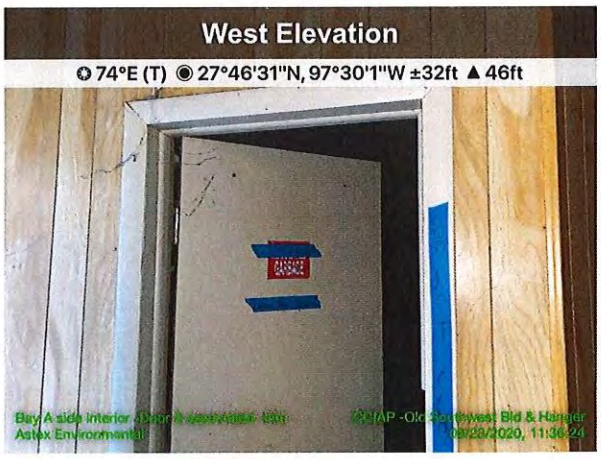

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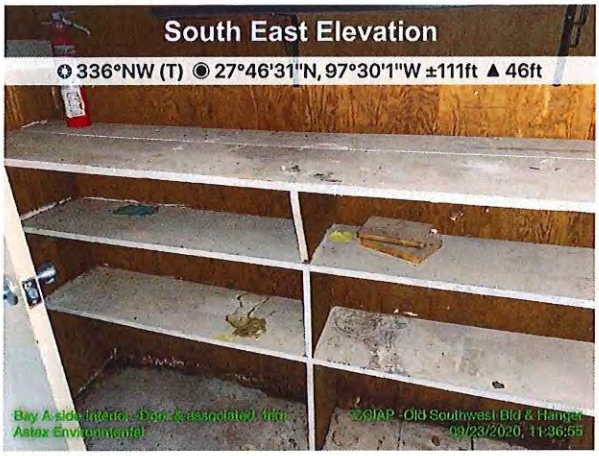

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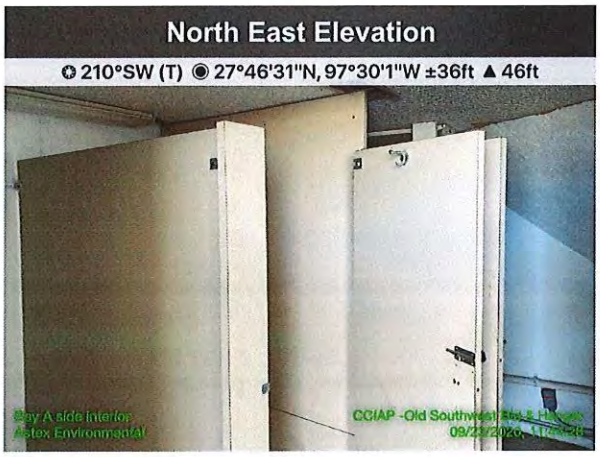

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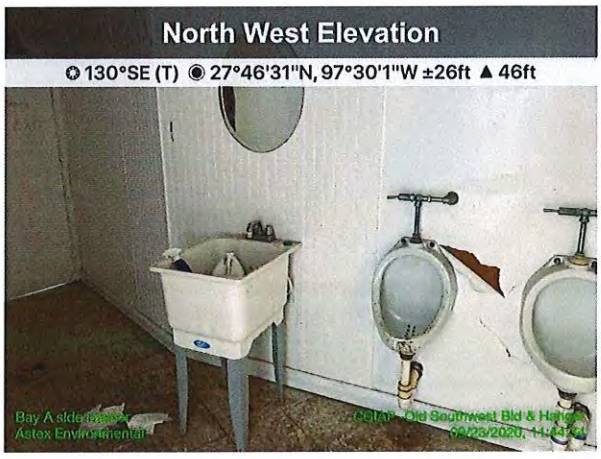

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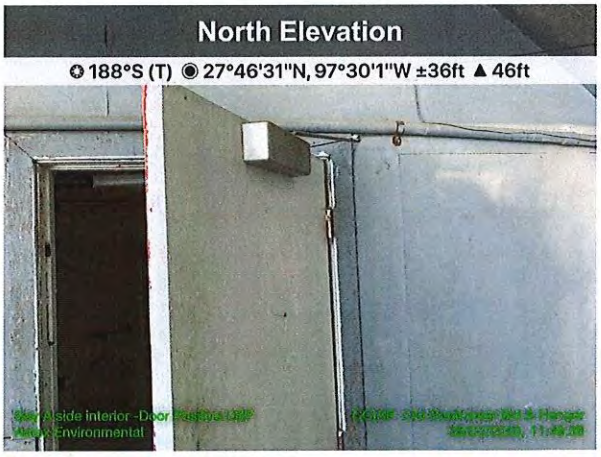

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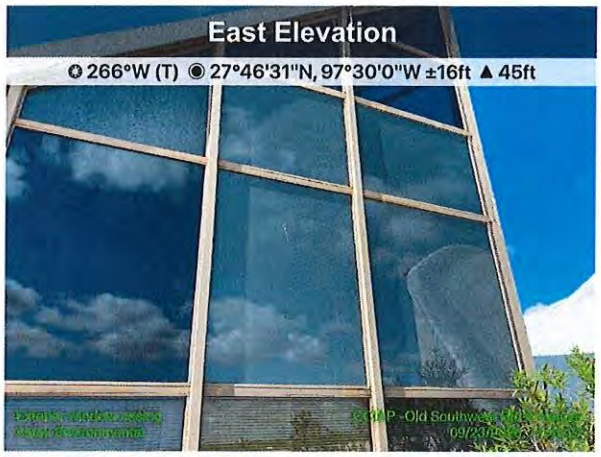

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Photo 26

Photo 27

Photo 28

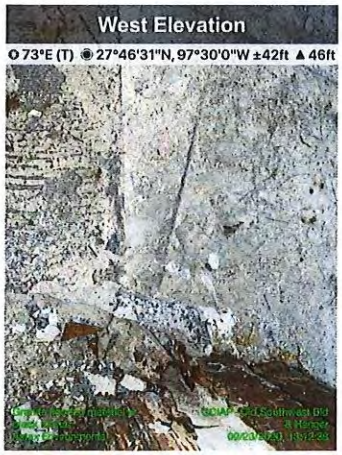

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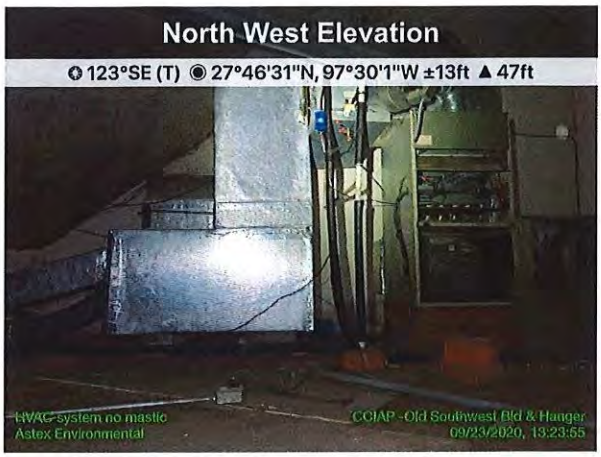
Photo 30

Photo 31



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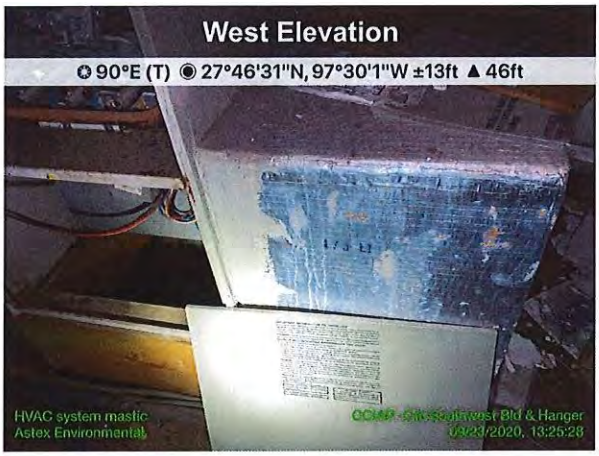

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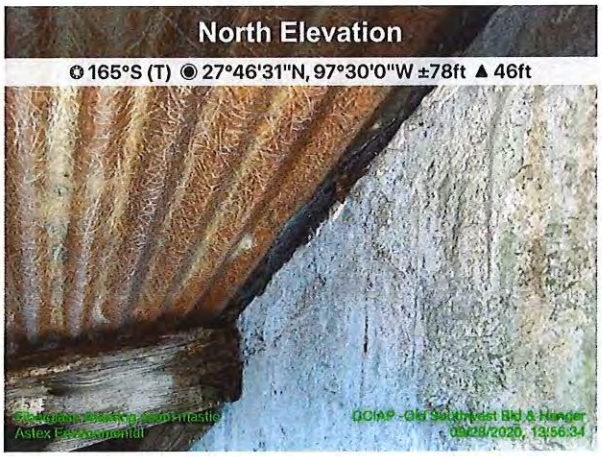

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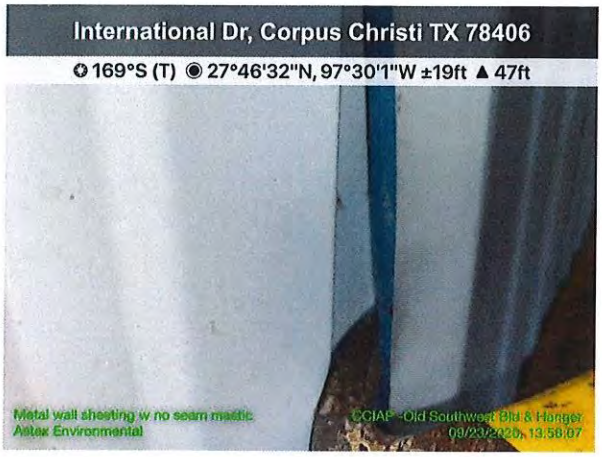

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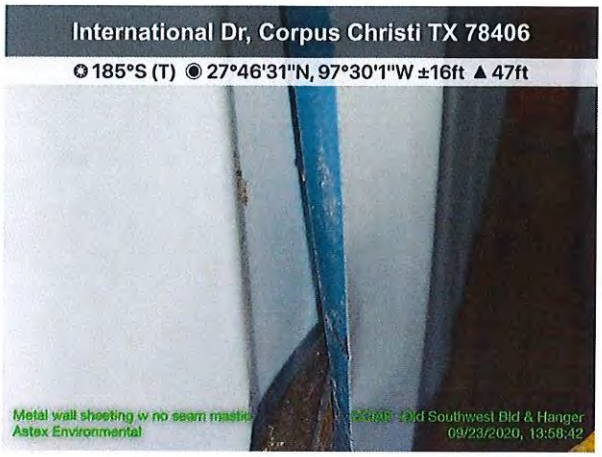

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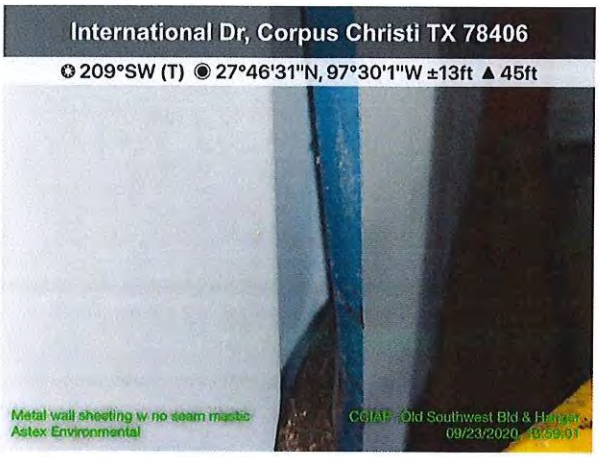

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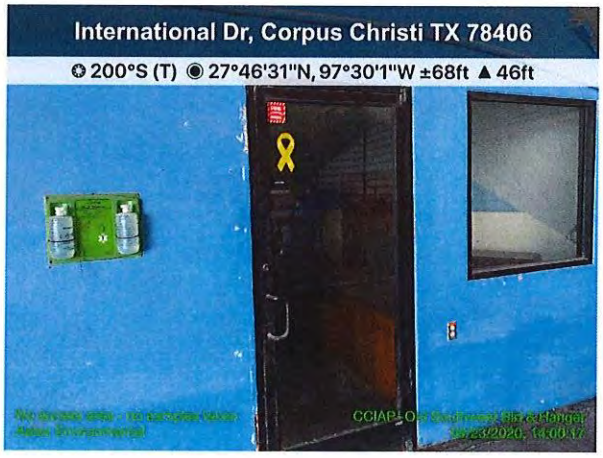

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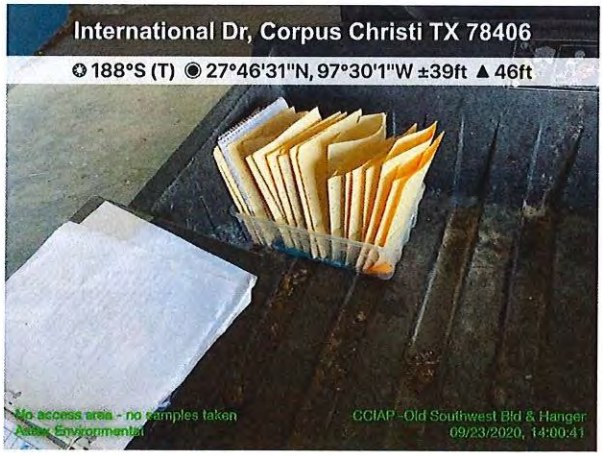


Photo 42

Photo 43

Photo 44

Photo 45

Corpus Christi International Airport – Hangar 1 Demolition Photos

- Year Built – Early 1960's
- Single Story
- Reinforced Concrete Roof
- Concrete Foundation
- Total Size – Approx 28,000 SF (20,000 SF open hangar and 8,000 SF Admin office space.
- Membrane covering on roof.
- Metal Siding

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

Photo 8

Photo 9

Photo 10

Photo 11


Gridstream RF
40D9D0BA
21 002138 kW
FOCUS AXR
FORM 16S CL320 120-277V 4W 60Hz TA50 Kh 21.6 Kt 1.8 Y
AEP - NLNA8
1EA155256755NLNA8
155 256 755
Landis+Gyr
WARNING

Photo 12

Photo 13

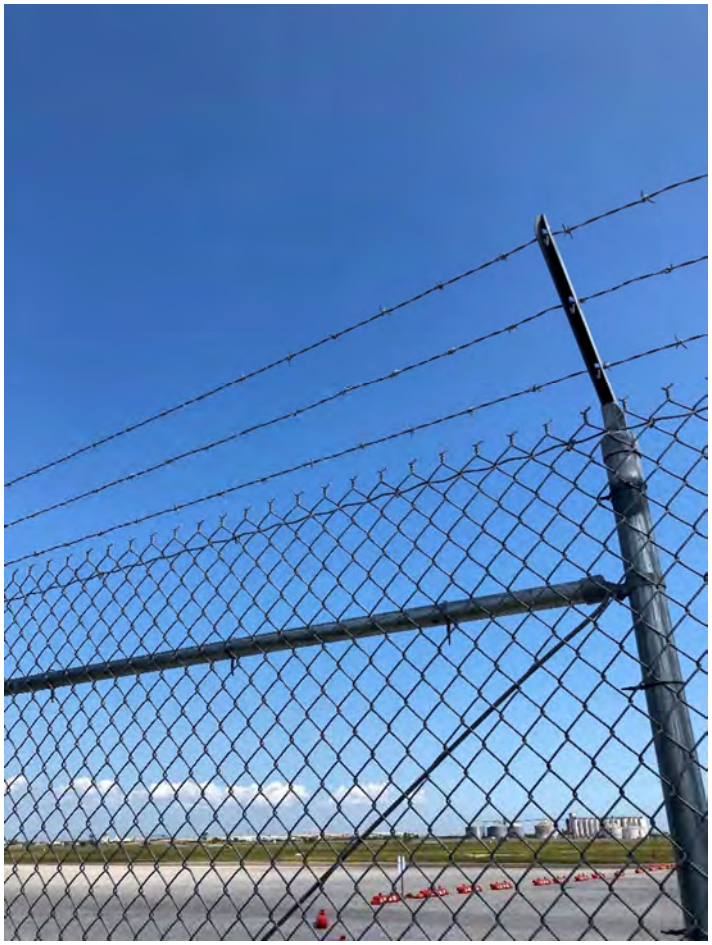


Photo 14

Photo 15

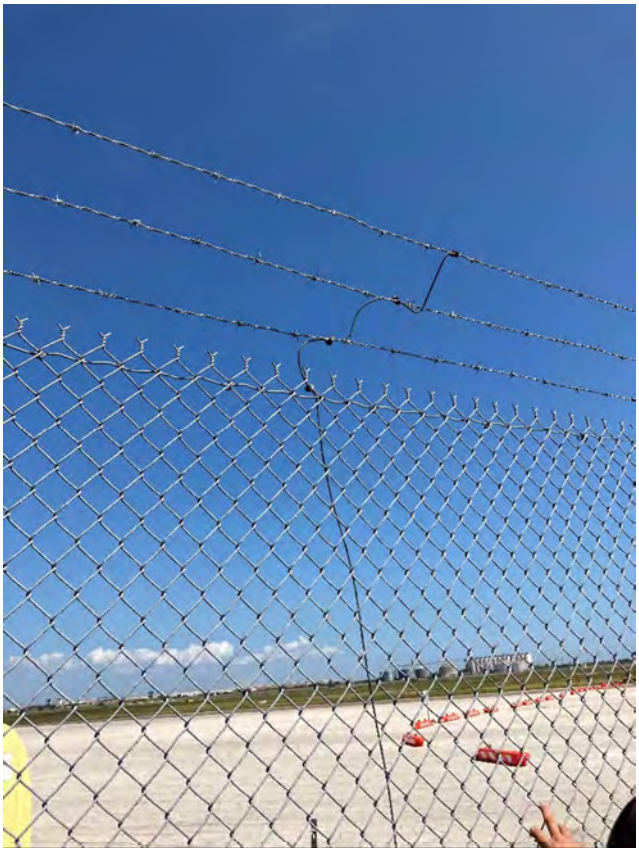
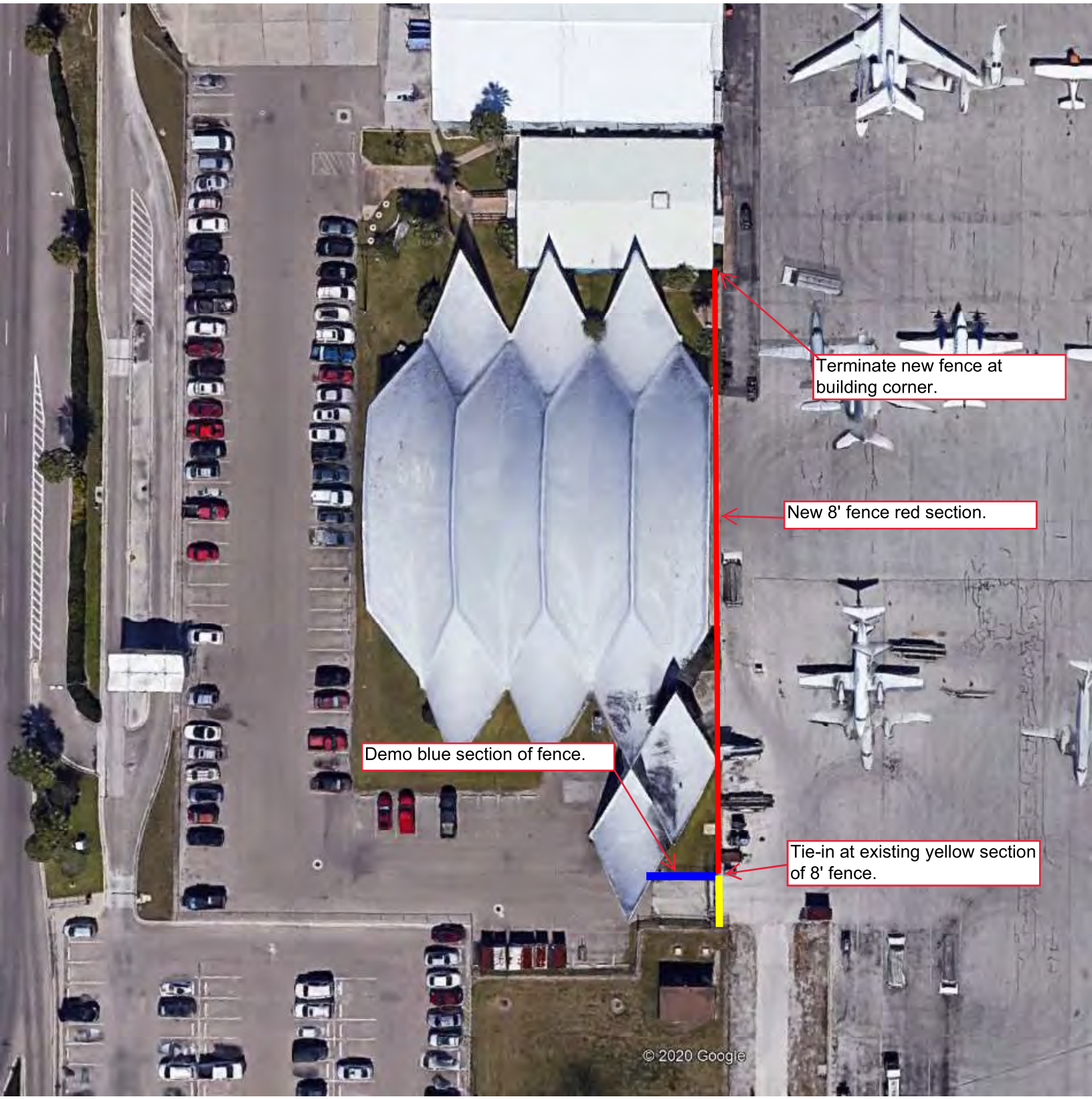


Photo 16

Photo 17

Attachment A-5



ITEM F-162 CHAIN-LINK FENCES

DESCRIPTION

162-1.1 This item shall consist of furnishing and erecting a chain-link fence in accordance with these specifications and the details shown on the plans and in conformity with the lines and grades shown on the plans or established by the Engineer.

162-1.2 This item shall consist of the removal of the existing fence, salvage and delivery of the above ground materials, and disposal of all concrete.

162-1.3 This item shall consist of the construction of a concrete erosion control strip, including welded wire, and installation of fence tie-down anchors along the fence, in accordance with these specifications and in conformity with the locations, lines and grades shown on the plans.

MATERIALS

162-2.1 FABRIC. The fabric shall be woven from a 9 gauge aluminum-coated steel wire in a 2-inch mesh and shall conform to the requirements of ASTM A491.

162-2.2 BARBED WIRE. Barbed wire shall be 2-strand 12-1/2 gauge aluminum-coated wire with 4-point barbs and shall conform to the requirements of ASTM A 121.

162-2.3 POSTS, RAILS AND BRACES. Line posts, rails, and braces shall conform to the requirements of ASTM F 1043 or ASTM F 1083 as follows:

Aluminum Pipe shall conform to the requirements of Group IB.

Aluminum Shapes shall conform to the requirements of Group IIB.

Posts, rails, and braces furnished for use in conjunction with aluminum alloy fabric shall be aluminum alloy or composite.

Posts, rails, and braces, with the exception of galvanized steel conforming to ASTM F1043 or ASTM F1083, Group 1A, Type A, or aluminum alloy, shall demonstrate the ability to withstand testing in salt spray in accordance with ASTM B117 as follows:

- External: 1,000 hours with a maximum of 5% red rust.
- Internal: 650 hours with a maximum of 5% red rust.

The dimensions of the posts, rails, and braces shall be in accordance with Tables I through VI of Federal Specification RR-F-191/3 ***and the plans.***

162-2.4 GATES. Gate frames shall consist of aluminum alloy pipe and shall conform to the specifications for the same material under paragraph 162-2.3. The fabric shall be of the same type material as used in the fence.

Contractor shall provide a lock and key for all manual gates. Contractor shall coordinate with the airport regarding printing keys.

162-2.5 WIRE TIES AND TENSION WIRES. Wire ties for use in conjunction with a given type of fabric shall be of the same material and coating weight identified with the fabric type. Tension wire shall be 7-gauge marcelled steel wire with the same coating as the fabric type and shall conform to ASTM A824.

All material shall conform to Federal Specification RR-F-191/4.

162-2.6 MISCELLANEOUS FITTINGS AND HARDWARE. Miscellaneous steel fittings and hardware for use with aluminum-coated steel fabric shall be of commercial grade steel or better quality, wrought or cast as appropriate to the article, and sufficient in strength to provide a balanced design when used in conjunction with fabric posts, and wires of the quality specified herein. Miscellaneous aluminum fittings for use with aluminum alloy fabric shall be wrought or cast aluminum alloy. Barbed wire support arms shall withstand a load of 250 pounds applied vertically to the outermost end of the arm.

162-2.7 CONCRETE. Concrete shall be of a commercial grade with a minimum 28-day compressive strength of 2500 psi. ***Any concrete placed at or above the ground surface shall contain 3-7 percent air content.***

162-2.8 MARKING. Each roll of fabric shall carry a tag showing the kind of base metal (steel, aluminum, or aluminum alloy number), kind of coating, the gauge of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal (steel, aluminum, or aluminum alloy number), and kind of coating.

162-2.9 SIGNAGE. Gate and fence sign material and measurements shall adhere to the details in the plans.

162-2.10 PRIVACY SLATS. Where specified in the plans, fence shall be constructed with black polymer privacy insert slats. The slats shall be installed vertically into the fence fabric and shall adhere to ASTM F3000 or ASTM F3000M.

CONSTRUCTION METHODS

162-3.1 CLEARING FENCE LINE. All trees, brush, stumps, logs, and other debris which would interfere with the proper construction of the fence in the required location shall be removed a minimum width of 10 feet on each side of the fence centerline before starting fencing operations. The cost of removing and disposing of the material shall not constitute a pay item and shall be considered incidental to fence construction.

162-3.2 INSTALLING POSTS. All posts shall be set in concrete at the required dimension and depth and at the spacing shown on the plans.

The concrete shall be thoroughly compacted around the posts by tamping or vibrating and shall have a smooth finish slightly higher than the ground and sloped to drain away from the posts. All posts shall be set plumb and to the required grade and alignment. No materials shall be installed on the posts, nor shall the posts be disturbed in any manner within seven (7) days after the individual post footing is completed.

Should rock be encountered at a depth less than the planned footing depth, a hole 2 inches larger than the greatest dimension of the posts shall be drilled to a depth of 12 inches. After the posts are set, the remainder of the drilled hole shall be filled with grout, composed of one part Portland cement and two parts mortar sand. Any remaining space above the rock shall be filled with concrete in the manner described above.

In lieu of drilling, the rock may be excavated to the required footing depth. No extra compensation shall be made for rock excavation.

162-3.3 INSTALLING TOP RAILS. The top rail shall be continuous and shall pass through the post tops. The coupling used to join the top rail lengths shall allow for expansion.

162-3.4 INSTALLING BRACES. Horizontal brace rails, with diagonal truss rods and turnbuckles, shall be installed at all terminal posts.

162-3.5 INSTALLING FABRIC. The wire fabric shall be firmly attached to the posts and braced as shown on the plans. All wire shall be stretched taut and shall be installed to the required elevations. The fence shall generally follow the contour of the ground, with the bottom of the fence fabric no less than one inch or more than 4 inches from the ground surface. Grading shall be performed where necessary to provide a neat appearance.

At locations of small natural swales or drainage ditches and where it is not practical to have the fence conform to the general contour of the ground surface, longer posts may be used and multiple strands of barbed wire stretched to span the opening below the fence. The vertical clearance between strands of barbed wire shall be 6 inches or less.

162-3.6 ELECTRICAL GROUNDS. Electrical grounds shall be constructed where a power line passes over the fence ***and within 50' of every end post***. *T*he ground shall be installed directly below the point of crossing. The ground shall be accomplished with a copper clad rod 8 feet long and a minimum of 5/8 inch in diameter driven vertically until the top is 6 inches below the ground surface. A No. 6 solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded. Installation of ground rods shall not constitute a pay item and shall be considered incidental to fence construction. The Contractor shall comply with FAA-STD-019, Lightning and Surge Protection, Grounding, Bonding and Shielding Requirements for Facilities and Electronic Equipment, Paragraph 4.2.3.8, Lightning Protection for Fences and Gates, when fencing is adjacent to FAA facilities.

162-3.7 Cleaning up. The Contractor shall remove from the vicinity of the completed work all tools, buildings, equipment, etc., used during construction. All disturbed areas shall be seeded per T-901.

162-3.8 FENCE REMOVAL. The existing fence material shall not be destroyed during removal without prior approval of the Engineer. Existing fence, including fabric, top rails, fasteners, posts, and other miscellaneous above ground hardware to be removed will not be reused except for temporary fencing but will be delivered to the Owner to a location as directed by the Engineer after removal. Construction requirements shall be as shown on the Plans and/or as approved by the Engineer.

Posts shall not be cut off and abandoned in place. Post holes and all disturbed areas shall be filled with material to match the surrounding conditions, compacted and flush with the surface. The concrete erosion control strip shall be removed and disposed of off-site.

The clearing of brush, hedges, heavy growth of grass or weeds, debris, rebar and rubbish of any nature to construct the proposed fence and proposed seeding/sodding shall be considered subsidiary to fence removal.

At the point where fence removal stops and existing fence is to remain, the remaining (existing) fence end section shall be reconstructed/repaired to provide adequate support and security. At these locations, the Contractor shall determine how the fence is to be reconstructed and submit his determination to the Engineer for approval. End panels will be required at horizontal and vertical deflections in accordance with the requirements for the new fence.

Existing gates shown to be removed shall be removed in its entirety and delivered to the Owner to a location as directed by the Engineer after removal.

162-3.9 EROSION CONTROL STRIP.

a. Subgrade. The subgrade shall be excavated or filled to the required grade. Soft and yielding material shall be removed and replaced with suitable material and the entire subgrade shall be thoroughly compacted with approved mechanical equipment. The subgrade under areas to be paved shall be compacted to a depth of 6" and to a density of not less than 98 percent of the maximum density as determined by ASTM D698. The material to be compacted shall be within +/-

2 percent of optimum moisture content before rolled to obtain the prescribed compaction (except for expansive soils).

The in-place field density shall be determined in accordance with ASTM D1556 or ASTM D2167 and ASTM D6938 shall be used to determine the moisture content of the material. The machine shall be calibrated in accordance with ASTM D6938. Stones or rock fragments larger than 4 inches in their greatest dimension will not be permitted in the top 6 inches of the subgrade. Testing of moisture content and in place density shall be at a frequency of a day's production not to exceed 1,000 linear feet.

All loose or protruding rocks on the back slopes of cuts shall be pried loose or otherwise removed to the slope finished grade line. All cut-and-fill slopes shall be uniformly dressed to the slope, cross-section, and alignment shown on the plans or as directed by the Engineer.

b. Forms. Forms shall be constructed of metal or wood, free from warp, and of sufficient strength to resist springing during the process of depositing concrete. They shall be securely staked, braced, set and held firmly to the required line and grade. Forms shall be cleaned and oiled before concrete is placed against them.

c. Placing and Finishing. The concrete shall be deposited in the forms upon the wetted subgrade to such depth that when it is compacted and finished, the top shall be at the required elevation. It shall be thoroughly consolidated and the edges along the form spaded to prevent honeycomb. The top shall then be struck off with a straightedge and tamped or vibrated sufficiently to flush mortar to the surface, after which it shall be finished with a wood float to a smooth and even surface.

Transverse joints shall be cut with a ½" jointer at each fence post, or as directed by the Engineer.

Plastering will not be permitted but minor defects shall be filled with a cement mortar (1 part Portland cement to 2 parts concrete sand) applied with a wood float.

When completed, the concrete shall be properly cured by covering with polyethylene sheets conforming to ASTM C 171 or a liquid membrane forming compound conforming to ASTM C 309, Type 2, or other methods approved by the Engineer.

d. Backfilling. After the forms have been removed, the spaces on each side shall be backfilled with suitable material, which shall be firmly compacted by means of approved mechanical equipment and neatly graded.

e. Expansion Joints. A space not less than ½" wide shall be left between the sides of the strip and adjacent pavement or other structure and at 100 foot intervals, as directed. This space shall be filled with approved premolded joint filler meeting the requirements of ASTM D 1752.

f. Acceptance Sampling and Testing. Concrete will be sampled and accepted in accordance with Item P-610. One sample shall be taken every day of production not to exceed 1000 linear feet of Erosion Control Strip placed. Sampling locations shall be determined by the Engineer. Two (2) specimens shall be made from each sample. See subgrade section for subgrade testing and frequency.

162-3.10 FENCE EXTENSION. Fence extension shall be constructed according to the details in the plans. Contractor shall use material specified within this specification.

METHOD OF MEASUREMENT

162-4.1 "***8-Foot Chain-Link Fence with 3-Strand Barbed"*** ~~Chain-link fence~~ will be measured for payment by the linear foot. Measurement will be along the top of the fence from center to center of end posts, excluding the length occupied by gate openings.

162-4.2 "7-Foot Black PVC Coated Chain-Link Fence with 3-Strand Barbed Wire" will be measured for payment by the linear foot. Measurement will be along the top of the fence from center to center of end posts, excluding the length occupied by gate openings.

162-4.3 "8-Foot Chain-Link Fence with 3-Strand Barbed Wire and Black Privacy Slats" will be measured for payment by the linear foot. Measurement will be along the top of the fence from center to center of end posts, excluding the length occupied by gate openings.

162-4.4 Concrete Erosion Control Strip will be measured by the linear foot measured in the direction of the constructed perimeter fence, complete and accepted.

162-*4.5* Gates will be measured as complete units of the type ***and material,*** specified.

162-4.6 Fence removal will be measured for payment by the linear foot. Measurement will be along the bottom of the fence from center to center of end posts, excluding the length occupied by gate openings.

162-4.7 Gate removal will be measured for payment by each gate removed in its entirety.

162-4.8 Fence extension will be measured for payment per linear foot measured along the length of the fence.

162-4.9 Only gate signs as shown in the plans shall be measured for separate payment. All other signage related to fencing and/or gates is not measured for separate payment but shall be considered subsidiary to the item in which it is contained.

BASIS OF PAYMENT

~~**162-5.1** Payment for chain-link fence will be made at the contract unit price per linear foot.~~

~~**162-5.2** Payment for vehicle or pedestrian gates will be made at the contract unit price for each gate.~~

162-5.1 Payment for 8-Foot Chain-Link Fence with 3-Strand Barbed will be made at the contract unit price per linear foot.

162-5.2 Payment for 7-Foot Black PVC Coated Chain-Link Fence with 3-Strand will be made at the contract unit price per linear foot.

162-5.3 Payment for 8-Foot Chain-Link Fence with 3-Strand and black privacy slats will be made at the contract unit price per linear foot.

162-5.4 Payment for Concrete Erosion Control Strip (including welded wire fabric and tie-down anchors) will be made at the contract unit price per linear foot.

162-5.5 Payment for manual gates shall be made at the contract unit price for each of the type specified.

162-5.6 Payment for fence removal will be made at the contract unit price bid per linear foot.

162-5.7 Payment for gate removal will be paid for at the contract unit price bid for each.

162-5.8 Payment for fence extension will be paid for at the contract unit price bid per linear foot.

162-5.9 Payment for gate signs will be paid for at the contract unit price bid per each.

The price shall be full compensation for furnishing all materials, and for all preparation, ***removal and disposal,*** erection, and installation of these materials, and for all labor equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item F-162-5.1	***8-Foot*** Chain-Link Fence ***with 3-Strand Barbed Wire*** —per linear foot
~~Item F-162-5.2a~~	~~Vehicle Gates—per each~~
~~Item F-162-5.2b~~	~~Pedestrian Gates—per each~~
Item F-162-5.2	***7-Foot Black PVC Coated Chain-Link Fence with 3-Strand Barbed Wire – per linear foot***
Item F-162-5.3	***8-Foot Chain-Link Fence with 3-Strand Barbed Wire and Black Privacy Slats – per linear foot***
Item F-162-5.4	***Concrete Erosion Control Strip – per linear foot***
Item F-162-5.5	***Manual Double Swing Gate (20-Foot Wide) – per each***
Item F-162-5.6	***Manual Pedestrian Gate (4-Foot Wide) – per each***
Item F-162-5.7	***Manual Sliding Gate (20-Foot Wide) – per each***
Item F-162-5.8	***Fence Removal – per linear foot***
Item F-162-5.9	***Gate Removal – per each***
Item F-162-5.10	***Fence Extension – per linear foot***
Item F-162-5.11	***Gate Sign – per each***

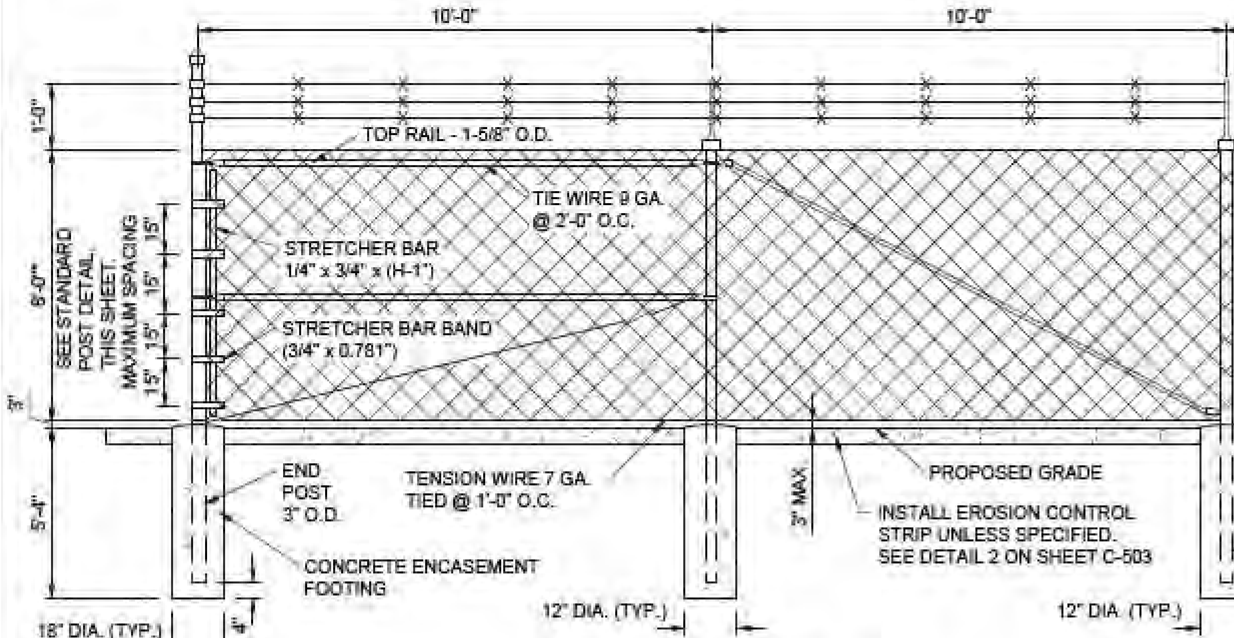
MATERIAL REQUIREMENTS

ASTM A 121	Metallic-Coated Carbon Steel Barbed Wire
ASTM A 123	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A 153	Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A 392	Zinc-Coated Steel Chain-Link Fence Fabric
ASTM A 491	Aluminum-Coated Steel Chain-Link Fence Fabric
ASTM A 572	High-Strength Low-Alloy Columbium-Vanadium Structural Steel

ASTM A 653	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM A 824	Metallic-Coated Steel Marcelled Tension Wire for Use With Chain Link Fence
ASTM A 1011	Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High Strength Low Alloy with Improved Formability, and Ultra High Strength
ASTM B 117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM B 221	Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire, Profiles and Tubes
ASTM B 429	Aluminum-Alloy Extruded Structural Pipe and Tube
ASTM F 668	Polyvinyl Chloride(PVC), Polyolefin and other Organic Polymer Coated Steel Chain-Link Fence Fabric
ASTM F 1043	Strength and Protective Coatings on Steel Industrial Fence Framework
ASTM F 1083	Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
ASTM F 1183	Aluminum Alloy Chain Link Fence Fabric
ASTM F 1345	Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Chain-Link Fence Fabric
ASTM G 152	Operating Open Flame (Carbon-Arc) Light Apparatus for Exposure of Nonmetallic Materials
ASTM G 153	Operating Enclosed Carbon-Arc Light Apparatus for Exposure of Nonmetallic Materials
ASTM G 154	Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
ASTM G 155	Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials
FED SPEC RR-F-191/3	Fencing, Wire and Post, Metal (Chain-Link Fence Posts, Top Rails and Braces)
FED SPEC RR-F-191/4	Fencing, Wire and Post, Metal (Chain-Link Fence Accessories)
FAA-STD-019	Lightning and Surge Protection, Grounding, Bonding and Shielding Requirements for Facilities and Electronic Equipment

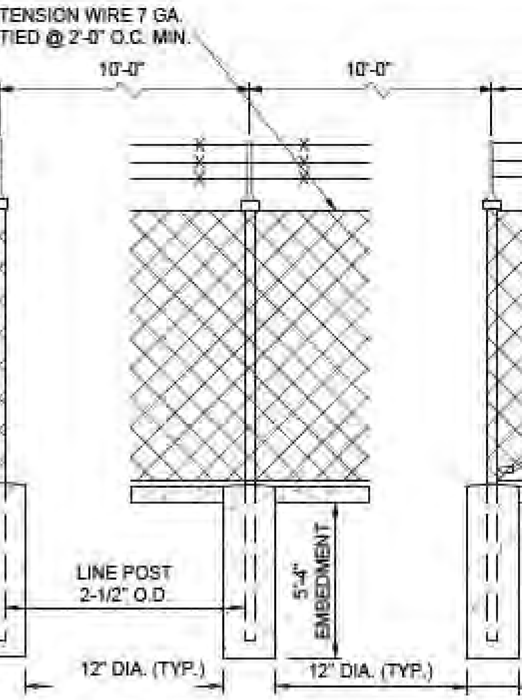
END OF ITEM F-162

Attachment A-7



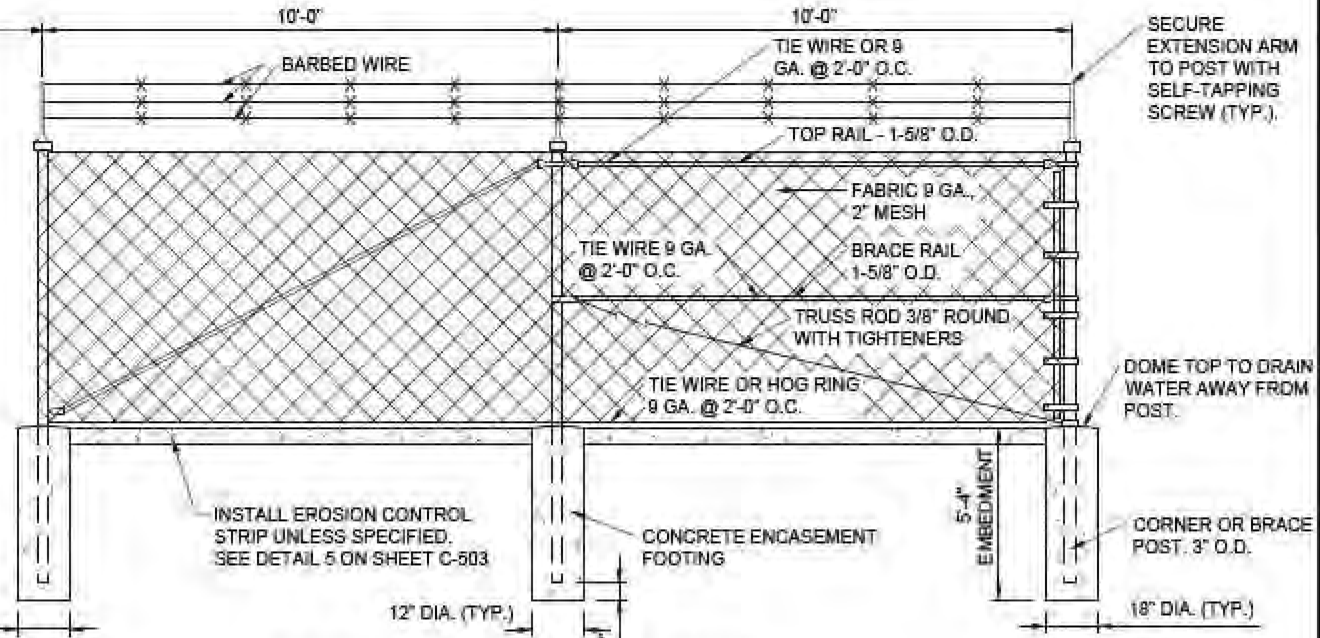
1 C-502 END PANEL

SCALE: NONE



2 C-502 POST SPACING

SCALE: NONE



3 C-502 BRACE OR CORNER PANEL

SCALE: NONE

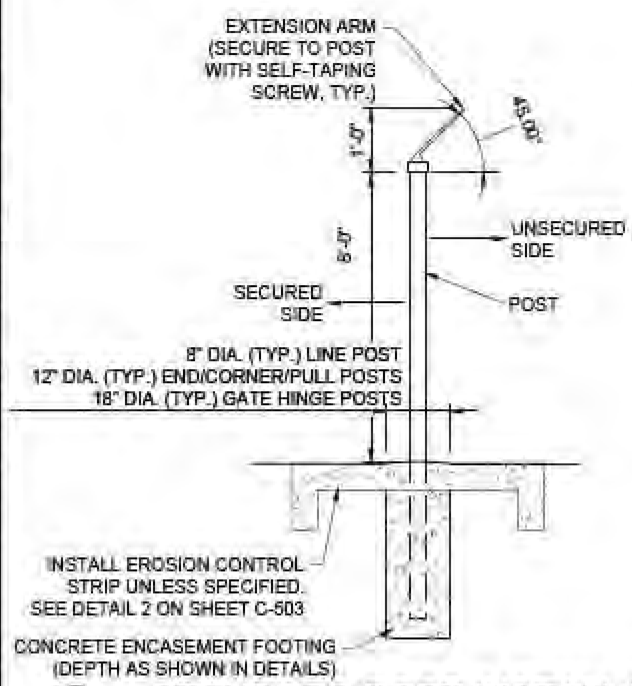
NOTES:

1. BRACE PANEL SHALL BE PLACED A MAXIMUM OF 400 FEET CENTER TO CENTER FROM END, CORNER, OR BRACE POSTS. ANY BREAKS IN HORIZONTAL ALIGNMENT OF MORE THAN 30 DEGREES SHALL BE CONSIDERED A CORNER.
2. A CORNER POST IS REQUIRED TO BE CONSTRUCTED WHERE THE PROPOSED FENCE CONNECTS TO ANY EXISTING FENCE TO REMAIN.

*THIS DIMENSION SHALL BE 7'-0" FOR FENCE SPECIFIED TO BE 7-FOOT IN PLANS.

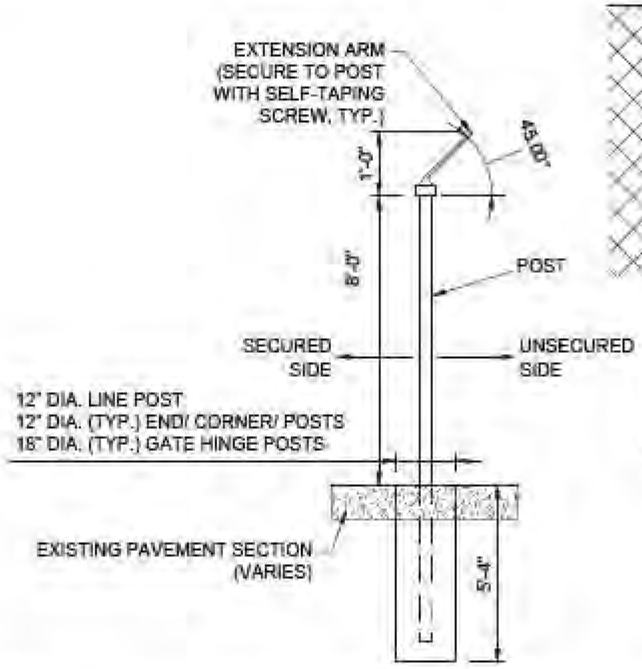
NOTES:

1. ALL FABRIC, POSTS, NAILS, BRACES, FITTINGS, AND HARDWARE FOR FENCE AND GATES SHALL CONFORM TO ITEM F-162 OF THE SPECIFICATIONS.
2. ELECTRICAL GROUND RODS SHALL BE CONSTRUCTED AS GIVEN IN ITEM F-162 OF THE SPECIFICATIONS.
3. END POSTS AT THE EDGE OF A BUILDING SHALL BE CONSTRUCTED, AT MAXIMUM, 3" FROM THE FACE OF THE BUILDING. THE DIAMETER OF THE FOOTING CAN BE ADJUSTED IN THIS INSTANCE. CONTRACTOR SHALL PROTECT THE BUILDING FOUNDATION.



4 C-502 STANDARD POST INSTALLATION

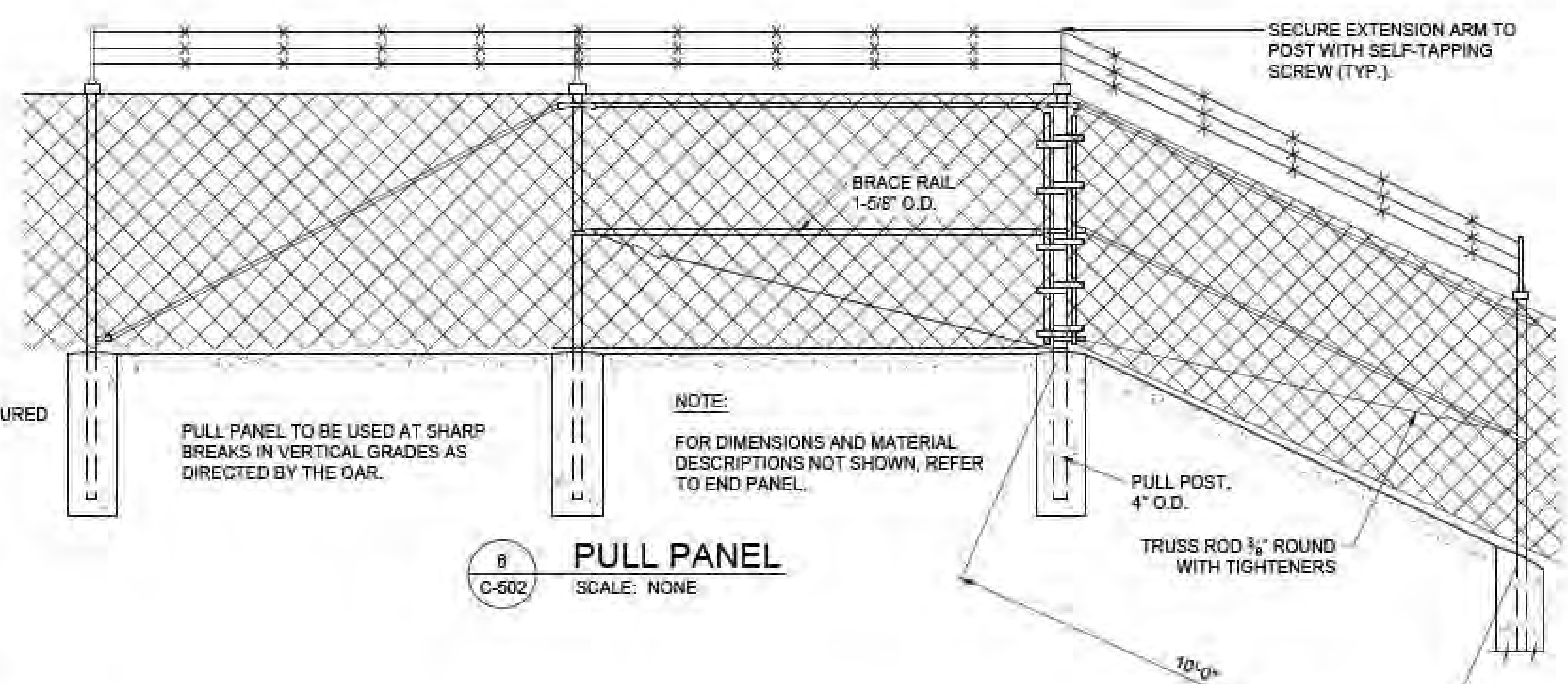
SCALE: NONE



5 C-502 STANDARD POST INSTALLATION IN EXISTING PAVEMENT

SCALE: NONE

NOTES: CONTRACTOR SHALL CORE EXISTING PAVEMENT TO THE DEPTH SHOWN, THEN SET POST AND CONCRETE ENCASE FOOTING.



NOTE:

FOR DIMENSIONS AND MATERIAL DESCRIPTIONS NOT SHOWN, REFER TO END PANEL.

6 C-502 PULL PANEL

SCALE: NONE

CONSULTANT SHEET C-502
PROJECT NO. 15151171

DIGITALLY SIGNED ON 06/10/2016

GARVER

3755 S. CAPITAL OF TEXAS HWY, SUITE 325
AUSTIN, TX 78704

REGISTRATION NO. F-5713

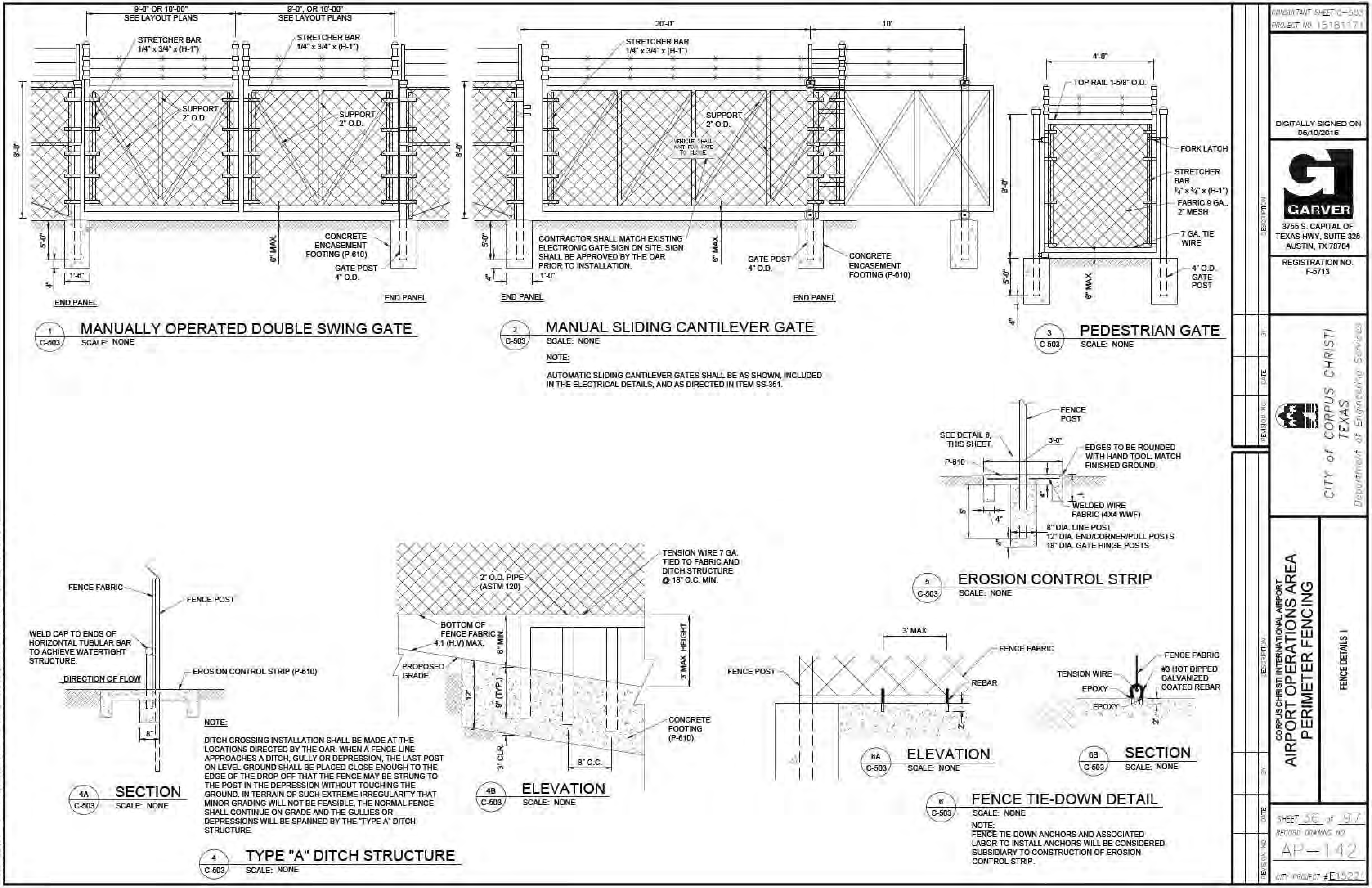
REVISION NO. | DATE | BY | DESCRIPTION

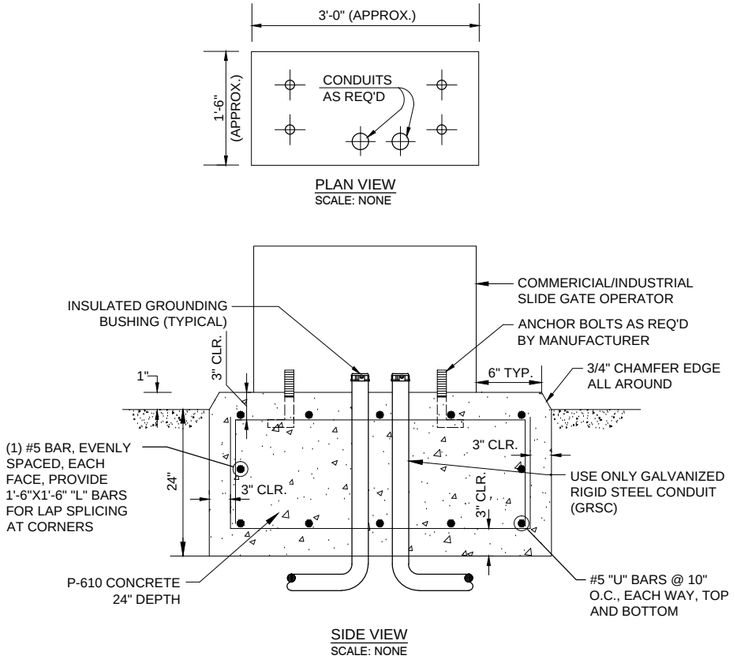
CITY of CORPUS CHRISTI
TEXAS
Department of Engineering Services

CORPUS CHRISTI INTERNATIONAL AIRPORT
AIRPORT OPERATIONS AREA PERIMETER FENCING

FENCE DETAILS I

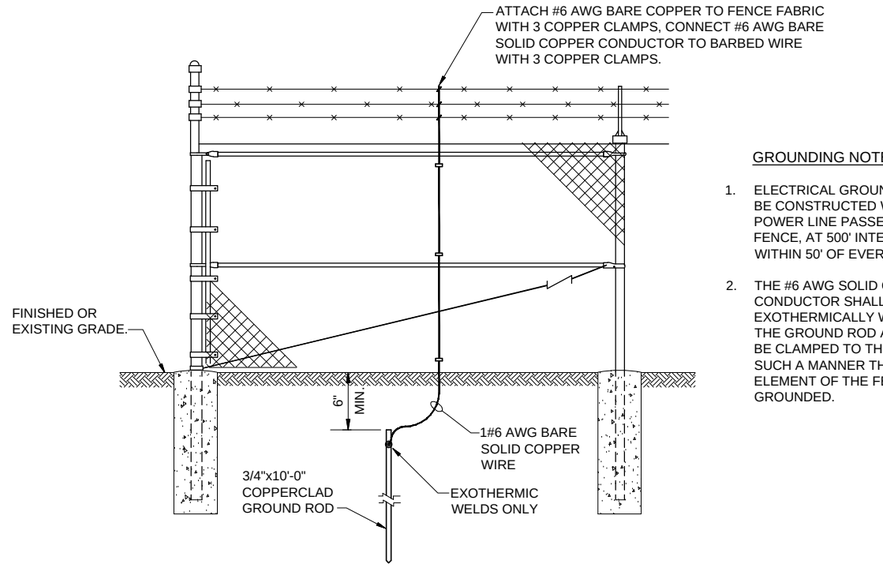
SHEET 35 OF 97
RECORD DRAWING NO. AP-142
CITY PROJECT #E15221


9'-0" OR 10'-00" SEE LAYOUT PLANS
9'-0", OR 10'-00" SEE LAYOUT PLANS
STRETCHER BAR 1/4" x 3/4" x (H-1")
SUPPORT 2" O.D.
8'-0"
5'-0"
4"
1'-8"
6" MAX.
CONCRETE ENCASEMENT FOOTING (P-610)
GATE POST 4" O.D.
END PANEL
1 C-503
MANUALLY OPERATED DOUBLE SWING GATE
SCALE: NONE
20'-0"
10'
VEHICLE SHALL WAIT FOR GATE TO CLOSE
CONTRACTOR SHALL MATCH EXISTING ELECTRONIC GATE SIGN ON SITE. SIGN SHALL BE APPROVED BY THE OAR PRIOR TO INSTALLATION.
1'-0"
2 C-503
MANUAL SLIDING CANTILEVER GATE
SCALE: NONE
NOTE:
AUTOMATIC SLIDING CANTILEVER GATES SHALL BE AS SHOWN, INCLUDED IN THE ELECTRICAL DETAILS, AND AS DIRECTED IN ITEM SS-351.
4'-0"
TOP RAIL 1-5/8" O.D.
FORK LATCH
STRETCHER BAR ¼" x ¾" x (H-1")
FABRIC 9 GA., 2" MESH
7 GA. TIE WIRE
4" O.D. GATE POST
3 C-503
PEDESTRIAN GATE
SCALE: NONE
FENCE POST
SEE DETAIL 6, THIS SHEET.
3'-0"
P-610
EDGES TO BE ROUNDED WITH HAND TOOL. MATCH FINISHED GROUND.
WELDED WIRE FABRIC (4X4 WWF)
8" DIA. LINE POST
12" DIA. END/CORNER/PULL POSTS
18" DIA. GATE HINGE POSTS
5 C-503
EROSION CONTROL STRIP
SCALE: NONE
FENCE FABRIC
FENCE POST
WELD CAP TO ENDS OF HORIZONTAL TUBULAR BAR TO ACHIEVE WATERTIGHT STRUCTURE.
DIRECTION OF FLOW
EROSION CONTROL STRIP (P-610)
8"
4A C-503
SECTION
SCALE: NONE
NOTE:
DITCH CROSSING INSTALLATION SHALL BE MADE AT THE LOCATIONS DIRECTED BY THE OAR. WHEN A FENCE LINE APPROACHES A DITCH, GULLY OR DEPRESSION, THE LAST POST ON LEVEL GROUND SHALL BE PLACED CLOSE ENOUGH TO THE EDGE OF THE DROP OFF THAT THE FENCE MAY BE STRUNG TO THE POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND. IN TERRAIN OF SUCH EXTREME IRREGULARITY THAT MINOR GRADING WILL NOT BE FEASIBLE, THE NORMAL FENCE SHALL CONTINUE ON GRADE AND THE GULLIES OR DEPRESSIONS WILL BE SPANNED BY THE "TYPE A" DITCH STRUCTURE.
2" O.D. PIPE (ASTM 120)
TENSION WIRE 7 GA. TIED TO FABRIC AND DITCH STRUCTURE @ 18" O.C. MIN.
BOTTOM OF FENCE FABRIC
4:1 (H:V) MAX.
6" MIN
3' MAX. HEIGHT
PROPOSED GRADE
12"
9" (TYP.)
3" CLR.
8" O.C.
CONCRETE FOOTING (P-610)
4B C-503
ELEVATION
SCALE: NONE
4 C-503
TYPE "A" DITCH STRUCTURE
SCALE: NONE
3' MAX
FENCE FABRIC
FENCE POST
REBAR
2"
6A C-503
ELEVATION
SCALE: NONE
FENCE FABRIC
TENSION WIRE
#3 HOT DIPPED GALVANIZED COATED REBAR
EPOXY
EPOXY
6B C-503
SECTION
SCALE: NONE
6 C-503
FENCE TIE-DOWN DETAIL
SCALE: NONE
NOTE:
FENCE TIE-DOWN ANCHORS AND ASSOCIATED LABOR TO INSTALL ANCHORS WILL BE CONSIDERED SUBSIDIARY TO CONSTRUCTION OF EROSION CONTROL STRIP.
CONSULTANT SHEET C-503
PROJECT NO. 15161171
DIGITALLY SIGNED ON 06/10/2016
GARVER
3755 S. CAPITAL OF TEXAS HWY, SUITE 325 AUSTIN, TX 78704
REGISTRATION NO. F-5713
CITY of CORPUS CHRISTI TEXAS
Department of Engineering Services
CORPUS CHRISTI INTERNATIONAL AIRPORT
AIRPORT OPERATIONS AREA PERIMETER FENCING
FENCE DETAILS II
REVISION NO.
DATE
BY
DESCRIPTION
SHEET 36 of 97
RECORD DRAWING NO.
AP-142
CITY PROJECT #E15221



1 E-505 **SLIDING GATE OPERATOR INSTALLATION**

SCALE: NONE



2 E-505 **FENCE ELECTRICAL GROUND INSTALLATIONS**

SCALE: NONE

GROUNDING NOTES:

1. ELECTRICAL GROUNDS SHALL BE CONSTRUCTED WHERE A POWER LINE PASSES OVER THE FENCE, AT 500' INTERVALS, AND WITHIN 50' OF EVERY END POST.
2. THE #6 AWG SOLID COPPER CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE GROUND ROD AND SHALL BE CLAMPED TO THE FENCE IN SUCH A MANNER THAT EACH ELEMENT OF THE FENCE IS GROUNDED.

SEQUENCE OF GATE OPERATION:

ENTRY

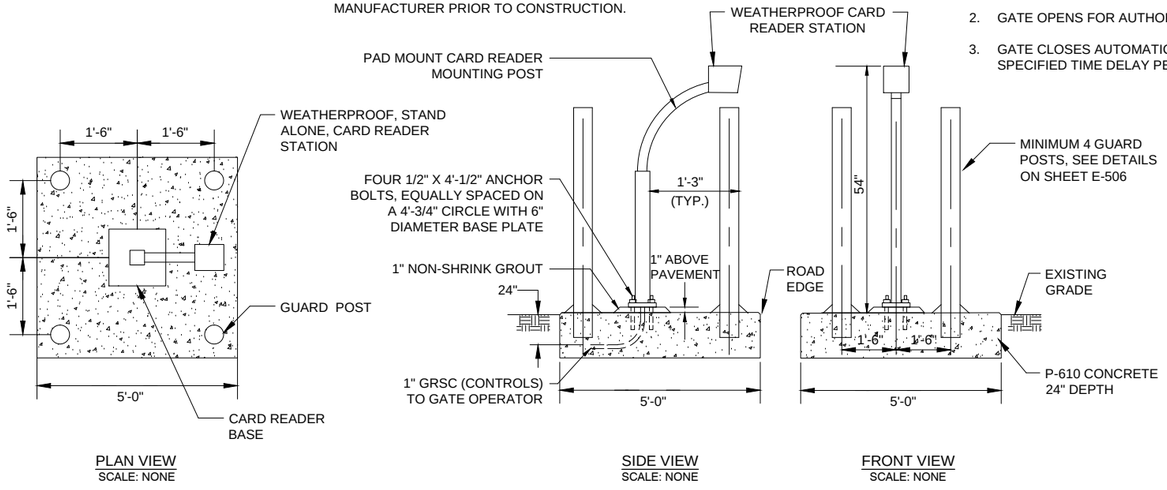
1. VEHICLE APPROACHES CARD READER STATION.
2. GATE OPENS FOR AUTHORIZED DRIVERS AFTER VERIFICATION.
3. GATE CLOSES AUTOMATICALLY PER VEHICLE PASSING OVER LOOP OR SPECIFIED TIME DELAY PERIOD TO ALLOW VEHICLE TO ENTER.

EXIT

1. VEHICLE APPROACHES CARD READER STATION.
2. GATE OPENS FOR AUTHORIZED DRIVERS AFTER VERIFICATION.
3. GATE CLOSES AUTOMATICALLY PER VEHICLE PASSING OVER LOOP OR SPECIFIED TIME DELAY PERIOD TO ALLOW VEHICLE TO ENTER.

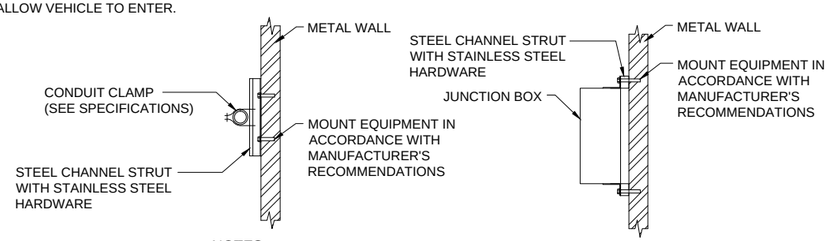
READER NOTES:

1. MOUNT 15 FEET IN FRONT OF GATE CENTERLINE.
2. MOUNTING POST SHALL BE STAINLESS STEEL AFTER FABRICATION.
3. ALL DIMENSIONS ARE APPROXIMATE. VERIFY WITH MANUFACTURER PRIOR TO CONSTRUCTION.



3 E-505 **CARD READER STATION**

SCALE: NONE



NOTES:

1. INDOOR DRY LOCATIONS: UTILIZE HOT-DIPPED GALVANIZED STEEL CHANNEL STRUT.
2. OUTDOORS AND INDOOR WET OR DAMP LOCATIONS: UTILIZE STAINLESS STEEL CHANNEL STRUT.
3. SINGLE CONDUIT SHOWN, SIMILAR FOR MULTIPLE CONDUITS.
4. SIMILAR FOR ALL ELECTRICAL ENCLOSURES AND PANELS.
5. PROVIDE END CAPS ON CHANNEL STRUT.

4 E-505 **CONDUIT AND J-BOX SUPPORT DETAILS FOR METAL WALLS**

SCALE: NONE

CONSULTANT SHEET E–505
PROJECT NO. 15181171

STATE OF TEXAS
MATTHEW C. LEMAY
112269
LICENSED PROFESSIONAL ENGINEER
DIGITALLY SIGNED ON 06/10/2016

GARVER
3755 S. CAPITAL OF TEXAS HWY, SUITE 325
AUSTIN, TX 78704
REGISTRATION NO. F-5713

CITY of CORPUS CHRISTI
TEXAS
Department of Engineering Services

CORPUS CHRISTI INTERNATIONAL AIRPORT
AIRPORT OPERATIONS AREA
PERIMETER FENCING

ELECTRICAL DETAILS V

SHEET 86 of 97
RECORD DRAWING NO.
AP–142
CITY PROJECT # E15221

REVISION NO. | DATE | BY | DESCRIPTION

Attachment B: Bid/Pricing Schedule

CITY OF CORPUS CHRISTI
CONTRACTS AND PROCUREMENT
BID FORM

RFB No. 4870
Demolition of Aircraft East General Aviation Hangar One

Date: 7/27/2023

Bidder: Coastal Bend Demolition, Inc.

Authorized Signature:

1. **Refer to "Instructions to Bidders" and Contract Terms and Conditions before completing bid.**
2. **Quote your best price for each item.**
3. **In submitting this bid, Bidder certifies that:**
   a. the prices in this bid have been arrived at independently, without consultation, communication, or agreement with any other Bidder or competitor, for the purpose of restricting competition with regard to prices.
   b. Bidder is an Equal Opportunity Employer, and the Disclosure of Interest information on file with City's Contracts and Procurement office, pursuant to the Code of Ordinances, is current and true.
   c. Bidder is current with all taxes due and company is in good standing with all applicable governmental agencies.
   d. Bidder acknowledges receipt and review of all addenda for this RFB.

Item	Description	UNIT	Qty	Price
1	Demolition of Aircraft Hangar One	Lumpsum	1	$ 217,500.00
2	Allowance Permit Fee			$9,000.00
Total				$226,500.00

Attachment C: Insurance and Bond Requirements

A. CONTRACTOR'S LIABILITY INSURANCE

1. Contractor must not commence work under this agreement until all insurance required has been obtained and such insurance has been approved by the City. Contractor must not allow any subcontractor Agency to commence work until all similar insurance required of any subcontractor Agency has been obtained.

2. Contractor must furnish to the City's Risk Manager and Contract Administer one (1) copy of Certificates of Insurance (COI) with applicable policy endorsements showing the following minimum coverage by an insurance company(s) acceptable to the City's Risk Manager. The City must be listed as an additional insured on the General liability and Auto Liability policies **by endorsement**, and a waiver of subrogation is required on all applicable policies. **Endorsements** must be provided with COI. Project name and or number must be listed in Description Box of COI.

TYPE OF INSURANCE	**MINIMUM INSURANCE COVERAGE**
Commercial General Liability Including: 1. Commercial Broad Form 2. Premises – Operations 3. Products/ Completed Operations 4. Contractual Liability 5. Independent Contractors 6. Personal Injury- Advertising Injury	$1,000,000 Per Occurrence
AUTO LIABILITY (including) 1. Owned 2. Hired and Non-Owned 3. Rented/Leased	$500,000 Combined Single Limit
WORKERS' COMPENSATION EMPLOYER'S LIABILITY	Statutory $500,000 /$500,000 /$500,000
POLLUTION LIABILITY (Including Cleanup and Remediation) Risk Review	$1,000,000 Per Occurrence

3. In the event of accidents of any kind related to this agreement, Contractor must furnish the Risk Manager with copies of all reports of any accidents within 10 days of the accident.

B. ADDITIONAL REQUIREMENTS

1. Applicable for paid employees, Contractor must obtain workers' compensation coverage through a licensed insurance company. The coverage must be written on a policy and endorsements approved by the Texas Department of Insurance. The workers' compensation coverage provided must be in an amount sufficient to assure that all workers' compensation obligations incurred by the Contractor will be promptly met.

2. Contractor shall obtain and maintain in full force and effect for the duration of this Contract, and any extension hereof, at Contractor's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A-VII.

3. Contractor shall be required to submit a copy of the replacement certificate of insurance to City at the address provided below within 10 days of the requested change. Contractor shall pay any costs incurred resulting from said changes. All notices under this Article shall be given to City at the following address:

City of Corpus Christi
Attn: Risk Manager
P.O. Box 9277
Corpus Christi, TX 78469-9277

4. **Contractor agrees that with respect to the above required insurance, all insurance policies are to contain or be endorsed to contain the following required provisions:**

- List the City and its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement, as respects operations, completed operation and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation policy;

- Provide for an endorsement that the "other insurance" clause shall not apply to the City of Corpus Christi where the City is an additional insured shown on the policy;

- Workers' compensation and employers' liability policies will provide a waiver of subrogation in favor of the City; and

- Provide 30 calendar days advance written notice directly to City of any, cancellation, non-renewal, material change or termination in coverage and not less than 10 calendar days advance written notice for nonpayment of premium.

5. Within 5 calendar days of a cancellation, non-renewal, material change or termination of coverage, Contractor shall provide a replacement Certificate of Insurance and applicable endorsements to City. City shall have the option to suspend Contractor's performance should there be a lapse in coverage at any time during this contract. Failure to provide and to maintain the required insurance shall constitute a material breach of this contract.

6. In addition to any other remedies the City may have upon Contractor's failure to provide and maintain any insurance or policy endorsements to the extent and within the time herein required, the City shall have the right to order Contractor to remove the exhibit hereunder, and/or withhold any payment(s) if any, which become due to Contractor hereunder until Contractor demonstrates compliance with the requirements hereof.

7. Nothing herein contained shall be construed as limiting in any way the extent to which Contractor may be held responsible for payments of damages to persons or property resulting from Contractor's or its subcontractor's performance of the work covered under this agreement.

8. It is agreed that Contractor's insurance shall be deemed primary and non-contributory with respect to any insurance or self insurance carried by the City of Corpus Christi for liability arising out of operations under this agreement.

9. It is understood and agreed that the insurance required is in addition to and separate from any other obligation contained in this agreement.

Attachment D: Warranty Requirements

No warranty is required for this service agreement.

Attachment E:

Federal Requirements

FEDERAL REQUIREMENTS
FR – 13 CERTIFICATION FORM

SUSPENSION AND DEBARMENT REQUIREMENTS FOR ALL CONTRACTS OVER $25,000 49 CFR PART 29

The Proposer/offeror certifies, by this submission of this proposal or acceptance of this contract, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. Proposer further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the Proposer/offeror/contractor or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

_____
Date

_____
Authorized Signature

_____
Print Name

_____
Title of Signer

_____
Company Name

_____
Company Address

_____
City, State, Zip Code

NOTE: Failure to complete the blanks may be grounds for rejecting the Proposal.

FEDERAL REQUIREMENTS
FR – 14 CERTIFICATION FORM

CERTIFICATION REGARDING LOBBYING

CERTIFICATION FOR CONTRACTS, GRANTS, LOANS,
AND COOPERATIVE AGREEMENTS

The undersigned certifies, to the best of his or her knowledge and belief, that

No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or an employee of any agency, a member of congress, an officer or employee of congress, or an employee of a member of congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement

If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of congress, an officer or employee of congress, or an employee of a member of congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit with this a Standard Form-11, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

_____ _____

Signature Date

_____

Print Name of Authorized Individual

_____

Organization Name