

ADDENDUM NO. 2
to the
PROJECT DOCUMENTS AND SPECIFICATIONS
for
T-HANGAR DEVELOPMENT

Prepared for:
CALHOUN COUNTY

Prepared By:



320 Bayshore Drive, Suite A
Niceville, Florida 32578-2425

AVCON Project No. 2022.0241.01

Addendum Date: November 7, 2024

Note: The bidder shall acknowledge receipt of this addendum on the Bid Form, Page B1-3 in the space provided.

ADDENDUM NO. 2
T-HANGAR DEVELOPMENT
Calhoun County Airport

- Date of Issue:** November 7, 2024
- Bid Submittal Deadline:** Monday, ~~November 18, 2024~~ **December 2, 2024** @ 4:00 pm central time
20859 Central Avenue East, Room 130, Blountstown, Florida 32424
- Notice to all Plan Holders:** Please insert this addendum (2 pages including cover, excluding attachments) into your copy of the Project Contract Documents.

The following changes to the Project Documents and Specifications are issued by the Engineer and shall have the same force and effect as though part of the original issue:

A. Changes to the Project Documents and Specifications:

1. Notice to Bidders **REPLACE**, Page NTB-1 in its entirety with Page NTB-1, attached as **Attachment A** (1 page) hereto.

The Bid Date is moved from November 18, 2024 to December 2, 2024
2. Bid Schedule **REPLACE** BS-1 of 11 to BS-11 of 11 in their entirety with BS-1 of 11 to BS-11 of 11 attached as **Attachment B** (11 pages) hereto.
3. Technical Specifications **REPLACE** Technical Specification H-100 in its entirety with Technical Specification H-100 attached as **Attachment C** (8 pages) hereto.

B. Changes to the Drawings:

1. Civil Sheets **REPLACE** Sheets G-2, G-3, C-1, C-2, C-3, C-4, C-6, C-7, C-12, C-13, and C-15 in their entirety with the sheets attached as **Attachment D** (11 pages) hereto.
2. Architectural Sheet **ADD** Sheet A1.11 attached as **Attachment E** (1 page) hereto.

C. Additional Information:

1. Pre-Bid Conference Please find attached the meeting minutes and sign-in sheet from the Pre-Bid Conference attached as **Attachment F** (6 pages) hereto.
2. Responses to Plan-Holder Questions Please find attached responses to plan-holder questions attached as **Attachment G** (3 pages) hereto.

END OF ADDENDUM NO. 2

NOTICE TO RECEIVE SEALED BIDS

The Calhoun County Board of County Commissioners will receive sealed bids from any qualified person, company or corporation interested in providing construction services for the following project:

T-Hangar Development at Calhoun County Airport

This project consists of furnishing and constructing 20 T-Hangars units with associated pavement, utilities, and stormwater, and site improvements.

A digital copy of the Plans and Specifications can be obtained at AVCON, INC., 320 Bayshore Drive, Suite A, Niceville, Florida 32578, (850) 678-0050. (For questions, please call John Collins at (850) 678-0050 or jcollins@avconinc.com) The bid must conform to Section 287.133(3) Florida Statutes, on public entity crimes.

Completion date for this project will be 180 days from the date of the Notice to Proceed presented to the successful bidder.

100% Payment & Performance Bonds will be required.

Liquidated damages for failure to complete the project on the specified date will be set at \$1,000.00 per day.

Please indicate on the envelope that this is a sealed bid, for the "T-Hangar Development at Calhoun County Airport."

Bids will be received until 4:00 p.m. (C.T.), on Monday, ~~November 18, 2024~~ **December 2, 2024** at the Calhoun County Clerk's Office, Calhoun County Courthouse, 20859 Central Avenue East, Room 130, Blountstown, Florida 32424, and will be opened and read aloud on ~~Tuesday, November 5, 2024~~ **December 3, 2024**, at 2:00 p.m. (C.T.). Calhoun County Board of Commissioners is an Equal Opportunity Employer/Handicapped Accessible/Fair Housing Jurisdiction.

A non-mandatory Pre-Bid Conference will be conducted at the Calhoun County Airport at 16701 NW Agri Park Rd, Altha, FL 32421 on Wednesday, September 18, 2024 at 11:00 a.m. (C.T.). Questions relating to the Project Documents will be answered at that time. Attendance by prospective prime contractors is strongly recommended.

The Calhoun County Board of Commissioners reserves the right to reject any and all bids. All Bids shall remain firm for a period of ninety days after the opening. All bidders shall comply with all applicable State and local laws concerning licensing registration and regulation of contractors doing business to the State of Florida.

BID SCHEDULE - UNIT PRICES
 (This is a Unit Price Contract)

BIDDER: _____ **DATE:** _____

AIRPORT NAME: Calhoun County Airport
PROJECT DESCRIPTION: T-Hangar Development

BID SCHEDULE

Base Bid – South T-Hangar Development

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
1	101-1	Mobilization _____ dollars and _____ cents	LS	1		
2	101-3	Dewatering _____ dollars and _____ cents	LS	1		
3	102-1	Maintenance of Traffic _____ dollars and _____ cents	LS	1		
4	104-1	Prevention, Control, and Abatement of Erosion and Water Pollution _____ dollars and _____ cents	LS	1		
5	110-1	Miscellaneous Demolition _____ dollars and _____ cents	LS	1		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
6	120-1	Unclassified Excavation and Embankment _____ dollars and _____ cents	LS	1		
7	160-1	8" Stabilize Subgrade _____ dollars and _____ cents	SY	2,500		
8	204-1	8" Graded Aggregate Base Course _____ dollars and _____ cents	SY	2,300		
9	334-1	4" Bituminous Surface Course (PG 76-22) _____ dollars and _____ cents	TN	605		
10	425-1	FDOT Type "F" DBI _____ dollars and _____ cents	EA	6		
11	430-1	18" RCP _____ dollars and _____ cents	LF	327		
12	430-3	18" MES _____ dollars and _____ cents	EA	1		
13	522-1	Concrete Sidewalk _____ dollars and _____ cents	SY	100		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
14	981-1	Argentine Bahia Sod _____ dollars and _____ cents	SY	4,400		
15	02660-1	Potable Water Infrastructure _____ dollars and _____ cents	LS	1		
16	02730-1	Sanitary Sewer Infrastructure _____ dollars and _____ cents	LS	1		
17	02730-2	Lift Station _____ dollars and _____ cents	EA	1		
18	F-162-1	7-ft Chain Link Fence with Additional 1-ft Barbed Wire Attachment _____ dollars and _____ cents	LF	600 1,370		
19	F-162-2	24-ft Double-Swing Gate _____ dollars and _____ cents	EA	1		
20	P-620-1	Airfield Pavement Markings with Reflective Media, Yellow _____ dollars and _____ cents	SF	850		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
21	P-620-2	Airfield Pavement Marking Without Reflective Media, Black _____ dollars and _____ cents	SF	1700		
22	H-1	T-Hangar Building No. 3, Complete _____ dollars and _____ cents	LS	1		
23	AL-1	Florida Public Utilities Allowance _____ dollars and _____ cents	AL	1	\$50,000.00	\$50,000.00
24	AL-2	Exterior Building Signage Allowance _____ dollars and _____ cents	AL	1	\$20,000.00	\$20,000.00

TOTAL BASE BID AMOUNT (in words): _____
 _____ Dollars and _____ cents
 (\$ _____)
(amount in numbers)

Note: Total Bid Amount shall equal the total amount for Bid Item No. 1 through 24.

Additive Alternate No. 1 – North T-Hangar Development

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
1	101-1	Mobilization _____ dollars and _____ cents	LS	1		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
2	101-2	Dewatering including Sheet Piles _____ dollars and _____ cents	LS	1		
3	102-1	Maintenance of Traffic _____ dollars and _____ cents	LS	1		
4	104-1	Prevention, Control, and Abatement of Erosion and Water Pollution _____ dollars and _____ cents	LS	1		
5	110-1	Miscellaneous Demolition _____ dollars and _____ cents	LS	1		
6	120-1	Unclassified Excavation and Embankment _____ dollars and _____ cents	LS	1		
7	160-1	8" Stabilized Subgrade _____ dollars and _____ cents	SY	2,500		
8	204-1	8" Graded Aggregate Base Course _____ dollars and _____ cents	SY	2,300		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
9	204-2	Graded Aggregate (Gravel)	SY	330		
10	334-1	4" Bituminous Surface Course (PG76-22) _____ dollars and _____ cents	TN	550		
11	522-1	Concrete Sidewalk _____ dollars and _____ cents	SY	6		
12	522-2	Removable Bollard _____ dollars and _____ cents	EA	327		
13	981-1	Argentine Bahia Sod _____ dollars and _____ cents	SY	4,000		
14	F-162-1	7 ft Chain Link Fence with Additional 1 ft Barbed Wire Attachment _____ dollars and _____ cents	LF			
15	P-620-1	Airfield Pavement Markings with Reflective Media, Yellow _____ dollars and _____ cents	SF	1		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
16	P-620-2	Airfield Pavement Markings Without Reflective Media, Black _____ dollars and _____ cents	SF	1		
17	H-2	T-Hangar Building No.1, Complete _____ dollars and _____ cents	LS	1		

TOTAL ADDITIVE ALTERNATE NO. 1 AMOUNT (in words): _____
 _____ Dollars and _____ cents
 (\$ _____)
 (amount in numbers)

Note: Total Additive Alternate No. 1 Amount shall equal the total amount for Bid Item No. 1 through 17.

Additive Alternate No. 2 – Central T-Hangar Development

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
1	101-1	Mobilization _____ dollars and _____ cents	LS	1		
2	101-3	Dewatering _____ dollars and _____ cents	LS	1		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/ Item
3	102-1	Maintenance of Traffic _____ dollars and _____ cents	LS	1		
4	104-1	Prevention, Control, and Abatement of Erosion and Water Pollution _____ dollars and _____ cents	LS	1		
5	104-1	Miscellaneous Demolition _____ dollars and _____ cents	LS	1		
6	110-1	Unclassified Excavation and Embankment _____ dollars and _____ cents	LS	1		
7	120-1	8" Stabilized Subgrade _____ dollars and _____ cents	SY	1,350		
8	160-1	8" Graded Aggregate Base Course _____ dollars and _____ cents	SY	1,300		
9	334-1	4" Bituminous Surface Course (PG76-22) _____ dollars and _____ cents	TN	290		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
10	425-1	<i>FDOT Type "F" DBI</i> _____ <i>dollars and</i> _____ <i>cents</i>	EA	1		
11	430-2	24" RCP _____ dollars and _____ cents	LF	79		
12	430-4	24" MES _____ dollars and _____ cents	EA	1		
13	522-1	Concrete Sidewalk _____ dollars and _____ cents	SY	140		
14	522-2	Removable Bollard _____ dollars and _____ cents	EA	1		
15	522-3	Permanent Bollard _____ dollars and _____ cents	EA	4		
16	981-1	Argentine Bahia Sod _____ dollars and _____ cents	SY	1,900		
17	P-620-1	Airfield Pavement Markings with Reflective Media, Yellow _____ dollars and _____ cents	SF	138		

Bid Item No.	Item No.	Item Description & Unit Price Bid In Words	Unit	Estimated Quantity	Unit Price	Total Amount/Item
18	P-620-2	Airfield Pavement Markings Without Reflective Media, Black _____ dollars and _____ cents	SF	275		
19	H-3	T-Hangar Building No.2, Complete _____ dollars and _____ cents	LS	1		

TOTAL ADDITIVE ALTERNATE NO. 2 AMOUNT (in words): _____

_____ Dollars and _____ cents
 (\$ _____)
(amount in numbers)

Note: Total Additive Alternate No. 2 Amount shall equal the total amount for Bid Item No. 1 through 19.

The Bidder represents that it has examined the site of the Work and informed itself fully in regard to all conditions pertaining to the place where the work is to be done; that it has examined the plans and specifications for the work and other Contract Documents relative thereto and has read all of the Addenda furnished prior to the opening of the Bids, as acknowledged below; and that it has otherwise fully informed itself regarding the nature, extent, scope and details of the Work to be performed.

If provided with a Notice of Intent to Award the Contract by the Owner, the Bidder shall execute and deliver to the Owner all of the documents required by the Contract Documents, including but not limited to, the Addendum to the Agreement and the Performance and Payment Bonds in the form contained in the Contract Documents, furnish the required evidence of the specified insurance coverages, furnish all necessary permits, license, materials, equipment, machinery, maintenance, tools, apparatus, means of transportation and labor necessary to complete the Work.

Dated and signed at _____, _____, this _____ day of _____, 2024.

 Name of Bidder

 Authorized Signature

Title

Mailing Address

City, State, Zip

(Federal ID No. or SS No.)

ITEM H-100

AIRCRAFT T-HANGAR BUILDINGS

SCOPE OF WORK

100-1.1 The Contractor shall furnish all labor and materials to completely design, install, at the locations shown on the plans, braced frame metal buildings, designed for a 125 mph wind load, or greater wind load if required by the latest edition of the building code. The building shall be designed in accordance with Florida Building Code 2023, Edition 8 (or current edition). The Florida Building Code 2023 allows the use of ASCE 7-22 where the ultimate wind speed shall be 125 mph for the Calhoun County Airport location. The hangar buildings shall be designed and fabricated as permanent structures, but shall be capable of being disassembled, moved and relocated with no loss of material except concrete floor slab and anchor bolts.

100-1.2 The items to be furnished by the contractor shall include, but not be limited to, the following:

a. T-Hangar #1: One braced, structural steel frame metal building consisting of two hangars and an approximately 88 ft by 52 ft open bay with steel siding and roof. The dimensions will be based on the plans provided on Sheet C-6. The hangar building shall include 2 fully nested hangar bays and one open bay with partitions and individual electrically operated one-piece hydraulic doors.

b. T-Hangar #2: One braced, structural steel frame metal 6-unit hangar building with steel siding and roof. The dimensions will be based on the plans provided on Sheet C-6. The hangar building shall include 6 fully nested hangar bays with partitions and individual electrically operated one-piece hydraulic doors.

c. T-Hangar #3: One braced, structural steel frame metal 12-unit hangar building with steel siding and roof. This building will include one restroom as depicted in the plans. The dimensions will be based on the plans provided on Sheet C-6. The hangar building shall include 12 fully nested hangar bays with partitions and individual electrically operated one-piece hydraulic doors.

d. Reinforced concrete footings and slab-on-grade for each building. (Minimum 6" slab, minimum 3,500 psi concrete at 28 days).

e. All necessary wiring and lighting as specified or required for full functioning and code compliance. This also includes a new power service from existing utility company power line.

100-1.3 The Contractor shall secure all necessary permits, including a building permit from the Calhoun County Building Department, at no cost to the Owner. All construction shall meet the requirements of the Florida Building Code, latest Edition with amendments in force at the time the contract is awarded, Health Department Regulations, Fire Codes and all other applicable codes.

100-1.4 The Contractor shall submit five sets of complete drawings and engineering calculations of the structure and its foundation. Drawings and calculations shall bear the signature and stamp of a registered Professional Engineer licensed to practice in the State of Florida who is competent in structural engineering. The Professional Engineer shall certify that the structure is designed in accordance with the specifications outlined below and accepted engineering practice. The shop drawings and calculations submitted by the contractor shall be complete and self-explanatory so as to permit the Owner to be able to conduct a thorough

review without referring back to the manufacturer. Construction shall not commence until the Contractor has received copies of these drawings bearing the acceptance of the Owner's Engineer. Contractor should allow not less than ten (10) working days for review of these drawings by the Owner's Engineer. Acceptance by the Owner's Engineer does not relieve the Contractor of his obligation to obtain a building permit, including any necessary changes to the drawings and calculations.

100-1.5 The Contractor shall take necessary precautions to protect all material stored on-site, and unfinished construction, from inclement weather, including high winds. Precautions shall include measures to protect public and private property and people from damage or injury due to wind-driven materials.

100-1.6 All activities of the Contractor, subcontractors and individual employees, suppliers or others pertaining to this contract shall be governed by the provisions of safety and security covered elsewhere within the contract documents.

DESIGN DETAILS

100-2.1 Minimum Nominal Interior Dimensions - Each Bay (Basis of Design; Minor differences allowed for alternate acceptable manufacturers.)

a. Fully nested T-hangar with 42 foot door width:

1. Door Opening and Wing Section Width - 41 feet, 6 inches (41'-6")
2. Door Height Clearance - 12 feet, 0 inches (12'-0")
3. Width of Tail Section - 21 feet (21'-0")

100-2.2. GENERAL DESIGN.

a. Braced, structural steel frame with columns and roof beams or other structurally competent system; gabled roof and precision roll-formed metal skin.

b. Column base details shall be designed to permit precise adjustment of columns as to plumb and elevation after erection to insure smooth door operation, and close adherence to frame tolerances.

c. Professional building design and competent erection practices shall eliminate the need for field modification of framing members. If field modification is found to be necessary, the Engineer shall be notified and informed as to modification required. The modifications shall be in accordance with the most rigid standard procedures and approved by the Engineer of Record prior to being made.

d. The roof shall have a minimum slope of 1" in 12".

e. The components and parts of the building (consisting of primary structural steel framing, purlins, girts, necessary bracing and connecting members, and roof and wall panels with ventilators, all with necessary closures and fasteners) shall be indicated on the plans and/or specifications submitted by the bidder. Sectional views shall be provided where necessary to clearly show construction details.

100-2.3 Structural Steel Design: All structural steel mill sections or welded plate sections shall be designed in accordance with the latest edition of AISC "Specifications for Design, Fabrication and Erection of

Structural Steel for Buildings”, and all light gauge cold formed steel structural members shall be designed in accordance with the latest edition of AISI "Specifications for the Design of Light-gauge Cold-Formed Structural Members".

a. This hangar shall be designed to meet the Florida Building Code with a wind-load of 125 mph. and a roof live load of 25 pounds per square foot applied to the rigid frame as specified in the "Recommended Design Practices Manual" of the Metal Building Manufacturer's Association, latest edition (for building height less than 22.8 ft.).

b. Material for all structural members 1/4" and thicker shall be hot-rolled steel meeting the physical and chemical requirements of ASTM Designation A-529 of current issue, thoroughly cleaned and given (1) shop coat of paint.

c. Material for all structural members less than 1/4" thick shall be steel conforming to the mechanical or physical properties of not less than Grade D (50,000 psi yield) per ASTM Designation A-570 of current issue, either zinc-coated (ordered weight of 1.25 ounce) per ASTM-525 or A-446 of current issue, or if uncoated, thoroughly cleaned and given one (1) coat of shop paint.

100-2.4 PRIMARY FRAMING.

a. Structural steel framing members shall consist of welded plate section of columns and roof beams, complete with necessary splice members and plates for bolted assembly.

Welding shall be done in accordance with the American Welding Society Code for Building Construction.

All base plates, cap plates, ridge plates and stiffener plates as required shall be factory welded into place and have the proper bolt connection holes shop fabricated.

All splice plates shall be shop fabricated in proper sizes with bolt connection holes shop fabricated.

Columns and roof beams shall be shop fabricated complete with proper holes in webs and flanges for the attachment of secondary structural members and bracing in proper locations.

b. The end frames of the building shall be cold-formed members designed and fabricated in accordance with latest AISI Specifications.

Endwall frames shall consist of endwall columns, endwall roof beams and endwall posts as required by design criteria.

All base plates, cap plates, ridge plates and stiffeners as required shall be factory welded into place and have the proper bolt connection holes shop fabricated.

All splice plates shall be shop fabricated complete with proper holes for the attachment of secondary structural members in proper location.

Necessary endwall posts and holes for connection to the braced frame used in the endwall shall be shop fabricated.

100-2.5 SECONDARY STRUCTURAL MEMBERS.

a. Purlins and Girts. Purlins shall be precision roll formed and shall be attached to braced frames by means of factory formed and punched angle clips. Girts shall be precision roll formed.

b. Bracing. Boxed struts shall be used when required for load conditions. Flange braces shall be cold-formed and installed as required.

100-2.6 STRUCTURAL PAINTING. All structural steel components shall be factory cleaned to remove all loose dirt, grease and mill scale and then painted with one (1) coat of iron oxide primer formulated to equal or exceed the performance requirements of Federal Specifications TT-P-636. The Contractor shall touch-up the prime coat after erection.

100-2.7 FASTENERS. All foundation anchor bolts shall be of black ASTM A-36 steel, unpainted and of proper size to adequately resist all applicable design loads at base of the wind vents and walls. They shall be positioned by the contractor according to the dimensions shown on the anchor bolt layout.

a. All high strength bolts shall be black unpainted steel and shall conform to the tentative specifications for steel machine bolts and nuts and tab bolts ASTM Designation A-325 of current issue.

All other bolts, nuts and tap bolts shall be in accordance with tentative specifications ASTM Designation A-307 of current issue and shall be electrogalvanized conforming to ASTM Designation A-164 of current issue. In addition, a chromate conversion treatment shall be applied over the protective zinc coating.

All sheet metal screws and/or self-tapping screws and rivets shall be of mechanical zinc coated galvanized, low profile, long life fasteners that will not compromise the structure warranty. Exposed fasteners shall be finished painted to match wall or roof panel color. The fasteners shall have EPDM Sealing Washers for weather tight connections.

100-2.8 ROOF AND WALLS.

a. Roof covering shall be panels with 1 1/4 inch minimum depth interlocking ribs of not less than 26 gauge galvalume steel. The panel is to be one piece from eave to ridge and applied with the ribs upstanding and parallel to the roof slope. The panel shall be adequately bolted at manufacturer's recommendation.

b. *3" VRR insulation with an R13 value shall be installed in all roofs. No insulation is required in the doors or walls.*

c. Install opaque roof covering for skylight, one approximately 25 S.F. panel, on each side of roof per hangar bay. Cross-section of this cover shall be the same as the metal sheets.

All roof covering shall be properly flashed and/or caulked at the eave, ridge and rake with necessary fascia, ridge cover, etc.

d. The wall covering shall be of not less than 26-gauge painted galvalume steel. Wall panels shall be supplied in continuous lengths from base to eave height with no horizontal joints except over and/or under door and louver openings. At the gable end, wall splices will not be permitted.

All walls shall be properly flashed and/or caulked at the eave and rake.

Where required by building codes or standards and where shown on the drawings, fire walls shall be included in contractors bid. Fire walls shall be constructed per approved UL design.

e. All roof and wall covering, ridge cover, gable flashing, wall cap and fascia shall be of steel having a minimum yield point of 50,000 psi, conforming to mechanical properties in accordance with ASTM Designation A-525 Grade A and the protective coating previously specified.

f. **Ridge Vents.** One (1) nine-inch throat, by ten-foot long ridge vent with chain-operated damper and bird screen, shall be provided such that each bay has one totally contained within its space.

g. **Partitions.** Install interior partitions between each bay unit and for the Electrical Room compartment. Partitions shall include a 6" curb for spill containment meeting NFPA 409 Standards. Except where fire walls are indicated, partition material shall be 26-gauge galvalume steel. Height of partition shall be a minimum of 10' *extend from the floor to the underside of the roof* ~~The remaining opening to the ceiling shall be spanned by galvanized chain-link fence to provide closure to roof,~~ or, where partition is under roof beam, to bottom of roof beam, and shall extend from wall sheet to wall sheet (no voids at girts).

Partitions that are Fire walls shall be constructed at the locations shown on the Drawings. Fire walls shall be in accordance with Taylor County requirements and UL listing. Fire caulk shall be used to seal walls at floor, ceiling, and any penetration. All fire walls shall be primed and sealed with a premium acrylic-latex primer sealer with a maximum coverage of 400 square feet per gallon at 4 mils wet- and 1.6 mils dry finished thickness. The primer/sealer shall be suitable for topcoat with latex, oil, water based epoxy, or solvent based epoxy system. Primer/sealer shall be PREPRITE CLASSIC B28W101, as manufactured by Sherwin Williams, O.E.

h. **Fire Extinguishers.** Each separate Hangar Unit and the Electrical Room shall be furnished with a wall mounted fire extinguisher. The fire extinguishers shall be Ten-pound (10 lb.) Type BC. The fire extinguishers shall be mounted near the manway doors to the Hangars and the Electrical Room, as directed by the Owner.

100-2.9 HANGAR DOORS. The Contractor shall provide electrically operated one-piece hydraulic doors for each hangar bay. The successful hangar manufacturer shall submit, upon request, an engineering analysis showing that the proposed door in the closed position will sustain the wind loads specified for this hangar. This analysis must be in accordance with A.I.S.C. and A.I.S.I. codes, and the Florida Building Code. Additional performance specifications for electrically operated one-piece hydraulic doors are as follows.

a. **Electric one-piece hydraulic doors.** For each bay unit furnished with a one-piece hydraulic type, electrically operated overhead door, each door shall be controlled by a single operating switch which will in turn control a dedicated 1 H.P., single phase electric motor, necessary worm gear and speed reducer. Door frames shall be made of galvanized steel and covered with ribbed or pressed sheeting not less than 26 gauge (60,000 lb. min. tensile strength) painted galvalume steel. Door frames shall be fabricated for field bolting assembly. Door sheeting shall be prepunched for accurate assembly using the same hardware as specified for walls.

Each door shall have a weathering flap consisting of vinyl weatherstrip at the bottom to make contact with the foundation. The one-piece hydraswing door shall be operated via the electric motor to be raised and lowered. Each hydraswing door shall contain a hinged entrance man-way door not less than 36" wide by 6'6" high. Each walk-in door shall be fitted with a cylinder-type lock and spring hinges.

In addition to the normal electric service for each unit there shall also be the required electrical hook up for the electrically operated bifold doors. This will involve connecting the 240 volt one horsepower electric door motors to the drum switches and limit switches. Motors, drum switches and limit switches are to be furnished, installed and are included in the lump sum pay-item for the hangar.

100-2.10 FOOTINGS AND SLAB.

a. Subgrade. Saw-cut and completely remove concrete pavement and base a minimum of 5-feet outside the perimeter of the foundation. Shape and compact the subgrade as required for the foundation design, adding or subtracting suitable material as necessary. Subgrade shall be compacted to 100% of maximum dry density as determined by ASTM D698, in accordance with specification P-152 specification, Excavation and Embankment. Tests shall be taken after completion of subgrade preparation and setting of forms. Samples shall be taken and tests performed at locations designated by the Engineer/Inspector by an independent, certified laboratory approved by the Engineer, at the expense of the Contractor. Results shall be sent directly to the Engineer/Inspector. Termite treatment and six (6) mil Visqueen vapor barrier shall be used over the subgrade ahead of concrete placement.

b. Footings and Slab. The footings and slab shall be of 3,500 psi, minimum 28-day strength concrete. Slab thickness and reinforcement shall be as designed by the metal building Engineer of Record. Column footings shall be as designed by the building design engineer and as necessary to comply with these specifications, and both provided by the contractor. A six (6) mil visqueen vapor barrier shall be installed between the prepared subgrade and the concrete foundation. Laboratory compressive test results indicating compliance shall be submitted by the Contractor. The finished width and length of the foundation shall be as necessary to accommodate the Hangar manufacturer's requirements. The perimeter of the foundation slabs shall have notches as required by the T-Hangar manufacturer to allow all sheeting to extend below finished floor elevation and to prevent water from running into the building.

c. Concrete Compression Testing. The concrete in the foundation footings, and slab, shall be tested for compressive strength at the Contractor's expense, and as described below. Preparation of cylinders, and testing shall be by an independent certified laboratory approved by the Owner's Engineer. All aspects of the preparation of cylinders and testing shall be in accordance with the appropriate ASTM procedure.

Tests will be required on each day's placement. If more than fifty (50) cubic yards are placed in a single day, a test shall be made on each fifty cubic yards, or portion thereof. As a minimum, for each test, three cylinders shall be prepared and stored on site under conditions similar to those conditions affecting the concrete structure which the samples represent. One cylinder shall be tested at seven days, and another at 28 days. The third cylinder shall be held as a spare to test verify unsatisfactory strength results. All test results shall be given to the Engineer, or his Representative/Inspector, by the laboratory representative directly, or by mail. Concrete not meeting specified compressive strength will be subject to removal and replacement at the contractor's expense, if considered necessary by the Owner's Engineer. All aspects of testing described above shall be at the expense of the Contractor.

100-2.11 ELECTRICAL.

Electrical improvements shall be as shown in the electrical plans and specifications.

100-2.12 STATUTORY REQUIREMENTS. Building shall be erected under the provisions of the Florida Building Code and all other applicable Federal, State, or local regulations.

100-2.13 COLOR AND SIGNAGE. The building color shall be submitted for approval by the Owner. The hangar signage shall consist of individual T-hangar numbers mounted above the bay door. The numbering shall be as indicated on the plans.

GUARANTEES

100-3.1 GUARANTEES AND CERTIFICATIONS. The metal building manufacturer and/or dealer shall submit all applicable guarantees and/or certifications for the product to the Owner at the time the building drawings are submitted for approval, before delivery of materials.

100-3.2 BUILDING WARRANTIES. Building shall have a twenty (20) year warranty on structural framework, siding and roof materials and a general, one-year (1) warranty on workmanship by the contractor, and on other materials. In addition to the general one-year warranty, the contractor shall also provide a five-year (5) warranty that the roof, sky lights, eaves, vents, and building envelope will be properly flashed, caulked, and otherwise weather proofed so as to be leak-free for the five-year period.

100-3.3 DATA TO BE SUBMITTED WITH BID. If the Contractor does not provide this data with his/her proposal the Owner reserves the right to reject his/her bid.

- A. Name of Building Manufacturer.
- B. Name of General Contractor
- C. Manufacturer's catalog data on building, including information on the one-piece hydraulic doors and man-doors.
- D. Sample guarantee of building.
- E. List of the last five T-hangar projects the manufacture has supplied to. This shall include the name of owner, address and telephone number of owner, and the size of project.
- F. List of previous metal building Construction Projects managed by the General Contractor within past five (5) years.
- G. Bidders shall specify all special provisions, guarantees or other proposals that are not spelled out or called for in these specifications.

It shall be the responsibility of the Contractor to thoroughly familiarize himself with, and inspect the site, prior to bidding the job.

BASIS OF PAYMENT

100-4.1 Payment shall be made at the contract lump sum price for the building structure, foundation slab-on-grade, electrical service, electric meter and required electrical connections, interior lighting and power, electric generator if required, mobilization, site work and all incidentals to complete this item. This price shall be full compensation for furnishing all materials and for all preparation, hauling, and placing of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item. 50% payment will be made after the slab-on-grade has been poured and the building structure and cladding is on site. The remaining 50% shall be paid based on percent of completion estimated and agreed to by the Owner in

Monthly Progress Payments. Standard Retainage shall apply in accordance with the provisions of the Contract.

Payment will be made under:

<i>Item H-1</i>	<i>South T-Hangar, Complete</i>	<i>-- per lump sum</i>
<i>Item H-2</i>	<i>North T-Hangar, Complete</i>	<i>-- per lump sum</i>
<i>Item H-3</i>	<i>Central T-Hangar, Complete</i>	<i>-- per lump sum</i>

END OF SECTION H-100



BASE BID - SOUTH T-HANGAR DEVELOPMENT				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	101-3	DEWATERING	LS	1
3	102-1	MAINTENANCE OF TRAFFIC	LS	1
4	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
5	110-1	MISCELLANEOUS DEMOLITION	LS	1
6	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
7	160-1	8" STABILIZED SUBGRADE	SY	2,500
8	204-1	8" GRADED AGGREGATE BASE COURSE	SY	2,300
9	334-1	4" BITUMINOUS SURFACE COURSE (PG76-22)	TN	605
10	425-1	FDOT TYPE "F" DBI	EA	6
11	430-1	18" RCP	LF	327
12	430-3	18" MES	EA	1
13	522-1	CONCRETE SIDEWALK	SY	100
14	981-1	ARGENTINE BAHIA SOD	SY	4,400
15	02660-1	POTABLE WATER INFRASTRUCTURE	LS	1
16	02730-1	SANITARY SEWER INFRASTRUCTURE	LS	1
17	02730-2	LIFT STATION	EA	1
18	F-162-1	7-FT CHAIN LINK FENCE WITH ADDITIONAL 1-FT BARBED WIRE ATTACHMENT	LF	1,370
19	F-162-2	24-FT DOUBLE-SWING GATE	EA	1
20	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	850
21	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	1,700
22	H-1	T-HANGAR BUILDING NO. 3, COMPLETE	LS	1
23	AL-1	FLORIDA PUBLIC UTILITIES ALLOWANCE	AL	1
24	AL-2	EXTERIOR BUILDING SIGNAGE ALLOWANCE	AL	1

ADDITIVE ALTERNATE NO. 1 - NORTH T-HANGAR DEVELOPMENT				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	101-2	DEWATERING INCLUDING SHEET PILES	LS	1
3	102-1	MAINTENANCE OF TRAFFIC	LS	1
4	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
5	110-1	MISCELLANEOUS DEMOLITION	LS	1
6	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
7	160-1	8" STABILIZED SUBGRADE	SY	1,900
8	204-1	8" GRADED AGGREGATE BASE COURSE	SY	1,800
9	204-2	GRADED AGGREGATE (GRAVEL)	SY	330
10	334-1	4" BITUMINOUS SURFACE COURSE (PG76-22)	TN	410
11	522-1	CONCRETE SIDEWALK	SY	160
12	522-2	REMOVABLE BOLLARD	EA	2
13	981-1	ARGENTINE BAHIA SOD	SY	1,700
14	F-102-1	7-FT CHAIN LINK FENCE WITH ADDITIONAL 1-FT BARBED WIRE ATTACHMENT	LF	770
15	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	550
16	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	1,100
17	H-2	T-HANGAR BUILDING NO. 1, COMPLETE	LS	1

ADDITIVE ALTERNATE NO. 2 - CENTRAL T-HANGAR DEVELOPMENT				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	101-3	DEWATERING	LS	1
3	102-1	MAINTENANCE OF TRAFFIC	LS	1
4	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
5	110-1	MISCELLANEOUS DEMOLITION	LS	1
6	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
7	160-1	8" STABILIZED SUBGRADE	SY	1,350
8	204-1	8" GRADED AGGREGATE BASE COURSE	SY	1,300
9	334-1	4" BITUMINOUS SURFACE COURSE (PG76-22)	TN	290
10	425-1	FDOT TYPE "F" DBI	EA	1
11	430-2	24" RCP	LF	79
12	430-4	24" MES	EA	1
13	522-1	CONCRETE SIDEWALK	SY	140
14	522-2	REMOVABLE BOLLARD	EA	1
15	522-3	PERMANENT BOLLARD	EA	4
16	981-1	ARGENTINE BAHIA SOD	SY	1,900
17	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	138
18	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	275
19	H-3	T-HANGAR BUILDING NO. 2, COMPLETE	LS	1

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ADDENDUM #	DATE	REVISION

SUMMARY OF QUANTITIES

RELEASE FOR BID

T-HANGAR DEVELOPMENT
PREPARED FOR
CALHOUN COUNTY AIRPORT

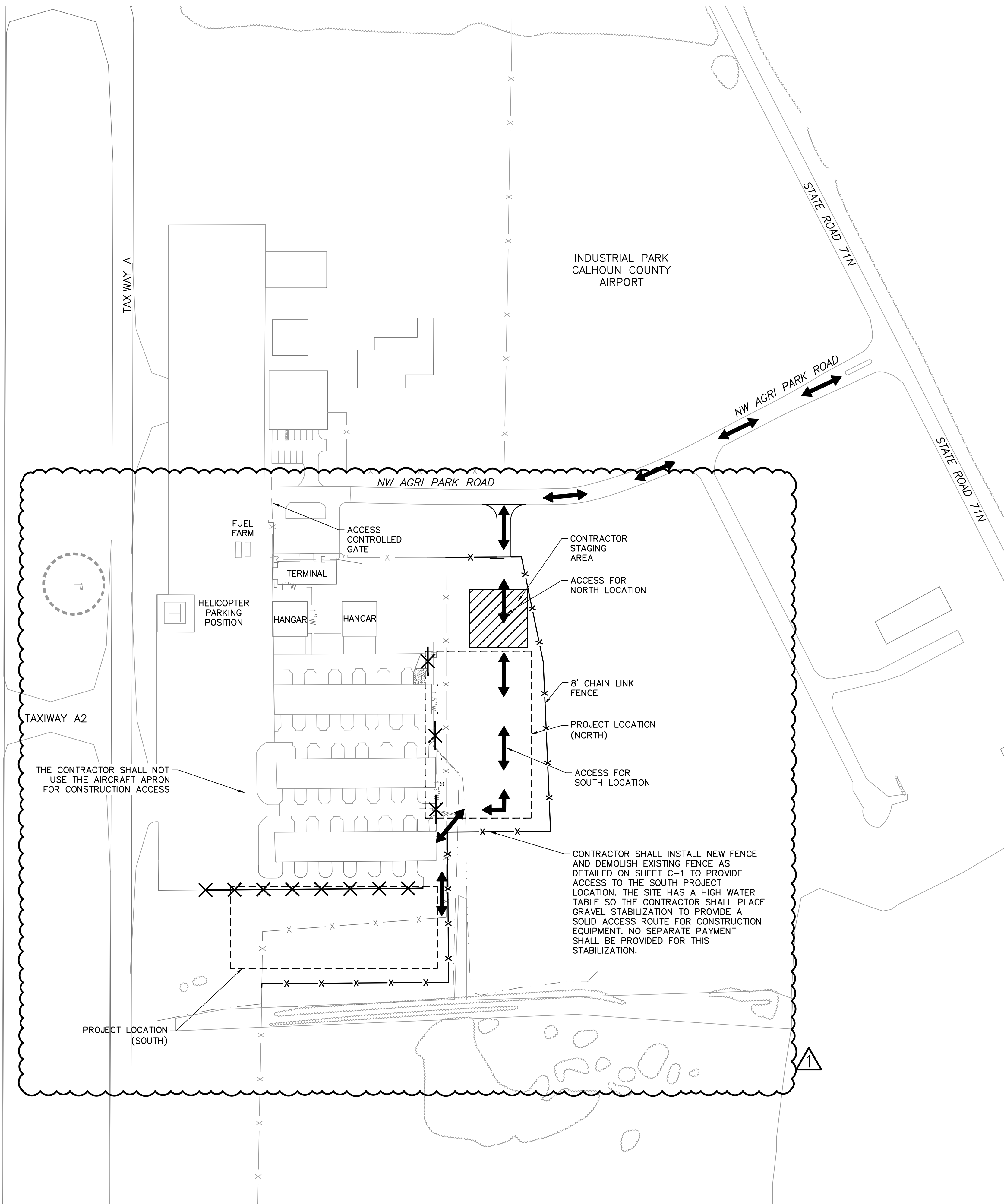
DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
PROJECT NO: 2022.241.01
DATE: AUGUST 2024

SHEET
G-2

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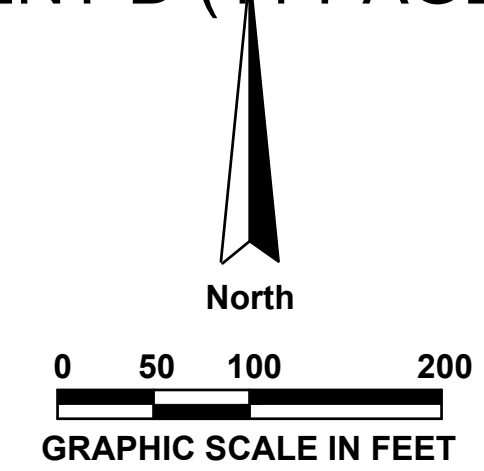
RUNWAY 18-36



NOTES:

- AIRCRAFT OPERATIONS TAKE PRIORITY AT ALL TIMES. CONTRACTOR SHALL YIELD TO AIRCRAFT OPERATIONS AND SHALL ENSURE THAT NO FOD IS LEFT IN THE ACTIVE PAVEMENTS. CONTRACTOR SHALL PROTECT THE EDGES OF ALL PAVEMENTS AND SHALL REPAIR ANY DAMAGE THAT OCCURS.
- IN THE EVENT TEMPORARY HAUL ROUTES ARE REQUIRED, THE CONTRACTOR SHALL CONSTRUCT HAUL ROUTES CAPABLE OF ADEQUATELY SUPPORTING HAULING UNITS. WHEN A HAULING ROUTE IS NO LONGER NEEDED, THE AREA (INCLUDING ALL NEW PAVEMENT DAMAGED FROM HAUL ROUTE CROSSINGS) SHALL BE RESTORED TO ITS ORIGINAL OR PROPOSED CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE SHALL BE AS SPECIFIED ON THE PLANS OR AS APPROVED BY THE ENGINEER AND/OR OWNER. FENCING, DRAINAGE, GRADING, AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE AIRPORT PRIOR TO WORK. ALL WORK REQUIRED TO PROVIDE TEMPORARY HAUL ROUTES SHALL BE INCLUDED IN PAY ITEM 101-1, MOBILIZATION.
- CONTRACTOR SHALL RESTORE CONTRACTOR STAGING AREAS TO THEIR ORIGINAL OR PROPOSED CONDITION AT NO COST TO THE COUNTY.
- BARRICADES TO BE PLACED ALONG THE LIMITS OF THE WORK, AS SHOWN IN THESE PLANS, 2' FROM THE EDGE OF ALL PROPOSED WORK, UNLESS OTHERWISE SHOWN. BARRICADES SHALL BE CONTINUOUS (NO SPACES). BARRICADES SHALL BE PLACED/REMOVED IN ACCORDANCE WITH EACH PHASE OF WORK.
- BARRICADE SECTIONS SHALL BE WHITE WITH ORANGE REFLECTIVE MEDIA. ALL INCIDENTAL CONNECTORS, SPACERS, SPLICE PLATES, ETC. SHALL BE PAINTED WHITE.
- ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED WHEN DEEMED APPROPRIATE BY THE ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY.
- ALL BARRICADES SHALL BE MOVED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP THE DEBRIS WHICH HAS ACCUMULATED AND REMOVE FROM THE SITE. THE BARRICADES SHALL THEN BE REPLACED AT THE APPROPRIATE LOCATION.
- THE CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE BARRICADES.
- REFER TO SHEET G-4 FOR ADDITIONAL INFORMATION ON SAFETY AND SECURITY NOTES.
- CONTRACTOR SHALL ENSURE THAT ALL AREAS ARE COMPLETELY CLEAR OF ALL EQUIPMENT, VEHICLES, MATERIALS, ETC. PRIOR TO OPENING ASSOCIATED PAVEMENTS TO AIRCRAFT.
- CONTRACTOR SHALL COORDINATE BARRICADE LOCATIONS IN THE FIELD AND MODIFY THEIR LOCATIONS AS NEEDED TO ENSURE THAT THE CONSTRUCTION AREAS ARE CLEARLY IDENTIFIED.
- CONTRACTOR SHALL INSTALL LOCK AND CHAIN ON ACCESS GATES (DAISY-CHAIN) DURING CONTRACT TIME. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC THROUGH THE CONSTRUCTION ACCESS GATES. CONTRACTOR SHALL PROVIDE A FLAGGER WHEN GATES ARE TO REMAIN UNLOCKED TO CONTROL CONSTRUCTION TRAFFIC THROUGH THE GATE AND SHALL LOCK THE GATE IF NOT ATTENDED. COST FOR FLAGGER IS INCIDENTAL TO PAY ITEM 101-1, MOBILIZATION.
- CONTRACTOR SHALL UTILIZE STAGING AREA TO MINIMIZE CONSTRUCTION TRAFFIC ACROSS THE AIRPORT.
- CONTRACTOR SHALL IMPROVE STAGING AREA AND ACCESS AS REQUIRED TO SUPPORT CONSTRUCTION TRAFFIC. ALL COSTS ASSOCIATED WITH ACCESS ROAD IMPROVEMENTS SHALL BE INCLUDED IN LUMP SUM PAY ITEM 101-1, MOBILIZATION.
- ALL COSTS FOR CONTROLLING DUST OR POLLUTANTS TO THE AIR OF ANY KIND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAY ITEM SHALL BE PROVIDED.
- AT NO TIME SHALL THERE BE AN UNSECURED GAP IN THE AIRPORT SECURITY FENCE.

ATTACHMENT D (11 PAGES)



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LEGEND

---	PROPERTY LINE
↔	HAUL ROUTE
▨	CONTRACTOR STAGING AREA
✕ ✕	CONSTRUCTION BARRICADE

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ADDENDUM #1	NO.	DATE	REVISION	BY

CONSTRUCTION SAFETY, STAGING AND HAUL ROUTE PLAN

RELEASE FOR BID

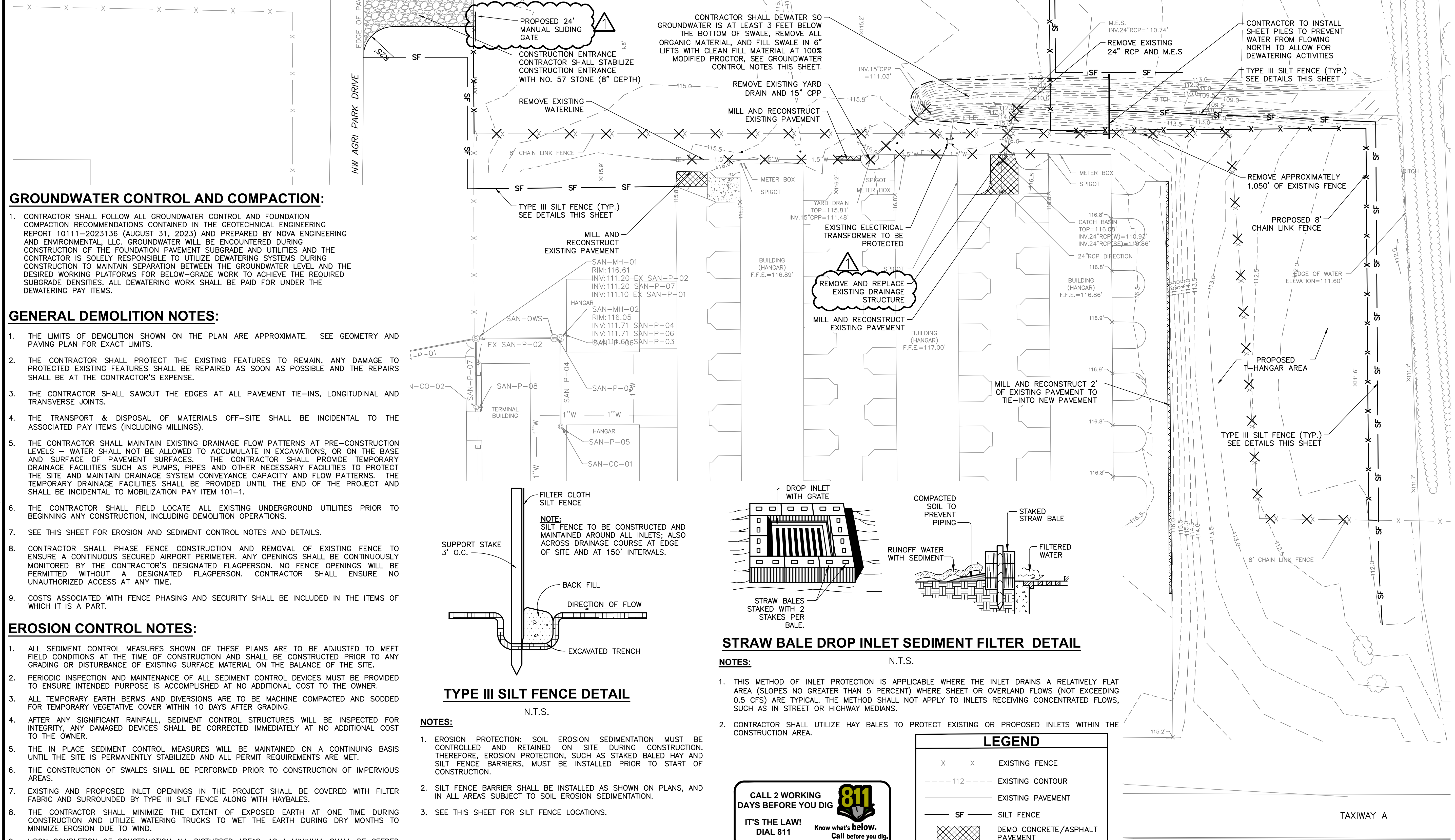
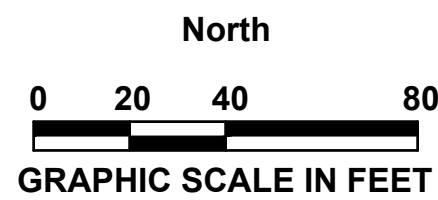
T-HANGAR DEVELOPMENT

PREPARED FOR
CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
PROJECT NO: 2022.241.01
DATE: AUGUST 2024

SHEET G-3

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GROUNDWATER CONTROL AND COMPACTION:

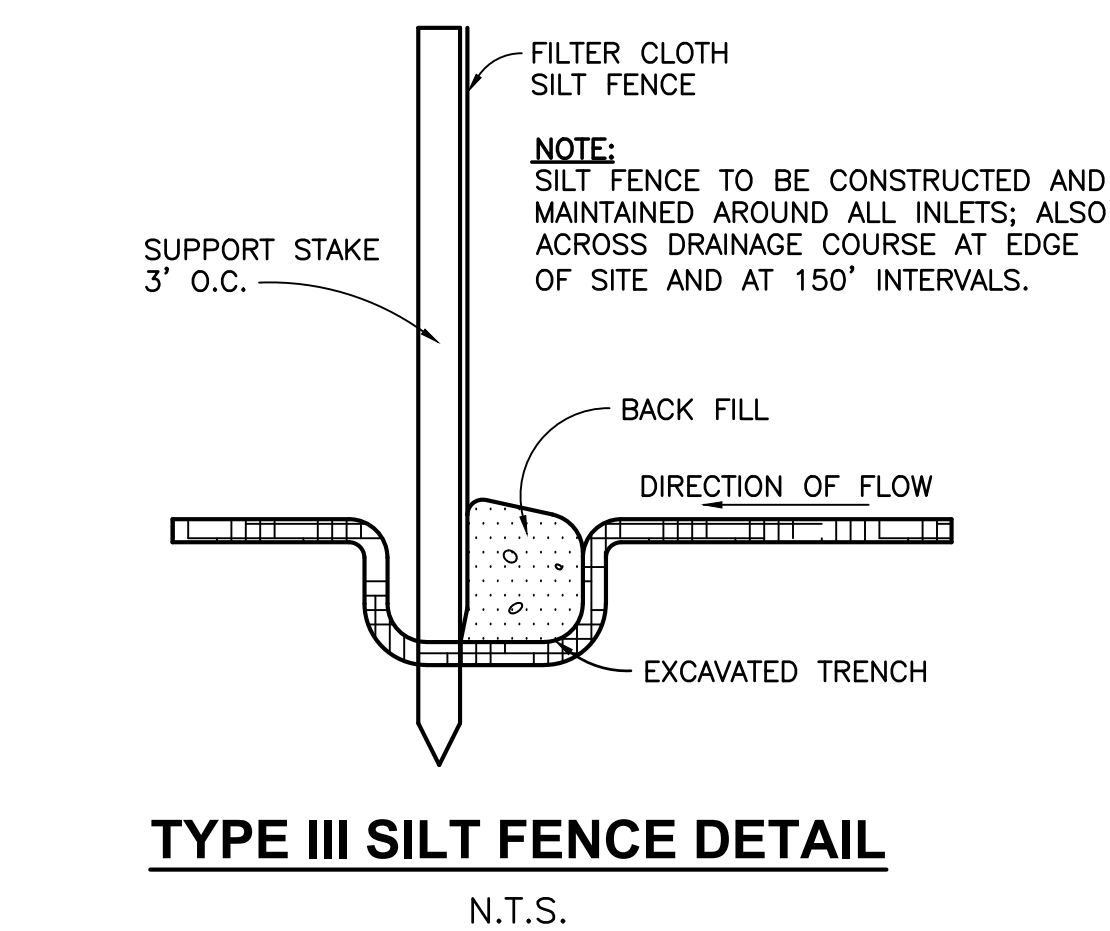
1. CONTRACTOR SHALL FOLLOW ALL GROUNDWATER CONTROL AND FOUNDATION COMPACTION RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT 10111-2023136 (AUGUST 31, 2023) AND PREPARED BY NOVA ENGINEERING AND ENVIRONMENTAL, LLC. GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION OF THE FOUNDATION PAVEMENT SUBGRADE AND UTILITIES AND THE CONTRACTOR IS SOLELY RESPONSIBLE TO UTILIZE DEWATERING SYSTEMS DURING CONSTRUCTION TO MAINTAIN SEPARATION BETWEEN THE GROUNDWATER LEVEL AND THE DESIRED WORKING PLATFORMS FOR BELOW-GRADE WORK TO ACHIEVE THE REQUIRED SUBGRADE DENSITIES. ALL DEWATERING WORK SHALL BE PAID FOR UNDER THE DEWATERING PAY ITEMS.

GENERAL DEMOLITION NOTES:

- THE LIMITS OF DEMOLITION SHOWN ON THE PLAN ARE APPROXIMATE. SEE GEOMETRY AND PAVING PLAN FOR EXACT LIMITS.
- THE CONTRACTOR SHALL PROTECT THE EXISTING FEATURES TO REMAIN. ANY DAMAGE TO PROTECTED EXISTING FEATURES SHALL BE REPAIRED AS SOON AS POSSIBLE AND THE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SAWCUT THE EDGES AT ALL PAVEMENT TIE-INS, LONGITUDINAL AND TRANSVERSE JOINTS.
- THE TRANSPORT & DISPOSAL OF MATERIALS OFF-SITE SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS (INCLUDING MILLINGS).
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE FLOW PATTERNS AT PRE-CONSTRUCTION LEVELS - WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATIONS, OR ON THE BASE AND SURFACE OF PAVEMENT SURFACES. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES SUCH AS PUMPS, PIPES AND OTHER NECESSARY FACILITIES TO PROTECT THE SITE AND MAINTAIN DRAINAGE SYSTEM CONVEYANCE CAPACITY AND FLOW PATTERNS. THE TEMPORARY DRAINAGE FACILITIES SHALL BE PROVIDED UNTIL THE END OF THE PROJECT AND SHALL BE INCIDENTAL TO MOBILIZATION PAY ITEM 101-1.
- THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION, INCLUDING DEMOLITION OPERATIONS.
- SEE THIS SHEET FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
- CONTRACTOR SHALL PHASE FENCE CONSTRUCTION AND REMOVAL OF EXISTING FENCE TO ENSURE A CONTINUOUS SECURED AIRPORT PERIMETER. ANY OPENINGS SHALL BE CONTINUOUSLY MONITORED BY THE CONTRACTOR'S DESIGNATED FLAGPERSON. NO FENCE OPENINGS WILL BE PERMITTED WITHOUT A DESIGNATED FLAGPERSON. CONTRACTOR SHALL ENSURE NO UNAUTHORIZED ACCESS AT ANY TIME.
- COSTS ASSOCIATED WITH FENCE PHASING AND SECURITY SHALL BE INCLUDED IN THE ITEMS OF WHICH IT IS A PART.

EROSION CONTROL NOTES:

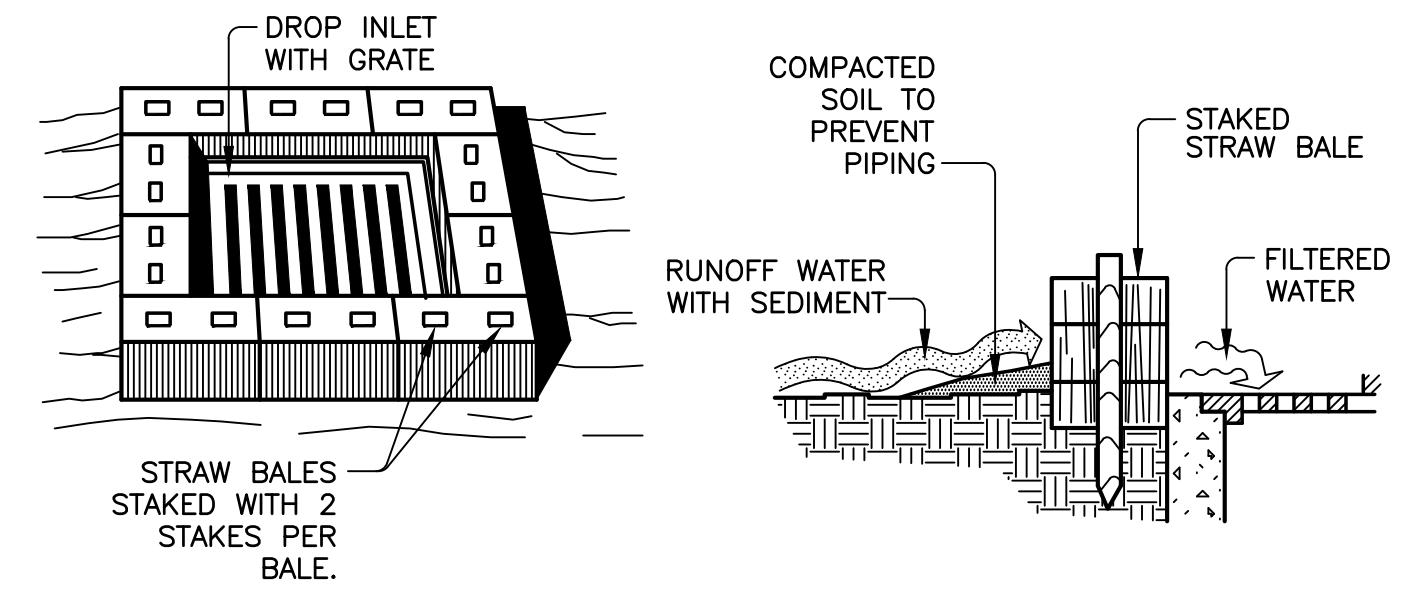
- ALL SEDIMENT CONTROL MEASURES SHOWN OF THESE PLANS ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE BALANCE OF THE SITE.
- PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
- ALL TEMPORARY EARTH BERMS AND DIVERSIONS ARE TO BE MACHINE COMPACTED AND SODDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
- AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY, ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
- THE IN PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.
- THE CONSTRUCTION OF SWALES SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
- EXISTING AND PROPOSED INLET OPENINGS IN THE PROJECT SHALL BE COVERED WITH FILTER FABRIC AND SURROUNDED BY TYPE III SILT FENCE ALONG WITH HAYBALES.
- THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF EXPOSED EARTH AT ONE TIME DURING CONSTRUCTION AND UTILIZE WATERING TRUCKS TO WET THE EARTH DURING DRY MONTHS TO MINIMIZE EROSION DUE TO WIND.
- UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS, AS A MINIMUM, SHALL BE SEEDED AND MULCHED AND COMPACTED EQUIVALENT TO THAT OF NATIVE SURROUNDING EARTH.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.



TYPE III SILT FENCE DETAIL
N.T.S.

NOTES:

- EROSION PROTECTION: SOIL EROSION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
- SEE THIS SHEET FOR SILT FENCE LOCATIONS.



STRAW BALE DROP INLET SEDIMENT FILTER DETAIL
N.T.S.

NOTES:

- THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.
- CONTRACTOR SHALL UTILIZE HAY BALES TO PROTECT EXISTING OR PROPOSED INLETS WITHIN THE CONSTRUCTION AREA.

LEGEND

-x-x-	EXISTING FENCE
- - - -	EXISTING CONTOUR
---	EXISTING PAVEMENT
-SF-	SILT FENCE
[Hatched Box]	DEMO CONCRETE/ASPHALT PAVEMENT
X	TO BE REMOVED

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ADDENDUM #1	BY
11/7/24	NO. DATE
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EXISTING CONDITIONS, EROSION CONTROL & DEMOLITION PLAN

RELEASE FOR BID

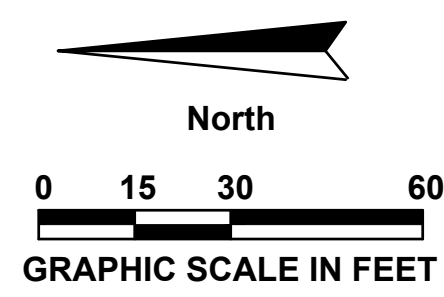
T-HANGAR DEVELOPMENT PREPARED FOR CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
PROJECT NO: 2022.241.01
DATE: AUGUST 2024

SHEET C-1

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NOTES:

- SEE SHEET G-3 FOR CONSTRUCTION SAFETY AND ACCESS PLAN.
- SEE SHEET C-1 FOR LIMITS OF DEMOLITION.
- SEE SHEET C-3 FOR GRADING PLAN AND STORM AND SANITARY INFORMATION.
- SEE SHEET C-10 FOR PAVEMENT SECTION DETAILS.

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ADDENDUM #1	DATE	REVISION	BY
11/7/24			

GEOMETRY PLAN

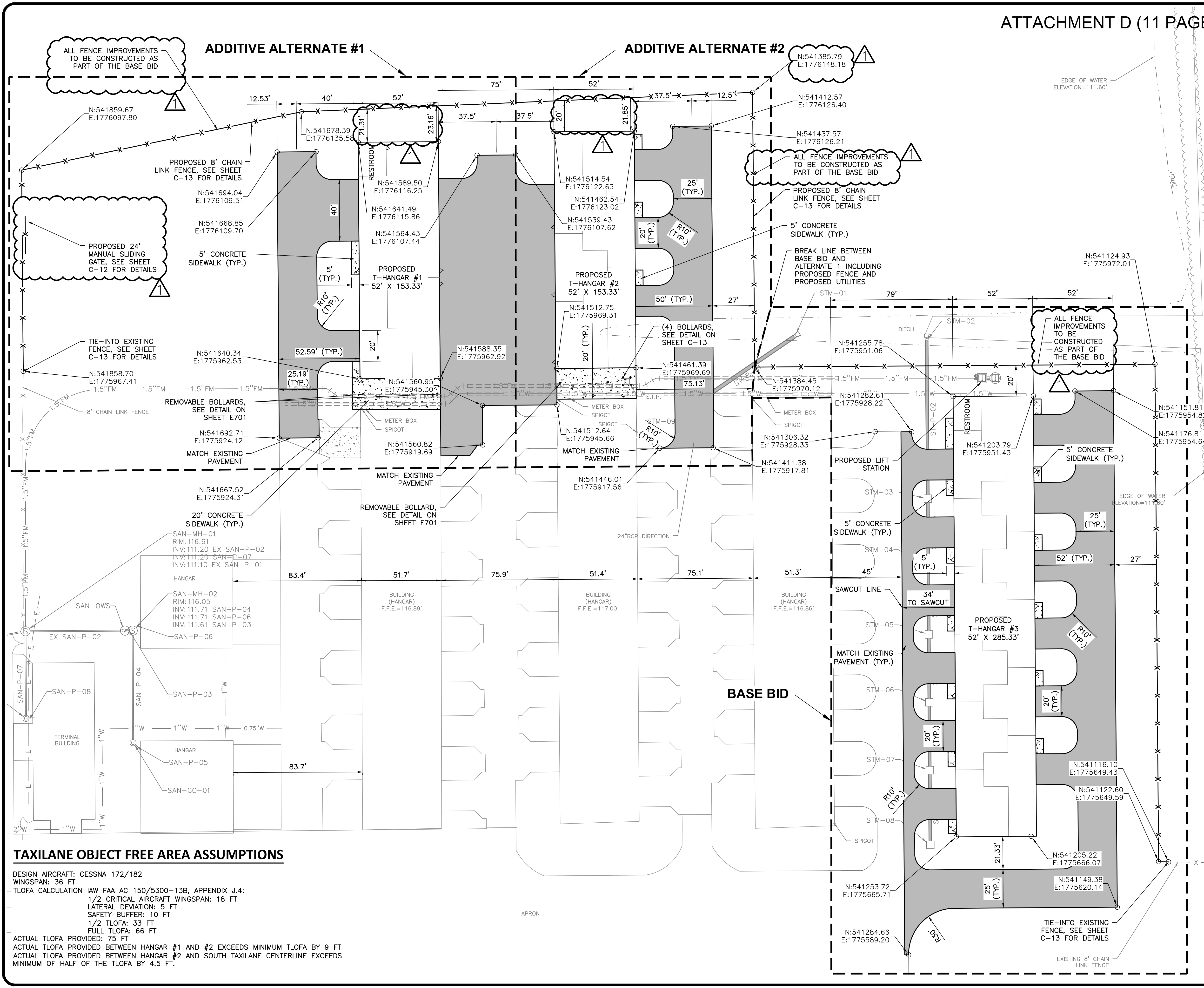
RELEASE FOR BID

T-HANGAR DEVELOPMENT

PREPARED FOR
CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
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SHEET C-2



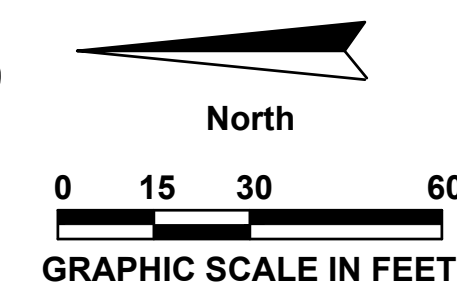
TAXILANE OBJECT FREE AREA ASSUMPTIONS

DESIGN AIRCRAFT: CESSNA 172/182
 WINGSPAN: 36 FT
 TLOFA CALCULATION IAW FAA AC 150/5300-13B, APPENDIX J.4:
 1/2 CRITICAL AIRCRAFT WINGSPAN: 18 FT
 LATERAL DEVIATION: 5 FT
 SAFETY BUFFER: 10 FT
 1/2 TLOFA: 33 FT
 FULL TLOFA: 66 FT
 ACTUAL TLOFA PROVIDED: 75 FT
 ACTUAL TLOFA PROVIDED BETWEEN HANGAR #1 AND #2 EXCEEDS MINIMUM TLOFA BY 9 FT
 ACTUAL TLOFA PROVIDED BETWEEN HANGAR #2 AND SOUTH TAXILANE CENTERLINE EXCEEDS MINIMUM OF HALF OF THE TLOFA BY 4.5 FT.

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LEGEND

	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	EXISTING FENCE
	PROPOSED FENCE
	PROPOSED ASPHALT PAVEMENT

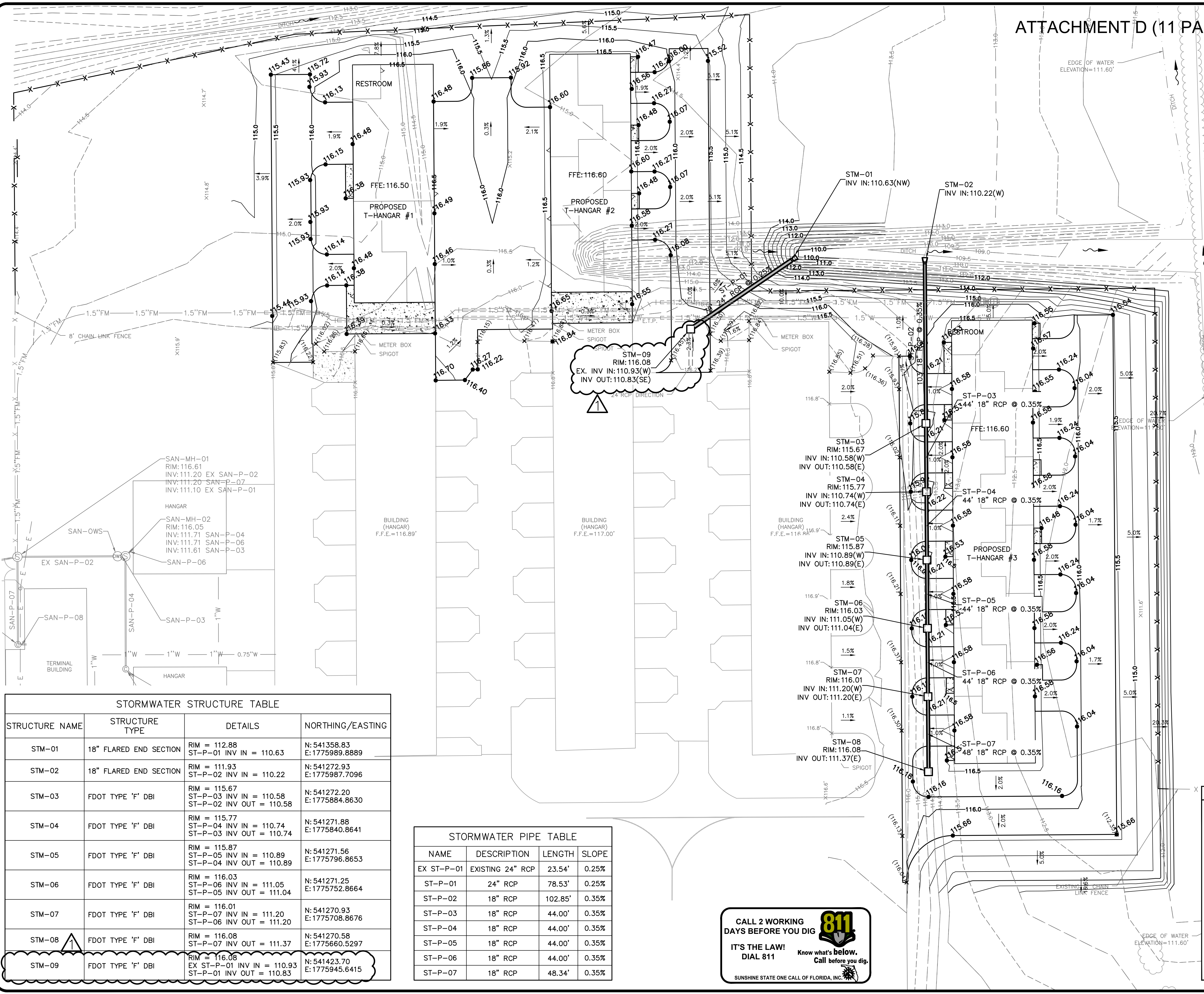


GRADING AND DRAINAGE NOTES:

- SIDE SLOPES OF ALL SWALES AND PONDS SHALL BE NO STEEPER THAN 4:1.(MAX).
- CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO COMMENCING IN ANY CONSTRUCTION ACTIVITIES AND MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ON SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MEASURES ON SITE 24 HOURS A DAY THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION THROUGHOUT CONSTRUCTION SEE SHEET C-1 FOR DETAIL.
- ALL DISTURBED AREAS (INCLUDING RE-GRADED AREA) SHALL BE RETURNED TO ORIGINAL CONDITION.
- ALL SUITABLE MATERIAL EXCAVATED SHALL BE USED IN THE FORMATION OF EMBANKMENTS OR PLACED IN STOCKPILES FOR FUTURE USE IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED OF BY THE CONTRACTOR AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- UNSUITABLE OR UNSTABLE MATERIALS ENCOUNTERED IN THE SUBGRADE PREPARATION SHALL BE UNDERCUT AND STABILIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALWAYS OBTAIN ENGINEER AUTHORIZATION PRIOR TO BEGINNING ANY UNDERCUT EXCAVATION OPERATIONS. UPON COMPLETION OF THE UNDERCUT AND ACCEPTANCE OF THE RESULTING STABLE SUBGRADE BY THE ENGINEER, THE CONTRACTOR SHALL SURVEY THE BOTTOM OF THE UNDERCUT AREA FOR THE PURPOSES OF ESTABLISHING PAYMENT QUANTITIES.
- EXCAVATION LIKELY TO DISLOCATE, DAMAGE, OR IMPAIR THE STRENGTH OF OTHER STRUCTURES ALREADY IN PLACE SHALL BE DONE ONLY AFTER ADEQUATE PROTECTION HAS BEEN PROVIDED FOR THE IN-PLACE STRUCTURES.
- CONTRACTOR SHALL GRADE ALL AREAS AS INDICATED OR DIRECTED BY OWNER. FILL SHALL BE BROUGHT TO FINISH GRADES AS SHOWN AND SHALL BE GRADED TO DRAIN WATER AWAY FROM STRUCTURES.
- CONTRACTOR SHALL PROMOTE POSITIVE DRAINAGE TOWARDS INLETS, NO "BIRD BATHS" OR PONDING SHALL BE ACCEPTED.
- UNPAVED AREAS SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE TO THE STORMWATER RETENTION AREA OR ASSOCIATED INLET.

LEGEND

---	PROPERTY BOUNDARY
-116-	EXISTING CONTOUR
-116-	PROPOSED CONTOUR
---	EXISTING PAVEMENT
---	PROPOSED PAVEMENT
-x-x-	PROPOSED FENCE
● 116.04	PROPOSED SPOT ELEVATION
× (112.35)	EXISTING SPOT ELEVATION
□	PROPOSED STORM INLET
---	PROPOSED STORM PIPE



STRUCTURE NAME	STRUCTURE TYPE	DETAILS	NORTHING/EASTING
STM-01	18" FLARED END SECTION	RIM = 112.88 ST-P-01 INV IN = 110.63	N: 541358.83 E: 1775989.8889
STM-02	18" FLARED END SECTION	RIM = 111.93 ST-P-02 INV IN = 110.22	N: 541272.93 E: 1775987.7096
STM-03	FDOT TYPE 'F' DBI	RIM = 115.67 ST-P-03 INV IN = 110.58 ST-P-02 INV OUT = 110.58	N: 541272.20 E: 1775884.8630
STM-04	FDOT TYPE 'F' DBI	RIM = 115.77 ST-P-04 INV IN = 110.74 ST-P-03 INV OUT = 110.74	N: 541271.88 E: 1775840.8641
STM-05	FDOT TYPE 'F' DBI	RIM = 115.87 ST-P-05 INV IN = 110.89 ST-P-04 INV OUT = 110.89	N: 541271.56 E: 1775796.8653
STM-06	FDOT TYPE 'F' DBI	RIM = 116.03 ST-P-06 INV IN = 111.05 ST-P-05 INV OUT = 111.04	N: 541271.25 E: 1775752.8664
STM-07	FDOT TYPE 'F' DBI	RIM = 116.01 ST-P-07 INV IN = 111.20 ST-P-06 INV OUT = 111.20	N: 541270.93 E: 1775708.8676
STM-08	FDOT TYPE 'F' DBI	RIM = 116.08 ST-P-07 INV IN = 111.37	N: 541270.58 E: 1775660.5297
STM-09	FDOT TYPE 'F' DBI	RIM = 116.08 EX ST-P-01 INV IN = 110.93 ST-P-01 INV OUT = 110.83	N: 541423.70 E: 1775945.6415

NAME	DESCRIPTION	LENGTH	SLOPE
EX ST-P-01	EXISTING 24" RCP	23.54'	0.25%
ST-P-01	24" RCP	78.53'	0.25%
ST-P-02	18" RCP	102.85'	0.35%
ST-P-03	18" RCP	44.00'	0.35%
ST-P-04	18" RCP	44.00'	0.35%
ST-P-05	18" RCP	44.00'	0.35%
ST-P-06	18" RCP	44.00'	0.35%
ST-P-07	18" RCP	48.34'	0.35%

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

AVCON, INC.
 ENGINEERS & PLANNERS
 320 BAYSHORE DRIVE, SUITE A
 NICEVILLE, FL 32578-2425
 OFFICE: (850) 678-0050
 CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 8057
 WWW.AVCONINC.COM

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

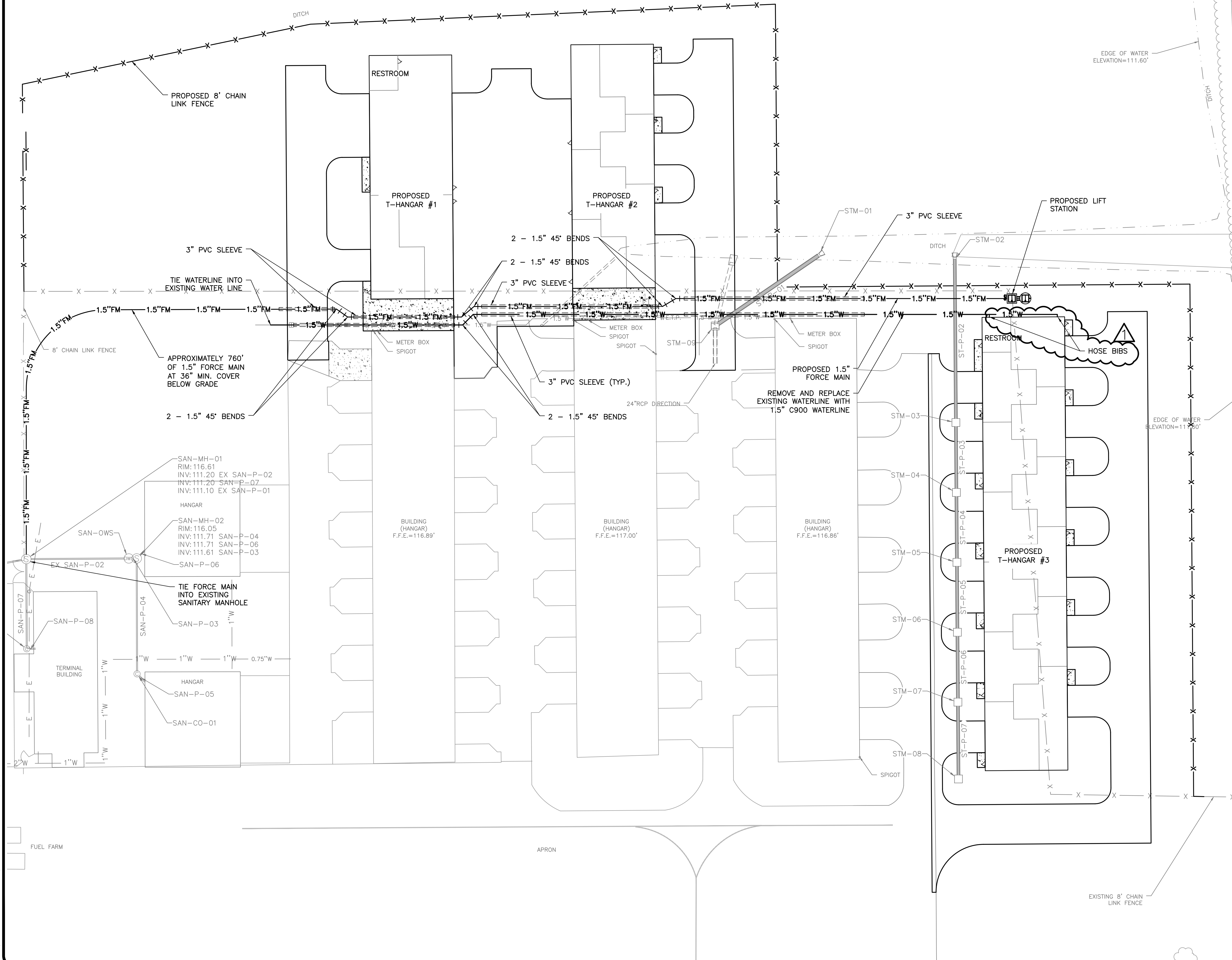
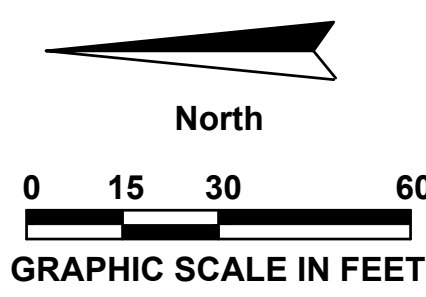
GRADING AND DRAINAGE PLAN

T-HANGAR DEVELOPMENT
 PREPARED FOR
CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
 DRAWN BY: M.A.B.
 CHECKED BY: J.R.C.
 APPROVED BY: V.C.L.
 PROJECT NO: 2022.241.01
 DATE: AUGUST 2024

SHEET C-3

RELEASE FOR BID



UTILITY NOTES:

- 1. THE LOCATION OF UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION...
2. THE CONTRACTOR SHALL HAVE ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION...
3. TAPS TO EXISTING UTILITIES SHALL BE COORDINATED WITH THE LOCAL UTILITY CO...
4. ALL WATER SERVICE PIPING SHALL BE C900 UNLESS OTHERWISE NOTED OR REQUIRED...
5. ALL SEWER PIPING SHALL BE SDR 26 UNLESS OTHERWISE NOTED OR REQUIRED...
6. COORDINATE WITH THE UTILITY PROVIDER FOR ALL INSPECTIONS...
7. SEE UTILITY DETAIL SHEETS FOR MINIMUM HORIZONTAL & VERTICAL SEPARATION...
8. ALL WATER MAINS AND FORCE MAINS SHALL BE ENCASED IN PVC SLEEVE...
9. ALL WATER VALVES AND ASSOCIATED RISERS AND CONCRETE COLLARS SHALL BE INSTALLED OUTSIDE OF SIDEWALKS...

CALL 2 WORKING DAYS BEFORE YOU DIG 811 IT'S THE LAW! Know what's below. Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA, INC.

LEGEND table with symbols for existing and proposed pavement, fence, force main, water, sanitary sewer, manhole, and cleanout.

AVCON, INC. ENGINEERS & PLANNERS 320 BAYSHORE DRIVE, SUITE A NICEVILLE, FL 32578-2425 OFFICE: (850) 678-0050 AUTHORIZATION NUMBER: 9057 www.avconinc.com

Revision table with columns for NO., DATE, REVISION, and BY.

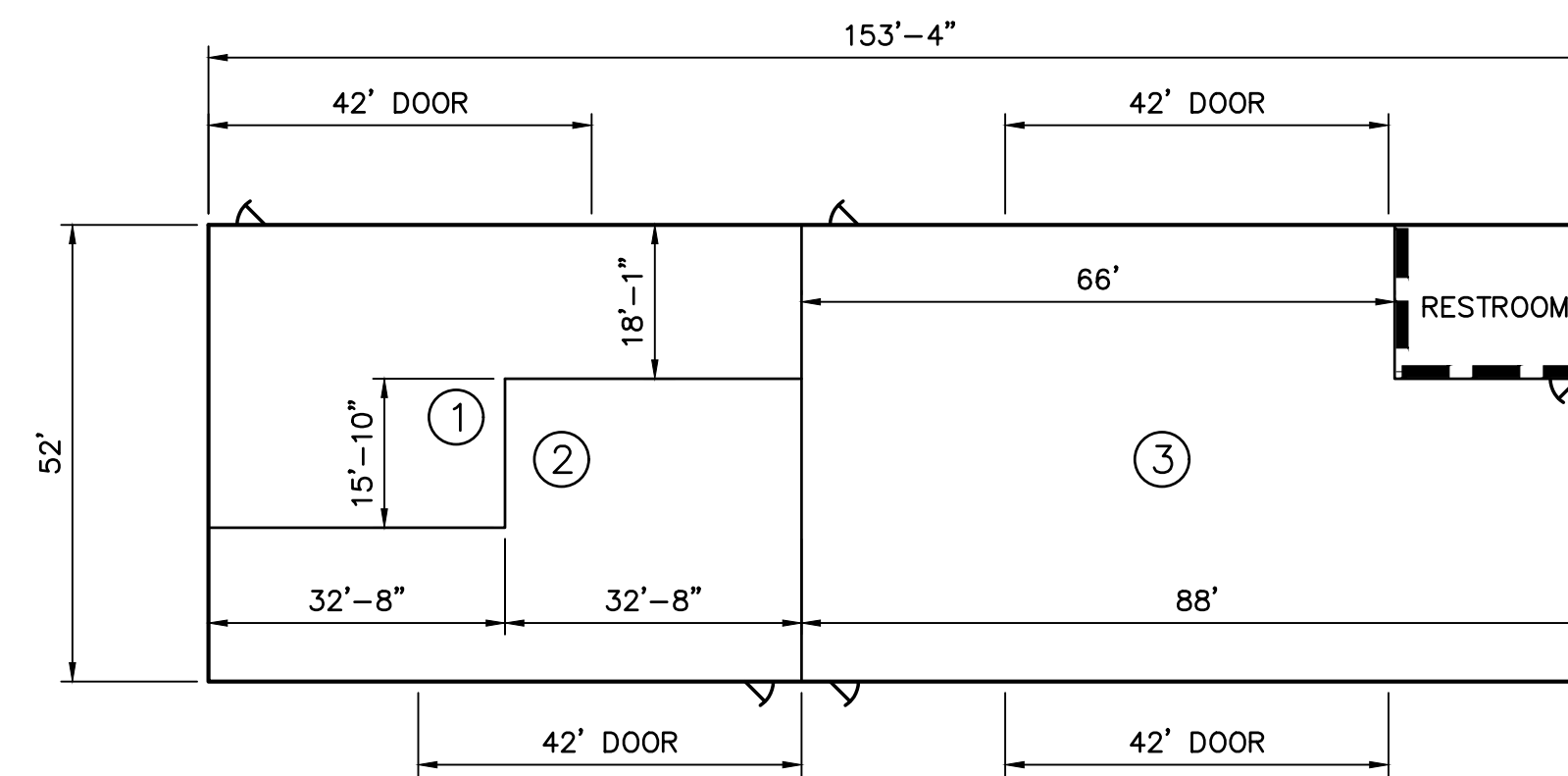
UTILITY PLAN RELEASE FOR BID

T-HANGAR DEVELOPMENT PREPARED FOR CALHOUN COUNTY AIRPORT

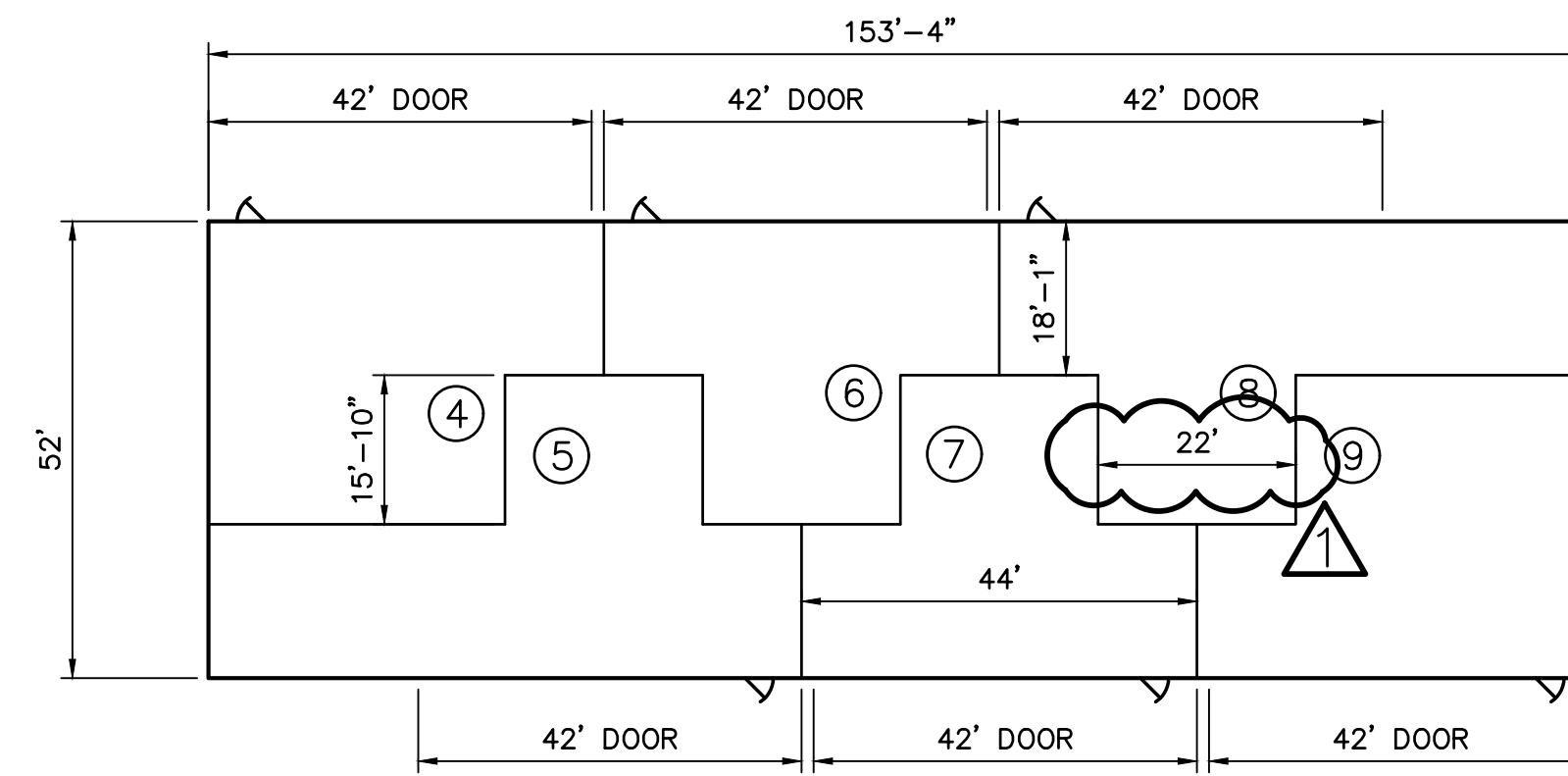
DESIGNED BY: J.R.C. DRAWN BY: M.A.B. CHECKED BY: J.R.C. APPROVED BY: V.C.L. PROJECT NO: 2022.241.01 DATE: AUGUST 2024

SHEET C-4

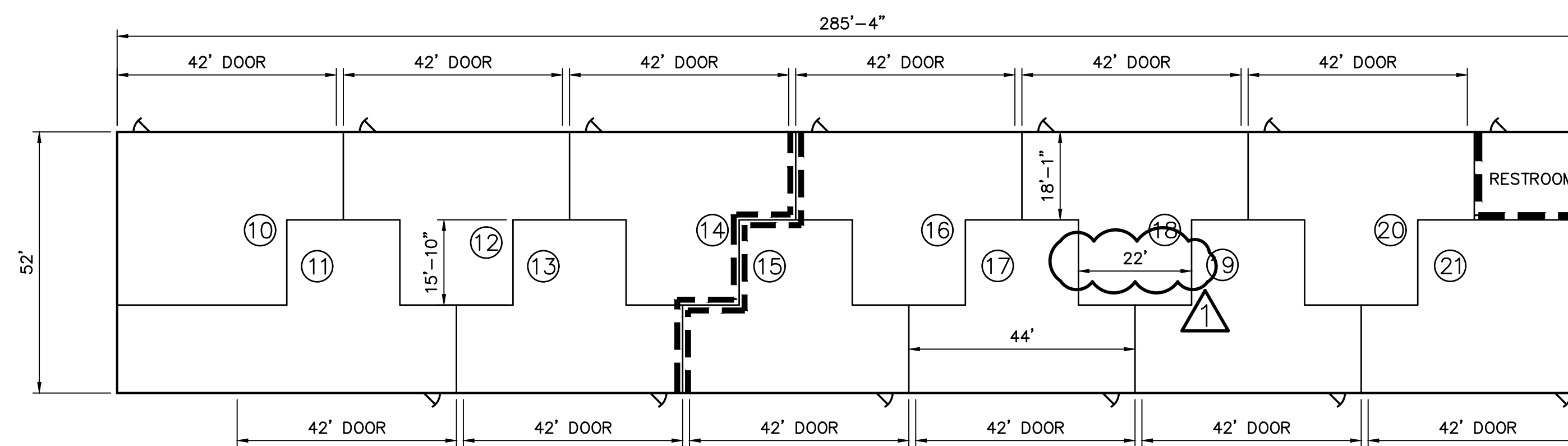
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T-HANGAR #1
 N.T.S.



T-HANGAR #2
 N.T.S.



T-HANGAR #3
 N.T.S.

LEGEND

- 10' GALVALUME PARTITION TOPPED W/ CHAIN LINK FENCE OR APPROVED EQUAL
- 1-HOUR RATED FIRE WALL CURB TO ROOF
- 4-HOUR RATED FIRE WALL CURB TO ROOF
- HANGAR UNIT DESIGNATION

MINIMUM HANGAR DIMENSIONS

HANGARS	MINIMUM CLEAR DOOR WIDTH	MINIMUM CLEAR DOOR HEIGHT
T-HANGAR #1 (UNITS #1-2)	41'-6"	12'-0"
T-HANGAR #2 (UNITS #3-8)	41'-6"	12'-0"
T-HANGAR #3 (UNITS #9-20)	41'-6"	12'-0"

NOTES:

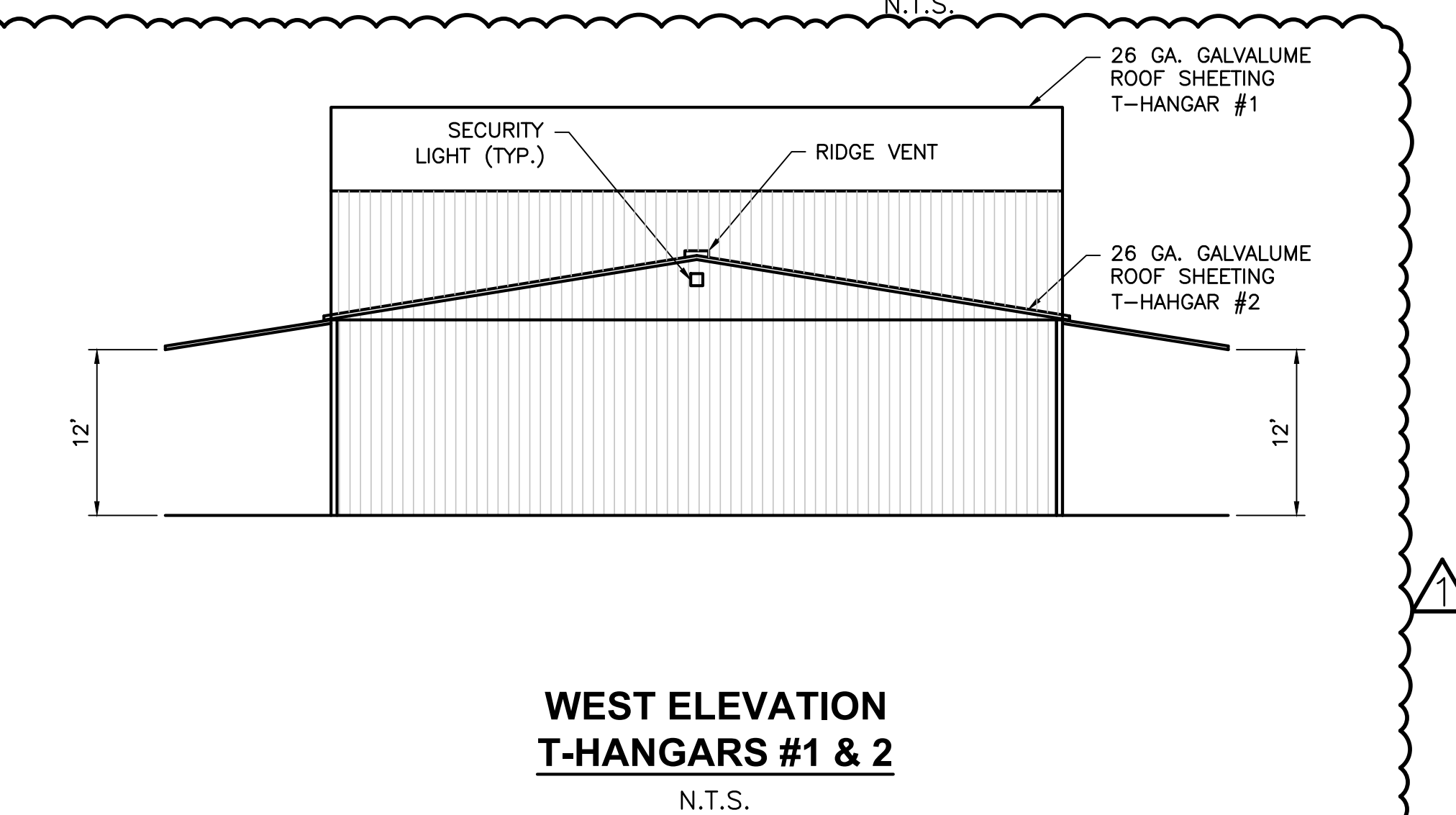
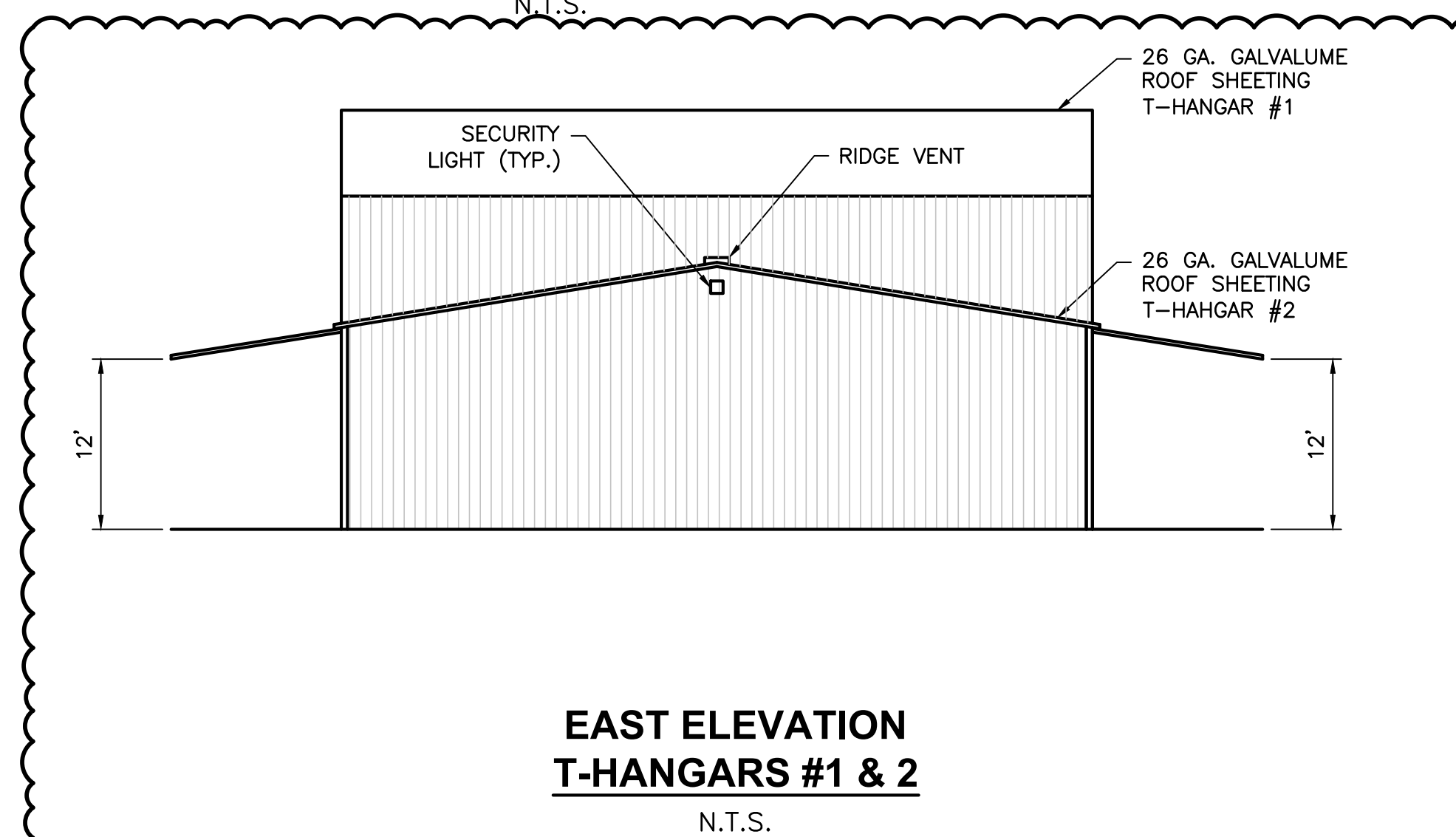
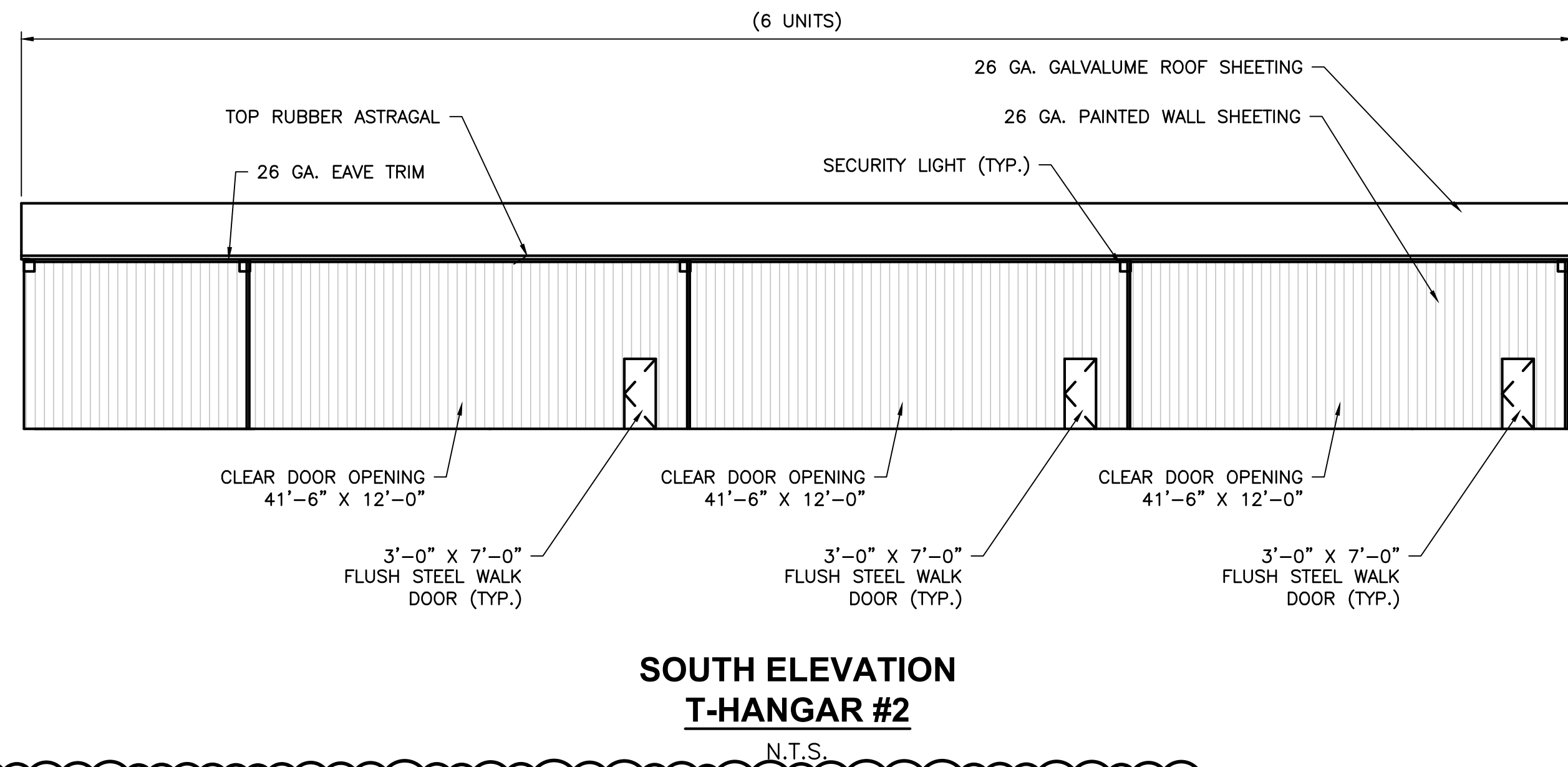
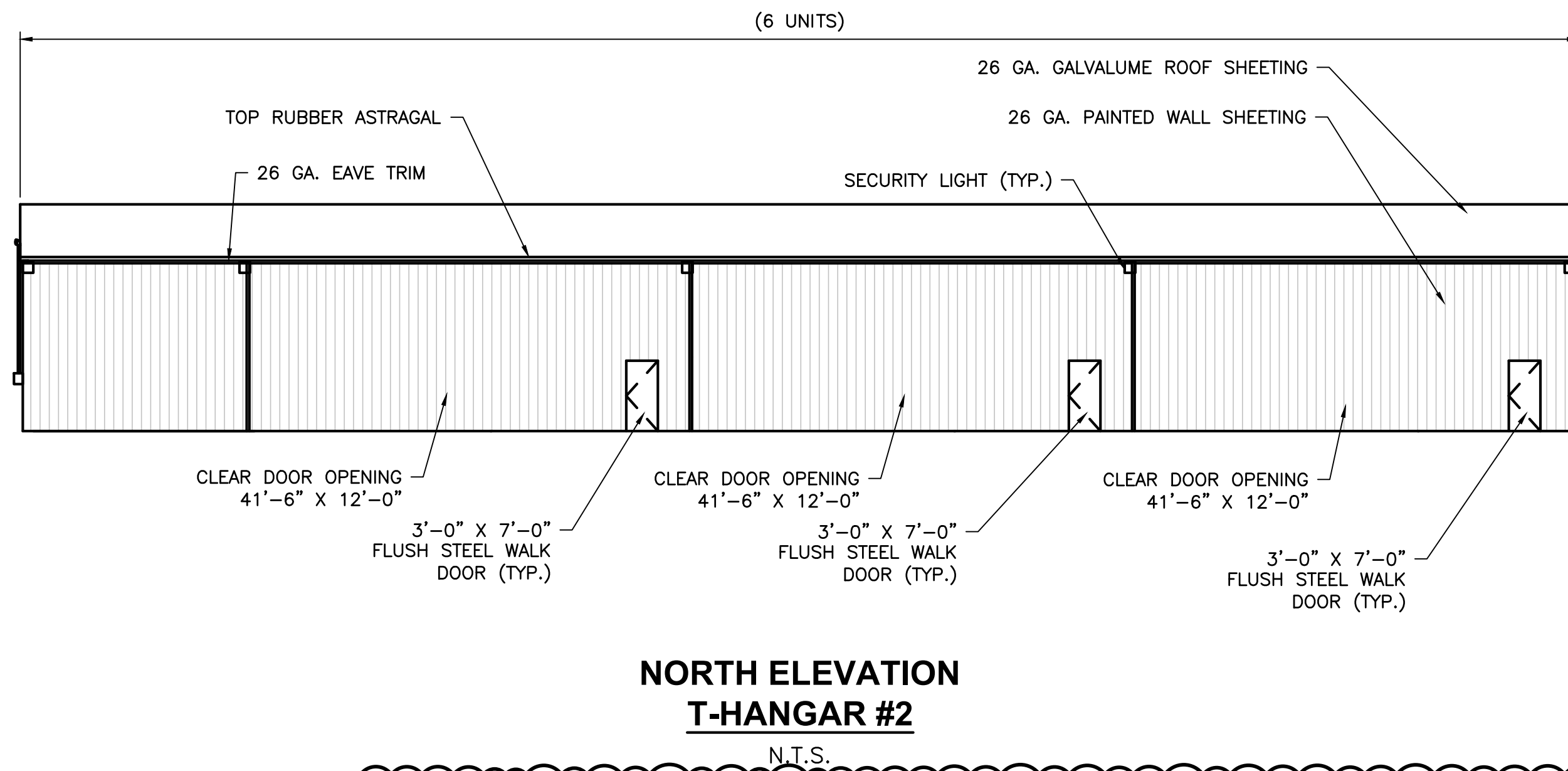
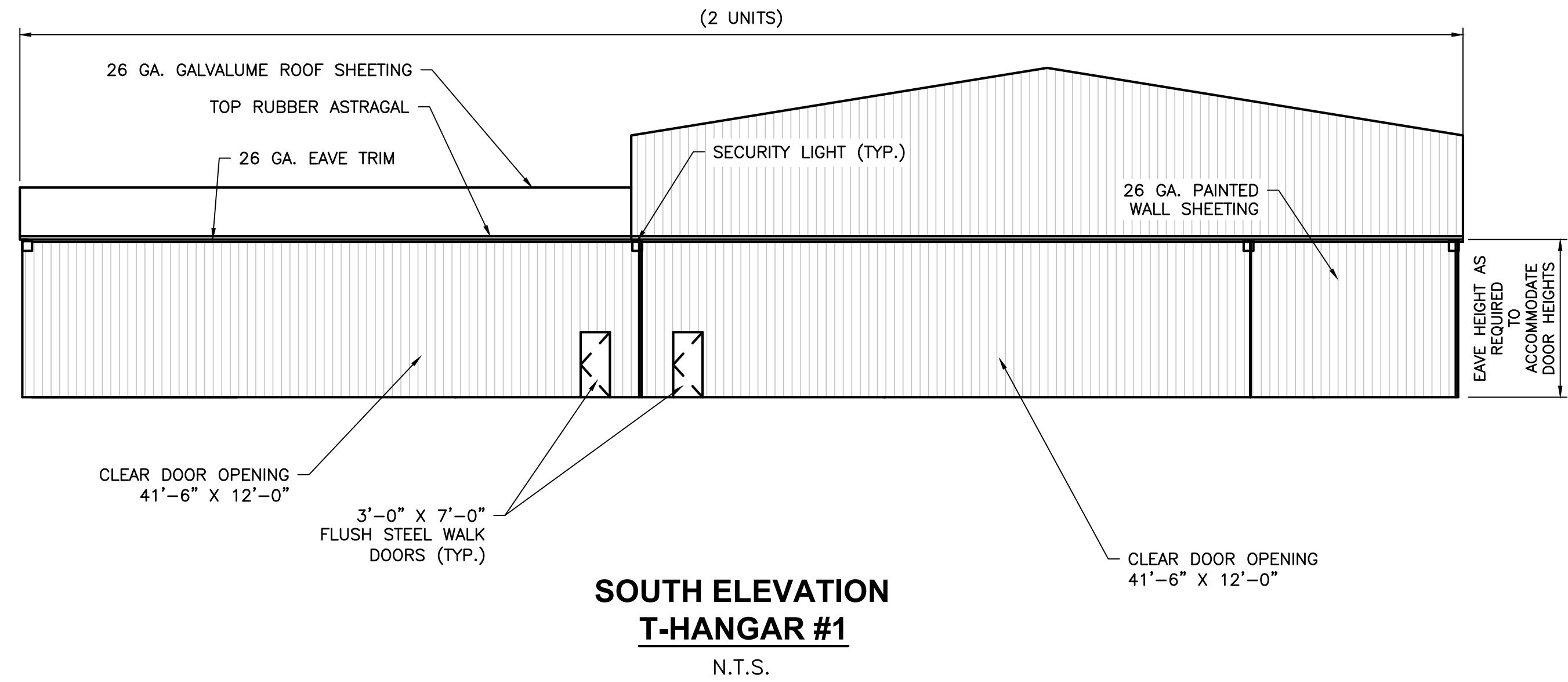
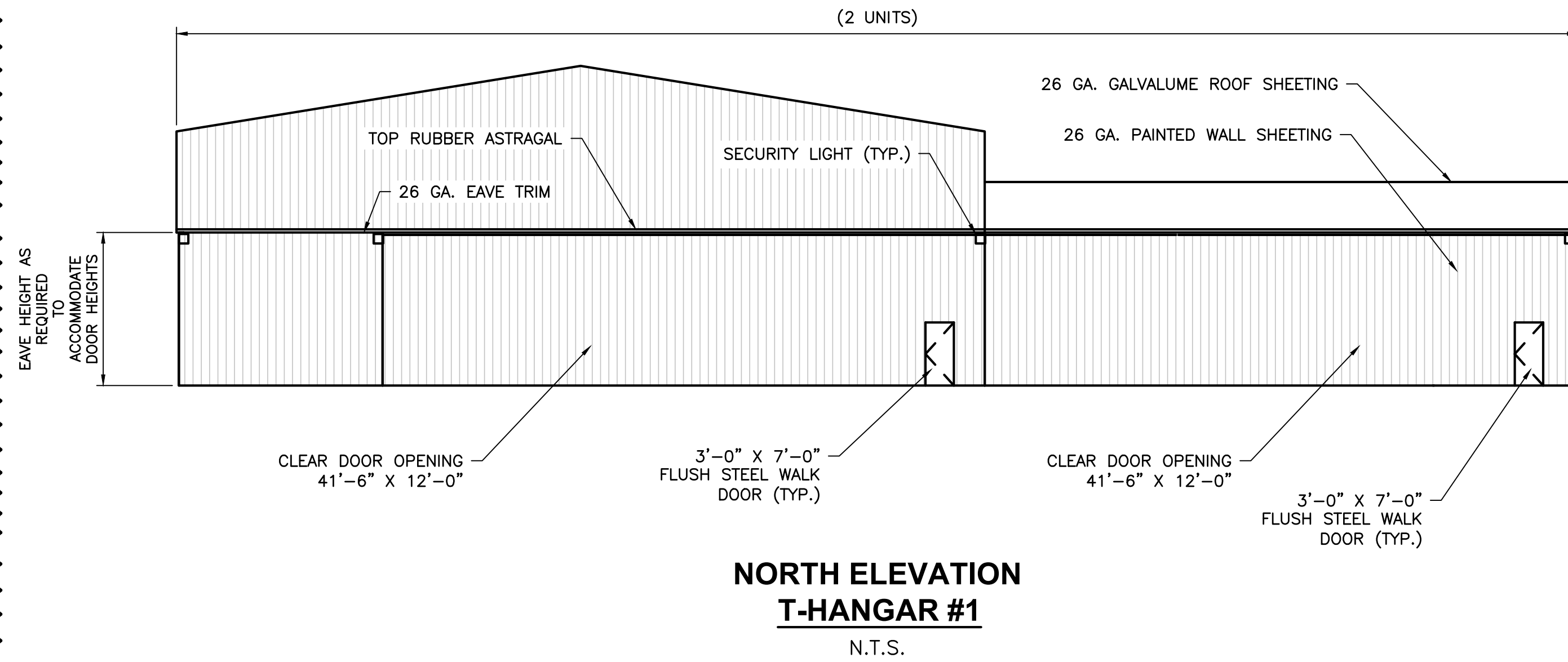
1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. SEE SHEET C-9 FOR FLOOR SLAB DETAIL.
3. THIS DRAWING IS ONLY TO SHOW THE DESIGN INTENT OF THE T-HANGAR FLOOR PLAN LAYOUT. IT IS NOT INTENDED TO SHOW STRUCTURAL OR ARCHITECTURAL DESIGN. THE MANUFACTURER'S PRE-ENGINEERED DESIGN DRAWINGS FOR THE BUILDING STRUCTURE AND ITS FOUNDATION SHALL BE PREPARED BY THEIR ENGINEER OF RECORD AND SUBMITTED SEPARATELY FOR PUBLIC RECORD AND PERMITTING. THE STRUCTURAL DESIGN SHALL BE PER THE LATEST EDITIONS OF THE FLORIDA BUILDING CODE, CALHOUN COUNTY DEVELOPMENT CODE, AISC, ACI, AND ASCE.
4. PARTITION AND FIREWALL LOCATIONS ARE SHOWN PER NFPA 409 (LATEST EDITION)—STANDARD ON AIRCRAFT HANGARS. ADDITIONAL DETAILS ARE INCLUDED ON SHEET C-9. PAYMENT FOR FURNISHING AND INSTALLING PARTITIONS AND FIREWALLS INCLUDING BUT NOT LIMITED TO ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCIDENTAL TO THE RESPECTIVE HANGAR UNIT PAY ITEMS.
5. ALL MOBILIZATION AND INCIDENTALS ASSOCIATED WITH HANGAR DEVELOPMENT SHALL BE INCIDENTAL TO PAY ITEMS H-1, H-2, AND H-3.
6. WALK DOOR SHOWN RIGHT SIDE, OUTWARD OPENING. ACTUAL LOCATION AND OPENING ORIENTATION SHALL BE PER THE MANUFACTURER'S SHOP AND ERECTION DRAWINGS.
7. TAIL BAY SECTION WIDTHS SHALL BE THE SAME DIMENSION.

T-HANGAR LAYOUT PLAN
 RELEASE FOR BID

T-HANGAR DEVELOPMENT
 PREPARED FOR
 CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
 DRAWN BY: M.A.B.
 CHECKED BY: J.R.C.
 APPROVED BY: V.C.L.
 PROJECT NO: 2022.241.01
 DATE: AUGUST 2024

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NOTES:

- THIS DRAWING IS PROVIDED TO SHOW DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BUILDING STRUCTURAL DESIGN AND FLOOR SLAB DESIGN BY A COMPETENT STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA FOR PERMITTING AND CONSTRUCTION. REFER TO SHEET C-9 FOR ADDITIONAL STRUCTURAL GUIDELINES.
- REFER TO TECHNICAL SPECIFICATION SECTION H-100 AND TABLE OF MINIMUM DIMENSIONS ON SHEET C-6 FOR ADDITIONAL HANGAR REQUIREMENTS.

AVCON, INC.
ENGINEERS & PLANNERS
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OFFICE: (850) 678-0050
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY
1	11/7/24		
2			
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T-HANGAR ELEVATIONS (SHEET 1 OF 2)

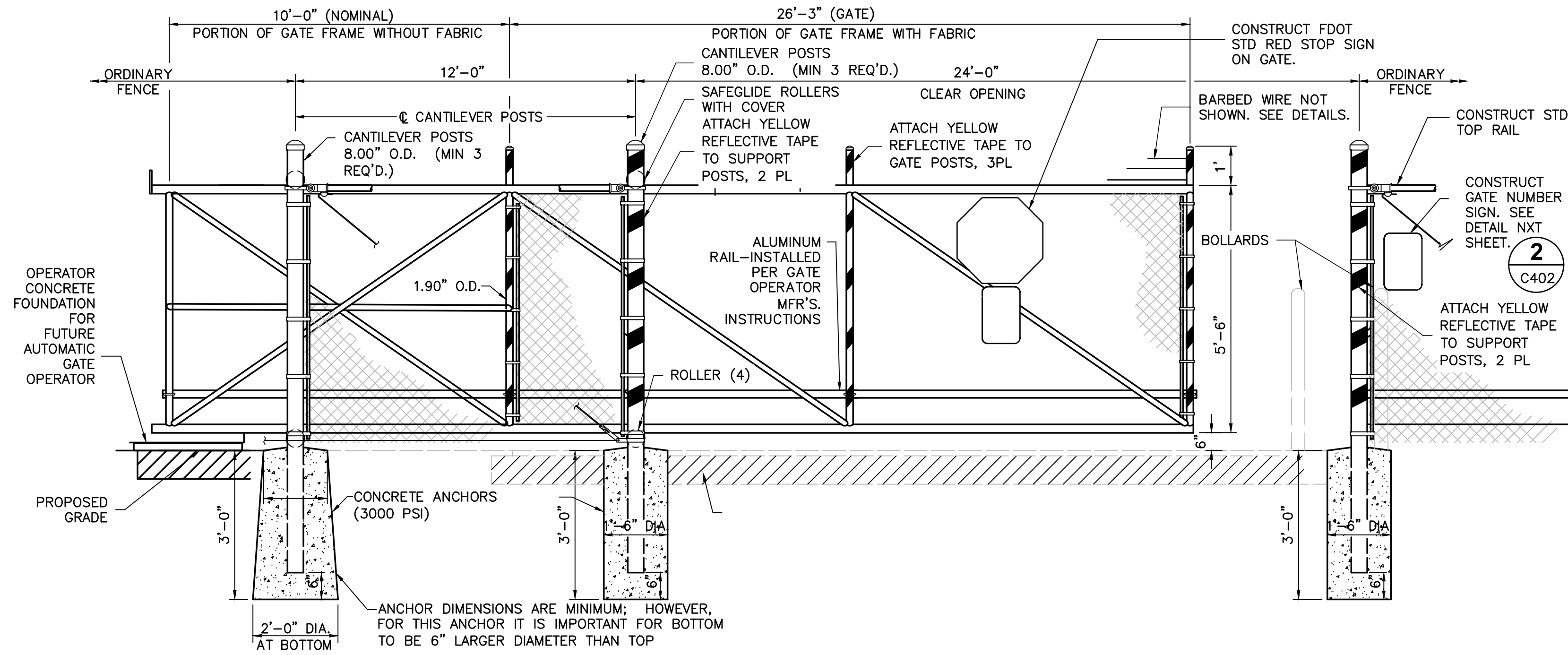
RELEASE FOR BID

T-HANGAR DEVELOPMENT
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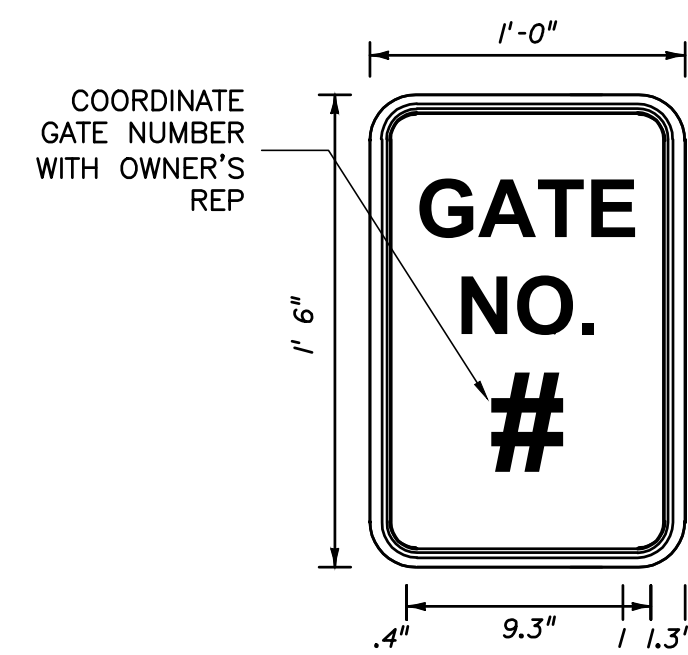
SHEET C-7

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1 TYPICAL 24-FOOT CANTILEVER SLIDING GATE DETAIL

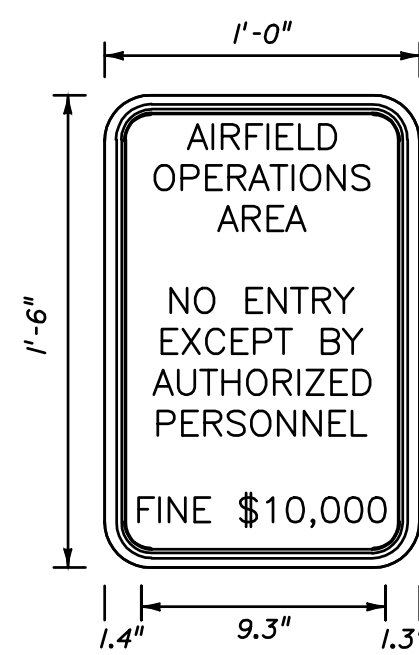
N.T.S.
 CONSTRUCT PER FDOT INDEX 550-002, LATEST EDITION, TYPE B CHAIN LINK FENCE AND F-162.



FTP-19-04 1'X1'-6" 1-1/2" RADII
 3/8" BORDER 3/8" INSET
 WHITE BACKGROUND BLACK INSCRIPTION AND BORDER

2 GATE NUMBER SIGN DETAIL

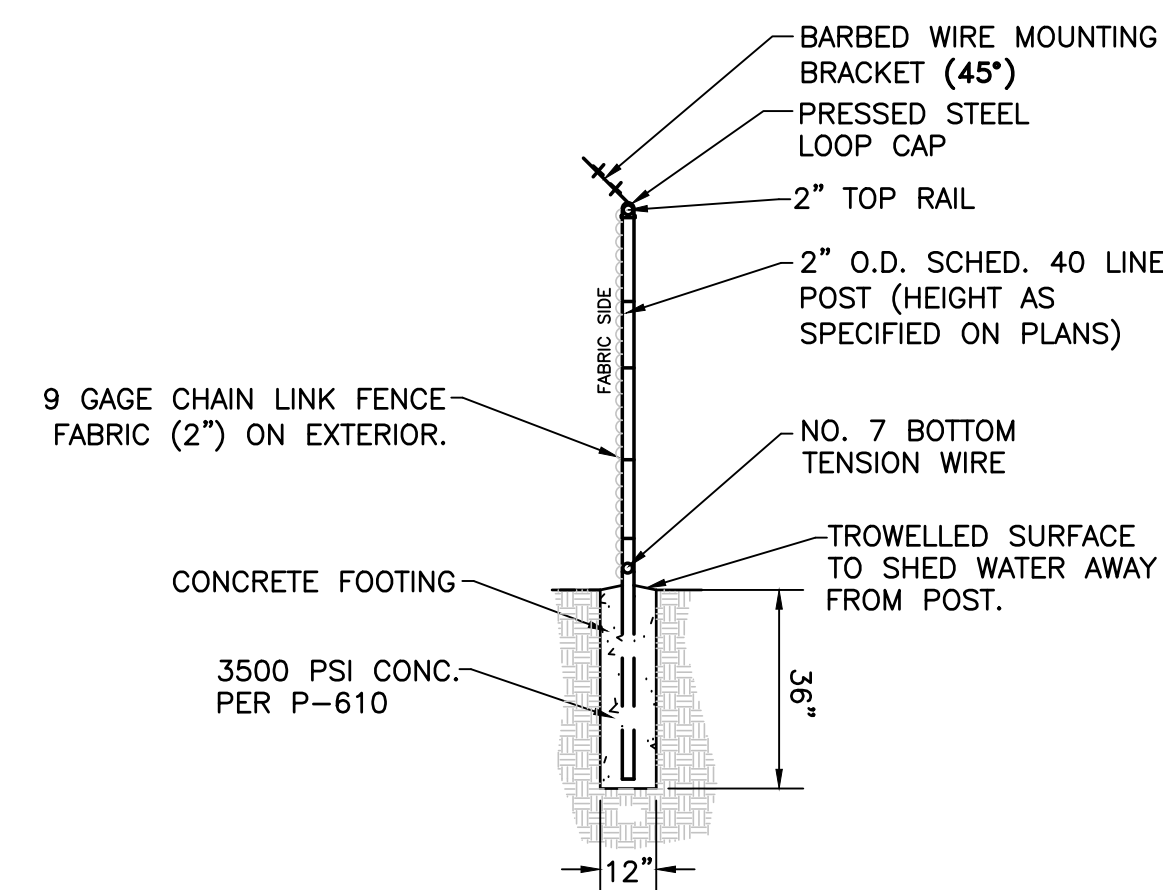
N.T.S.
 PLACE ON ALL GATES



FTP-19-04 1'X1'-6" 1-1/2" RADII
 3/8" BORDER 3/8" INSET TOP 4" SERIES D BOTTOM 2" SERIES C
 WHITE BACKGROUND RED INSCRIPTION AND BORDER

3 FAA WARNING SIGN DETAIL

N.T.S.
 PLACE ON ALL GATES



4 LINE POST SETTING DETAILS

N.T.S.

AVCON, INC.
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ADDENDUM #1	NO.	DATE	REVISION	BY

TYPICAL GATE DETAILS

RELEASE FOR BID

T-HANGAR DEVELOPMENT
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 DRAWN BY: M.A.B.
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SHEET
C-12

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FENCE NOTES:

- ALL PIPE FRAMEWORK AND OTHER FERROUS MATERIALS SHALL BE HOT GALVANIZED, UNLESS OTHERWISE NOTED.
- BOTTOM TENSION WIRE SHALL BE STRETCHED TAUT FROM TERMINAL POST TO TERMINAL POST AND SECURELY FASTENED TO EACH INTERMEDIATE POST 6 INCHES ABOVE GROUND LINE AND TO THE FABRIC CHAIN LINK.
- PULL POSTS SHALL BE INSTALLED AT 500 FOOT INTERVALS ON STRAIGHT RUNS.
- GATE POST ASSEMBLIES SHALL CONSIST OF A BRACE POST AND CORNER, END, OR PULL POST WITH BRACE AND TRUSS ROD ON EACH SIDE OF THE GATE.
- CONNECTIONS TO EXISTING FENCES OR BUILDINGS SHALL BE MADE BY SETTING A NEW ANCHOR POST WITH BRACE ASSEMBLY AT JUNCTION POINT.
- ALL FENCE AND GATES TO BE GROUNDED IN ACCORDANCE WITH THE SPECIFICATIONS.
- DIMENSIONS:
ALL DIMENSIONS, SIZES, GAUGES, WEIGHTS OR THICKNESSES SHOWN ARE THE MINIMUM ACCEPTABLE, UNLESS OTHERWISE INDICATED.
- SPECIFICATIONS:
MATERIALS AND CONSTRUCTION METHODS NOT DETAILED HEREON SHALL BE IN ACCORDANCE WITH THE FAA SPECIFICATION F-162 UNLESS OTHERWISE NOTED ON THE CONTRACT PLANS.

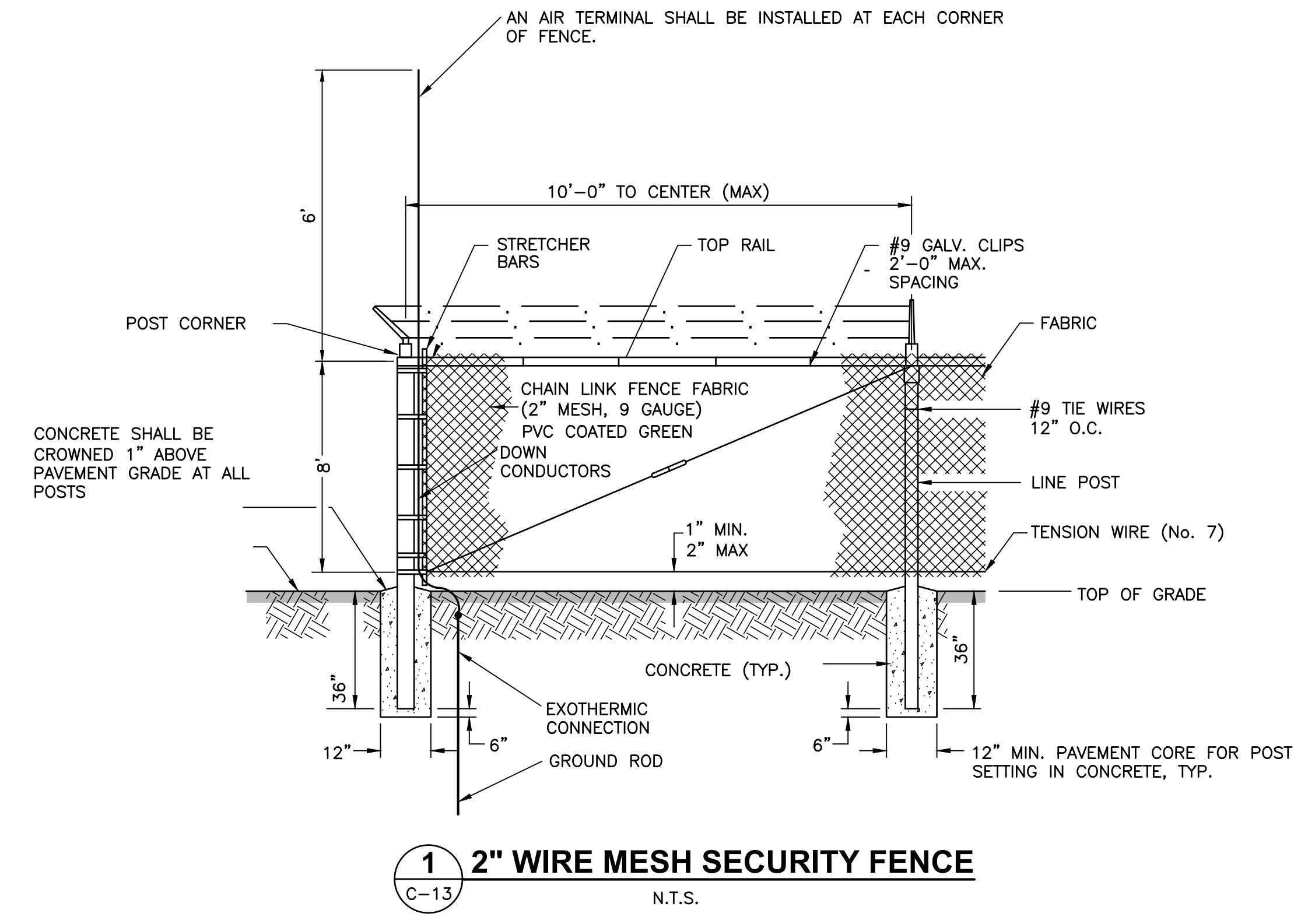
FAA SPECIFICATIONS SHOWN ARE FROM THE FEDERAL AVIATION ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS.

THE FEDERAL SPECIFICATION "F-162" SHALL BE INTERPRETED TO MEAN THE LATEST ISSUE OR AMENDMENT OF SUCH SPECIFICATION IN EFFECT ON THE DATE OF PLAN APPROVAL.
- MEASUREMENTS:
FENCES ARE MEASURED IN PLACE, FROM CENTER TO CENTER OF END, CORNER OR GATE POSTS. MEASUREMENT DOES NOT INCLUDE GATE OPENINGS.
GATES ARE MEASURED IN UNITS FOR EACH TYPE AND SIZE INSTALLED.
- FABRIC INSTALLATION:
WIRE OR FABRIC ON BOUNDARY AND SECURITY FENCES AND GATES SHALL BE ON THE SIDE OF POSTS AWAY FROM AOA.
- PVC COATING: (NOT APPLICABLE)
- CONCRETE:
CONCRETE SHALL BE OF A COMMERCIAL GRADE WITH A MINIMUM 28 DAY STRENGTH OF 2500 P.S.I. FOOTING TOPS SHALL BE 1-INCH MINIMUM ABOVE GROUND AT ALL THE POSTS, AND TROWEL FINISHED TO SLOPE AWAY FROM THE POST.
- OPENINGS UNDER FENCE:
ANY OPENING UNDER FENCES, WHEREIN THE BOTTOM FENCE WIRE IS MORE THAN 4 INCHES ABOVE GROUND AND THE TOTAL AREA OF OPENING IS 96 SQUARE INCHES OR MORE, SHALL BE CLOSED USING THE DETAIL FOR SPANNING DITCHES OR APPROVED EQUAL.

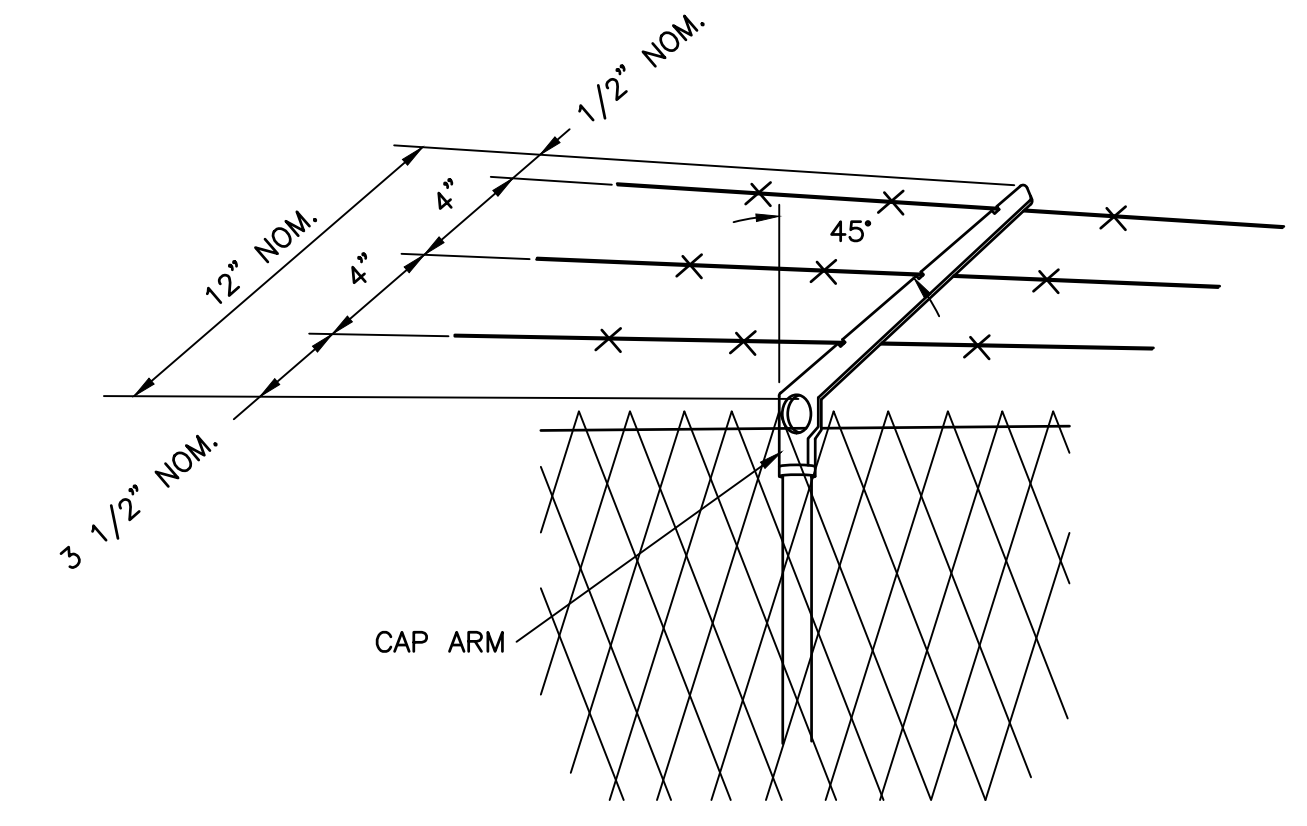
OPENINGS LESS THAN 18 INCHES HIGH SHALL BE CLOSED BY INSTALLING ONE OR MORE ADDITIONAL LINE POSTS BETWEEN THE OPENING CENTER AND ADJACENT LINE POSTS AT A 6-INCH MAXIMUM VERTICAL SPACING. THIS WORK SHALL BE INCIDENTAL TO FENCE INSTALLATION COSTS.
- GROUND RODS, CHAIN LINK FENCE ONLY:
EACH GATE LEAF FRAME SHALL BE CONNECTED TO THE GATE POST BY A BRAIDED, FLEXIBLE COPPER STRAP. EACH GATE POST SHALL BE GROUNDED. GROUND RODS SHALL BE PER SECTION F-162. GROUND CABLE SHALL BE NO. 2 AWG COPPER MINIMUM BARE STRANDED COPPER WIRE. CONNECTIONS TO GATE, FENCE, ETC. ABOVE GROUND SHALL BE MADE WITH SUITABLE NON-CORROSIVE METAL CLAMPS, LUGS OR CONNECTORS. CONNECTIONS TO GROUND RODS SHALL BE MADE BY THE EXOTHERMIC PROCESS. INSTALL GROUND RODS AT EACH CORNER OF FENCE LINE AND FOR LIGHTNING PROTECTION SYSTEM. EACH ELEMENT OF THE FENCE SHALL BE GROUNDED.
- FENCE LINE AND ALIGNMENT:
FENCE LINES SHALL BE CLEARED OF ALL OBSTRUCTIONS AND SMOOTH GRADED TO THE GENERAL CONTOUR OF THE ADJACENT GROUND. STUMPS AND ROOTS NOT INTERFERING WITH FENCE CONSTRUCTION, MAY BE CHIPPED TO GROUND LEVEL.

THE FENCE SHALL BE CONSTRUCTED VERTICAL, STRAIGHT AND TRUE TO LINE. THE LONGITUDINAL GRADIENT SHALL PARALLEL TO THE GENERAL SLOPE OF THE GROUND. CONTRACTOR SHALL LAY OUT THE FENCE ALIGNMENT AS SHOWN ON THE CONSTRUCTION PLANS. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL APPROVE THE ALIGNMENT, LINE AND GRADE OF THE FENCE AND THE GATE LOCATION(S) PRIOR TO CONSTRUCTION.
- AIRPORT SECURITY FENCES AND GATES SHALL INCLUDE BARB WIRE ATTACHMENT. BARB WIRE ATTACHMENTS SHALL EXTEND IN THE DIRECTION AWAY FROM AOA.
- THE CAP ARM SHALL BE DESIGNED TO PROVIDE A DRIVE FIT OVER THE TOP OF POSTS AND TO EXCLUDE MOISTURE IN POSTS WITH TUBULAR SECTIONS
- FOLLOWING COMPLETION OF THE FENCE INSTALLATION, CONSTRUCT A 4'-0" WIDE X 4" THICK FDOT 57 STONE AGGREGATE BEDDING, 2'-0" ON EACH SIDE OF THE FENCE LINE.

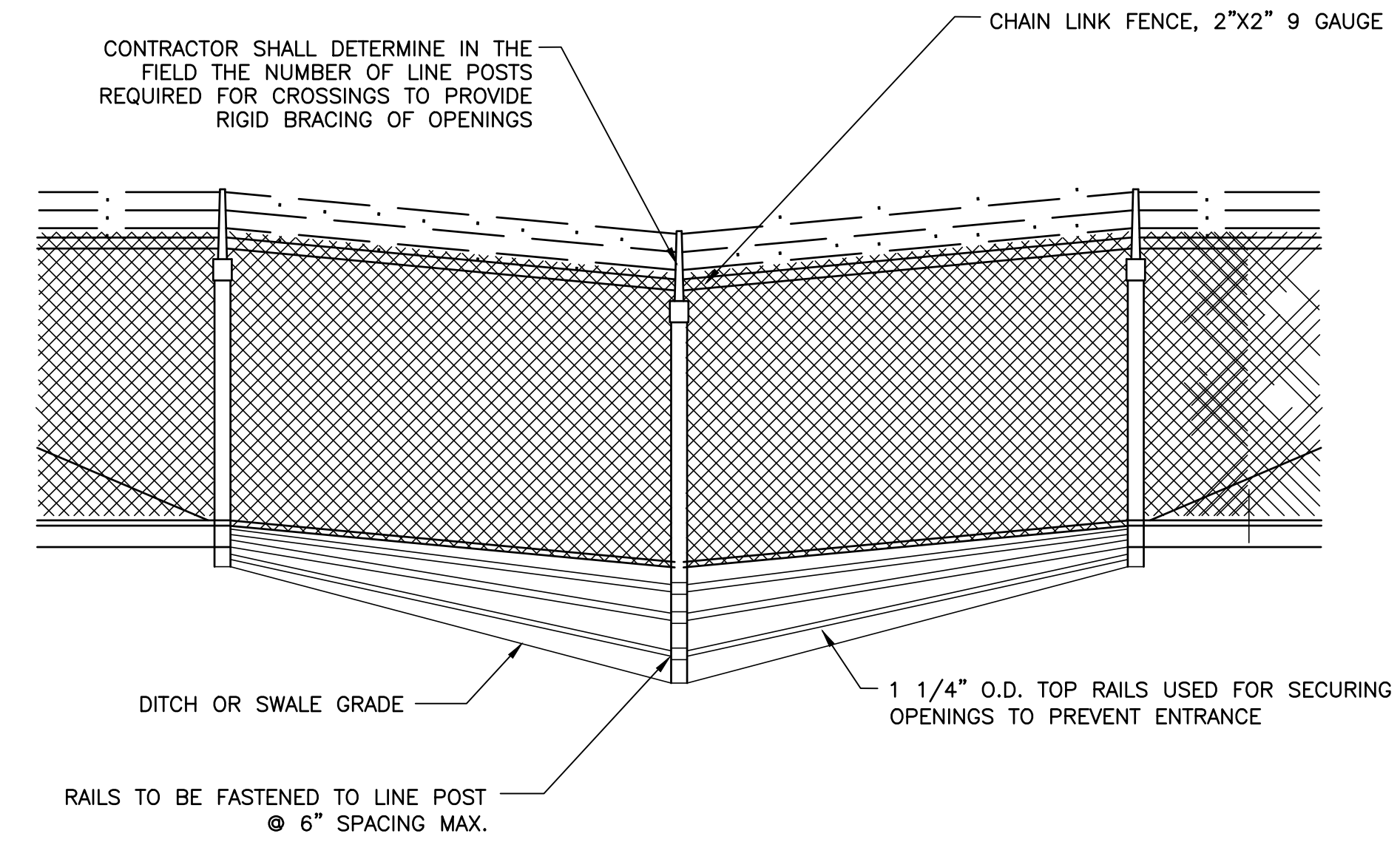
ATTACHMENT D (11 PAGES)



1 2" WIRE MESH SECURITY FENCE
C-13 N.T.S.



2 BARBED WIRE ATTACHMENT
C-13 N.T.S.



3 SPANNING DITCHES
C-13 N.T.S.



ADDENDUM #1	NO.	DATE	REVISION	BY
	1	11/7/24		

TYPICAL FENCE DETAILS
RELEASE FOR BID

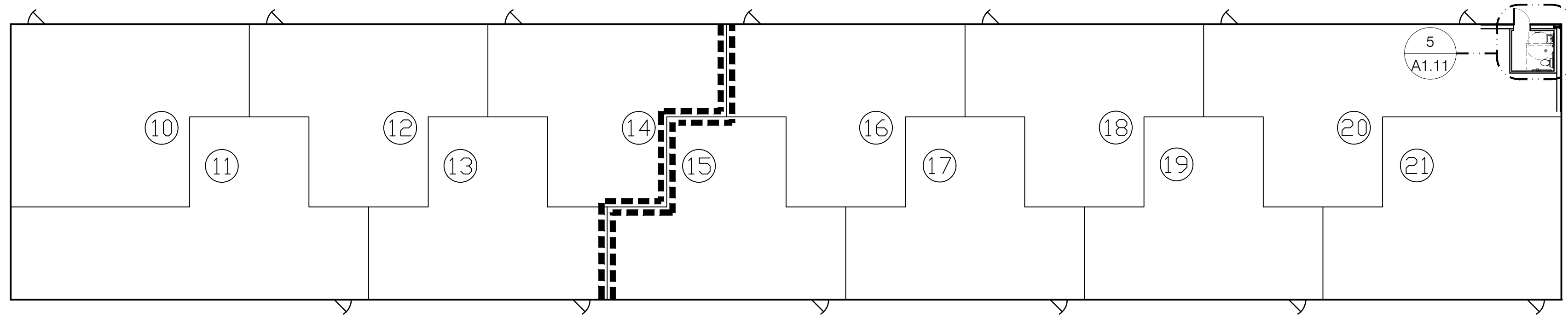
T-HANGAR DEVELOPMENT
PREPARED FOR
CALHOUN COUNTY AIRPORT

DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
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\\JDF-NASO\PROJECTS\23-PROJECTS\2316 - CALHOUN COUNTY T-HANGAR TOILET\03 - CONSTRUCTION DOCUMENTS\02 - DRAWINGS\A1.11 FLOOR PLANS.DWG 10/29/2024 8:46 AM

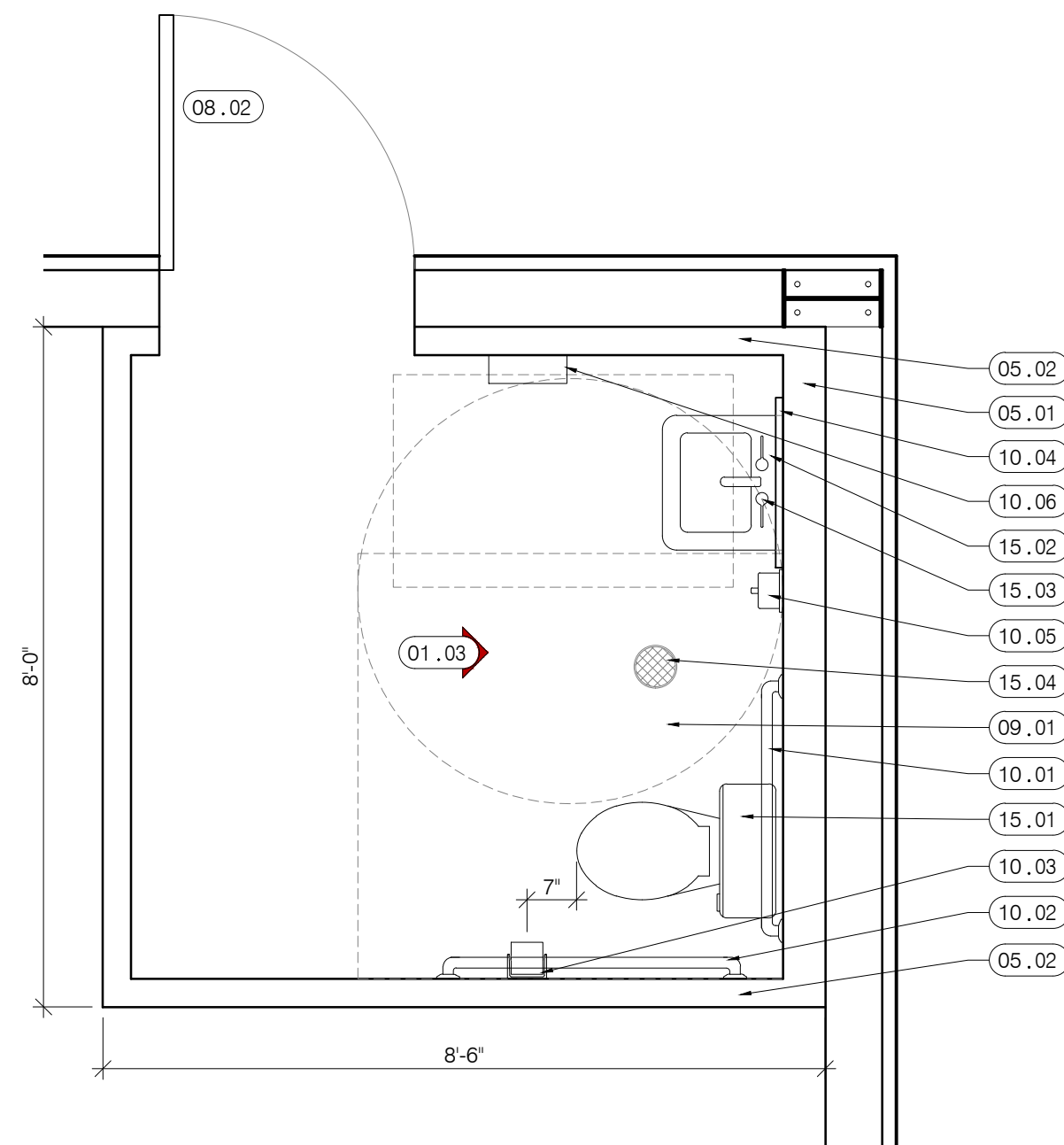


4 HANGAR 3 - OVERALL PLAN

SCALE: 1/16" = 1'-0"
REFERENCE CIVIL

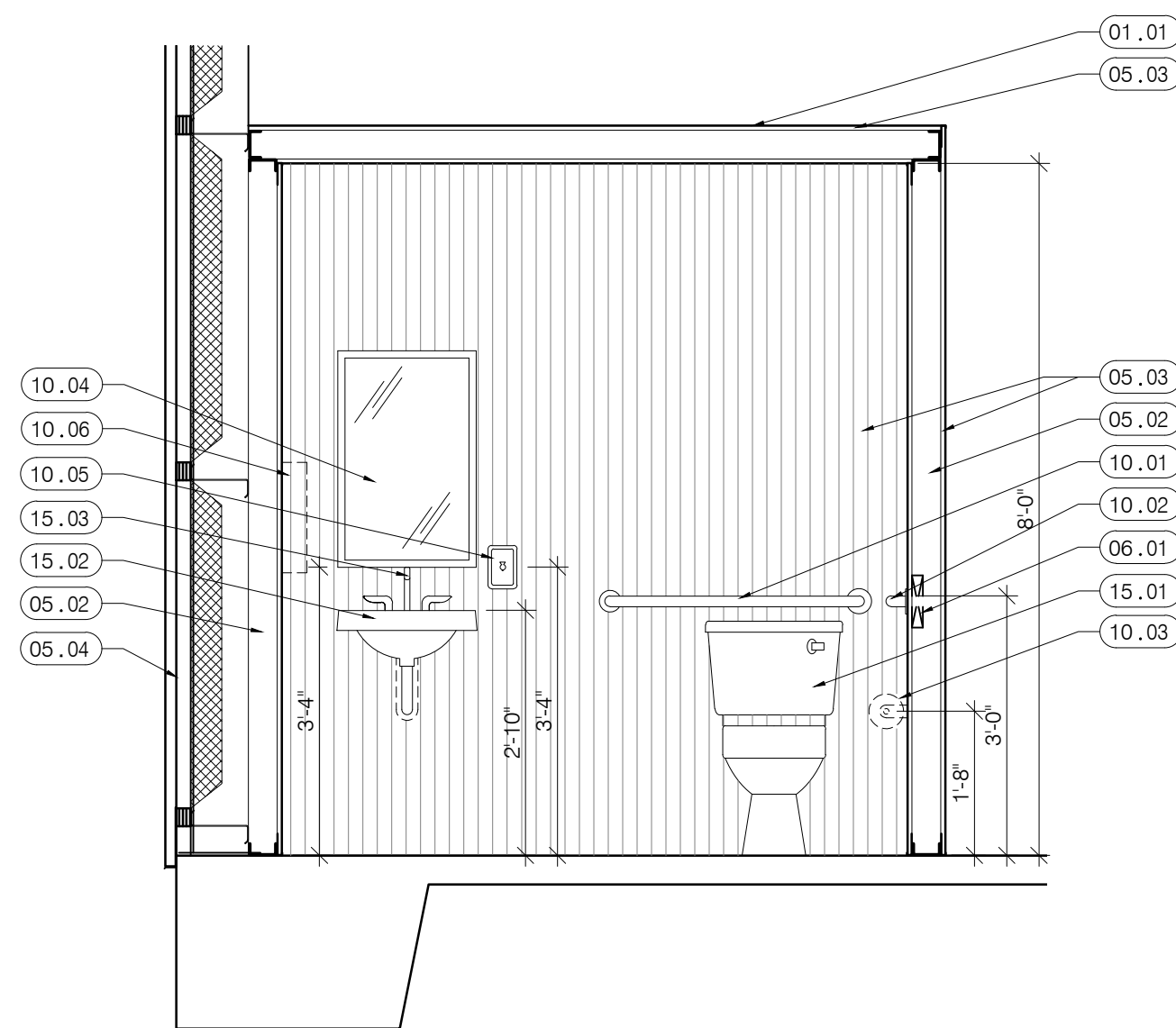
KEYNOTES:

- 01 GENERAL:
- 01.01 TOILET ROOM CEILING IS NOT DESIGNED FOR STORAGE. DO NOT PLACE ANYTHING ABOVE THIS CEILING.
- 01.02 SEE ELEVATION 3/A1.11.
- 01.03 SEE ELEVATION 6/A1.11.
- 05 METAL:
- 05.01 6" METAL STUDS (20ga) @ 16" O.C.
- 05.02 3 5/8" METAL STUDS (20ga) @ 16" O.C.
- 05.03 CORRUGATED METAL WALL PANEL w/ TRIM AT TOP AND BOTTOM; ALL SURFACES.
- 05.04 PRE-ENGINEERED METAL BUILDING BY OTHERS.
- 06 WOOD:
- 06.01 2x BLOCKING IN WALLS WHERE REQUIRED.
- 08 DOORS and WINDOWS:
- 08.01 FIBERGLASS DOOR WITH GALVANIZED HOLLOW METAL FRAME.
- 08.02 IMPACT RATED FIBERGLASS DOOR WITH GALVANIZED HOLLOW METAL FRAME.
- 09 FINISHES:
- 09.01 FLUID-APPLIED WATERPROOFING FLOOR COATING, EQUAL TO PEDA-GARD TS. OR OTHER SELECTED BY OWNER
Neogard, A part of Hempel
2728 Empire Central
Dallas, Texas 75235
Ph: (214) 353-1600
www.neogard.com
- 1. PEDA-GARD MATERIALS (HEMPEL PRODUCT NUMBERS IN PARENTHESSES):
 - a. PRIMER: CONCRETE AND METAL PRIMERS AS REQUIRED BY NEOGARD.
 - b. FLASHING TAPE: 86218 (62ZIB) FLASHING TAPE.
 - c. SEALANT: 70991 (47XJB) URETHANE SEALANT.
 - d. AGGREGATE:
 - 1) 7992 (66010) SILICA QUARTZ SAND.
 - 2) TORGINOL DECORATIVE QUARTZ
 - e. BASE COAT: 7430 SERIES (57040) URETHANE COATING.
 - f. WEAR COAT: 7430 SERIES (57040) URETHANE COATING.
 - g. GROUT COAT: 70869/70819 POLYASPARTIC.
 - h. TOPCOAT: 70817/70818 (57070) CLEAR CHEMICAL RESISTANT URETHANE (CRU).
- 10 SPECIALTIES:
(UNLESS NOTED OTHERWISE LISTED ITEMS ARE BY BRADLEY CO.)
- 10.01 GRAB BAR #812-001-36 HORIZONTAL, 1 1/2" DIAMETER. MOUNT 36" MAX. A.F.F. TO TOP OF BAR.
- 10.02 GRAB BAR #812-001-42 HORIZONTAL, 1 1/2" DIAMETER. MOUNT 36" MAX. A.F.F. TO TOP OF BAR.
- 10.03 TOILET TISSUE DISPENSER #5085, SURFACE MOUNTED SINGLE-ROLL. MOUNT 1'-6" A.F.F.
- 10.04 MIRROR #B-740-1836, 18" X 36". TILTED. TEMPERED GLASS, STAINLESS STEEL FRAME. MOUNT 40" MAX. TO BOTTOM A.F.F.
- 10.05 SOAP DISPENSER #6562, WALL MOUNTED, AT 40" A.F.F. MAX. TO SPOUT.
- 10.06 PAPER TOWEL DISPENSER, #235-10, MOUNTED AT 48" TO OPENING.
- 15 MECHANICAL:
- 15.01 ADA COMPLIANT TOILET; AMERICAN STANDARD - CADET 3 ELONGATED OR EQUAL.
- 15.02 ADA COMPLIANT WALL HUNG SINK; AMERICAN STANDARD - LUCERNE OR EQUAL 3-HOLE SINK W/ ADA COMPLIANT PIPE PROTECTOR.
- 15.03 ADA COMPLIANT FAUCET SET; AMERICAN STANDARD - MONTERREY OR EQUAL.
- 15.04 FLOOR DRAIN; ZURN - EZ DRAIN.



5 HANGAR 3 - TOILET SECTION

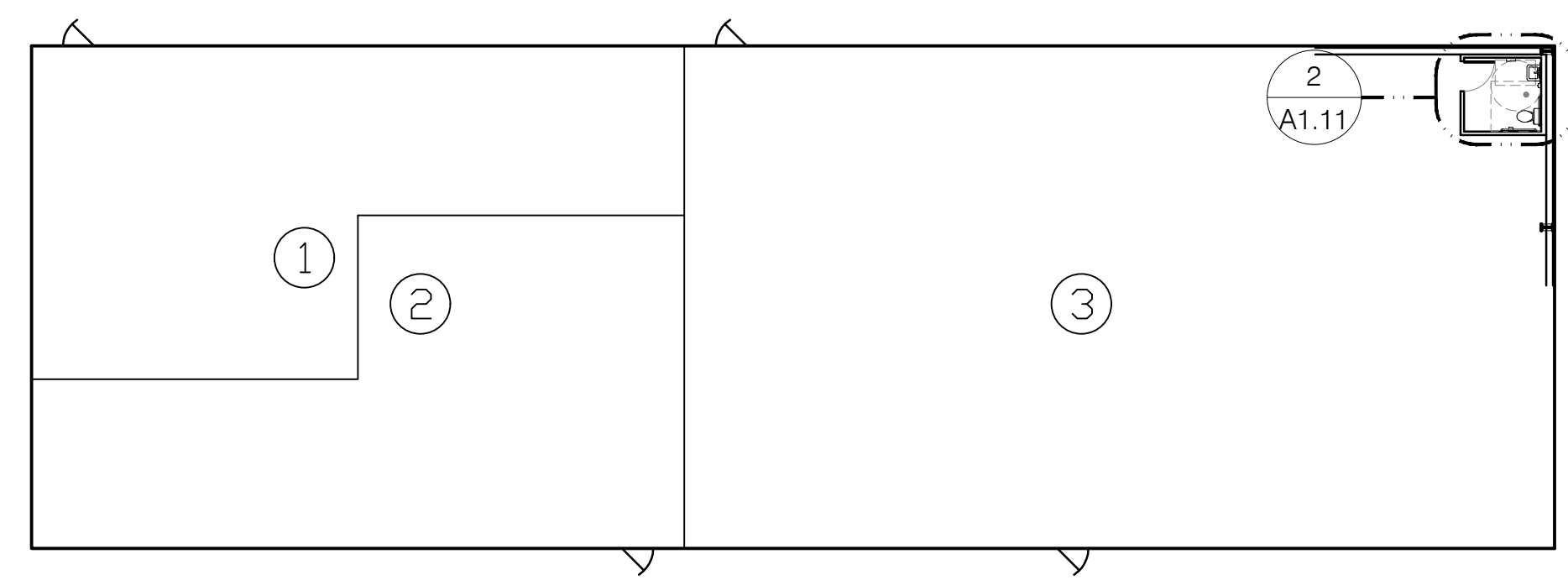
SCALE: 1/2" = 1'-0"



6 HANGAR 3 - TOILET SECTION

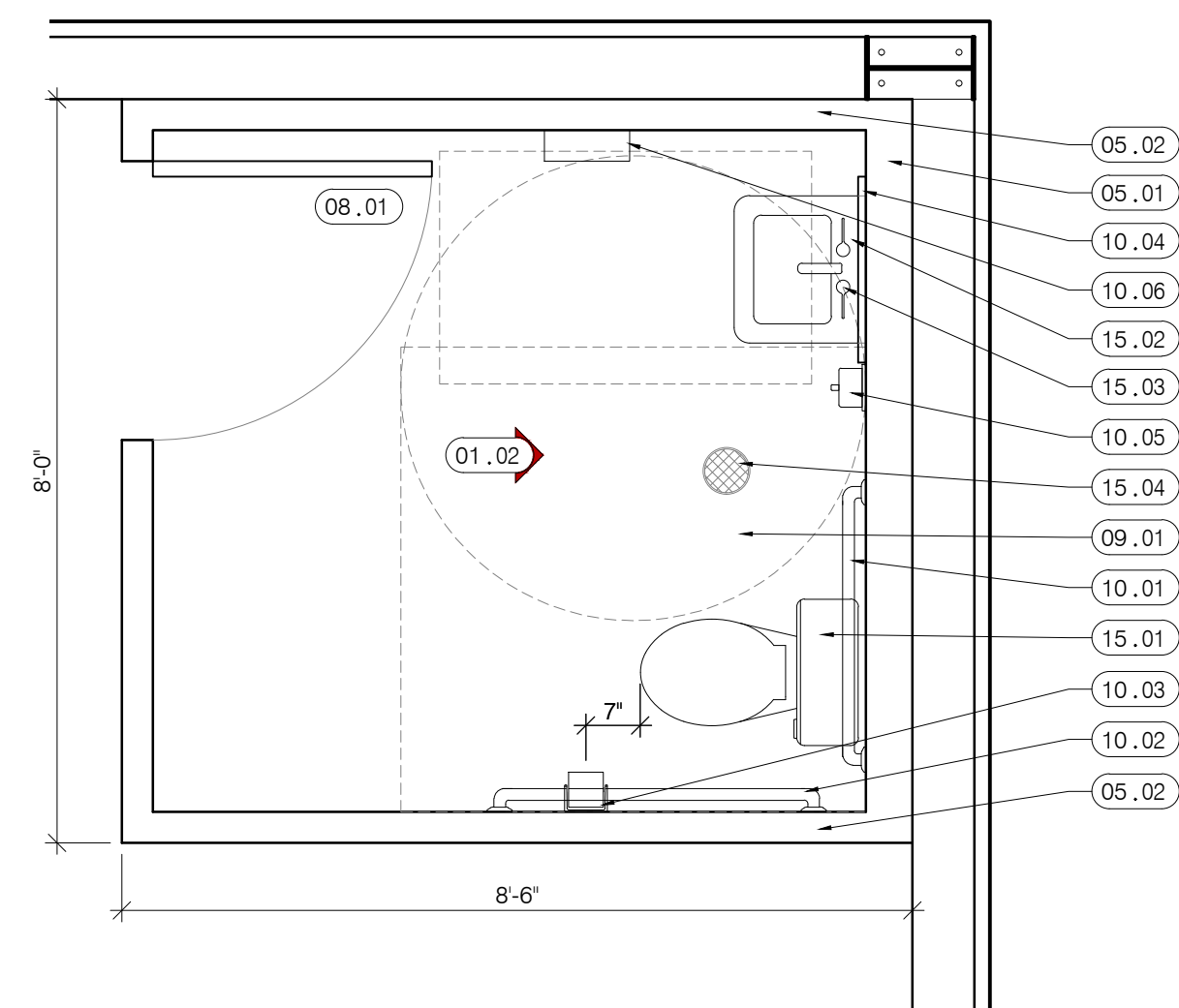
SCALE: 1/2" = 1'-0"

ATTACHMENT E (1 PAGE)



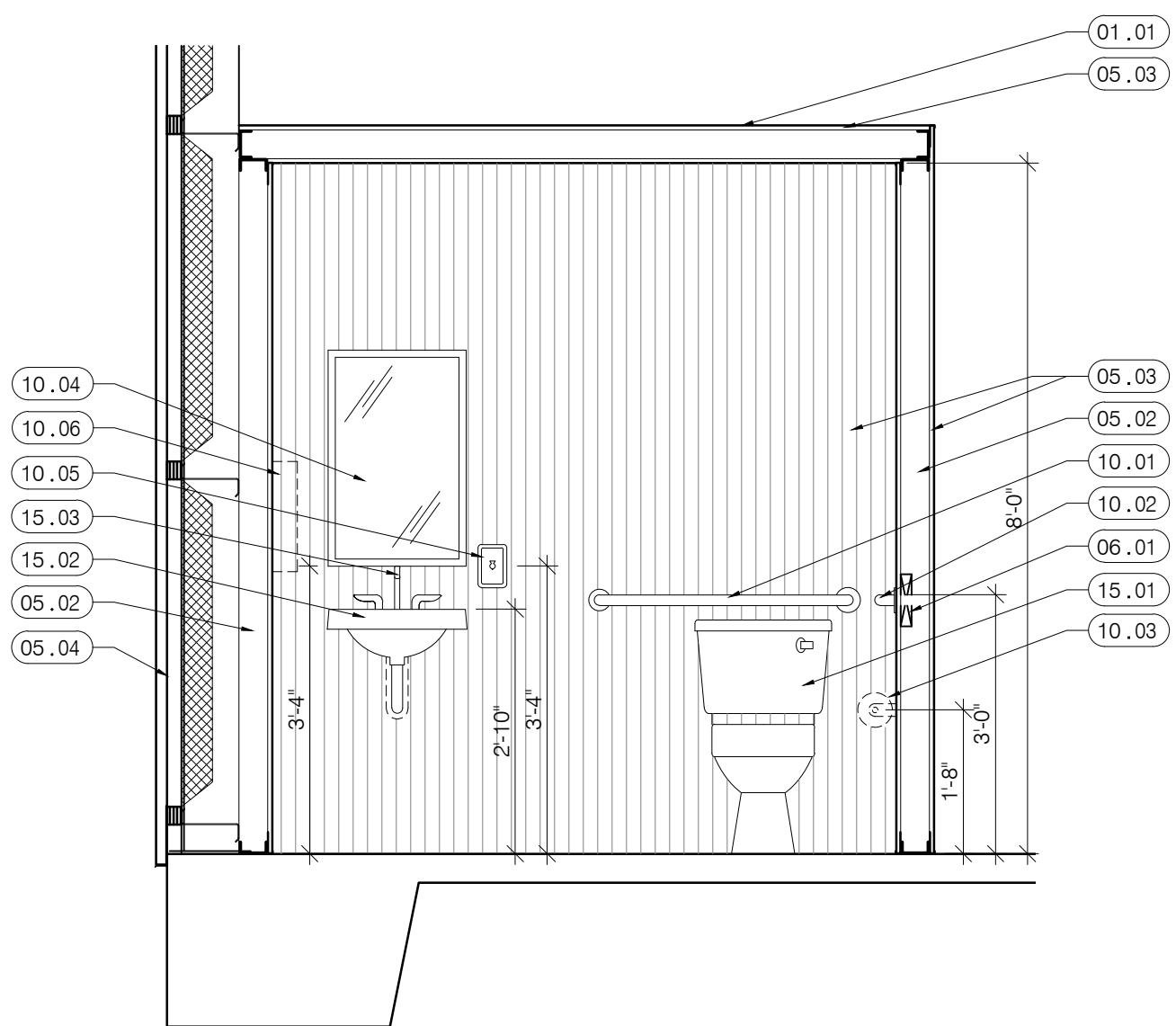
1 HANGAR 1 - OVERALL PLAN

SCALE: 1/16" = 1'-0"
REFERENCE CIVIL



2 HANGAR 1 - TOILET FLOOR PLAN

SCALE: 1/2" = 1'-0"



3 HANGAR 1 - TOILET SECTION

SCALE: 1/2" = 1'-0"

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL 32578-2425
OFFICE: (850) 678-2050
CORPORATE CERTIFICATE OF
AUTHORIZATION NUMBER: 5057
www.avconinc.com

AVCON

TRANSFORMING TODAY'S IDEAS
INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

RELEASE FOR BID

HANGAR DEVELOPMENTS
PREPARED FOR
CALHOUN COUNTY
AIRPORT

DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
PROJECT NO: 2022.241.01
DATE: AUGUST 2024

SHEET
A1.11


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MEMORANDUM

Date: September 18, 2024

To: File – 2022.241.01/Meetings

CC: Quinton Williams – FDOT
Vanessa Strickland – FDOT
Meeting Attendees (attached)

From: John Collins, AVCON, Inc. (850-678-0050) 

Re: Minutes from Pre-Bid Conference on September 18, 2024
T-Hangar Developments
Calhoun County Airport

MINUTES

A project Pre-Bid Conference was held on September 18, 2024 from 11:00-12:00 am at the Calhoun County Airport with members from Calhoun County, AVCON, and interested contractor representatives.

The following minutes represent a summary of the salient issues discussed. They are not intended to be a verbatim transcript of the meeting or a part of the contract documents. These minutes are for informational purposes only.

A copy of the meeting agenda and a list of meeting participants are attached. General introductions were made by Mr. John Collins with AVCON followed by a review of the purpose of the meeting. The following items were discussed:

- Mr. John Collins initiated a review of the project requirements. The Contractor shall comply with the Contractor Access Plan at all times. Contractors shall be restricted to the construction area. Dust must be kept to a minimum and the Contractor shall be responsible for all erosion control structures and making revisions to these structures as needed to control erosion. The Contractor shall become familiar with all applicable FAA Safety Circulars.
- Mr. Collins stated that dust control is an important requirement of this project. The contractor shall provide water during grading activities in an effort to minimize dust and to protect aircraft equipment and operations in the vicinity.
- Mr. Collins stated that the airport is not a FAR 139 airport and is not controlled with a control tower. However, the contractor shall provide a security contact and the Contractor shall provide a 24-hour cell phone number to the County. The Contractor shall monitor Unicorn frequency 122.9 when on the airfield.
- The contractor shall utilize the contractor staging area indicated on the plans. The Contractor shall restore the staging area to the original or better condition. The Contractor shall be responsible for submitting NPDES Notice of Intent and shall implement BMPs. Contractor is responsible for obtaining all local construction permits.
- Erosion control measures shall be in place prior to disturbing the soil and shall remain until sodding is placed and activities are complete then removed at the end of the project.

T-Hangar Development Pre-Bid Conference Minutes
Calhoun County Airport
Calhoun County, Florida
September 18, 2024
Page 2 of 3

- Demolition shall include removal of existing pavement, fencing, stripping and grubbing.
- Contractor shall locate all existing utilities on site and stake them.
- The T-hangars consists of two, 153 ft x 52 ft hangars, one with two T-hangar units and a large open space while the other has T-hangar 6 units. Another hangar is 285 ft x 52 ft with 12 units. All three hangars have 42-ft doors.
- All stormwater is conveyed to the adjacent swale via overland flow or through an inlet and pipe system. No standing water is allowed. Any birdbaths shall be regraded and sodded to correct low areas.
- The existing taxiway just north of the proposed hangars shall be extended to accommodate access to the new hangars.
- A new transformer shall be installed in accordance with the plans.
- Fence remove and installation is required to surround new hangar buildings.
- All sod is specified to be Argentine Bahia sod.
- Coordination and inspection shall be directed through Mr. John Collins (850-678-0050). The contractor shall contact AVCON prior to covering materials for material acceptance at least two days prior to covering the materials.
- Mr. Collins began a review of the administrative items. The bid date is Monday, November 4, 2024, until 4:00 p.m. local time at the Calhoun County Clerk's Office. Bids shall be sealed. Bids received after the specified time will not be considered. The bids will be opened and read aloud to all interested parties at the regularly scheduled Calhoun County Board of County Commissioners meeting November 5 at 2:00 pm.
- The basis of award shall be based on the lowest combination of the base bid and additive alternates ultimately awarded by the County.
- After the bid date, the County will meet with the low bidder to review their bid and confirm their understanding of the project.
- The contract time for the all work to substantial completion is 180 days and 210 days to final completion from the project Notice-to-Proceed. The contract time for Additive Alternate No. 1 and/or 2 is 180 days to substantial completion and 210 days to final completion from the project Notice-to-Proceed. The contract time remains the same whether Additive No. 1 or Additive No. 2, or both Additive Alternates are awarded.
- Liquidated damages are specified at \$1,000 per day that the project is not substantially complete by the substantial completion dates or finally complete by the final completion dates.
- This is a unit price contract. The contractor shall be paid for work performed, accepted and measured in the field. Final accepted quantities shall be reconciled in a final change order that adjusts the final contract price.
- Mr. Collins explained the last day for Contractor questions is Wednesday, October 16, 2024. Contractor questions shall be coordinated in writing with Mr. John Collins, (jcollins@avconinc.com, 850-678-0040 fax, 850-678-0050 office).

- Questions:
 - Bidder “Will the Power be shut off to the existing terminal?”
John Collins “No the power will not need to be shut off because a new transformer will be installed.”
 - Bidder “Is the survey of the area done beforehand or are we responsible for that?”
John Collins “Yes the survey is already completed.”
 - Bidder “Is insulation in the hangars a requirement?”
John Collins “No, but that is something we will add in an addendum.”
 - Rob “Are the lights LED?”
John Collins “Yes”
 - Rob “Will they be on the wall or suspended from the ceiling?”
 - John Collins “We can talk about that and decide what is best.”

END OF MINUTES

T-HANGAR DEVELOPMENTS
Calhoun County Airport—Calhoun County, Florida

PRE-BID CONFERENCE
September 18, 2024 – 11:00 am CDT

AGENDA

I. INTRODUCTION OF PARTICIPANTS

- A. Owner -** Calhoun County
- B. Engineer-** AVCON
- C. Funding Agency -** FDOT

II. PURPOSE

To review and clarify the construction scope, procedures, safety measures associated with the bidding documents, and to answer questions.

III. SCOPE OF WORK

A. Safety

- 1. Construction Safety and Phasing Plan:
 - a. Aircraft operations in proximity
 - b. Barricades & vehicular requirements
- 2. Dust and erosion control
- 3. Staging and access

C. Security

- 1. Airport security
- 2. Contractor's personnel

D. Description of Project

- 1. Mobilization and permitting
 - a. NPDES and construction permits
- 2. Site preparation
 - a. Erosion control
 - b. Demolition
- 3. Primary Construction elements
 - a. T-Hangar #1
 - i. 153ft x 52ft
 - ii. Two Units with one large open space
 - iii. 42ft doors
 - iv. One-piece hydraulically operated
 - b. T-Hangar #2
 - i. 153ft x 52ft
 - ii. 6 Units
 - iii. 42ft doors
 - c. T-Hangar #3
 - i. 285ft x 52ft
 - ii. 12 Units
 - iii. 42ft doors
 - d. Grading
 - e. Stormwater conveyance
 - f. Taxilane extensions
 - g. Potable and sanitary sewer improvements
 - h. Fencing improvements

- i. Interior wall-mounted lights and exterior wall-mounted lighting
- j. Argentine Bahia Sod
- k. Florida Public Utilities Allowance

IV. ADMINISTRATION

A. Project Schedule and Time

- 1. Bids due on Monday, November 4, 2024, until 4:00 p.m. (C.T.)
- 2. Duration and Time of Completion
- 3. Liquidated Damages

B. Contract Documents

- 1. Unit prices
- 2. Basis of Award

C. Bidding Documents—Listed on Bid Form

- D. Contractor Questions** - Address in writing NLT close of business on Wednesday, October 16, 2024. ATTN: John Collins
(jcollins@avconinc.com, 850-678-0050 office)

V. QUESTIONS AND ANSWERS

PRE-BID CONFERENCE SIGN- UP SHEET

September 18, at 11:00 a.m. CDT

T-Hangar Developments
Calhoun County Airport

NAME	REPRESENTING	TELEPHONE	E-MAIL ADDRESS
Bryan Thurman	Thurman Const.	858-260-5564	b_thurman@yahoo.com
Chad Bailey	CPWG Constructors	850-447-1556	chad.bailey@cpwgconstructors.com
Taylor Slowinski	Elite Building Group	334-547-2943	taylor@ebg-llc.com
Jesse Watters	ProAm Steel	334-796-8368	jessc@bigredmetals.com
ANDREW WRIGHT	A WRIGHT WELDING	850 544 1831	AWW@AWRIGHTWELDING.COM
Tony Deas	D's Construction	850-933-2262	TonyDeas26@gmail.com

**Responses to Plan Holder Questions
T-Hangar Development, Calhoun County Airport
November 7, 2024**

1. T-Hangar Foundation: Per Item H-100 in the project manual, it appears the design of the structural elements of the T-Hangar foundations and slabs will be covered in the contractor's cost of work. The layout and details shown on drawings C-6 through C-9 also reiterate the contractor's responsibility to carry the cost of design for the foundations and slabs in their scope of work and cost line items. Please verify there are no other drawings available related to the structural design of the slabs and foundations for the hangars and it is the contractor's responsibility to carry that cost in their proposal.

RESPONSE: Correct, the design of the T-Hangar foundations are the responsibility of the contractor per the requirements provided on Sheet C-6 and C-8 and Technical Specification H-100, Section 2.10(b). Addendum No. 2 clarifies that the minimum foundation slab thickness is 8 inches.

2. Hangar Layout: A hangar manufacturer stated the clear span 88' could be done for Hangar #1 but it would most likely require an additional column somewhere and that would defeat the purpose of trying to have all that open space. Would this design work for hangar #1? Also noticed that the tail section of the T-Hangars would need to be 22' in order for the 44' dimension to work out properly. This may alter the overall lengths of the buildings.

RESPONSE: The roof elevation and ridge orientation for the large open area in Hangar #1 have been revised in Addendum No. 2 to allow the load bearing walls to run north-south over the large open area. This should allow the clear open area depicted on Sheet C-6 without requiring interior columns. The tail section widths will be revised to 22 ft in Addendum No. 2.

3. Lift Station: Can you please provide the proposed elevations for the Lift Station?

RESPONSE: The elevations are provided in Addendum No. 2.

4. Please Clarify: Will the information requested below be furnished before the due date or will be furnished and/or installed by others? Metal Building Specifications, Hangar Door Specifications, Personnel Door Specifications, Plumbing Specifications, Mechanical Specifications, Insulation Specifications, Toilet Accessory Specifications, Fire Extinguisher Specifications, Fire Protection/ Life Safety Plan, Foundation Plan, Restroom Plan, and Plumbing Plan.

RESPONSE: Please see responses to each item requested below:

- *Metal building specifications – Specifications provided in Technical Specification H-100: Aircraft T-Hangar Buildings*
- *Hangar door specifications – Specifications provided in Technical Specification H-100: Aircraft T-Hangar Buildings*
- *Personnel door specifications – Specifications provided in Technical Specification H-100: Aircraft T-Hangar Buildings*
- *Plumbing specifications – Plumbing specifications will be issued in Addendum No. 3.*

- *Mechanical specifications – Mechanical specifications will be issued in Addendum No. 3.*
 - *Insulation specifications – Insulation specifications will be issued in Addendum No. 3.*
 - *Toilet accessory specifications – Toilet accessory specifications are provided in Sheet A1.11 issued in Addendum No. 2.*
 - *Fire extinguisher specifications – Fire extinguisher specifications are provided in Technical Specification H-100: Aircraft T-Hangar Buildings.*
 - *Fire protection/life safety plan – No sprinkler fire protection is required for these buildings since the fire walls depicted on Sheet C-6 reduce all fire areas to less than 12,000 sf. A life safety plan will be provided during the construction permit process.*
 - *Foundation plan – Foundation plan to be provided by the contractor in accordance with requirements on Sheets C-6 and C-8.*
 - *Restroom plan – Restroom plan is issued with Addendum No. 2.*
 - *Plumbing plan – Plumbing plan for restroom will be issued with Addendum No. 3.*
5. Please Clarify: The specifications call for metal building manufacturer's engineer to provide the foundation design. Will the PEMB engineer provide load calculations but not provide the foundation design? Should the GC bid the slab as design-build portion of the work, including the engineering?

RESPONSE: Please refer to response provided for Question No. 1.

6. Signage: What are the specifications for building/ unit signage?

RESPONSE: A building signage allowance will be added to the Bid Schedule in Addendum No. 2. The building signage will be coordinated with the contractor during the construction phase to match the existing airport signage theme.

7. Door Specifications: Do you have any door specs, or can I figure for Higher Power hydro doors (the door type will determine a lot about the building eave height.)

RESPONSE: No specific hangar door manufacturer is specified. Performance criteria for these doors are provided in Technical Specification H-100: Aircraft T-Hangar Buildings, Section 2.9 (a).

8. Fencing: The plans specifically state the break line between the base bid and the alternates, and it specifically includes the proposed fence and utilities. I only have 586ft for the base bid, which I guess we can call it 600 for waste sakes. Is the gate to be included in the base bid even though the plans show it in the alternate?

RESPONSE: Addendum No. 2 will clarify that all fence improvements will be included in and paid for in the Base Bid. The Bid Schedule will be revised to include all fence and gate quantities in the Base Bid. The fence will be paid for as a unit price pay item and the County will pay for actual quantities measured and accepted in the field.

9. Fencing: What is the detail for the fencing, i.e. how big are the posts (line, terminal, and gate) what material do they require?

RESPONSE: In accordance with Technical Specification F-162, Chain-Link Fences, the post sizes shall be in accordance with Federal Specification RR-F-191/3. The line posts, rails, and braces shall be galvanized steel pipe conforming to the requirements of ASTM F 1083.