

690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

Architectural Review Board Staff Report

Meeting Date: May 9, 2024

From: Isaak Simmers, Planner *als*

Location: 18460 Olive Street Road

Description: **Spirit of St. Louis Airpark (18460 Olive Street Road):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a leasehold area zoned "M3" Planned Industrial District located on a 47.97-acre tract of land south of Olive Street Road at the intersection of Outlet Boulevard and Spirit Airpark East Drive (Ward 4).

PROPOSAL SUMMARY

Crawford, Murphy & Tilly Engineers and Consultants, on behalf of Spirit Sky Club LLC, has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a leasehold area zoned "M3" Planned Industrial District located on a 47.97-acre tract of land south of Olive Street Road. The applicant has proposed a new hangar complex at the Spirit of St. Louis Airport. The new hangar complex will be developed on an approximately six (6) acre leasehold area and will include room for approximately twenty-eight (28) hangar units, aircraft apron, taxi line pavement, and a paved parking area.



Figure 1: Subject Site

SITE HISTORY

The site was zoned “M-3” Planned Industrial District for Spirit of St. Louis Airport via Ordinance 2212 prior to the incorporation of the City of Chesterfield and remained undeveloped. The current ordinance governing the site is [Ordinance 1430](#).

STAFF ANALYSIS

The subject site is undeveloped; however, there is existing flatwork on site that includes a runway and taxiways. Spirit Airpark East Drive is a St. Louis County owned road with a cul-de-sac at the end of the street. It is at the end of this existing cul-de-sac that the applicant has proposed a hangar complex comprised of two separate hangars with a total of twenty-eight (28) hangar units, an aircraft apron, taxi-line, parking area, and associated security infrastructure. The northernmost building has a total area of 35,474SF and the southernmost building has a total area of 63,440SF.

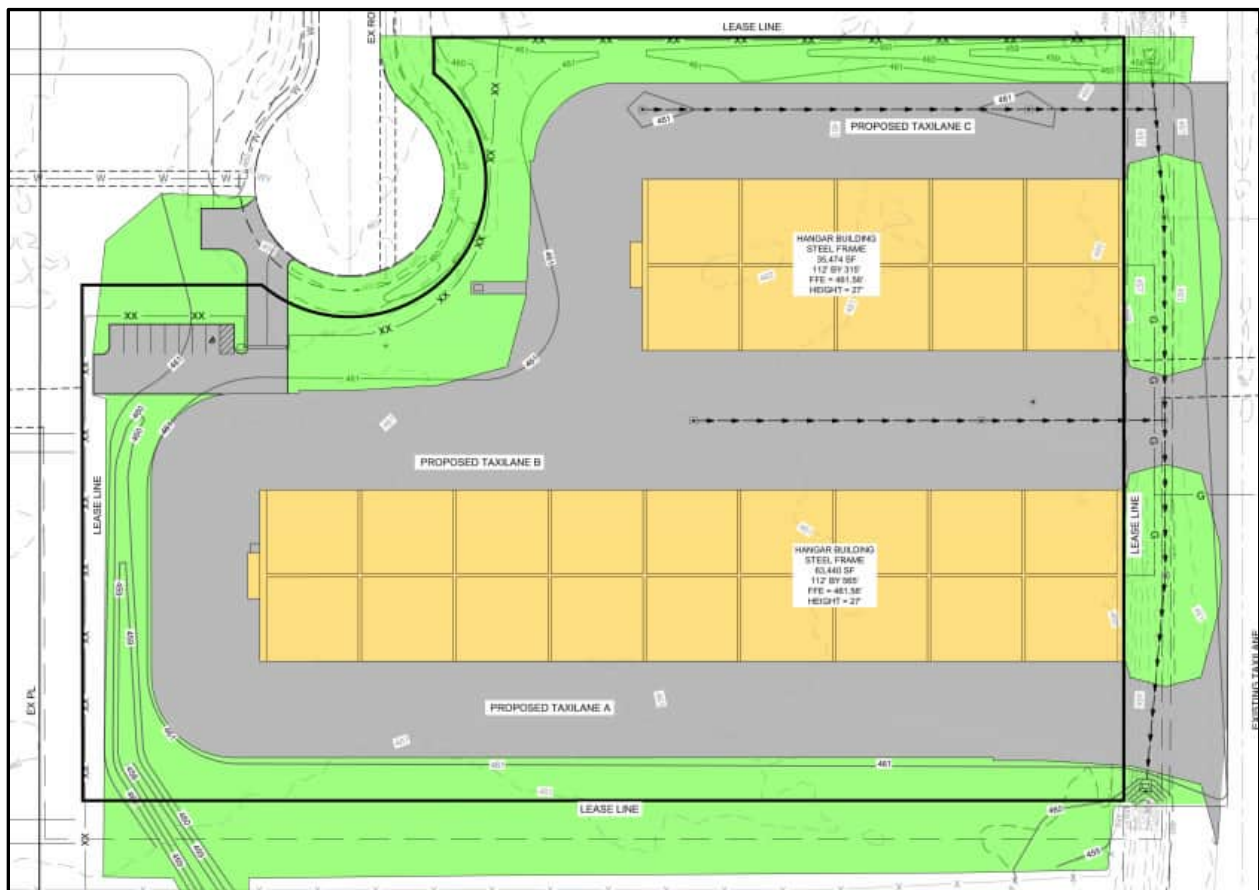


Figure 2: Colored site plan

Circulation System & Access

The subject site will be accessed from the cul-de-sac on Spirit Airpark East Drive and all associated parking and taxi-lanes will be gated from the public. The proposed width of the entrance is twenty-six (26) feet and adequate space has been incorporated to provide the required turnaround for gated developments. The proposed plan includes a fuel tank located on the west side of the north hangar building and the proposed flatwork will include three (3) connecting drives to the taxi-lane to the east of the site. Aircraft can enter the hangars on both the north and south sides and each overhead door contains a human-door. There are also three (3) proposed entrances on the west elevation of the northernmost and southernmost buildings.



Figure 3: Proposed site access

Topography & Parking

The natural topography of the site is relatively level and the applicant has not proposed the use or need for any site retaining walls. There is a very slight slope (<1%) to the east and south that drains into an existing Chesterfield Valley Stormwater channel. Drainage patterns will be maintained to the extent possible with some modification necessary to effectively drain the site.

Scale & Design

The proposed hangar complex is scaled to match existing hangar architecture throughout the airport. The hangars are one story and are designed so that aircraft can enter from both the north and south sides of each building. Wings of Hope, LLC has a single hangar to the east and the parcel to the west remains undeveloped.

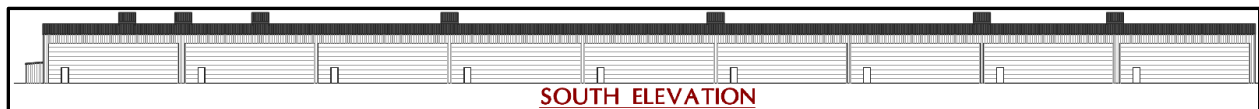


Figure 4: South elevation of the southernmost hangar building



Figure 5: North elevation of the northernmost hangar building

Materials & Color

The applicant has proposed two colors to contrast the walls and the roofing. The walls will include ribbed metal siding, and all overhead doors and steel human-doors will be Polar White by Economy Metals, INC. The metal roofing and trim will be colored Charcoal by the same company.

Landscape Design & Screening

Spirit of St. Louis Airport requested that all landscaping for developments within the airport vicinity stick with elements that would not attract wildlife. Requests for changes to the City's landscape requirements must be accompanied by a letter from a certified tree specialist, per City regulations. The United States Department of Agriculture (USDA), Wildlife Services, provided a letter to the applicant backing their request which has been included in the packet. The site is comprised of turf grass and no new landscaping is proposed.

Rooftop HVAC screening is supplied in accordance with City code and is proposed to match the roof's color and composition. White vinyl will be used for both the proposed trash enclosure and the proposed fuel tank, see figure 6. The subject parcel has existing chain-link security fencing already in place, and the applicant has proposed adding more that will link for complete enclosure of the site, see figure 5.



Figure 6: Existing chain-link fence

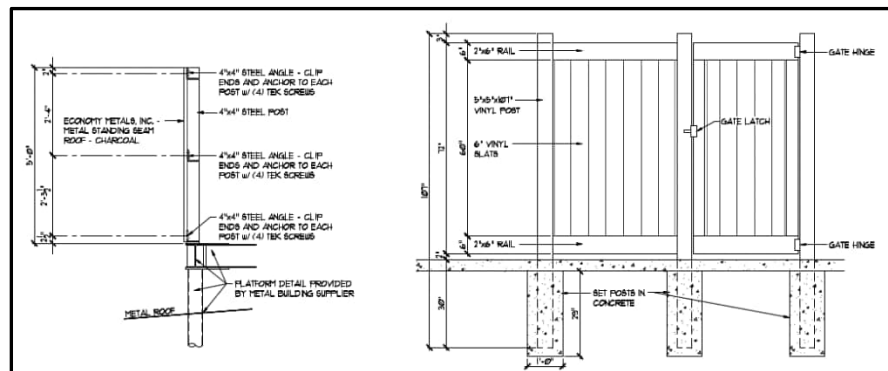


Figure 7: Proposed fuel tank / trash enclosure screening (white vinyl)

Lighting

The applicant has provided a site photometric plan and fixture cut sheets for all proposed fixtures. There are a total of 28 proposed fixtures and maintain an average of 1.6 footcandle (fc) throughout the hangar area and an average of 2.98 fc throughout the parking area. The maximum footcandle recorded on site is 7.8 fc and the maximum mounting height of the hangar fixtures will be eighteen and a half (18.5) feet. St. Louis County has not approved the installation of lighting and sidewalk for Spirit Airpark East Drive, see the emailed response from Greg Marshall, P.E. included with the packet.

RENDERING



DEPARTMENT INPUT

Be advised, this project is still going through development review by the City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the Architectural Review Board will be included in Staff's report to the Planning Commission.

Staff requests review on a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a leasehold area zoned "M3" Planned Industrial District located on a 47.97-acre tract of land south of Olive Street Road at the intersection of Outlet Boulevard and Spirit Airpark East Drive.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1. "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit of St. Louis Airpark (18460 Olive Street Road) as presented, with recommendation for approval (or denial) to the Planning Commission."

2. "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit of St. Louis Airpark (18460 Olive Street Road) to the Planning Commission with a recommendation for approval with the following recommendations..."

Attachments:

1. ARB Application
2. Applicant's Statement of Design and Intent
3. Landscape Hazards Letter (STL Airport / USDA)
4. Email response by G. Marshall, P.E.
5. ARB Submittal

SPRJT

**Of St. Louis
Airport**

SINCE 1964

**Business Aviation
Center of the U.S.**

Sam Page
County Executive

John D. Bales, C.M.
Director of Aviation

December 1, 2023

**RE: Spirit of St. Louis Airport
Chesterfield, Missouri
Wildlife Management at Spirit of St. Louis Airport**

To whom it may concern:

This letter is to address potential safety hazards created by certain types of landscaping features in and around Spirit of St. Louis Airport.

The Federal Aviation Administration (via FAA regulation subsection 139.337 and AC 150/5200-33C) makes it the responsibility of airport operators to minimize the chances of aircraft strikes with wildlife, both on the ground and in the air. One method is by controlling the amount and types of landscaping around the airport that could attract wildlife. Examples of landscape features that act as wildlife attractants include: water features, dense hedges, fruit and seed bearing trees, tall grasses, etc.

Therefore, the Spirit of St. Louis Airport requests that landscaping at developments within the airport's vicinity be limited only to the sorts of features that will not serve as an attractant to wildlife. Examples of this might include: decorative gravel, turf grasses, etc.

Thank you for your cooperation and please call, should you have any questions.

Sincerely,

SPIRIT OF ST. LOUIS AIRPORT



John D. Bales
Director of Aviation

CC David J. Schubert, Deputy Director of Aviation





United States
Department of
Agriculture

Animal and Plant
Health Inspection
Service

Wildlife Services

18004 Edison Ave.
Chesterfield, MO 63005
816-602-0672 (office)

March 15th, 2024

To whom it may concern

USDA Wildlife Services staff have reviewed the comments submitted by the City of Chesterfield, specifically point 16 in the general comment section and general site note 21. USDA would advise against planting of trees in the North Development Lease Lot. Trees provide roosting habitat for hazardous wildlife and depending on the species selected additional attractants such as fruit and thermal cover may be present. Trees are known to attract bird species responsible for the majority of bird strikes indicated in the KSUS strike record. Additionally, wildlife attractants should be considered when creating a landscaping plan for the North Development Lease Lot. Per AC 150/5200-33C (Section 2.8.2.1), "Vegetation that produces seeds, fruits, or berries, or that provides dense roosting or nesting cover should not be used".

The ultimate purpose of an airport is to provide a safe environment for aviation, and all other considerations must be secondary to that. Additionally, the airport is compelled, through the advisory circulars that regulate its operation, not to create habitats that could attract hazardous wildlife within proximity to the airport. In striving for compliance with those requirements, USDA recommends utilizing only non-attractive, easily manageable grasses and/or rock in landscape situations. The use of trees, shrubs, or ornamental vegetation of any kind brings the risk of attracting hazardous wildlife.

Dan Durbin
USDA Wildlife Services



APHIS Protecting American Agriculture

Equal Opportunity Employer

Isaak Simmers

From: Marshall, Gregory <GMarshall@stlouiscountymo.gov>
Sent: Wednesday, April 17, 2024 9:12 PM
To: Isaak Simmers
Cc: Todd Ehlen; alex@spiritskyclub.com; Schubert, David; Ryder, Justin; Alyssa Ahner; Justin Wyse; David Shelton; Bales, John; jackdwhaley@gmail.com; mhhgci@gmail.com; Riley, Jennifer
Subject: RE: Hangar Development Project Spirit Airport Chesterfield MO
Attachments: 2024-4-10 Spirit of STL AP (18460 Olive Street Rd) SDSP cmt ltr (2).pdf

Dear Mr. Simmers,

In response to the Spirit of STL AP (18460 Olive Street Rd) SDSP comment #10 on the attached letter, St. Louis County Department of Transportation is not approving the installation of lighting and sidewalk with this development. Here is information about the County's decision, if needed.

St. Louis County Department of Transportation does not prohibit sidewalk and streetlighting, but we are not approving it for installation with this development, and that is our discretion because we own the road.

All developments within St. Louis County's jurisdiction must conform to the requirements of the St. Louis County Department of Transportation. We have respectfully worked with our partner County Department at the Spirit of St. Louis Airport on this development. We confirmed there are issues with lighting and sidewalk at this location near the airport, and we are not approving the installation of these items.

As the County is the road owner, the decision is ours to make and not the City of Chesterfield.

Please contact me with any questions.

Sincerely,



Greg Marshall, P.E.

Supervisor, Project Managers - Civil Plan Review & Special Use Permits
St. Louis County Dept. of Transportation & Public Works
41 S. Central Ave., 5th Fl. | Clayton, MO 63105
gmarshall@stlouiscountymo.gov
314-615-8548

stlouiscountymo.gov

**OPPORTUNITY
CENTRAL**

Disclaimer

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**ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist**

Date of First Comment Letter Received from the City of Chesterfield _____

Project Title: _____ Location: _____

Developer: _____ Architect: _____ Engineer: _____

PROJECT STATISTICS:

Size of site (in acres): _____ Total Square Footage: _____ Building Height: _____

Proposed Usage: _____

Exterior Building Materials: _____

Roof Material & Design: _____

Screening Material & Design: _____

Description of art or architecturally significant features (if any): _____

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be provided 1 week prior to ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.

**STATEMENT OF DESIGN INTENT
(CIVIL)**



April 19, 2024

ATTN: Isaak Simmers, Site Development Plan Review
Department of Planning
690 Chesterfield Pkwy W
Chesterfield, MO 63017

RE: Project: Spirit Sky Club Hangars
CMT Project No. 23006099.00

STATEMENT OF DESIGN INTENT

General Requirements for Site Design

Site Relationship

The 6.83 leasehold area is currently vacant with grass cover. The proposal is for the development of 2 Steel Frame Hangar Buildings. The northernmost building is 112' by 315' for a total area of 35,474 sf. The southernmost building is 112' by 565' for a total area of 63,440 square feet. The leasehold area is part of a larger parcel with a total area of 51.7 acres. The site is zoned for Planned Industrial (M-3). To the west of the site is vacant land, also zoned as planned industrial. To the north is Chesterfield Airport Road and Olive Street Road. To the north of Chesterfield Airport Road is vacant land that is zoned as a Planned Commercial District (PC). To the east is an existing taxilane, and to the east of the taxilane there are a few properties zoned as Planned Commercial (PC) and Planned Industrial (M3). The southern portion of the site is taxilane F and to the south of the property line is some vacant land zoned as Planned Industrial (M3) as well as some parcels with industrial uses. Photos have been provided showing views of adjacent uses and sites.

Circulation System and Access

The site is accessed off Spirit Airpark East Drive and will contain automobile parking in the northwest of the leasehold area. The vehicle entrance at the north will have an electric gate and approximate stacking distance of 68 feet with a turn around on the west side. The proposed width of the entrance will be 26 feet. A fuel tank will be located on the west side of the north hangar building. There is also access through three connecting drives onto the existing taxilane to the east.

Topography

The natural topography is level with a very slight slope (<1%) to the east and south, draining to the existing Chesterfield Valley Stormwater channels. These drainage patterns will be maintained to the extent possible with some storm sewers and small swales being necessary to drain the site. No retaining walls will be required for the site.

Site Section

The Site Section Plan has been provided as part of the Site Development Plan Set Sheet C-103. This sheet shows the building setbacks from property lines as well as the sky exposure planes and proposed lease lines. Also shown are the existing taxiways and Master Stormwater Ditches. The required setbacks of 30 feet from ROW and 10 feet from property lines for rear and side yards have been met.

Landscaping

Per letter from John D. Bales, Direction of Aviation at Spirit of St. Louis Airport, dated December 1, 2023, the Spirit of St. Louis Airport requests landscaping to be limited to only features that will not attract wildlife such as gravel and turf grass. A very basic Landscaping Plan has been provided showing only grass.

Building Design

An Architectural Statement of Design has been provided in a separate document signed by Jack Whaley. This document addresses all aspects of the building design including scale, materials, colors, and screening.

Lighting

A lighting plan with cut sheets has been provided. The minimum standard of 0.5 footcandle at any point in the commercial parking area has been met.

Thanks,

David Shelton, CMT

CC : Todd Ehlen, CMT
 Brian Hutsell, CMT
 Alex Martin, Spirit Sky Club
 Mitch Hoffman, Hoffman General Contracting, INC
 David Schubert, Saint Louis County/Spirit of St. Louis Airport
 Justin Ryder, Saint Louis County/Spirit of St. Louis Airport

**STATEMENT OF DESIGN INTENT
(ARCHITECTURAL)**



April 18, 2024

Architectural Review Board
City of Chesterfield Planning Department
690 Chesterfield Parkway West
Chesterfield, Mo. 63017

Jack Whaley
Architect

Re: Proposed Buildings A and B
SPIRIT HANGARS, Spirit of St. Louis Airport
Jack D. Whaley, Architect Project No. 24016

Kurt Whaley
Project Manager

To: City of Chesterfield Planning Department

Dawn Vaught
Office Manager

Plans for the above project are being submitted to the City of Chesterfield Architectural Review Board for their consideration. The Statement of Design addresses items pertaining to the Buildings. Plans for the Site Development including Lighting, Landscaping, etc., are being submitted by others.

STATEMENT OF DESIGN INTENT

General Requirements for Building Design

Scale: The one story Hangars are scaled to match the scale of existing hangars.

Design: The buildings are designed to complement the other Airport Support Buildings and Hangars.

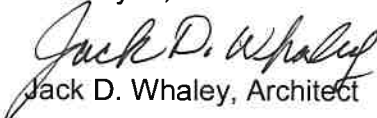
Materials and Colors: Two colors are used to contrast the walls and the roof including trim and screening for HVAC units. Walls including ribbed metal siding, overhead doors and steel doors, are Polar White by Economy Metals, Inc. Metal Standing Seam roof and screening of HVAC units, and Trim are Charcoal by Economy Metals, Inc. Refer to the color elevations and material samples to be Submitted at the Architectural Review Board meeting.

Lighting: Lighting for building and site shall conform to requirements of City of Chesterfield, Spirit of St. Louis Airport, and St. Louis County Department of Transportation.

Site Screening:


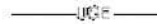





















Rooftop HVAC Screening will be the same metal as the roof.
Trash Enclosure Screening will be white vinyl
Fuel Tank Screening will be white vinyl, same as Trash Enclosure.

Thank you,


Jack D. Whaley, Architect

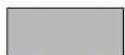



1529 S. Old Highway 94
Suite 201
St. Charles, MO 63303
Phone: (636) 946-6949
Fax: (636) 949-2909
jackdwhaley@gmail.com
jdwhaley1@sbcglobal.net

LEGEND

-  EXISTING STORM SEWER TO REMAIN
-  EXISTING UNDERGROUND ELECTRIC
-  EXISTING WATER MAIN
-  PROPOSED SANITARY PIPE
-  PROPOSED STORM SEWER PIPE
-  PROPOSED UNDERGROUND ELECTRIC
-  PROPOSED UNDERGROUND GAS
-  PROPOSED CONTOUR
-  EXISTING CONTOUR
-  EXISTING FENCE
-  PROPOSED FENCE
-  EXISTING ROW
-  PROPERTY LINE
-  LEASE AREA
-  EXISTING ROADWAY
-  EXISTING SANITARY SEWER MH
-  EXISTING MAN
-  EXISTING WATER VALVE
-  EXISTING FIRE HYDRANT
-  PROPOSED STORM SEWER INLET
-  PROPOSED MANHOLE
-  PROPOSED CLEANOUT
-  PROPOSED FLAME END SECTION

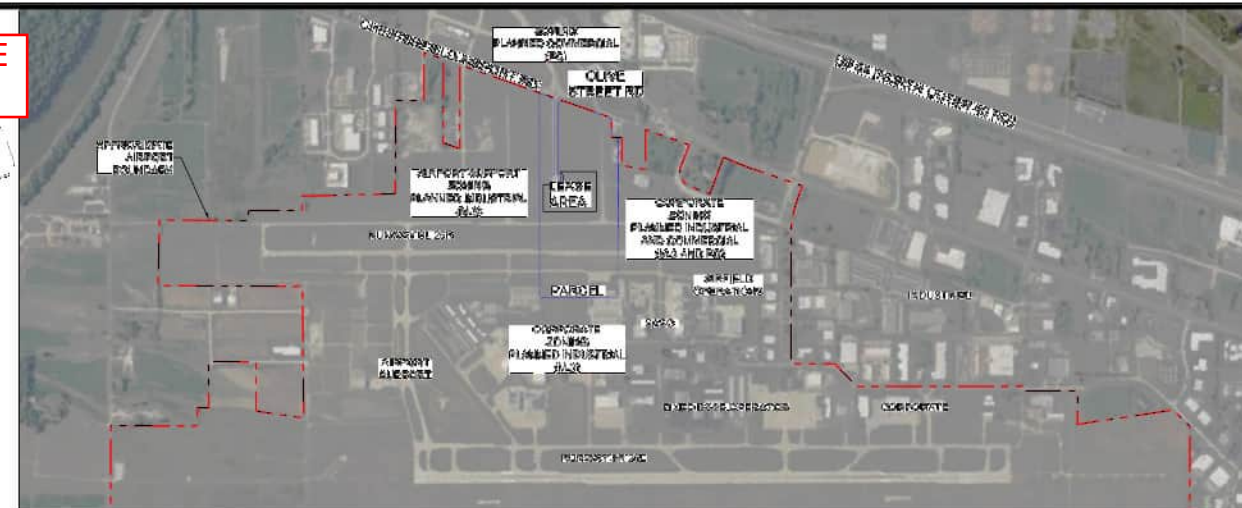
GENERAL NOTES

- NOTES**
1. PER LETTER FROM JOHN D. RILES, DIRECTOR OF AVIATION AT SPIRIT OF ST. LOUIS AIRPORT, DATED DECEMBER 1, 2023, THE SPIRIT OF ST. LOUIS AIRPORT THE DESIGN LANDSCAPING TO BE LIMITED TO ONLY RESTORES THAT WILL NOT AFFECT WILDLIFE SUCH AS GRAVEL AND TURF GRASS.
 2. ALL DISTURBED AREAS SHALL BE SECTORED AND RESTORED TO ORIGINAL CONDITION.

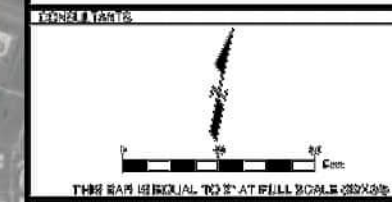
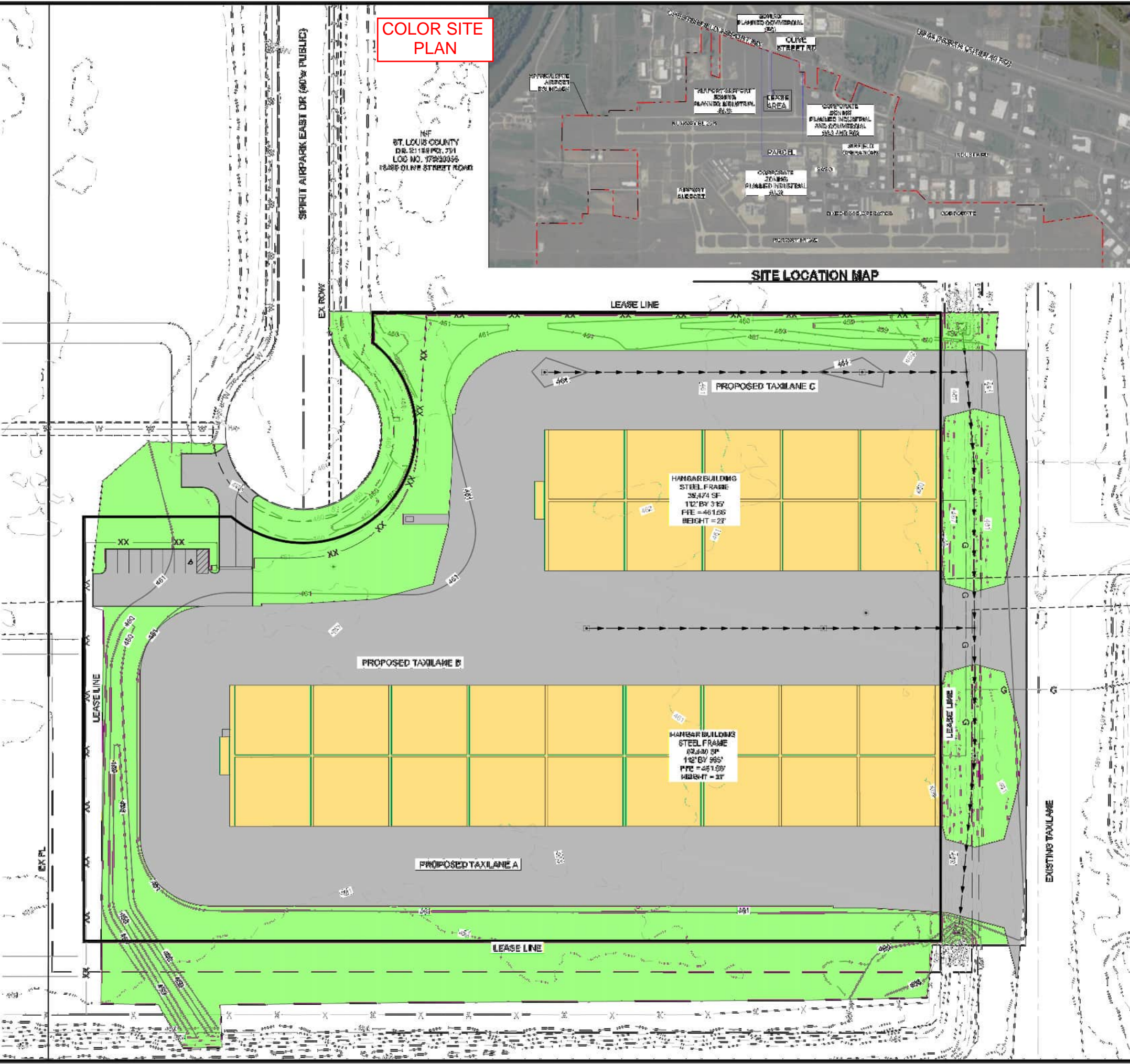
-  PROPOSED CONCRETE PARKING
-  GRASS PROPOSED SEEDING
-  PROPOSED BUILDING
-  PROPOSED RIP RAP

COLOR SITE PLAN

NF
ST. LOUIS COUNTY
DR. 21184 PLS. 791
LOG NO. 17920045
1848 OLIVE STREET ROW



SITE LOCATION MAP



NOT FOR CONSTRUCTION

**SITE DEVELOPMENT PLAN
SUBMITTAL APRIL 19, 2024**

**SPIRIT SKY CLUB
HANGAR DEVELOPMENT**



OWNER

SPIRIT SKY
SPIRIT SKY CLUB, LLC
ST. PETERS, MO
303 LAKESIDE VIEW LANE
ST. PETERS, MO 63378

DATE	DESCRIPTION

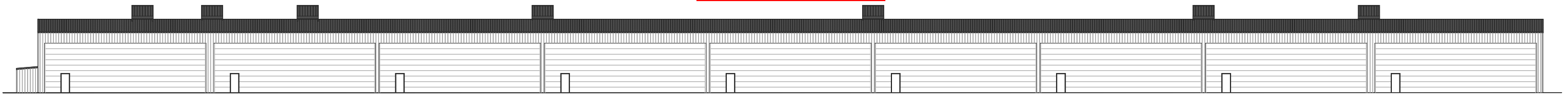
CLIENT PROJECT NO: 880009038
 CAD DATE FILE: SITE DEVELOPMENT PLAN COLOR.DWG
 DESIGNED BY: DCS
 DRAWN BY: DCS
 CHECKED BY: WRE
 APPROVED BY: WRE
 COMPANY: CMT ENGINEERING, INC. 2024
 SHEET TITLE:

COLOR SITE PLAN

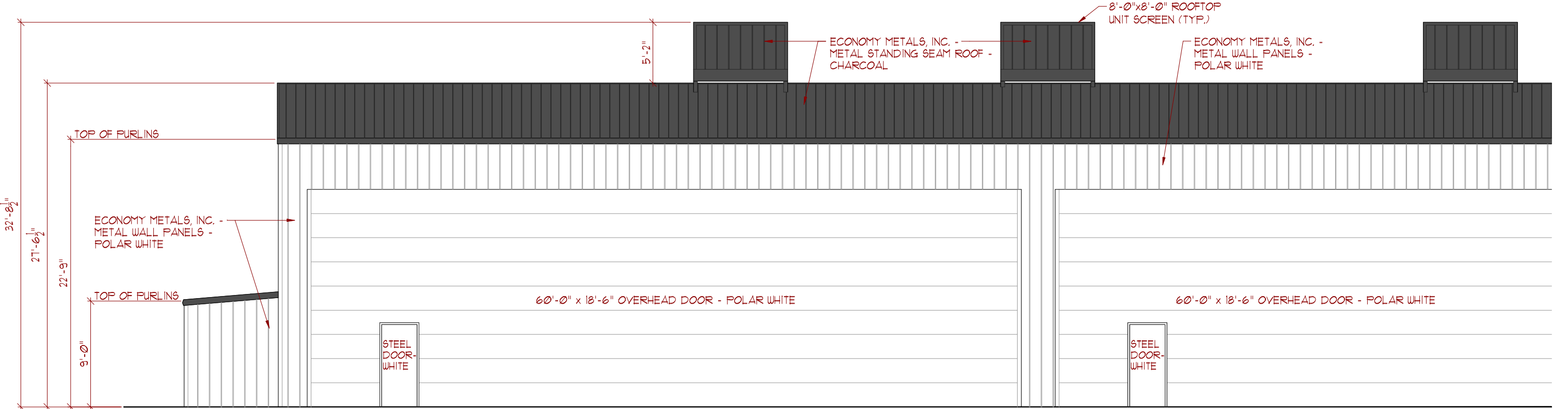
PLAN AND SITE DEVELOPMENT PLAN FOR THE SPIRIT SKY CLUB HANGAR DEVELOPMENT. NOT FOR CONSTRUCTION. DEVELOPMENT PLAN FOR THE SPIRIT SKY CLUB HANGAR DEVELOPMENT. NOT FOR CONSTRUCTION. DEVELOPMENT PLAN FOR THE SPIRIT SKY CLUB HANGAR DEVELOPMENT. NOT FOR CONSTRUCTION.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

COLOR ELEVATIONS

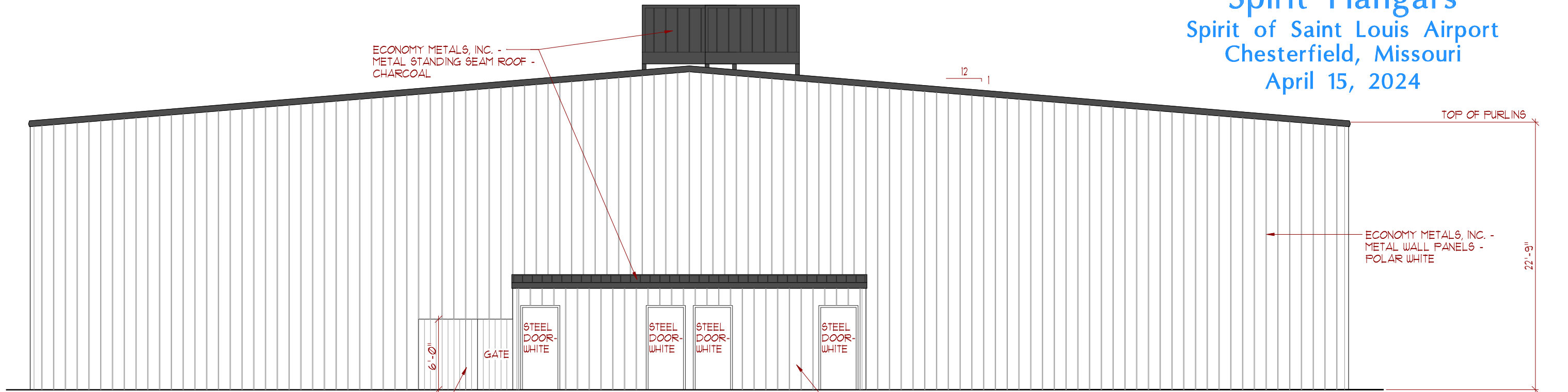


SOUTH ELEVATION



ENLARGED PARTIAL SOUTH ELEVATION

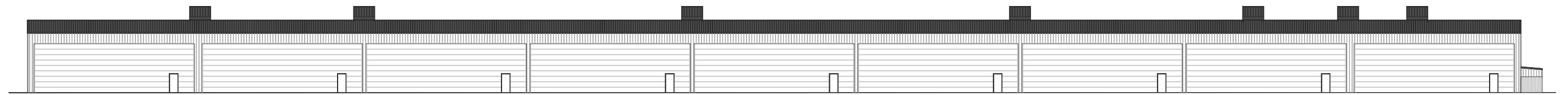
Proposed Hangar: Building A
Spirit Hangars
Spirit of Saint Louis Airport
Chesterfield, Missouri
April 15, 2024



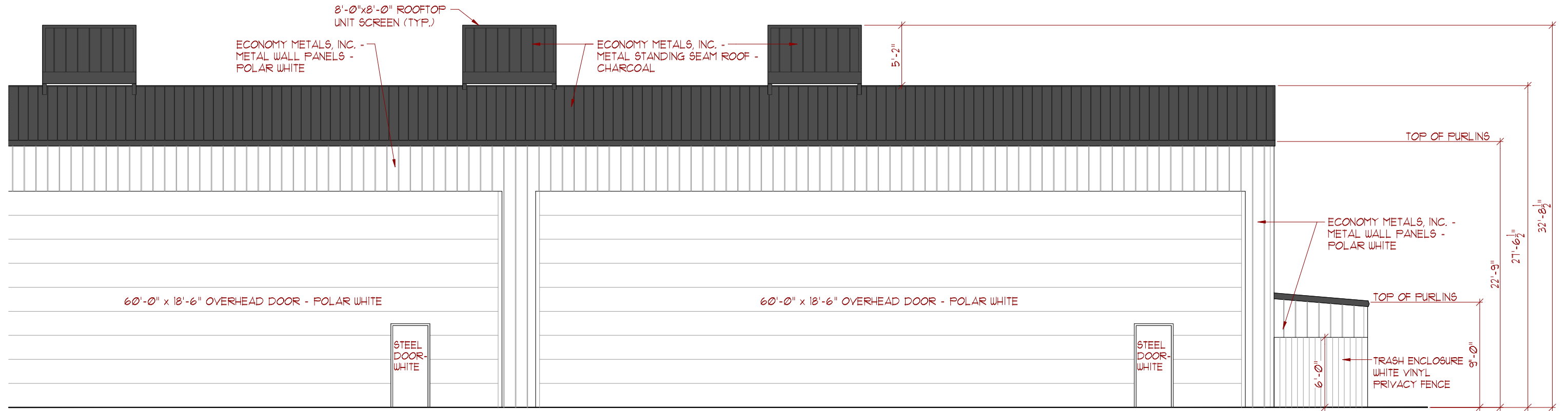
WEST ELEVATION

TRASH ENCLOSURE -
WHITE VINYL PRIVACY FENCE

ECONOMY METALS, INC. -
METAL WALL PANELS -
POLAR WHITE

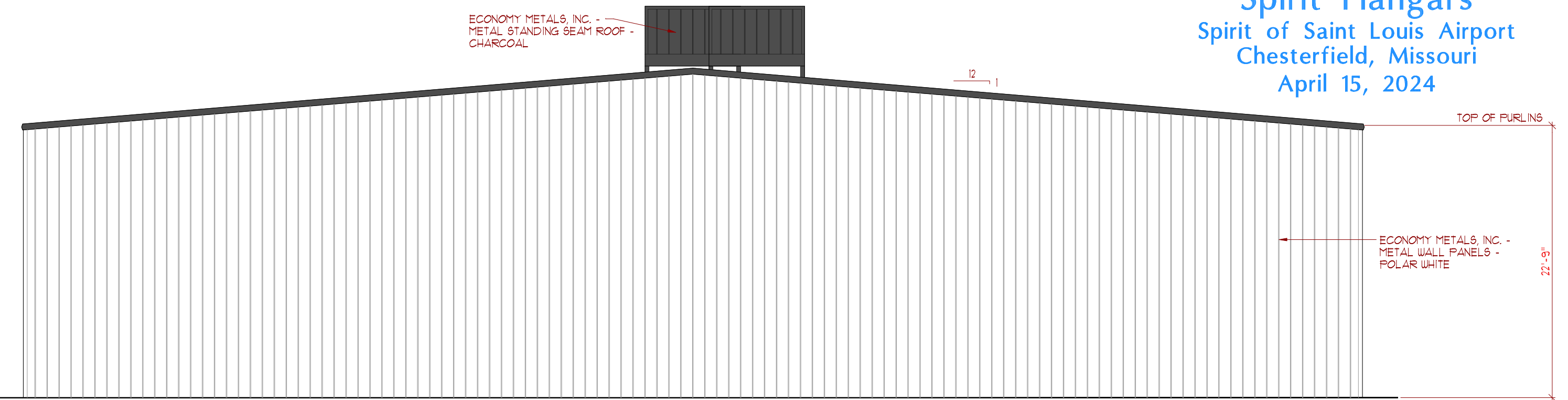


NORTH ELEVATION

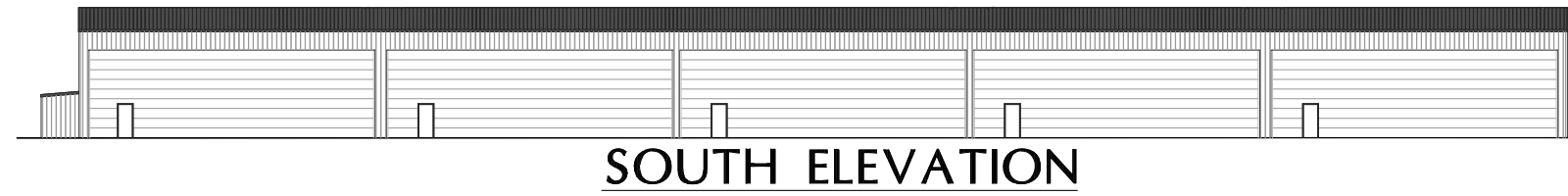


ENLARGED PARTIAL NORTH ELEVATION

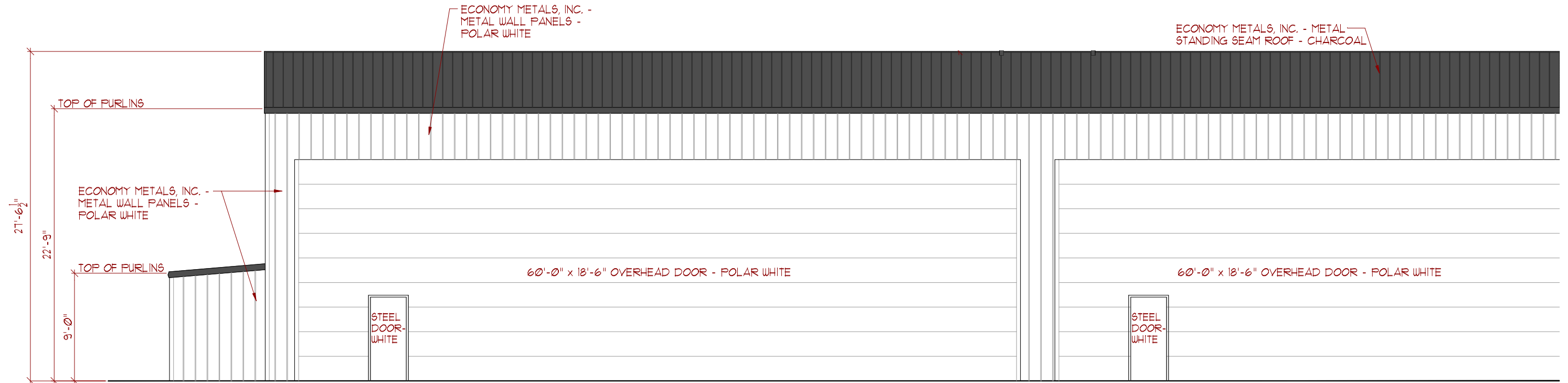
Proposed Hangar: Building A
Spirit Hangars
 Spirit of Saint Louis Airport
 Chesterfield, Missouri
 April 15, 2024



EAST ELEVATION

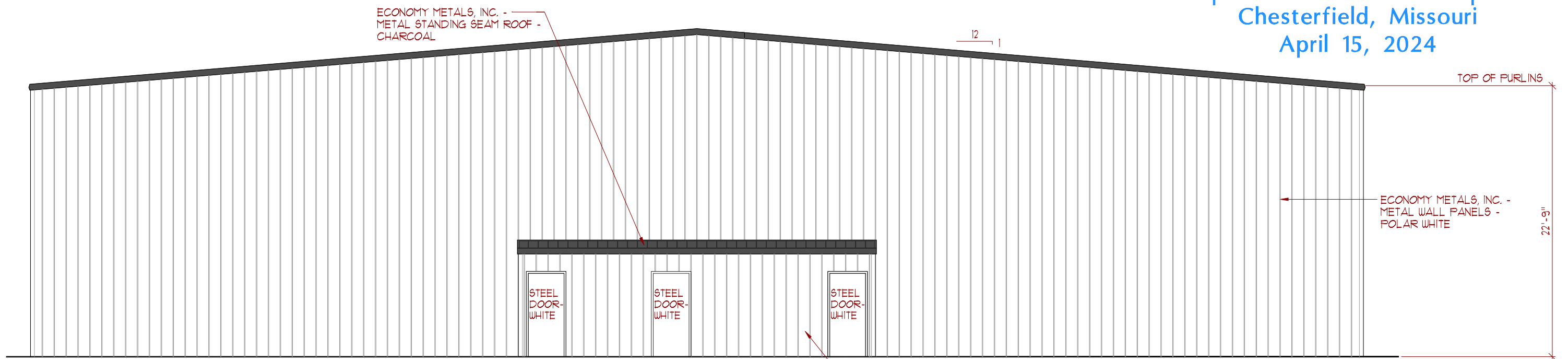


SOUTH ELEVATION



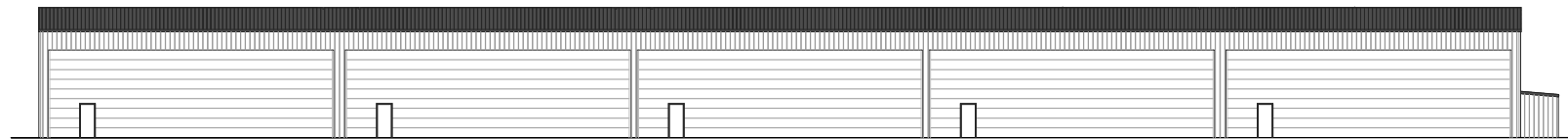
ENLARGED PARTIAL SOUTH ELEVATION

Proposed Hangar: Building B
Spirit Hangars
Spirit of Saint Louis Airport
Chesterfield, Missouri
April 15, 2024

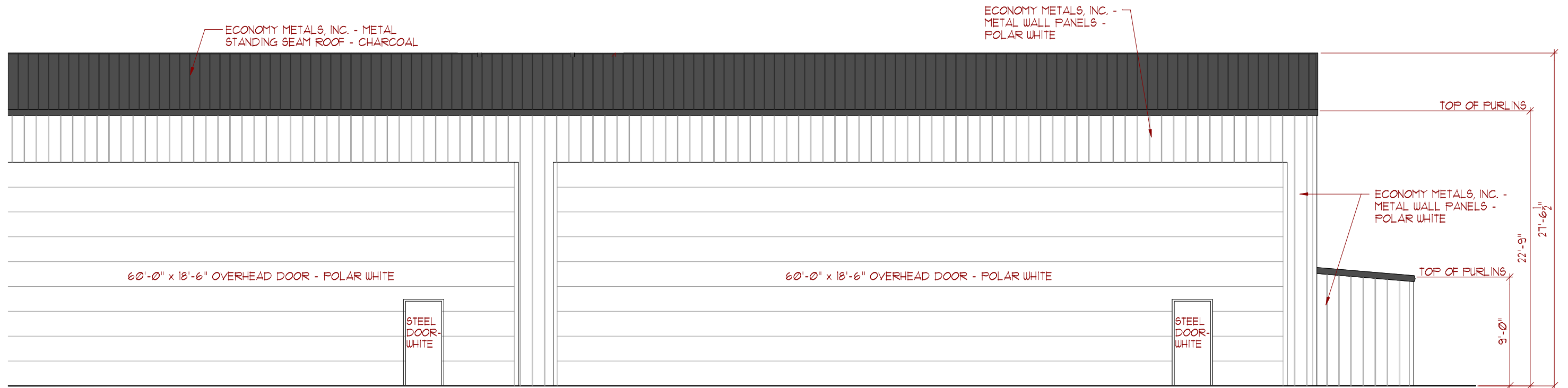


WEST ELEVATION

ECONOMY METALS, INC. -
METAL WALL PANELS -
POLAR WHITE

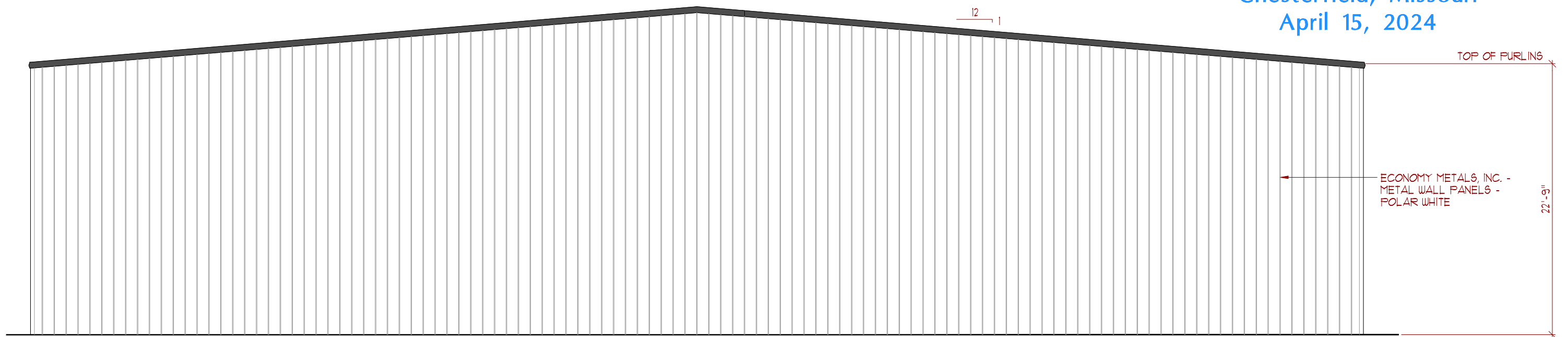


NORTH ELEVATION



ENLARGED PARTIAL NORTH ELEVATION

Proposed Hangar: Building B
Spirit Hangars
Spirit of Saint Louis Airport
Chesterfield, Missouri
April 15, 2024



EAST ELEVATION

COLOR RENDERING 1



COLOR RENDERING 2



PHOTOS REFLECTING
ADJACENT VIEW AND SITES



Figure 1 - View from existing Airpark East Cul De Sac, Looking North



Figure 2 - View from existing Airpark East Cul De Sac, Looking Northwest



Figure 3 -View from existing Airpark East Cul De Sac, Looking West



Figure 4- View from existing Airpark East Cul De Sac, Looking South



Figure 5 - View from existing Airpark East Cul De Sac, Looking Southeast



Figure 6 - North Edge of Lease Limits, Looking North



Figure 7 - Northeast limit of Lease Area, Looking Northeast



Figure 8 - Northeast Limits of Lease Area, Looking East



Figure 9 - Southeast portion of Lease, Looking Southeast



Figure 10 - Southern portion of Lease, Looking Southeast



Figure 11 - Southern portion of Lease, looking South



Figure 12 - Southern portion of Lease, looking Southwest



Figure 13 - Southwest portion of Lease, Looking West



Figure 14 - West Edge of Lease, Looking West



Figure 15 - West Edge of Lease, looking West-Northwest



Figure 16 - Northwest portion of Lease Area, Looking Northwest



Figure 17 - Northwest portion of Lease, Looking North-Northwest

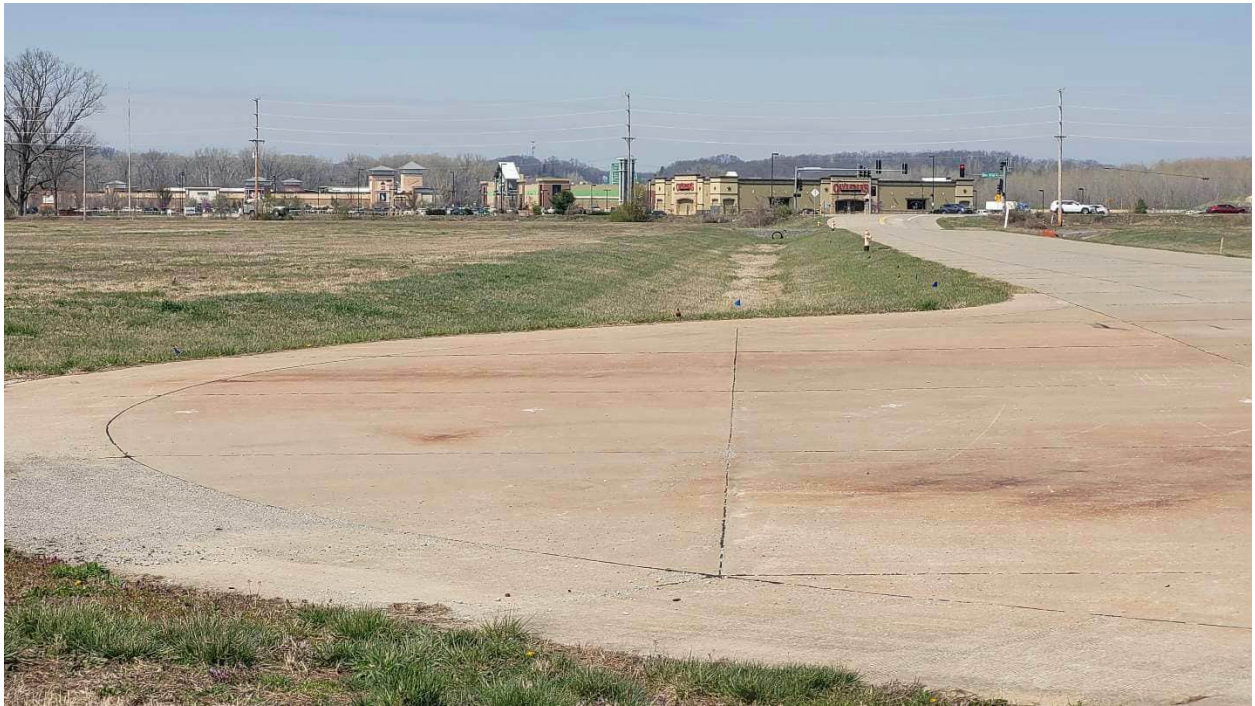
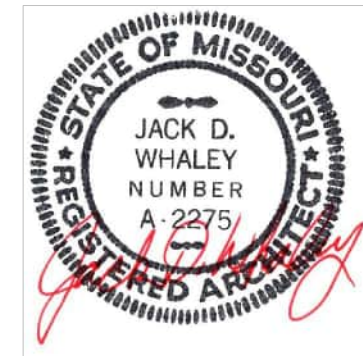
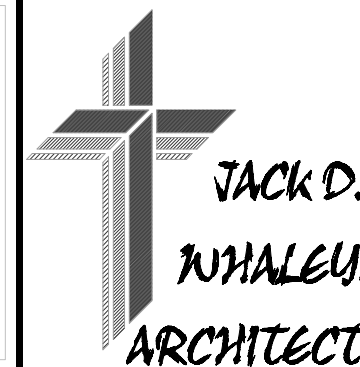


Figure 18 - Northwest portion of Lease, Looking North

SCREENING
DETAILS



April 18, 2024



SOLE PROPRIETOR

1529 Old Highway 94 S.
Suite 201
St. Charles, MO. 63303
(636) 946-6949

TRASH ENCLOSURE AND
RTU ENCLOSURE DETAILS FOR:
SPIRIT HANGARS
SPIRIT OF SAINT LOUIS AIRPORT
SAINT LOUIS, MISSOURI

SHEET TITLE:
DETAILS

DATE: APRIL 18, 2024

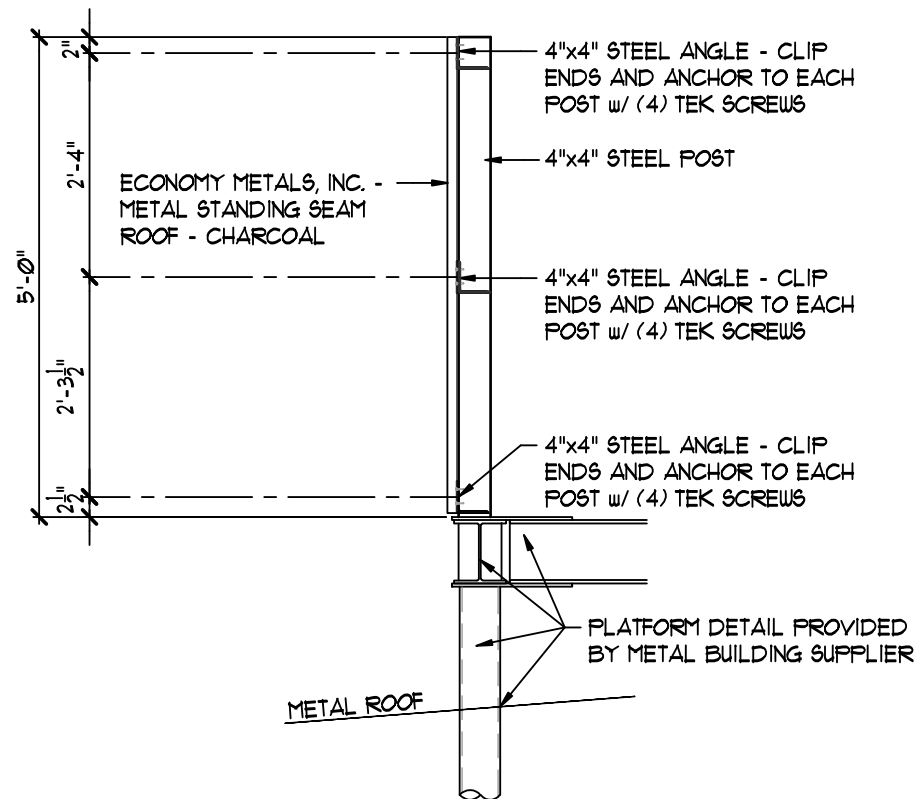
REVISIONS	BY

PROJECT. NO.: 24016

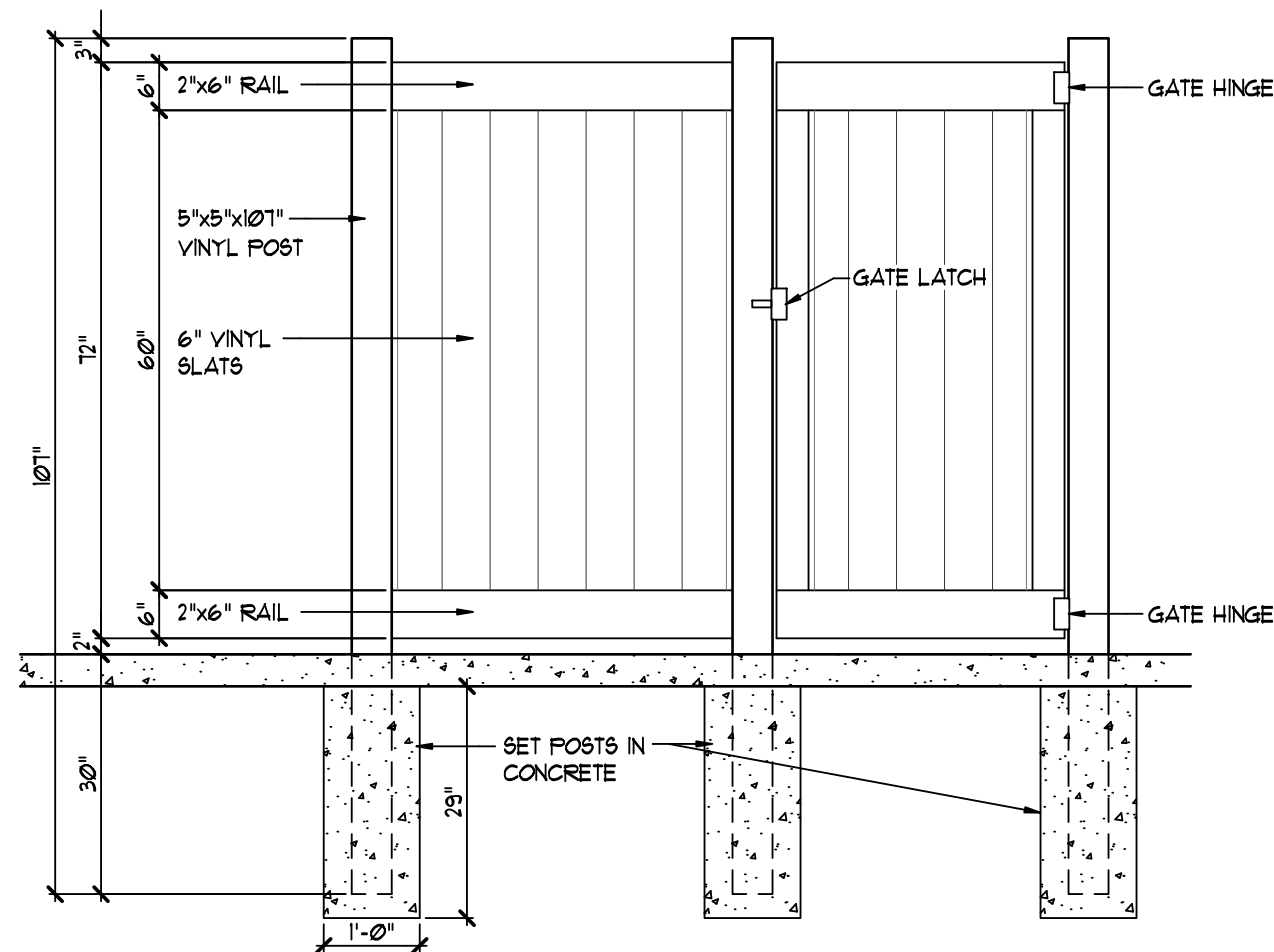
SHEET NO.

A1

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JACK D. WHALEY, ARCHITECT



RTU ENCLOSURE DETAIL
SCALE: 1/2" = 1'-0"



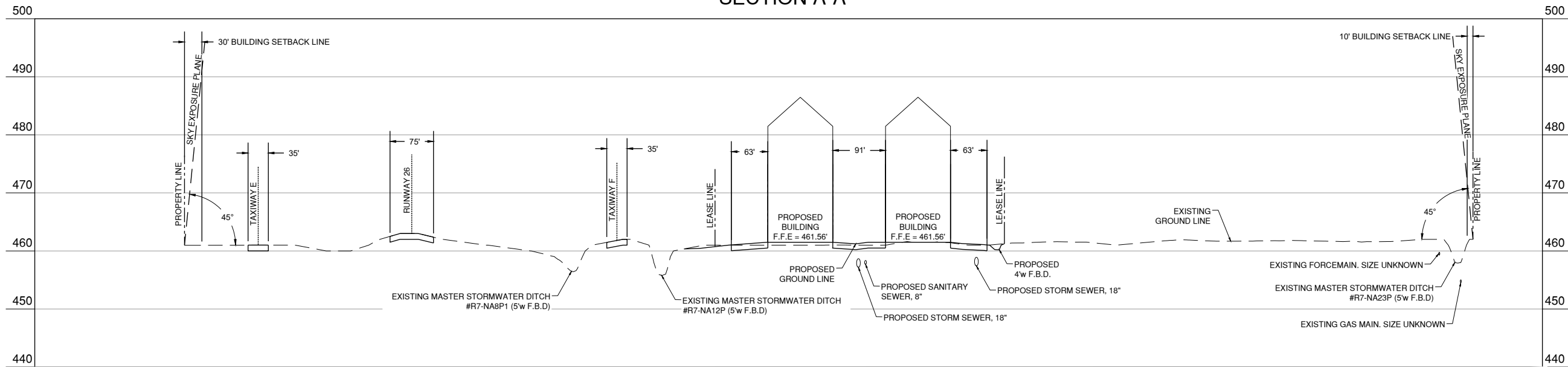
TRASH ENCLOSURE DETAIL/ELEVATION
SCALE: 1/2" = 1'-0"

EXISTING FENCE

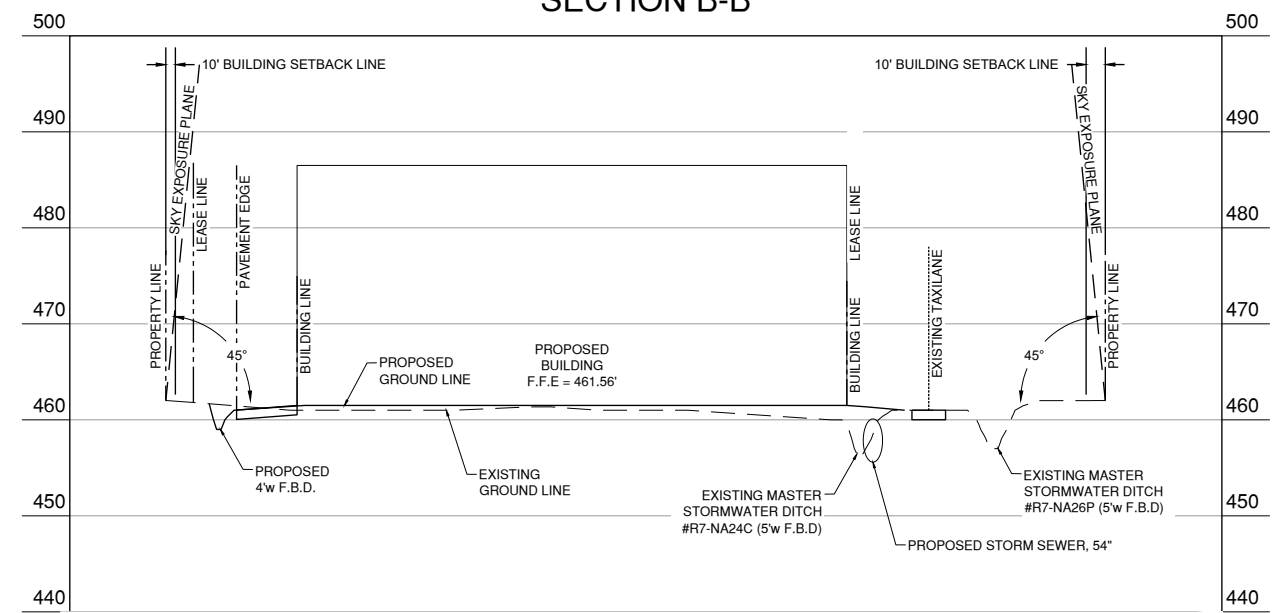


SITE SECTION PLAN

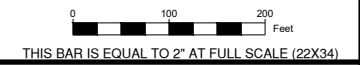
SECTION A-A



SECTION B-B



License No. 000631
CONSULTANTS



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**SITE DEVELOPMENT PLAN
SUBMITTAL APRIL 19, 2024**

**SPIRIT SKY CLUB
HANGAR DEVELOPMENT**



OWNER
SPIRIT SKY
SPIRIT SKY CLUB, LLC
ST. PETERS, MO
303 LAKESIDE VIEW LANE
ST. PETERS, MO 63376

MARK	DATE	DESCRIPTION

CMT PROJECT NO: 23006099.00
CAD DWG FILE: SITE DEVELOPMENT SECTION PLAN.DWG
DESIGNED BY: DGS
DRAWN BY: DGS
CHECKED BY: TME
APPROVED BY: TME
COPYRIGHT: CRAWFORD, MURPHY & TILLY, INC. 2021
SHEET TITLE:

SECTION PLAN





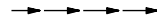
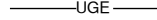
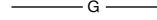
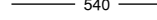
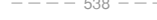
















Path: K:\SpiritSkyClub\23006099-00_SkyClubHangars\Draw\Sheets\SITE DEVELOPMENT PLAN\SECTION PLAN.dwg
Date: Thursday, April 18, 2024 2:25:22 PM

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UTILITY NOTE :
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

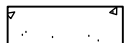

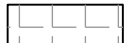

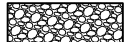
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LEGEND

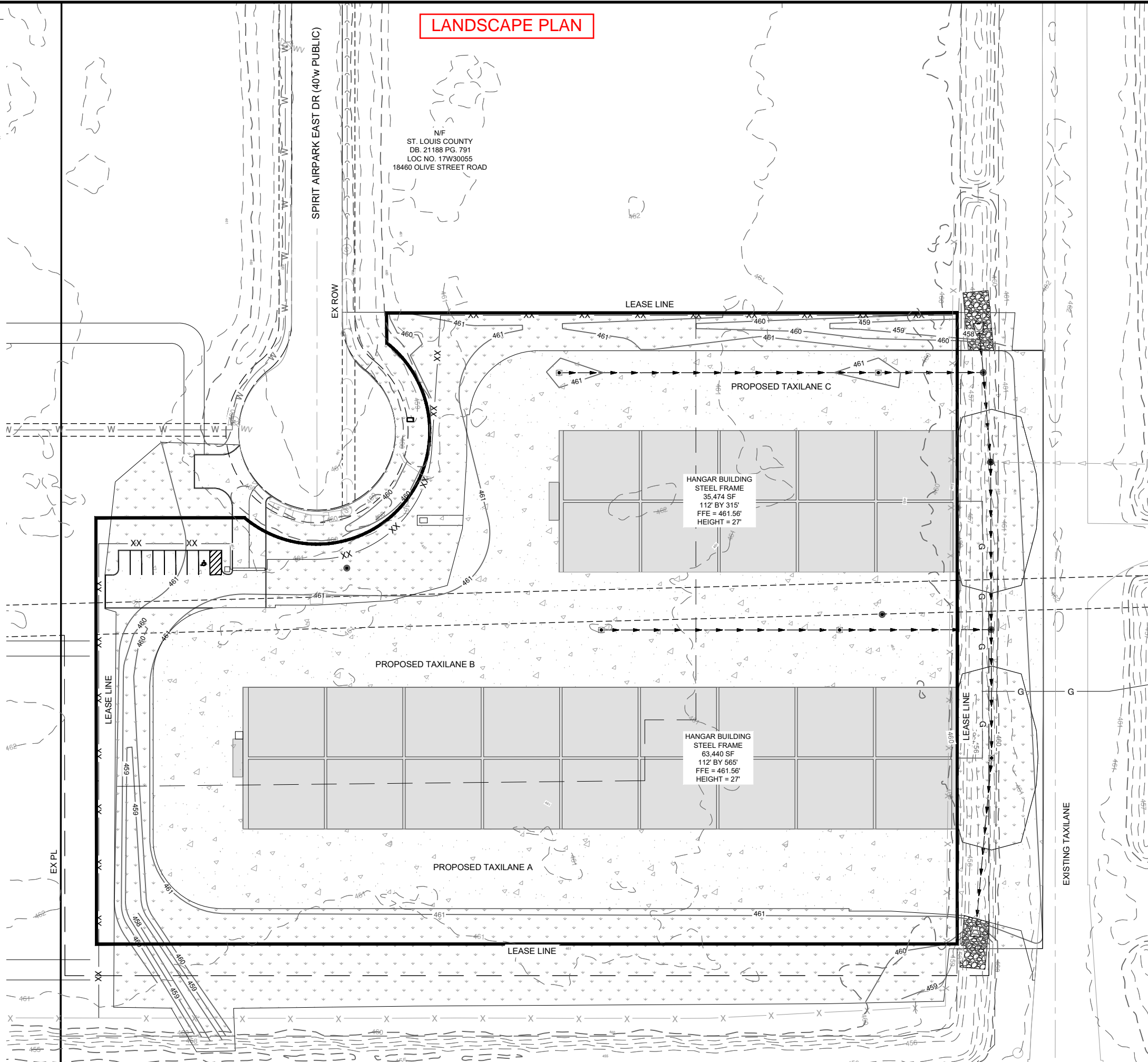
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-  EXISTING UNDERGROUND ELECTRIC
-  EXISTING WATER MAIN
-  PROPOSED SANITARY PIPE
-  PROPOSED STORM SEWER PIPE
-  PROPOSED UNDERGROUND ELECTRIC
-  PROPOSED UNDERGROUND GAS
-  PROPOSED CONTOUR
-  EXISTING CONTOUR
-  EXISTING FENCE
-  PROPOSED FENCE
-  EXISTING ROW
-  PROPERTY LINE
-  LEASE AREA
-  EXISTING ROADWAY
-  EXISTING EASEMENT
-  EXISTING SANITARY SEWER MH
-  EXISTING SIGN
-  EXISTING WATER VALVE
-  EXISTING FIRE HYDRANT
-  PROPOSED STORM SEWER INLET
-  PROPOSED MANHOLE
-  PROPOSED CLEANOUT
-  PROPOSED FLARE END SECTION
-  PROPOSED SIGN

GENERAL NOTES

- NOTES**
1. PER LETTER FROM JOHN D. BALES, DIRECTION OF AVIATION AT SPIRIT OF ST. LOUIS AIRPORT, DATED DECEMBER 1, 2023, THE SPIRIT OF ST. LOUIS AIRPORT REQUESTS LANDSCAPING TO BE LIMITED TO ONLY FEATURES THAT WILL NOT ATTRACT WILDLIFE SUCH AS GRAVEL AND TURF GRASS.
 2. ALL DISTURBED AREAS SHALL BE SEEDED AND RESTORED TO ORIGINAL CONDITION.

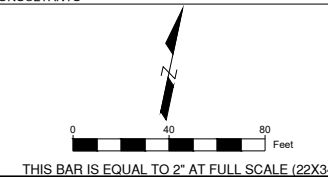
-  PROPOSED CONCRETE PAVING
-  GRASS PROPOSED SEEDING
-  PROPOSED CONCRETE SIDEWALK PAVING
-  PROPOSED BUILDING
-  PROPOSED RIP RAP

LANDSCAPE PLAN



License No. 000631

CONSULTANTS



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**SITE DEVELOPMENT PLAN
SUBMITTAL APRIL 19, 2024**

**SPIRIT SKY CLUB
HANGAR DEVELOPMENT**



OWNER

SPIRIT SKY

SPIRIT SKY CLUB, LLC
ST. PETERS, MO
303 LAKESIDE VIEW LANE
ST. PETERS, MO 63376

MARK	DATE	DESCRIPTION

CMT PROJECT NO: 23006099.00

CAD DWG FILE: SITE DEVELOPMENT PLAN LANDSCAPE PLAN.DWG

DESIGNED BY: DGS

DRAWN BY: TME

CHECKED BY: CMT

APPROVED BY: CMT

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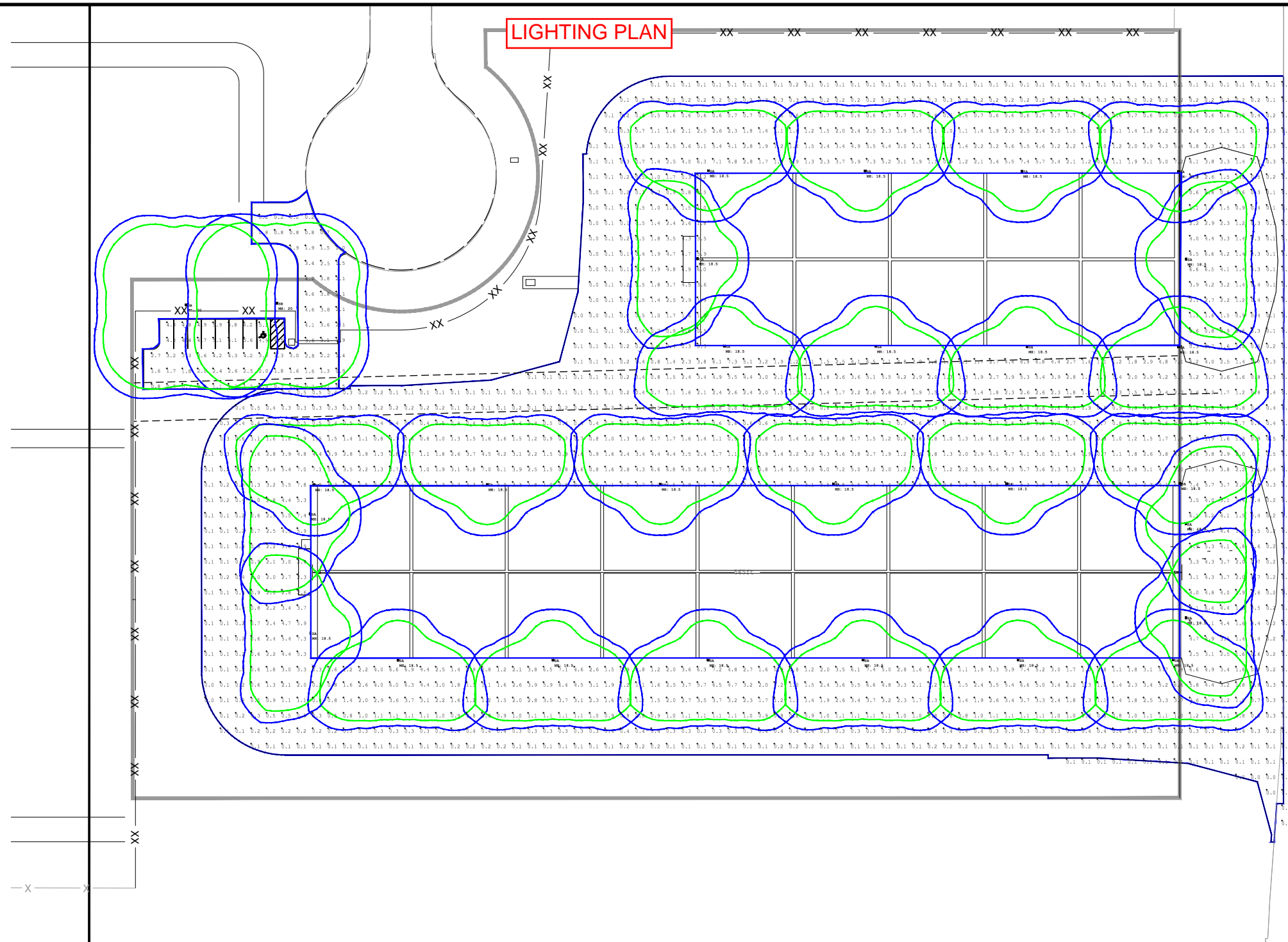
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LANDSCAPE PLAN

SHEET **5** OF **7**

C-103

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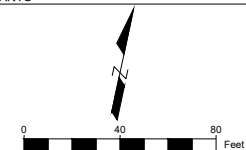


LIGHTING PLAN



License No. 000631

CONSULTANTS



THIS BAR IS EQUAL TO 2" AT FULL SCALE (22X34)

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OWNER

SPIRIT SKY

303 LAKESIDE VIEW LANE
ST. PETERS, MO 63376

MARK	DATE	DESCRIPTION

Symbol	Label	Qty	Arrangement	LLF	Description	Lum. Watts
□	SA	26	Single	0.900	SLG WFV-135-G1-4K	103
□	SB	2	Single	0.900	ATLAS SLPM-30L-T5-4K // SSS-17.5-4-11-XX-1	210

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
Hangar area_Planar	1.60	7.8	0.0	N.A.	N.A.
Parking Lot_Planar	2.98	6.8	0.5	5.96	13.60

1. Parking Lot Calculation Points Set at 0'-0" AFF, 10'x10' spacing
2. Fixture Mounting Height: 20' AFF / 17.5' Pole Height / 2.5' Concrete Base
3. Wall Mount Height: 18.5' AFF

THE LIGHTING CALCULATIONS PROVIDED IN THIS REPORT APPROXIMATE THE LIGHT LEVELS EXPECTED WITHIN THE SPACE BASED ON AN OPEN ENVIRONMENT AND BASED ON INFORMATION PROVIDED TO MEGLIO AND ASSOCIATES. PLEASE VERIFY THE DATA LISTED TO ENSURE ACCURACY. ANY VARIANCE IN COLOR/COMPOSITION OF WALLS CCT, SPACING, AND ANY OTHER SUBSTANTIAL FACTORS OR CHANGES PROVIDED IN DRAWINGS WILL VOID THIS CALCULATION AND A NEW CALCULATION WILL NEED TO BE MADE. THIS LAYOUT IS MEANT TO SHOW FIXTURE QUANTITY AND PERFORMANCE.

PAGE 1 OF 1

PROJECT NAME: 240197 Spirt Hangars Overhaul v2.AGI
PROJECT LOCATION: Chesterfield, MO
DATE: 4/18/2024
COMPANY: MEGLIO & ASSOCIATES (J.F)



CMT PROJECT NO: 23006099.00
CAD DWG FILE: SITE DEVELOPMENT LIGHT PLAN.DWG

DESIGNED BY: DGS
DRAWN BY: TME
CHECKED BY: CMT
APPROVED BY: CMT
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SHEET TITLE:

LIGHTING PLAN

SHEET 7 OF 7

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Date: Apr 18, 2024

**LIGHTING PLAN
CUT SHEETS**

Meglio & Associates
14220 Ladue Road
Chesterfield MO 63017
Phone: (314) 524-4424
Fax:

Job Name
Spirit Hangar - Hangar
MEGSTL24-57485
Chesterfield MO

Bid Date
Apr 17, 2024

Submittal Date
Apr 17, 2024

Electrical Contractor:
Grasser Electric
60 Boone Hills Drive
St. Peters MO



Apr 18, 2024

RE: Spirt Hangar - Hangar
Chesterfield MO

Qty	Type	MFG	Part
0	SA	Spring Lighting Group	WFV-135-G1-4K
0	SB	Atlas Lighting Products	SLPM-30L-T5-4K
0	SB	Atlas Lighting Products	SSS-17.5-11-XX-1

**Job Name:**

Spirit Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:

WFV-135-G1-4K

Notes:

Type:**SA**

MEGSTL24-57485



GENERATION 1

PROJECT: _____
CATALOG #: _____
FIXTURE TYPE: _____
NOTES: _____

WFV Architectural Full Cutoff Wall Pack Gen 1



WFV Small

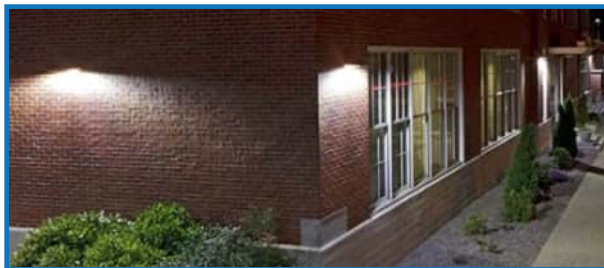


WFV Medium

The *WFV Architectural Full Cutoff Wall Pack Gen 1* is the perfect mix of architectural styling and energy savings. This wall pack has a modern, low-profile design that can be easily customized to fit every building's design aesthetic. Available in small and medium sizes, this wall pack delivers 3,600 to 13,400 lumens with a wide, uniform distribution.

**APPLICATIONS**

Security Lighting, Perimeter Lighting, Building Entrances, Walkways, etc.



Due to continuous product improvements, specification and/or equipment updates may change without notice.

SPECIFICATIONS

HOUSING

Sealed die-casting aluminum casing thermally conducts heat from LEDs for optimal performance and long life.

AMBIENT TEMPERATURE

Suitable for use in -40°C to 50°C (-40°F to 122°F)

MOUNTING

Wall Mount

EFFICACY

Up to 136 lumens per watt (see individual wattage data)

CCT AND CRI

4000K and 5000K CCT available; 70CRI

OPTICS

High performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized.

LIFESPAN

L70 > 100,000 hours

WARRANTY

10-year limited warranty. Comprehensive warranty terms can be located on www.slgus.com.

ELECTRICAL

Standard voltage 120-277V, 50/60Hz input. 0-10V dimming. Optional 347-480V for 45W to 100W.

FINISH

Polyester Powder Dark Bronze finish. Custom colors available. Multiple stage process to produce 3 mil thickness for superior corrosion resistance and maximum durability.

CERTIFICATIONS

UL 924. UL Listed for wet locations. Equivalent to IP66 rating. Design Lights Consortium® (DLC) 5.1 Standard qualified product. Not all versions of this product may be DLC qualified. Please visit www.slgus.com to confirm which versions are qualified.

**Job Name:**Spirt Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)**Catalog Number:**

WFV-135-G1-4K

Type:**SA**

Notes:

MEGSTL24-57485



GENERATION 1

PRODUCT ORDERING GUIDE **EXAMPLE: WFV 40 G1 4K**

Luminaire Type	Lumen Output	Generation	Voltage	CCT	Finish
WFV Architectural Full Cutoff Wall Pack	40 3,600 Lumens 60 5,800 Lumens 90 9,100 Lumens 135 13,400 Lumens	G1	BLANK 120-277V	4K 4000K 5K 5000K	BLANK Dark Bronze C Custom Color*

*Please call for custom colors

SENSORS OR WIRELESS CONTROL (Choose 1)

Individual Control	Advanced Wireless Control
BLANK No Motion Sensor MS-BRI619-L3 Economic Low Voltage Dimming Sensor MS-LPS-202-L3 PIR Motion Sensor with 360° L3 Lens, Max. 40' mounting height for WFV 90/135 only	BLANK No Wireless Control AVI-LVFA-1CH-12-24VDC Bluetooth Controller AVI-LVFA-1CH-12-24VDC-PIR Bluetooth Controller with Occupancy and Daylight Sensor

PRODUCT OPTIONS

Emergency Backup	Photocell	Surge Protector
BLANK No Emergency Backup EL UNV-5W Emergency Backup Kit, 5W, 25-52VDC, 100-277VAC, for WFV 40/60 only EL UNV-8W Emergency Backup Kit, 8W, for WFV 90/135 only	BLANK No Photocell PC UNV B3 Button Photocell	BLANK No Surge Protection SPD-277 5KA/10KV Surge Protection device, single phase protection with 120-277V input

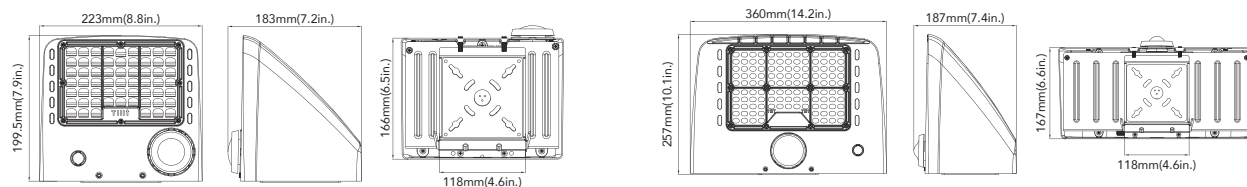
ACCESSORIES (Shipped separately. Requires some field assembly.)

Mounting
WFV-SMB Wall Pack Surface Mount Box (for use when no junction box is available)

Due to continuous product improvements, specification and/or equipment updates may change without notice.

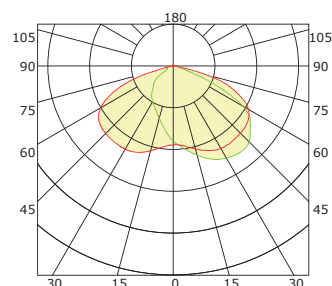


GENERATION 1

DIMENSIONS

Small 27W/45W

Medium 70W/100W

PHOTOMETRIC**ELECTRICAL LOAD**

Wattage	Current (A)			
	120V	208V	240V	277V
27W	0.23	0.13	0.11	0.10
45W	0.38	0.22	0.19	0.16
70W	0.58	0.34	0.29	0.25
100W	0.83	0.48	0.42	0.36

PERFORMANCE COMPARISON

Fixture	Wattage	4000K		5000K		Replaces	Recommended Mounting Height
		Lumens	Efficacy (LPW)	Lumens	Efficacy (LPW)		
WFV 40 G1	27W	3,600	133	3,645	135	150W	8-12 ft
WFV 60 G1	45W	5,800	129	5,850	130	250W	8-15 ft
WFV 90 G1	70W	9,100	130	9,240	132	320W	8-15 ft
WFV 135 G1	100W	13,400	134	13,600	136	400W	10-20 ft

EMERGENCY BACKUP PERFORMANCE

Fixture	EL UNV-5W Lumen Output	Fixture	EL UNV-8W Lumen Output
WFV 40 G1	600 Lm	WFV 90 G1	960 Lm
WFV 60 G1	600 Lm	WFV 135 G1	960 Lm

Please note: The EL UNV-5W backup is only available for the WFV 40 and WFV 60. The EL UNV-8W is only available for the WFV 90 and the WFV 135.

Due to continuous product improvements, specification and/or equipment updates may change without notice.

**Job Name:**

Spirit Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:

SLPM-30L-T5-4K

Type:**SB**

Notes:

MEGSTL24-57485



Eagle Series

2nd Generation LED Area Light

**PROJECT INFORMATION**

JOB NAME	
FIXTURE TYPE	Eagle Series
CATALOG NUMBER	SLPM
APPROVED BY	

SPECIFICATIONS**Construction:**

Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED life. The die cast aluminum housing utilizes external airflow fins allow for greater heat dissipation. The easy access driver compartment is a thermally independent compartment, separate from LED generated heat, for cooler operation and longer driver life.

Optics:

Atlas Eagle Series fixtures utilize precision engineered individual lenses for maximum light intensity. The lens is made of optical grade polycarbonate. Advanced one piece optic board engineered for maximum light intensity. Types II, III, V and Forward Throw distributions are available. Types II, III and Forward Throw optics are rotatable allowing for optimal placement of the fixtures on the perimeter of any layout.

Mounting:

The easy mount bracket makes installation to any style pole quick and easy. Tenon and other mounting accessories also available. For round poles 500-SLPMRPA is required.

Thermal Management:

Atlas Eagle Series fixtures are designed as a complete system to optimize LED life and light output. The thermal stacking heat removal technology extracts heat from within the housing moving it away from LEDs and components. The lower temperatures result in long LED life (200,000+ hrs¹) and component life and also allows for higher light output.

Listings:

Luminaire is certified to UL/cUL Standards for Wet Locations
IDA Listed (3000K or lower CCTs only)²
DesignLights Consortium qualified luminaire, eligible for rebates from DLC member utilities. *See chart on last page for qualifying products.*

AC Input: 120/208/240/277/347/480 V**Driver:**

Constant current, 120-277 VAC, 50-60 Hz
High Efficiency – min. 88%
O-State Power: 0 Watts
0-10 V Dimming

LEDs:

Available in 3000K, 4000K, 4500K and 5000K, CCT
Epoxy Guard™ protective conformal coated boards

Reduced Glare:

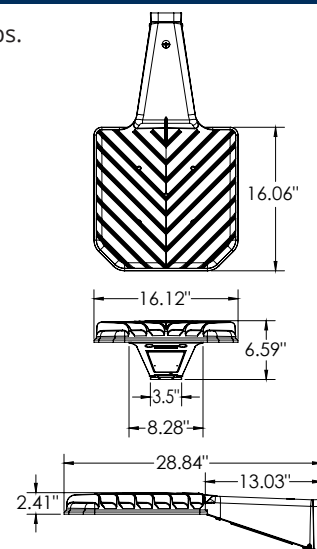
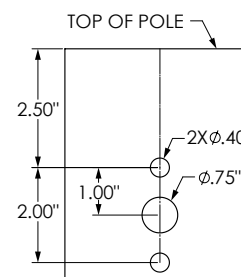
Positioning of the LED modules within the housing result in light directed to desired locations and reduces oensive light.

Testing:

Atlas LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 & LM-80.

Warranty: Five-year limited warranty**DIMENSIONS**

Weight: 21 lbs.
EPA: 0.61

**DRILL PATTERN**

For round poles **500-SLPMRPA** is required.

Rebates and Incentives are available in many areas.
Contact an Atlas Representative for more information.

*The majority of Atlas Lighting Products are assembled in USA facilities by an American Workforce utilizing both Domestic and Foreign components. Meets Buy American requirements within the ARRA.

¹LED Life Span Based Upon LM-80 Test Results

Atlas Lighting Products, Inc.

PO Box 2348 | Burlington, NC 27216
800-849-8485 | fax: 1-855-847-2794 | www.atlasled.com



Job Name:
Spirt Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:
SLPM-30L-T5-4K

Notes:

Type:

SB

MEGSTL24-57485



Eagle Series
2nd Generation LED Area Light



ORDERING INFORMATION

SLPM	S	12-24L	T2	4K	VOLTAGE	COLOR RENDERING	FIXTURE COLOR	OPTIONS
PRODUCT SERIES	SELECTABLE	LUMEN PACKAGE	DISTRIBUTION	COLOR TEMP.				
SLPM = Eagle Series Area Light	blank = Fixed	6L = 6,000 Lumens 9L = 9,000 Lumens 12L = 12,000 Lumens 18L = 18,000 Lumens 24L = 24,000 Lumens 30L = 30,000 Lumens 36L = 36,000 Lumens 43L = 43,000 Lumens 50L = 50,000 Lumens	T2 = Type 2 T3 = Type 3 T5 = Type 5 FT = Forward Throw T2L = Type 2 Rotated Left T3L = Type 3 Rotated Left FTL = Forward Throw Rotated Left T2R = Type 2 Rotated Right T3R = Type 3 Rotated Right FTR = Forward Throw Rotated Right	3K = 3000K 4K = 4000K 45K = 4500K 5K = 5000K	Blank = 120-277 4 = 347/480	Blank = 70CRI	Blank = Bronze BK = Black SL = Silver WT = White	PR = 7 Pin Photocell Receptacle SP = Surge Protection IC = Integrated Motion Control* M = Motion *Only available in 120-277V / Not available on Selectable Units
	S = Selectable	12-24L = 12,000-24,000 Lumens Selectable 25-50L = 25,000-50,000 Lumens Selectable						

PERFORMANCE DATA

LUMEN PACKAGE	DISTRIBUTION	CRI	3000K CCT*		4000K CCT		4500K CCT		5000K CCT		WATTAGE	BUG RATING	REPLACES UP TO
			DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)			
SELECTABLE													
12L-24L	T2	70	12,646	160	13,294	168	13,030	165	13,210	167	79	B3-U0-G3 B3-U0-G3 B3-U0-G4 B5-U0-G3	250W
	T3	70	12,618	160	13,634	173	13,257	168	13,305	168			
	FT	70	12,646	160	13,291	168	13,042	165	13,242	168			
	T5	70	12,481	158	13,117	166	12,872	163	13,069	165			
	T2	70	18,662	150	19,831	160	19,296	156	19,595	158	124	B3-U0-G3 B3-U0-G3 B3-U0-G4	400W
	T3	70	18,796	152	19,974	161	19,435	157	19,736	159			
	FT	70	18,707	151	19,879	160	19,343	156	19,642	158			
	T5	70	18,463	149	19,620	158	19,090	154	19,386	156	170	B3-U0-G3 B3-U0-G3 B3-U0-G4 B5-U0-G3	750W
	T2	70	23,684	139	25,168	148	24,489	144	25,220	148			
T3	70	23,854	140	25,349	149	24,665	145	25,359	149				
FT	70	23,741	140	25,229	148	24,548	144	24,928	147				
T5	70	23,431	138	24,899	146	24,227	143	25,422	150	158	B4-U0-G4 B4-U0-G5 B4-U0-G4	400W	
T2	70	24,586	156	26,536	168	26,054	165	26,526	168				
T3	70	24,584	156	26,535	168	26,052	165	26,524	168				
FT	70	23,982	152	25,884	164	25,414	161	25,874	164		245	B5-U0-G4 B4-U0-G4 B4-U0-G5	1000W
T5	70	24,504	155	26,448	167	25,967	164	26,438	167				
T2	70	35,832	146	38,675	158	37,972	155	38,659	158				
T3	70	35,830	146	38,672	158	37,969	155	38,656	158		332	B4-U0-G4 B4-U0-G5 B4-U0-G4	1000W
FT	70	34,952	143	37,725	154	37,039	151	37,709	154				
T5	70	35,713	146	38,546	157	37,846	154	38,531	157				
T2	70	43,678	132	48,164	145	47,289	142	48,145	145	332	B4-U0-G4 B4-U0-G5 B4-U0-G4	1000W	
T3	70	43,675	132	48,161	145	47,285	142	48,141	145				
FT	70	42,605	128	46,981	142	46,127	139	46,962	141				
T5	70	43,533	131	48,004	145	47,132	142	47,985	145				

*CCT 3000K or lower required for Dark Sky Compliance.

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Job Name:
Spirt Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:
SLPM-30L-T5-4K

Notes:

Type:

SB

MEGSTL24-57485



Eagle Series
2nd Generation LED Area Light



PERFORMANCE DATA

LUMEN PACKAGE	DISTRIBUTION	CRI	3000K CCT*		4000K CCT		4500K CCT		5000K CCT		WATTAGE	BUG RATING	REPLACES UP TO
			DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)			
FIXED													
6L	T2	70	5,908	153	6,067	158	6,093	159	6,152	160	39	B1-U0-G1	175W
	T3	70	5,824	151	5,981	155	6,006	155	6,065	157		B1-U0-G2	
	FT	70	5,712	148	5,866	152	5,891	153	5,948	154		B1-U0-G1	
9L	T5	70	5,848	152	6,005	156	6,031	156	6,090	158	58	B3-U0-G1	175W
	T2	70	9,155	159	9,401	163	9,442	164	9,533	166		B2-U0-G2	
	T3	70	9,082	158	9,326	162	9,366	163	9,457	164		B2-U0-G2	
12L	FT	70	8,866	154	9,104	158	9,144	159	9,232	160	75	B2-U0-G2	250W
	T5	70	9,086	158	9,330	162	9,370	163	9,461	164		B3-U0-G2	
	T2	70	10,962	148	11,513	154	11,513	154	11,602	156		B2-U0-G2	
18L	T3	70	11,452	154	12,028	161	12,028	161	12,121	163	122	B2-U0-G2	400W
	FT	70	11,335	153	11,905	159	11,905	159	12,601	169		B2-U0-G2	
	T5	70	11,571	156	12,153	162	12,153	162	12,247	164		B4-U0-G2	
24L	T2	70	17,840	155	19,506	160	18,509	152	18,509	152	171	B3-U0-G3	400W
	T3	70	17,810	155	19,489	160	18,493	152	18,493	152		B3-U0-G3	
	FT	70	17,340	151	19,182	157	18,201	149	18,201	149		B3-U0-G3	
30L	T5	70	17,820	155	19,650	161	18,645	153	18,645	154	177	B4-U0-G2	750W
	T2	70	23,640	148	25,447	149	24,146	141	24,146	141		B3-U0-G3	
	T3	70	23,620	148	25,425	149	24,125	141	24,125	141		B3-U0-G3	
36L	FT	70	23,030	144	25,025	146	23,745	139	23,745	139	219	B3-U0-G3	1000W
	T5	70	23,660	148	25,635	150	24,324	142	24,324	142		B5-U0-G3	
	T2	70	29,450	140	29,395	166	28,859	164	28,859	164		B3-U0-G3	
43L	T3	70	29,440	140	29,759	168	29,216	165	29,216	165	275	B3-U0-G4	1000W
	FT	70	28,750	137	29,393	166	28,857	163	28,857	163		B3-U0-G3	
	T5	70	29,470	141	29,920	169	29,374	166	29,374	166		B5-U0-G3	
50L	T2	70	35,260	133	35,542	162	34,796	159	34,796	159	333	B3-U0-G4	1000W
	T3	70	35,220	133	35,603	162	34,856	159	34,856	159		B3-U0-G4	
	FT	70	34,490	131	35,032	160	34,297	157	34,297	157		B4-U0-G4	
50L	T5	70	35,200	133	35,323	160	34,582	157	34,582	157	275	B5-U0-G4	1000W
	T2	70	42,200	121	41,750	152	41,258	150	41,258	150		B3-U0-G4	
	T3	70	41,940	120	42,070	153	41,575	151	41,575	151		B3-U0-G5	
50L	FT	70	41,300	118	41,617	151	41,127	150	41,127	150	333	B4-U0-G4	1000W
	T5	70	41,970	120	42,470	154	41,970	152	41,970	152		B5-U0-G4	
	T2	70	n/a	n/a	48,821	147	47,962	144	47,962	144		B4-U0-G4	
50L	T3	70	n/a	n/a	49,190	148	48,324	145	48,324	145	333	B4-U0-G5	1000W
	FT	70	n/a	n/a	47,891	144	47,048	142	47,048	142		B4-U0-G4	
	T5	70	n/a	n/a	49,524	149	48,652	146	48,652	146		B5-U0-G5	

*CCT 3000K or lower required for Dark Sky Compliance.



Job Name:
 Spirt Hangar - Hangar
 Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:
 SLPM-30L-T5-4K

Notes:

Type:

SB

MEGSTL24-57485



Eagle Series
 2nd Generation LED Area Light



DLC PRODUCT INFORMATION

LUMEN PACKAGE	DISTRIBUTION	3000K CCT		4000K CCT		4500K CCT		5000K CCT	
		DLC PRODUCT ID	CLASSIFICATION	DLC PRODUCT ID	CLASSIFICATION	DLC PRODUCT ID	CLASSIFICATION	DLC PRODUCT ID	CLASSIFICATION
SELECTABLE									
12L-24L	T2	S-SIUJ2V	Premium	S-ANR5CG	Premium	S-TXEH8M	Premium	S-K1B8GQ	Premium
	T3	S-LDMQOF	Premium	S-B0W67S	Premium	S-AKPSN0	Premium	S-4VGOBS	Premium
	FT	S-EYDGOK	Premium	S-P8E4F0	Premium	S-BKZ6UP	Premium	S-YAGX4R	Premium
	T5	S-1ASUWO	Premium	S-IDRBFO	Premium	S-F8TSZK	Premium	S-30QMWS	Premium
25L-50L	T2	S-6JF2IT	Premium	S-SPWKT7	Premium	S-S13N2M	Premium	S-20N6CP	Premium
	T3	S-GVQLHI	Premium	S-X0S3Z2	Premium	S-M63KYV	Premium	S-UNQF4G	Premium
	FT	S-YZ1OVT	Premium	S-VZCDSK	Premium	S-72IXW1	Premium	S-Z4O2W3	Premium
	T5	S-E5SFV7	Premium	S-KLMGHJ	Premium	S-ATWVMU	Premium	S-CLORB8	Premium

FIXED									
6L	T2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	T3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	FT	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	T5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9L	T2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	T3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	FT	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	T5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12L	T2	n/a	n/a	PLYOUGYE	Standard	PKL63EDA	Standard	PCOKLMB7	Standard
	T3	n/a	n/a	PZ7Q6JLH	Standard	PBXT267Y	Standard	PTQ6GW11	Standard
	FT	n/a	n/a	PYUPOC3O	Standard	PMLDWFT2	Standard	PYYKJCO	Standard
	T5	n/a	n/a	PC28LIX	Standard	PN452Q3V	Standard	PJIDRKK2	Standard
18L	T2	n/a	n/a	PMIWJ1SN	Premium	PYT1OIOB	Premium	P56IPYBL	Premium
	T3	n/a	n/a	PWY22MQG	Premium	PFSS1LYN	Premium	P8NHN8RJ	Premium
	FT	n/a	n/a	PJB7FYMM	Premium	PDV67ZF9	Premium	P50SC05I	Premium
	T5	n/a	n/a	PYM1GPE3	Premium	PAFTCGKI	Premium	P8T6GNYI	Premium
24L	T2	n/a	n/a	PADFFSIZ	Premium	PQHJ2HVU	Premium	PHXDPZ80	Premium
	T3	n/a	n/a	PTR75LPB	Premium	P3PQMW2M	Premium	P3L39231	Premium
	FT	n/a	n/a	PGEH2M5K	Premium	PXAK81Y2	Premium	PI32PEFC	Premium
	T5	n/a	n/a	PDUZQO2H	Premium	PJT626LP	Premium	PH27URM4	Premium
30L	T2	n/a	n/a	PTB9NPRB	Premium	PST7MVD0	Premium	P8QMXYBW	Premium
	T3	n/a	n/a	PLL1DPKB	Premium	PXES3U4Q	Premium	PM4251VZ	Premium
	FT	n/a	n/a	P8I11S1R	Premium	PSZUROKJ	Premium	P3AK7WLB	Premium
	T5	n/a	n/a	PP5HBMJD	Premium	PCMV87BH	Premium	PFP38Y2T	Premium
36L	T2	n/a	n/a	PNK748V8	Premium	PPFARQHV	Premium	PRZPTZ7E	Premium
	T3	n/a	n/a	PSITLJK6	Premium	PA9IEJIL	Premium	PVA9J3YF	Premium
	FT	n/a	n/a	PZTOHBUE	Premium	P9I5OG5M	Premium	PFL93QMN	Premium
	T5	n/a	n/a	PNL4Q554	Premium	P6DUTVBK	Premium	PDK53QL5	Premium
43L	T2	n/a	n/a	PZSVZ25R	Premium	P9W50WQ1	Premium	P7HALS4B	Premium
	T3	n/a	n/a	PJRBFMF7	Premium	P5FL77JB	Premium	PHQS4FSQ	Premium
	FT	n/a	n/a	PHBZ3WVN	Premium	PF35LJEC	Premium	PLR3HSZ6	Premium
	T5	n/a	n/a	P6DRCR1Q	Premium	P6Z1DW5Z	Premium	PVTXZ8S	Premium
50L	T2	n/a	n/a	PT0YD3MT	Premium	PRLZ20OT	Premium	PK5K4HAA	Premium
	T3	n/a	n/a	PB2YCEC6	Premium	PIWZAVP1	Premium	PDWACXL4	Premium
	FT	n/a	n/a	P5T6UPEY	Premium	PM31LXO4	Premium	PSQYJTOK	Premium
	T5	n/a	n/a	PHCA002U	Premium	PYZ945ER	Premium	PFHV4SGH	Premium

**Job Name:**

Spirit Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:
SSS-17.5-11-XX-1

Notes:

Type:**SB**

MEGSTL24-57485



Square Straight Steel Pole

SSS

PROJECT INFORMATION

JOB NAME	
FIXTURE TYPE	Square Straight Steel Pole
CATALOG NUMBER	
APPROVED BY	

SPECIFICATIONS**Pole Shaft:**

Straight poles are 4", 5", or 6" square. Pole shaft is electro-welded ASTM-A595 Grade A steel tubing with a minimum yield strength of 55,000 psi. On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length..

Hand-Hole:

Standard hand-hole location is 12" above pole base. Hand-hole size is 4" x 6" and reinforced.

Ground Lug:

Ground lug is standard.

Duplex Receptacle:

Weatherproof duplex receptacle is optional.

Anchor Bolts:

Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional. Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

Base:

ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

Ground Fault Circuit Interrupter:

Self-testing ground fault circuit interrupter is optional

Finishes:

Baked-on polyester-powder finishing process which electrostatically applies and fuses a polyester powder to the pole. Provides a smooth and uniform finish to withstand extreme weather changes without cracking or peeling, and features a five-year limited warranty.

Pole Vibration Damper:

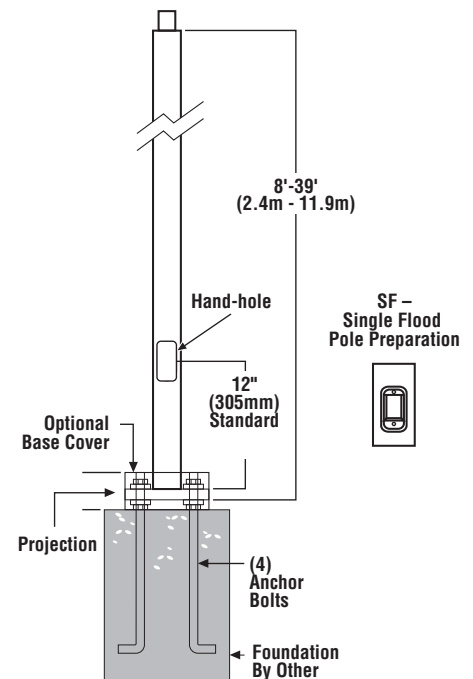
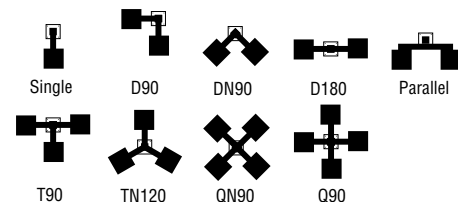
A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common. Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

Listings:

UL Listed
BAA/TAA Compliant

**DIMENSIONS**

N = 2.375" O.D. x 4.75" Tenon

**FIXTURE CONFIGURATIONS**

Atlas Lighting Products, Inc.

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Job Name:
Spirt Hangar - Hangar
Electrical Contractor: Grasser Electric (St. Peters)

Catalog Number:
SSS-17.5-11-XX-1

Notes:

Type:

SB

MEGSTL24-57485



Square Straight Steel Pole
SSS

ORDERING INFORMATION

S	S	S	20	4	11	T		BZ		
SHAPE	SHAFT	STRUCTURE	HEIGHT (FT)	DIAMETER/WIDTH (IN)	GAUGE	TENON DETAIL	BASE DETAIL	COLOR	DROP SHIP	DRILL PATTERN
S = Square	S = Straight	S = Steel	12 = 12 ft 14 = 14 ft 15 = 15 ft 16 = 16 ft 18 = 18 ft 20 = 20 ft 25 = 25 ft 30 = 30 ft 35 = 35 ft 39 = 39 ft 17.5	4 = 4 in 5 = 5 in 6 = 6 in	11 = 11 Ga 07 = 7 Ga	T = Welded Blank = None	Blank = Anchor	BZ = Bronze WH = White SL = Anodized Silver BK = Black	DSL = Drop Ship (Bolts ship separately) QSLB = Quick Ship* (Bolts ship separately) <i>*12, 15, 20, 25 ft mt. ht.; 4" dia.; 11 ga.; drilled 4@90° only</i>	1 = 1 2 = 2 @ 90 3 = 2 @ 180 4 = 3 @ 90 5 = 4 @ 90 6 = Drop Mount

ORDERING INFORMATION

MOUNTING HEIGHT LENGTH (FT)	CATALOG NUMBER	SHAFT			POLE BASE			MAXIMUM LOADING									
		BASE O.D. (IN)	WALL THK. (GA)	GROSS WEIGHT (LBS)	BOLT CIRCLE RANGE	PLATE WIDTH (IN)	PLATE THICK (IN)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH	
								EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)	EPA (FT²)
12	SSS12411BZ	4	11	90	8" - 11"	10.125	0.75	13.9	12.5	11.3	9.2	7.6	6.3	5.2	4.3	3.6	
14	SSS14411BZ	4	11	105	8" - 11"	10.125	0.75	10.7	9.5	8.5	6.8	5.4	4.4	3.5	2.7	2.1	
15	SSS15411BZ	4	11	113	8" - 11"	10.125	0.75	8.2	7.2	6.4	4.9	3.8	2.9	2.1	1.5	1.0	
16	SSS16411BZ	4	11	120	8" - 11"	10.125	0.75	8.2	7.2	6.4	4.9	3.8	2.9	2.1	1.5	1.0	
18	SSS18411BZ	4	11	135	8" - 11"	10.125	0.75	6.3	5.4	4.7	3.4	2.4	1.6	1	0.4	n/a	
20	SSS20411BZ	4	11	150	8" - 11"	10.125	0.75	4.6	3.9	3.2	2.1	1.2	0.6	n/a	n/a	n/a	
20	SSS20407BZ	4	7	200	8" - 11"	10.125	0.75	9.6	8.4	7.4	5.7	4.3	3.2	2.3	1.6	0.9	
20	SSS20511BZ	5	11	180	9" - 11"	10.125	0.75	8.5	7.3	6.3	4.6	3.2	2.1	1.2	0.5	n/a	
20	SSS20507BZ	5	7	250	9" - 11"	10.125	1.0	21.6	19.3	17.3	14	11.3	9.2	7.4	6	4.8	
25	SSS25411BZ	4	11	188	8" - 11"	10.125	0.75	4.6	3.7	3	1.7	0.7	n/a	n/a	n/a	n/a	
25	SSS25407BZ	4	7	250	8" - 11"	10.125	0.75	4.6	3.7	3	1.7	0.7	n/a	n/a	n/a	n/a	
25	SSS25511BZ	5	11	225	9" - 11"	10.125	0.75	6.8	5.7	4.6	3	1.6	0.6	n/a	n/a	n/a	
25	SSS25507BZ	5	7	313	9" - 11"	10.125	1.0	14.9	13.1	11.4	8.8	6.6	4.9	3.5	2.3	1.3	
30	SSS30407BZ	4	7	225	8" - 11"	10.125	0.75	2.2	1.4	0.8	n/a	n/a	n/a	n/a	n/a	n/a	
30	SSS30507BZ	5	7	375	9" - 11"	10.125	1.0	10.3	8.9	7.5	5.2	3.4	2	0.8	n/a	n/a	
30	SSS30607BZ	6	7	462	12"	12	1.125	10.4	8.8	7.3	4.8	2.9	1.3	n/a	n/a	n/a	
35	SSS35607BZ	6	7	539	12"	12	1.125	5.5	4.2	2.9	0.9	n/a	n/a	n/a	n/a	n/a	
39	SSS39607BZ	6	7	539	12"	12	1.125	2.3	1.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

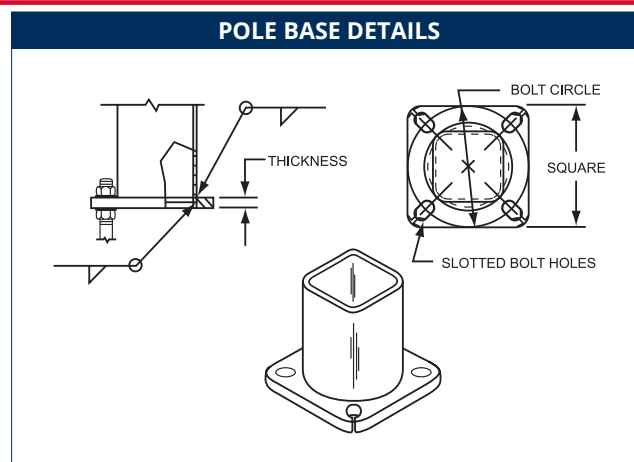
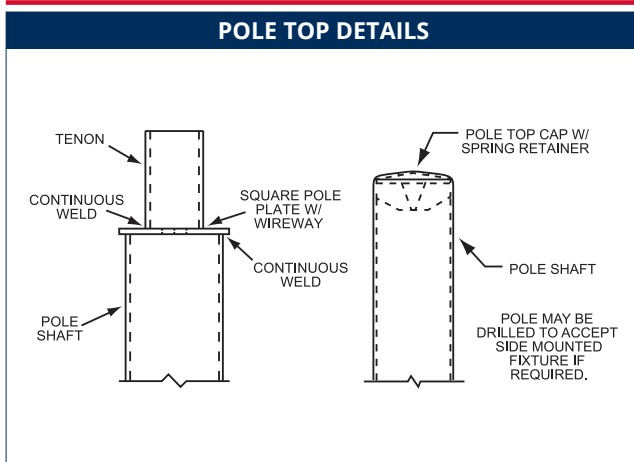
Actual performance data can vary depending on operating conditions. Specifications are subject to change without notice.

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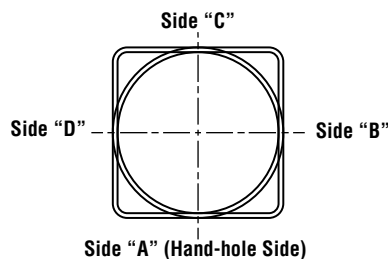


Square Straight Steel Pole
SSS



DRILLING LOCATIONS

Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180		X		X
D90	X			X
DN90 ¹				
T90	X	X		X
TN120 ²				
Q90	X	X	X	X
QN90 ³				
Single FBO	X			
Double FBO		X		X



NOTES:

- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

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