



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

Planning Commission Staff Report

Project Type: Amended Site Development Plan

Meeting Date: January 27, 2014

From: Purvi Patel

Project Planner

Location: 18500 Edison Avenue

Applicant: Farnsworth Group, on behalf of Monsanto Company

Description: Spirit of St. Louis Airpark, Monsanto Hangar: An Amended Site Development

Plan, Amended Lighting Plan, Amended Architectural Elevations and an Architect's Statement of Design for an 11 acre tract of land zoned "M-3" Planned Industrial District located on the south side of Edison Avenue, east of

Spirit of St. Louis Boulevard.

PROPOSAL SUMMARY

Farnsworth Group, on behalf of Monsanto Company, has submitted an Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and an Architect's Statement of Design for a proposed hangar building.

The request is for a 28,800 square foot aircraft storage and light maintenance hangar building located within the Spirit of St. Louis Airpark development. The proposed exterior building materials are primarily painted metal panel siding (more specifically pre-engineered steel) and expansive windows. Additionally, the proposal includes a flat painted metal panel roof.

HISTORY OF SUBJECT SITE

St. Louis County approved a zoning map amendment from an "NU" Non-Urban District to an "M-3" Planned Industrial District for Spirit of St. Louis Airport via Ordinance 2212 prior to the incorporation of the City of Chesterfield. This ordinance was subsequently amended nine times to allow for additional uses, amend setbacks, and amend the boundaries of the "M-3" Planned Industrial District. The current ordinance governing the site is City of Chesterfield Ordinance 1430.

There is an existing building with an attached hangar on the subject site which was constructed in 1998 and since that time, there have been no alterations to the subject site. There are no changes proposed to the existing buildings on site. The proposed hangar addition is a stand-alone building and will not be physically attached to the existing buildings.

Land Use and Zoning of Surrounding Properties

Direction	Land Use	Zoning
North	Airport / Hangar	"M-3" Planned Industrial District
South	Airport / Runway	"M-3" Planned Industrial District
East	Airport / Office / Hangar	"M-3" Planned Industrial District
West	Airport / Office / Hangar	"M-3" Planned Industrial District



STAFF ANALYSIS

Zoning

The subject site is currently zoned "M-3" Planned Industrial District under the terms and conditions of City of Chesterfield Ordinance Number 1430. The submittal was reviewed against the requirements of Ordinance Number 1430, the Lighting Ordinance, the Tree Preservation and Landscape Requirements, the Architectural Review Requirements and all other applicable sections of the City Code.

Traffic Access and Circulation

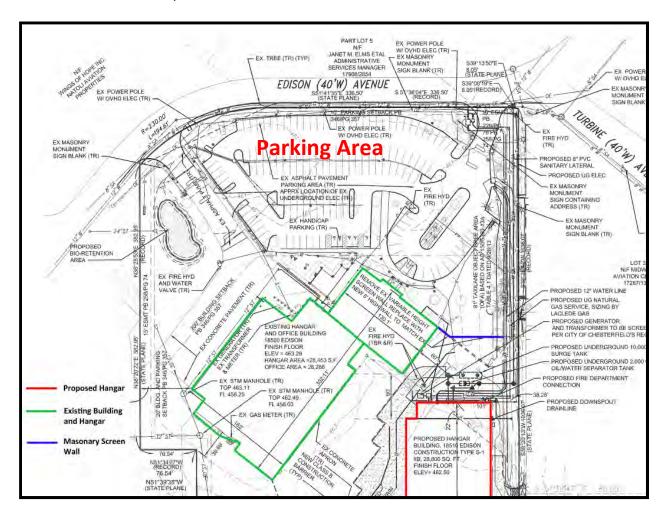
There are two existing entrances to the site off of Edison Avenue on the northern portion of the site and no changes are proposed to these entrances. A taxiway is proposed on the southern portion of the site with the circulation being governed by the Spirit of St. Louis Airport. Additionally, the access to the taxiway will be restricted to the public.

Similar to vehicular traffic, the pedestrian traffic near the proposed building will be strictly controlled and monitored due to the proximity of the building to the proposed taxiway.

Parking

There is an existing parking lot, which serves the existing building and hangar on site, located on the northern portion of the site, between Edison Avenue and the existing building. No alterations are proposed to this parking lot as there is adequate parking provided to accommodate the proposed addition. The required parking for the site, including the addition, is 112 spaces and 152 spaces are provided on site.

Furthermore, due to access restrictions the proposed hangar will not have direct access to the parking lot. Employees will have to access the proposed hangar through the existing building on the site. The image below depicts the location of the parking lot, existing building and hangar, the proposed hangar and the relocated masonry screen wall.



Landscaping

The applicant is proposing two (2) MSD Stormwater BMPs near the proposed taxiway and a bioretention area to the north of the site. The BMPs near the taxiway will consist of turf and the bioretention area will consist of rain-garden plantings as approved by MSD. Detailed specifications for the BMPs, including the rain-garden, are included in the Planning Commission packet.

The applicant has requested one variance from Section 12.C of the City of Chesterfield's Tree Preservation and Landscape Requirements. This section states that no parking space shall be located further than fifty (50) feet from a tree. However the existing parking lot, constructed in 1998, pre-dates the City's Tree Preservation and Landscape Requirements and as discussed above there are no changes

proposed here. Based on this and the location and extent of the current project, this variance was approved by the Planning and Development Services Director on January 21, 2014.

Lighting

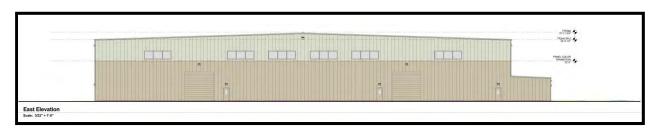
The Photometric Plan proposes two different light fixtures attached to the proposed building. The first fixture, noted as SA on the plan, is a fully-shielded metal halide flood light with a cut-off shield. The purpose of this fixture is to illuminate the tarmac and will be mounted at approximately thirty (30) feet from grade on the building. The applicant is also adding a cut-off shield in order ensure there is no light trespass. The second fixture, noted as SB on the plan, is a fully enclosed metal halide wall pack. This fixture will be mounted at approximately eleven (11) feet from grade on the building. Both fixtures adhere to the City of Chesterfield Lighting Ordinance and cut-sheets for both fixture types are included in the packet.

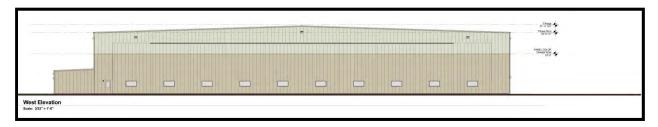
The lighting levels for this project are dictated by the Federal Aviation Administration (FAA) regulations to ensure safety and efficiency of operations. As such, the Lighting Ordinance includes a section pertaining to this which states "airport lighting which is required for the safe and efficient movement of aircraft during flight, take off, landing, loading, unloading, servicing areas and taxiing is exempt from the provisions of this Code".

Architectural Elevations

The building will be primarily comprised of painted metal siding—more specifically pre-engineered steel—which is typical for this building type. The design also includes expansive windows to allow natural light into the space. Additionally, large door openings are proposed in order to promote crossventilation. The proposed materials and colors are chosen to match the existing Monsanto Hangar on the site and other buildings within the airport complex.

Furthermore, the applicant is proposing a building of similar height and size as the adjacent structures. The tallest point on the proposed building is approximately 37 feet 11 inches. This height is required to ensure that the building can shelter a variety of aircrafts and perform the necessary maintenance to the aircrafts. Additionally, as seen on the East and West Elevations below, portion of the hangar is shortened to 12 feet and is set back from the rest of hangar to avoid potential gusts of air from the engines being directed towards people entering and exiting the hangar.





4 | P a g e

Planning Commission January 27, 2014

In addition, the proposal includes ground-mounted equipment that will be screened from the public view by a six (6) foot tall masonry wall. Rooftop equipment is not being proposed for this facility.

The project was reviewed by the Architectural Review Board (ARB) on December 12th, 2013. At that meeting, a motion to forward the project to the Planning Commission as presented was made by the ARB by a vote of 6-0.

DEPARTMENT INPUT

Staff has reviewed the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design and has found the proposal to be in compliance with the site specific ordinance and all City Code requirements. Staff recommends approval of the proposed project of Spirit of St. Louis Airpark, Monsanto Hangar.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

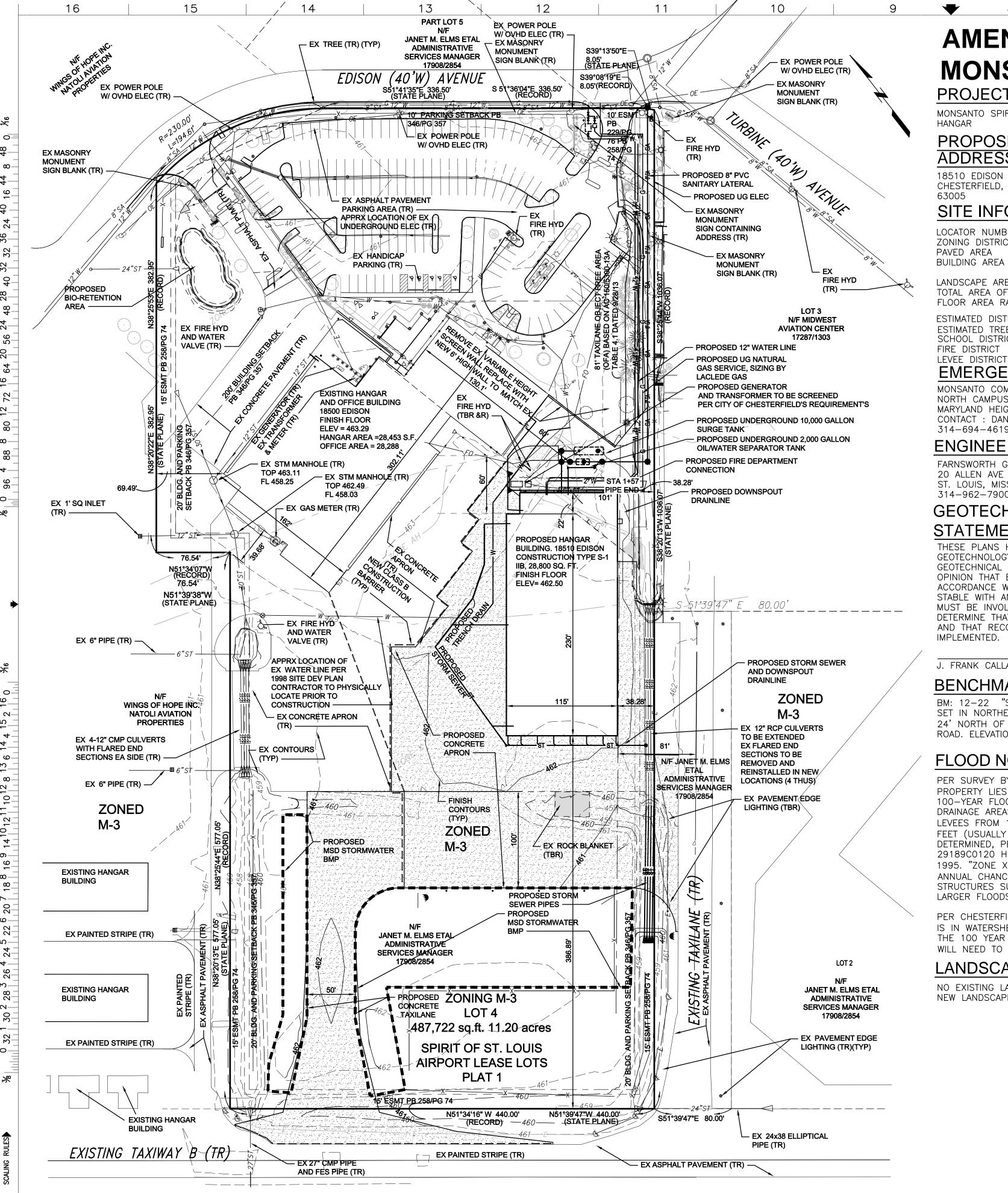
- 1) "I move to approve (or deny) the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Monsanto Hangar.
- 2) "I move to approve the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Monsanto Hangar, with the following conditions..." (Conditions may be added, eliminated, altered or modified)

CC: Aimee Nassif, Planning and Development Services Director

Attachments: Amended Site Development Plan

Amended Lighting Plan

Architect's Statement of Design Amended Architectural Elevations



AMENDED SITE DEVELOPMENT PLAN MONSANTO SPIRIT OF ST. LOUIS HANGAR

ADDRESS

17W310222

4.2 ACRES

ROCKWOOD

MONARCH

18500 EDISON AVENUE

CHESTERFIELD, MISSOURI

EXISTING HANGAR

M-3 PLANNED INDUSTRIAL DISTRICT

71,397 (GROUND FLOOR) SQ. FT.

OR 1.64 ACRES (14.6%)

MONARCH-CHESTERFIELD

240,535 SQ. FT. OR 5.52 ACRES (49.5%)

487,722 SQ. FT. OR 11.20 ACRES (100%)

175.790 SQ. FT. OR 4.03 ACRES (36%)

85,541 S.F. / 487,722 S.F. (17.5)

PROJECT NAME

MONSANTO SPIRIT OF ST. LOUIS

PROPOSED HANGAR **ADDRESS**

18510 EDISON AVENUE CHESTERFIELD, MISSOURI 63005

SITE INFORMATION

LOCATOR NUMBER ZONING DISTRICT PAVED AREA BUILDING AREA

LANDSCAPE AREA TOTAL AREA OF SITE FLOOR AREA RATIO

ESTIMATED DISTURBED AREA ESTIMATED TREE AREA TO BE CLEARED SCHOOL DISTRICT FIRE DISTRICT

EMERGENCY CONTACT

MONSANTO COMPANY NORTH CAMPUS, LAKESIDE 2, 2281 BALL DR. MARYLAND HEIGHTS, MISSOURI 63146 CONTACT : DAN KERKEMEYER 314-694-4619

ENGINEERING FIRM

FARNSWORTH GROUP, INC. C/O BOB POLK 20 ALLEN AVE SUITE 200 ST. LOUIS, MISSOURI 63119 314-962-7900

GEOTECHNICAL ENGINEER'S STATEMENT OF COMPLIANCE

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED FOR GEOTECHNOLOGY, INC. REGARDING COMPLIANCE WITH OUR GEOTECHNICAL RECOMMENDATIONS. IT IS OUR PROFESSIONAL OPINION THAT EARTH SLOPES AND GRADES CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS WILL BE STABLE WITH AN ADEQUATE FACTOR OF SAFETY. GEOTECHNOLOGY MUST BE INVOLVED DURING THE CONSTRUCTION PHASE TO DETERMINE THAT SUBSURFACE CONDITIONS ARE AS ANTICIPATED AND THAT RECOMMENDATIONS RELATIVE TO CONSTRUCTION ARE IMPLEMENTED.

J. FRANK CALLANAN, P.E. (GEOTECHNOLOGY, INC.)

BENCHMARK

BM: 12-22 "STANDARD TABLET" STAMPED U.S.G.S. GAGING STATION SET IN NORTHEAST WINGWALL OF BRIDGE OVER BONHOMME CREEK; 24' NORTH OF WILD HORSE CREEK ROAD AND 100' EAST OF LONG ROAD. ELEVATION = 470.31

FLOOD NOTE

PER SURVEY BY GRAPHIC PLOTTING AND SCALED MAP LOCATION THIS PROPERTY LIES WITHIN "ZONE X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.). "ZONE AH" FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY AREAS OF PONDING); BASE FLOOD ELEVATIONS DETERMINED, PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 29189C0120 H, PANEL NO. 120 OF 420, EFFECTIVE DATE AUGUST 2, 1995. "ZONE X" AREA IS PROTECTED FROM THE ONE PERCENT (1%) ANNUAL CHANCE (100 YEAR) FLOOD BY LEVEE, DIKE, OR OTHER STRUCTURES SUBJECT TO POSSIBLE FAILURE OR OVERTOPPING DURING LARGER FLOODS.

PER CHESTERFIELD VALLEY STORMWATER MASTER PLAN THIS DEVELOPMENT IS IN WATERSHED #7. THE NEAREST NODE IN THE MODEL IS NAP-1CC, THE 100 YEAR FLOOD ELEVATION = 461.07 NGVD, ALL NEW STRUCTURES WILL NEED TO BE 1' ABOVE THIS ELEVATION.

LANDSCAPING NOTE

NO EXISTING LANDSCAPING IS EFFECTED BY THIS PROJECT AND NO NEW LANDSCAPING IS PROPOSED FOR THIS PROJECT



LAND OWNER

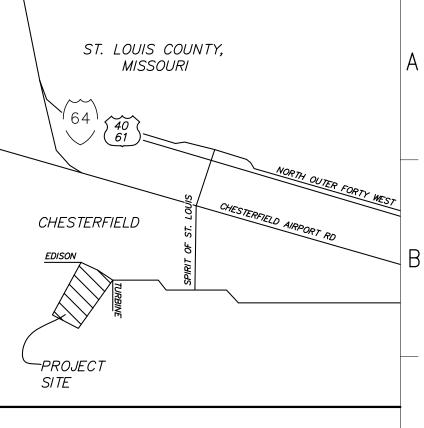
ST. LOUIS COUNTY LEASEE JANET M. ELMS ETAL ESTATE LESSOR ADMINISTRATIVE SERVICES MANAGER 18270 EDISON AVE CHESTERFIELD MISSOURI 63005

HANGAR OWNER **DEVELOPER**

MONSANTO COMPANY 800 NORTH LINDBERGH ST. LOUIS MISSOURI 63167

GRADING QUANTITIES NOTE

CUT = 980 C.Y. FILL = 3,350 C.Y.(THESE ARE RAW EARTHWORK NUMBERS AND DO NOT TAKE INTO ACCOUNT ANY SUBGRADE FACTORS) THERE WILL BE AN ADDITIONAL 10,000 C.Y. OF CUT REQUIRED TO GET TO SUBGRADE UNDER NEW PAVEMENT AND BUILDING



Location Plan

Scale: Not To Scale

Name of Owner In connection with a change of zoning for the following described property from (prior zoning) (present zoning)

A tract of land being all of Lot 4 of Spirit of St. Louis Airport Lease Lots Plat 1, recorded in Plat Book 258 page 74 of the St. Louis County Recorder's Office, and being more particularly described as follows: Beginning at the northeast corner of said Lot 4; thence South 38 degrees 25 minutes 44 seconds West, 1036.07 feet; thence North 51 degrees 34 minutes 16 seconds West, 440.00 feet; thence North 38 degrees 25 minutes 44 seconds East, 577.05 feet; thence North 51 degrees 34 minutes 07 seconds West, 76.54 feet; thence North 38 degrees 25 minutes 53 seconds East, 382.95 feet to a point on a curve being the Southern line of Edison Avenue; thence 194.61 feet along the Southern line of said Edison Avenue along said curve to the right, having a radius of 230 feet and a central angle of 48 degrees 28 minutes 43 seconds to the Southern line of said Edison Avenue;

SCALE: 1"=60'

	conds East, 336.50 feet; thence South 39 degrees 08 point of beginning and containing 487,722 square feet	or
, the owner((s) of the property shown on this plan for and in	
(Name of Owner(s)) consideration of being granted a permit to d	develop property under the provisions of Chapterof City of Chesterfield Ordinance #624, do hereby	y
(applicable subsection) (present zoning) agree and declare that said property from the thereon, unless said plan is amended by the of the City of Chesterfield Council. (Signature):	he date of recording this plan shall be developed only Planning Commission, or voided or vacated by order	as shown
State of)		
) SS.		
County of, on this, to	A.D., 20, before me personally appeared o me known, who, being by me sworn in, did say	
(Officer of Corporation)		
that he/she is the(Title) (Name of Corporation)	of the	_ a
corporate seal of said corporation, and that its Board of Directors, and the said	, and that the seal affixed to the foregoing instrum said instrument was signed on behalf of said corpora	
(Officer of Corporation) acknowledged said instrument to be the free	act and deed of said corporation.	

This Site (Development) Plan was approved by the City of Chesterfield Planning Commission and duly verified on the _____ day of ______

20____, by the Chairperson of said Commission, authorizing the recording of this Site Plan pursuant to Chesterfield Ordinance Number 200, as attested to by the Planning and Development Services Director and the City Clerk.

Planning and Development Services Director

City Clerk

PARKING CALCULATIONS

OFFICE SPACE 3-1/3 SPACES PER 1,000 S.F. HANGAR SPACE 1 SPACE PER 10,000 S.F. OFFICE 28,288 S.F. / 1,000 x 3.33 = 94.19 SPACES CITY HAS INDICATED THAT THEY WILL APPLY WAREHOUSE PARKING CRITERIA TO THE HANGARS, PARKING WILL BE REQUIRED AT 2 SPACES FOR EVERY 3 EMPLOYEES EXISTING PLUS PROPOSED HANGARS = 28 **EMPLOYEES**

 $28 \times .67 = 18.76$ TOTAL REQUIRED = 94.19 + 18.76 = 112.95

HANDICAP SPACES

TOTAL PROVIDED = 152 SPACES INCLUDING 5

ABBREVIATIONS LEGEND METROPOLITAN ST. LOUIS SOUTH SEWER DISTRICT EAST EXISTING WEST or WIDE (TR) TO REMAIN (TYP) DEED BOOK TYPICAL SANITARY PG PAGE STORM ESMT EASEMENT

S.F.

UNDERGROUND

REV	_	JPB	RESPOND TO 12-30-13 COMMENT LETTER FROM CITY PLANNER	REP
3	_	1-6-14		1-6-14
REV		JPB	HANGAR BUILDING AREA INCREASED FOR 22' WIDE LEAN TO	REP
2	_	12-16-13	MONEAGED FOR 22 WIDE EEAN FO	12-16-13
REV		JPB	RESPOND TO 11-3-13 COMMENT LETTER FROM CITY PLANNER	REP
1		12-11-13	LETTER TROM OIT TEARINER	12-11-13

THIS DRAWING IS THE PRIVATE PROPERTY OF MONSANTO COMPANY AND MUST BE RETURNED UPON MONSANTO 💆 REQUEST. THIS DRAWING MUST NOT BE COPIED OR REPRODUCED, IN WHOLE OR PART, WITHOUT THE EXPRESSED WRITTEN CONSENT OF MONSANTO COMPANY. GLOBAL ENGINEERING DEPARTMENT

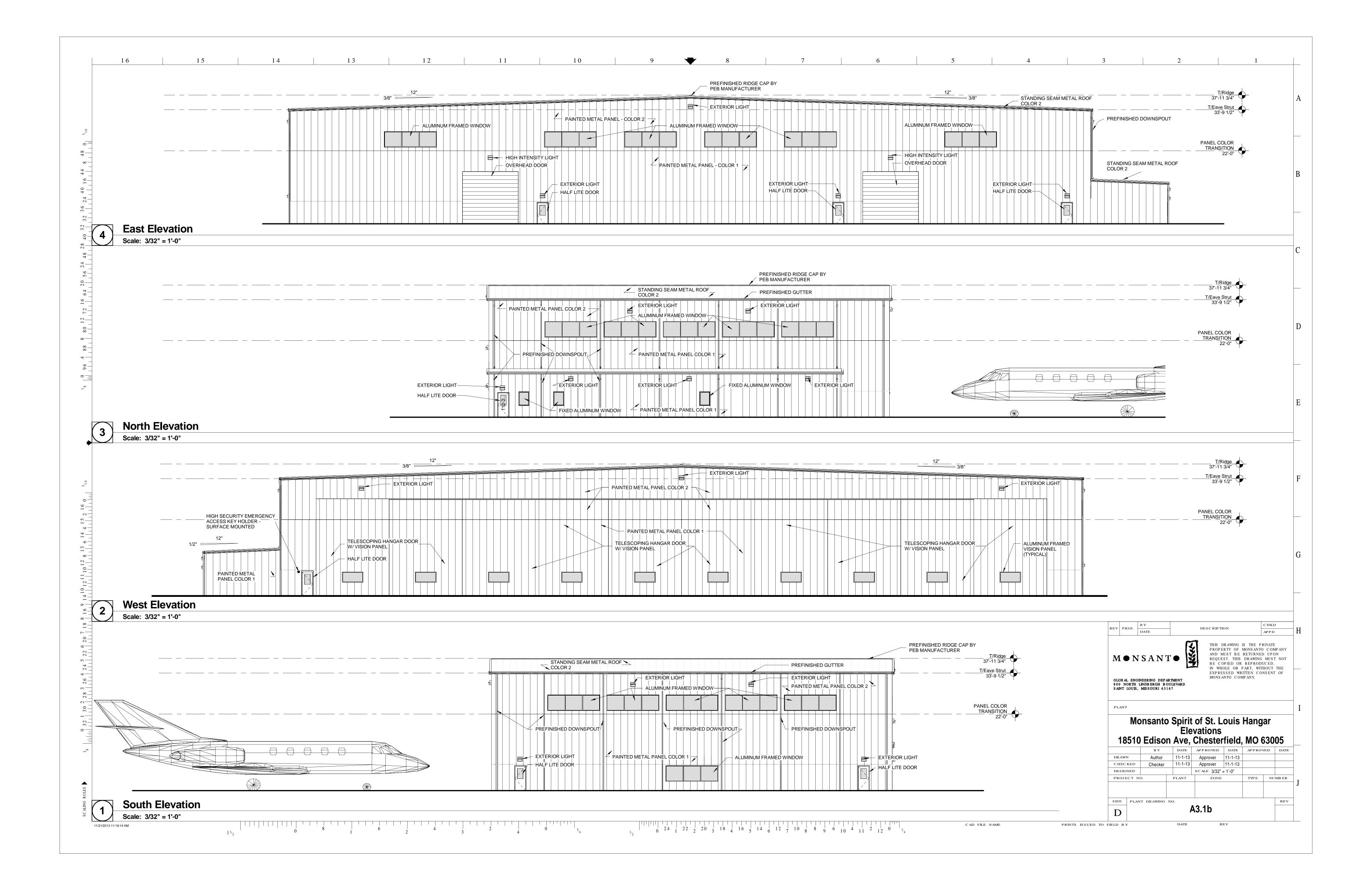
800 NORTH LINDBERGH BOULEVARD SAINT LOUIS, MISSOURI 63167

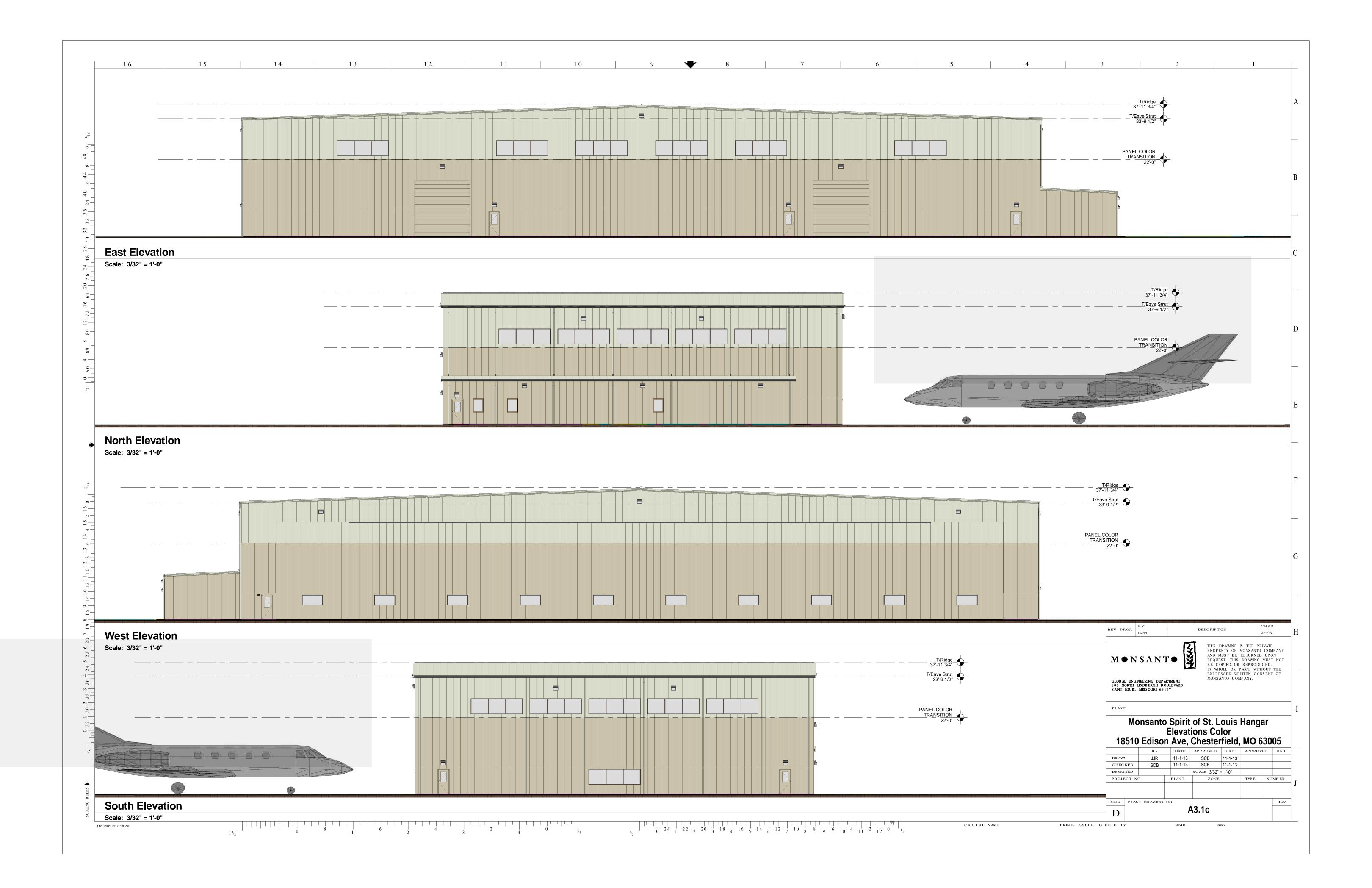
Monsanto Spirit of St. Louis Hangar Amended Site Development Plan 18510 Edison Ave, Chesterfield, Mo 63005

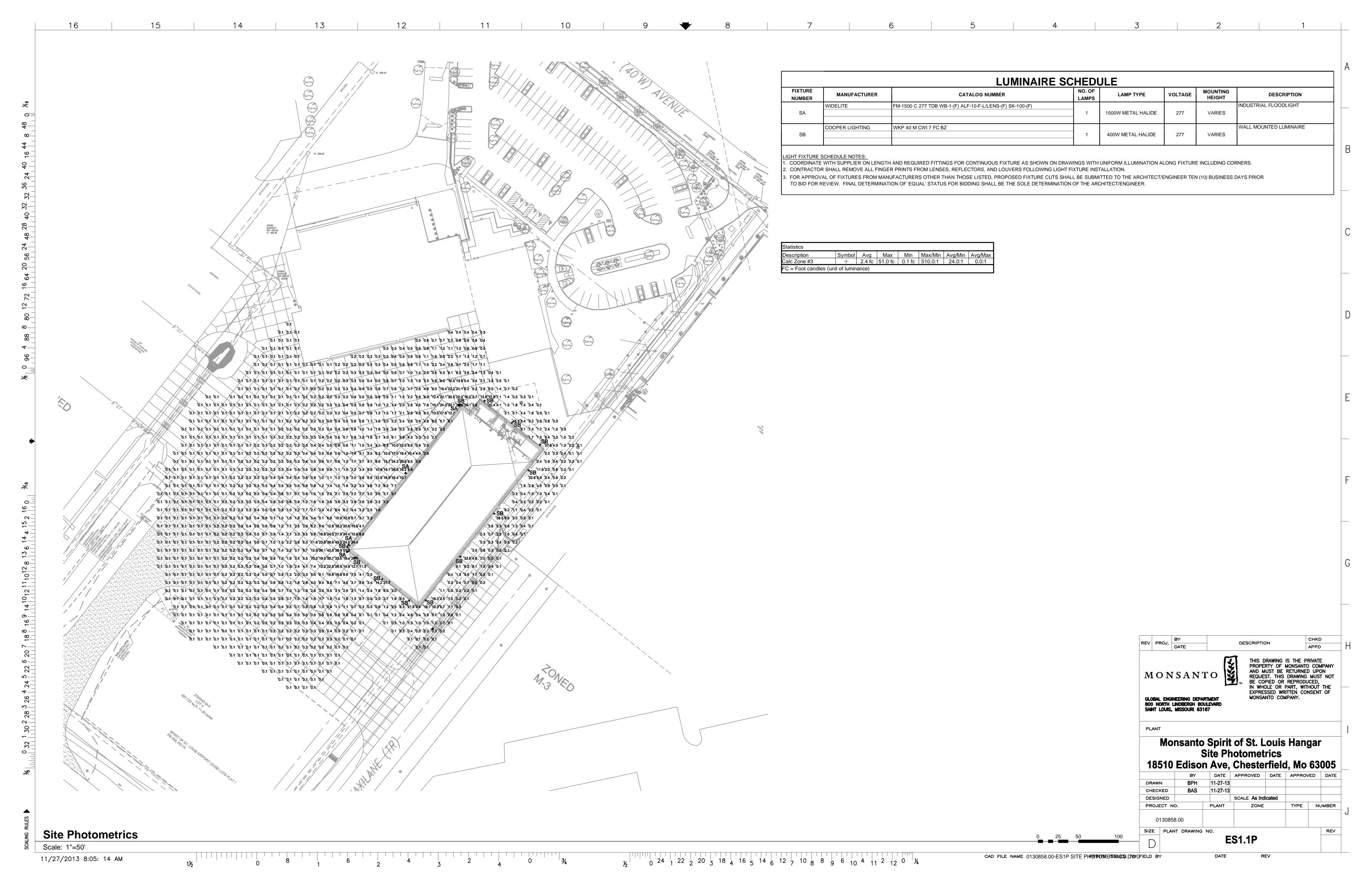
APPROVED DATE DRAWN REP CHECKED 10-28-13 DESIGNED SCALE As Indicated PROJECT NO. TYPE NUMBER SIZE | PLANT DRAWING NO. **ASDP-1** REV

CAD FILE NAME 0130858-SITE DISTANCE STUDY CONC 10.DWG PRINTS ISSUED TO FIELD BY

SQUARE FEET









20 Allen Ave, Ste 200 St. Louis, MO 63119 p 314.962.7900 f 314.962.1253

www.f-w.com | www.greennavigation.com

October 31, 2013

City of Chesterfield Architectural Review Board 690 Chesterfield Parkway West Chesterfield. MO 63017-0760

Re: Architect's Statement of Design – Monsanto Spirit of St. Louis Hangar

Dear Architectural Review Board.

This document shall serve as the Architect's Statement of Design, which will identify how each section of the City of Chesterfield's design standards have been addressed for the above referenced project.

1. General Requirements for Site Design

a) Site Relationships

The proposed building will match the architectural components of other buildings adjacent to the proposed site. The building is a stand-alone structure that will not be physically attached to any existing structures. The building is intended to fit into the existing airport context, and will be part of an overall campus of airport structures. It does not sit directly adjacent to the vehicular street, but sits directly adjacent to the airport runways. For the safety of the public and the airport, the building will be off-limits to the public and pedestrian traffic. The public side of the airport and the off-limits side is separated by a fence. Since the building and grounds are not accessible to the public, the following site elements have not been provided: plazas, courtyards, assembly areas, scenic views, fountains, or artwork.

The Federal Aviation Administration (FAA) dictates the orientation of the building. The building is required to be positioned in such a way to not impede visual inspection of the runways from the air traffic control tower. As a result, almost all of the passive building orientation could not be considered. The building does contain a significant amount of glazing to provide natural daylighting. The building doors have large door openings on the long axis to promote cross ventilation.

b) Circulation System and Access

Circulation System is governed by the Spirit of Saint Louis Airport. Pedestrian traffic shall remain within close proximity of the building and the ramp. Pedestrian traffic is strictly controlled and monitored on taxiways. Pedestrian traffic is deemed normal on nearby Edison Ave. Most pedestrian traffic will be from the neighboring building and it will fulfill two roles: maintenance of aircraft and boarding / deplaning aircraft. For the safety of the public and the airport, the building will be off-limits to the public and pedestrian traffic.

All utilities for the site are below grade.

Service and loading areas are not within main circulation. Access for trash shall utilize the existing system. Trash generated by the hangar shall be staged and transported as necessary to the existing building.

Bicycle Traffic is not allowed on working surfaces of the airport. Cyclists shall be served by the existing building.

Vehicular traffic is restricted to aircraft support services. All public vehicular parking will be served by existing areas. Landscaping is limited to grassy areas in locations not occupied by taxiway, runways, and aircraft staging zones.

Public transportation will utilize existing amenities in the surrounding area.

c) Topography

All grading and surface improvements are dictated by water shedding capability of the hangar and the surrounding area. Grading is also designed for aircraft maneuverability. All surrounding areas of the hangar are improved surfaces. Therefore, a trench drain shall be installed between the existing hangar and the new hangar to drain surface runoff from precipitation. The site is nearly flat, minor cut and fill will be used to gain additional elevation under the building footprint to allow proper drainage. The cut and fill shall present a smooth appearance and shall be rounded to the extent as to appear flat.

d) Retaining Walls

There are no new retaining walls in the project.

2. General Requirements for Building Design

a) Scale

Hangar design is dictated by the sheltering and maintenance of the aircraft. The proposed hangar is designed to be visually neutral for pilots on approach. The hangar pattern shall match existing buildings and give a cohesive sightline. Hangars dominate the area and they use light color schemes. The proposed hangar shall visually meld in the existing fabric. The ancillary addition portion of the hangar design shall be designed to the human scale and by scale provides a strong visual cue for entry. The ancillary addition shall also be setback from the main West elevation of the building to avoid potential gusts of air from engines affecting people exiting the hangar.

b) Design

The design shall incorporate colors from existing cues and are intended to match the existing Monsanto building colors.

The proposed hangar shall not incorporate any overt signage of ownership, nor shall it impinge on the existing area with a stylized exterior of corporate branding.

The proposed hangar is designed in accordance with the International Energy Conservation Code of 2009 with an insulated envelope. The design also incorporates extensive windows. This character encourages energy efficiency with natural daylight. The building has large door openings on the long axis to promote cross-ventilation.

The entry is noted by the ancillary addition and its recessed position. Overt protection from elements is not necessary, but geometrically the position offers significant protection from the environment by being a recessed alcove on the Northwest side. Prevailing winds are from the South.

Painting and trim of temporary barriers shall be in accordance with the guidelines as set forth by the Spirit of Saint Louis Airport.

An emergency generator will be present on-site. This will be screened with natural vegetation. All other exterior equipment will be screened naturally.

c) Materials and Colors

The materials and colors of the building will match the existing Monsanto hangar and other buildings within the airport context. Finish is a durable and high-performance paint. Color shall be coordinated with the existing hangar and shall blend in with other hangars on-site.

The design incorporates a pre-engineered steel building, which is typical solution for this building type. It is a highly durable hangar material and structure.

Aircraft needs shall dictate the paving surface construction. Pedestrian traffic areas in public zones already in place are designated by different pavements to clearly delineate pedestrian areas.

Landscaping is limited to grassy areas in locations not occupied by taxiway, runways, and aircraft staging zones. The exterior equipment and emergency generator shall be screened with natural landscaping.

Additional fencing is not proposed.

d) Signage

Signage is minimized to areas where it is required by local code. As mentioned above, the building shall not utilize any corporate branding or signage.

e) Lighting

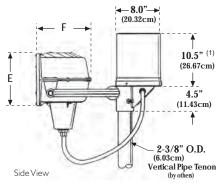
Lighting is used for safety and security. The exterior lighting will adhere to the local code as governed within the limits of the City of Chesterfield. Exterior lighting will be utilized and selected in such a way to eliminate or reduce light pollution.

End of Statement

Industrial Floodlight - 250-1500 watt HID



Overall Dimensions For Reference Only A B C C C Front View



 With certain dimming options, height of ballast container increases to 14.5" (36.83 cm).

Weight: 66 lbs (29.9 kg)

400 Watt (max) and 1000W PS unit - 23" housing

Note: 23" housing is standard for F se rie s 1000W PS units with BI37 lamp for be st lamp stability.

26" housing is required on MF series 1000W PS units with HAZ option (hazardous location listed).

1000-1500 Watt - 26" housing

Exception: Standard F series 1000W PS unit with BI37 lamp requires 23" housing for socket stability.

See note above.

 A
 B
 C
 D
 E
 F

 27.5"
 26.0"
 9.3"
 18.0"
 13.3"
 11.5"

 (69.85c m)
 (66.04c m)
 (23.50c m)
 (45.72c m)
 (33.66c m)
 (29.21c m)

EPA data shown on page 3.

Specifications



Housing

Die-cast aluminum housing shall be of marine-grade alloy with integrally cast, heat dissipating fins and a built-in aiming device. Dust-Tite housing shall be totally sealed from particulate entry. Standard unit constructed to IP65.

MF Series, with Marine Listing, constructed to IP66.

Optical Assembly

High purity, 94% minimum reflectivity anodized aluminum reflectors, assembled without machine forming to assure maximum efficiency.

Lamp Access

A gasketed and removable socket assembly provides lamp access from below. Allows re-lamping without re-aiming. High temperature gasket provides positive, weatherproof seal.

Lens

Lens shall be 7/32" clear tempered glass to withstand thermal and physical shock, held in place by an aluminum (extruded: 400W, die-cast: 1000/1500W) lens frame and sealed to housing flange by one extruded, high temperature gasket and stainless steel screws to provide a sealed optical assembly.

Socke

Pre-wired grip-type mogul base socket. Glass end of the lamp is held in precise photometric alignment and protected from breakage by a Stabilux socket.

Ballast

SilentGuard high power factor ballast with reliable starting down to -29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, and -40°C (-40°F) for High Pressure Sodium. Ballast has Class H, 180°C (356°F) rated insulation. Crest factor does not exceed 1.8. Core and coil are encapsulated in a polyester resin compound (standard SilentGuard feature) with the capacitor located outside the encapsulation for ease of maintenance. Ballast components are enclosed in a drawn aluminum container. The fixture and ballast are arranged as separate but integral components.

Mounting

Standard cast aluminum ballast base provides integral mastfitter, suitable for mounting to a 2-3/8" O.D. vertical tenon. Alternate mounting accessories available.

Finish

Standard finish shall be textured gray UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured. All components shall be thoroughly cleaned by a 5 stage pre-treatment process including iron phosphate bath and non-chromic acid etching stages, ensuring optimum performance characteristics. Other colors may be specified.

Listings

Standard unit is ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations. Available ETL/cETL listed to the UL 1598A standard - Marine Listing option (MF Series). Available ETL/cETL listed to the UL 844 standard - Hazardous Location Listing (HAZ option for MF Series).

The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.

Warranty / Terms and Conditions

7 Year Limited Warranty

The current Philips Wide-Lite's Warranty may be found at www.wide-lite.com (keyword: warranty) as well as current Standard Terms and Conditions of Sale (keyword: terms).

All sales of items in this catalogue shall be subject to the Philips Wide-Lite Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Wide-Lite Warranty and Standard Terms, please contact the factory for same prior to ordering.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at www.lamprecycle.org.



Industrial Floodlight - 250-1500 watt HID

Type: SA Job: Monsanto Hangar Page 2 of 6



Series/Source-Wattage	Optics (Reflector/Distribution) 5	Voltage
☐ M Marine Type UL1598A Flood light ¹	□ A Specular Reflector	□ 120
Me ta l Ha lide ² ☐ FM-1000	Wide	□ 208
✓ FM-1500	□ B Specular Reflector	□ 240
Pulse Start Me tal Halide 3 FP-250	Me d ium	☑ 277
□ FP-350	C Diffuse d Reflector	☐ 480
FP-1000 Sandard unit with BB7 lamp use s 23" housing. HAZunit re quire s 26" housing.	Very Wide	□ QV ⁶
High Pressure Sodium	D Diffuse d Re fle c to r Wide	
☐ FS-400 ☐ FS-1000 ⁴	1120	

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On	tions (F	actory Inst	ralled)	Fin	ish	
_ P		4000.7 11.00	anca)			
	\mathbf{BL}^7	Bi-Le ve l			TGR	Te xture d Gra v
	ΙQ	Hot/Cold	l Quartz Restrike		TBK	Te xture d
	IQ40		l Quartz Restrike Weatherstarts to 0°F)		TDB	Black Textured
	FH ⁸	Single Fus	se (120/277V)			Dark Bronze
	F F2 ⁸	Double F	use (208/240/480V)		TSA	Te xture d Sa tin
	\mathbf{IB}_{0}	Le ss Balla ballast)	st (remote mount		TWHT	
	CO ¹⁰	Cutoffor	otic s	П	TGN	White Texture d
	\mathbf{HAZ}^{11}	Hazardo	us Lo c a tio n liste d		1011	Green
	50HZ	50 Hz Bal (consult fac	llast operation ctory)		M(F)	Marine Grade finish;
	TG	Te flon bog lass lens			a polyure ti especially	poxy primer and hane top coat suited for marine nts and coastal
	PB(X)		ord le ng th in fe e t:		applic atio	
		3 , 6 o	r10		Example:	MWHT=
					-	Marine Grade
	EPXY-CT	D- WHI.	White Epoxy			White finish
_			coate d		Consult fa availability	ctory for color v.
	БРХҮ-СТ	D-GR	Gray Epoxy coated			
				1		

_			
Ac	cessories (Ordered Separately)	
	F-F1-K/TF(F)	Single Fuse Kit (120/277V)	☐ SMB-400 9 Shock
	F-F2-KTF(F)	Double Fuse Kit (208/240/480V)	Mo unting Bra c ke t
	MF-1-(F) ⁹	Ma stfitte r	(23" ho using)
	TH-1-(F) 9	Lowering Adapter (Tenon Hanger)	SMB-1000 9 Shock Mounting Bracket (26" housing)
	HV-1-(F) ⁹	Trunio n Ba se	☐ FB-1 Fat Base Mount
2	WB-1-(F)	Wall Bracket	PCM-1 Photocell
	WB-5-(F)	Wiring Box (used with WB-1 & surface mounted conduit feed)	Receptacle Mounting Bracket
	PX-1-(F)	Cross-Arm Bracket	SK-40-(F) Cuto ff Shie ld
	AL4-F	Auxilia ry Po lyme r Le ns (23" ho using)	(23" ho using)
	AL 10-F	Auxilia ry Po lyme r Le ns (26" ho using)	SK-100-(F) Cuto ff Shie ld (26" housing)
	AIF4-F1/11	NS-(F) Auxiliary Lens Frame (23'	" ho using)
2	AIF10-FI/	ENS-(F) Auxiliary Lens Frame (26'	" ho using)
	AIF10-FI/	GIASS-IV8-(F) 26" Le ns Fra me	e with louver;
	IENS-AIFF	4-GIASS-(color) Colored Lens ((23" housing); (color) = $le ns color$
	IENS-AIFF	10-GIASS-(color) Colored Lens ((26" housing); (color) = $le ns color$
	PM-1	Wood Pole Mounting Kit (with one U	Jam)
	PM-2	Wood Pole Mounting Kit (with two U	I-a ms)
	PM-3	Wood Pole Mounting Kit (with three	U-a ms) (F) = specify finish
	PM-4	Wood Pole Mounting Kit (with four U	J-a ms)

- 1) "M" pre fix a long with series de signates UL 1598A Marine Listed option which includes a dditional Marine Gradeg asketing. Unit is specially constructed with low copper content alloy (less than 0.4%) for comosion control in harsh coastal and industrial environments or where ver marine type units are required. Meets U.S. Coast Guard specifications for marine type applications.
- 2) Wattages listed assume the use of clear lamps. Coated lamps also available for 1000W metal halide.
- 3) For a cceptable performance, note position orientation specific nature of Pulse Start Lamps. Operation of Pulse Start lamps in other than recommended burning positions
- may result in signific antly reduced performance. Consult factory to determine if a suitable Pulse Start Lamp is available for the intended application.
- In 1000W HPS units, the standard SO cord from ballast to optic head is replaced with flex conduit. Less ballast options and accessories are not available.
- 5) A and Breflectors are of Specular Miro 4 aluminum; C and Dreflectors are of Hammertone Miro 9 aluminum. Curves reflect coated lamp performance.
- 6) Allows field selection of 120/208/240/277V. (No 480V). Certain options may require voltage selection as well.
- 7) Suitable for HPS in any aiming position.
- 8) Fusing not available on MF series (marine listed) units.
 9) Remote mount ballasts options and accessories are not
- Remote mount ballasts options and accessories are not available with 1000W HPS or on MF series (marine listed) units.
- 10) Available with Band Dreflectors only.
- $11)\ HAZ$ listing a vallable on MF units only, 400W and 1000W only.



Industrial Floodlight - 250-1500 watt HID

Type: SA Job: Monsanto Hangar Page 3 of 6

Beam Spread Data

ta				Max			l X Vertical
Refle	c tor Type	Source	Wattage	Candle Power	Hx V NEMA	10% Field Angle	50% Beam Angle
A	Specular Wide	MHcoated	1000W	43,000	7 x 7	147° x 140°	90° x 49°
В	Specular Medium	MHclear	1000W	249,000	3 x 4	38° x 62°	14° x 34°
			1500W	351,000	3 x 4	38° x 62°	14° x 34°
		MHcoated	1000W	79,000	6×7	$127^{\circ} \ge 133^{\circ}$	36° x 44°
		PSclear	250W	52,000	3 x 4	38° x 62°	14° x 34°
			400W	90,000	3×4	38° x 62°	14° x 34°
			1000W	260,000	3 x 4	38° x 62°	14° x 34°
		HPSclear	400W	117,000	3 x 4	39° x 53°	15° x 26°
			1000W	236,000	5 x 5	88° x 87°	13° x 41°
C	Diffuse d Very Wide	MHclear	1000W	58,000	7 x 6	137° x 129°	83° x 37°
			1500W	82,000	7 x 6	137° x 129°	83° x 37°
		MHcoated	1000W	37,000	7 x 7	150° x 144°	93° x 55°
		PSclear	250W	52,000	7 x 6	137° x 129°	83° x 37°
			400W	90,000	7 x 6	137° x 129°	$83^{\circ} \times 37^{\circ}$
			1000W	260,000	7 x 6	137° x 129°	83° x 37°
		HPS clear	400W	26,000	7 x 6	$137^{\circ} \ge 125^{\circ}$	105° x 35°
			1000W	50,000	7×7	138° x 135°	85° x 58°
D	Diffuse d Wide	MHclear	1000W	133,000	5 x 5	93° x 76°	28° x 36°
			1500W	187,000	5×5	$93^{\circ} \ge 76^{\circ}$	$28^{\circ} \times 36^{\circ}$
		MHcoated	1000W	37,000	7 x 7	150° x 144°	93° x 55°
		PSclear	250W	52,000	5 x 5	93° x 76°	28° x 36°
			400W	90,000	5×5	$93^{\circ} \times 76^{\circ}$	28° x 36°
			1000W	260,000	5 x 5	93° x 76°	28° x 36°
		HPSclear	400W	26,000	7 x 6	137° x 125°	105° x 35°
			1000W	50,000	7×7	138° x 135°	85° x 58°

Distribution Guide & Ballast Data 1,4,5

Source Type ⁽¹⁾	Catalog Number	Reflector Type	Iamp Envelope	.ies File Name	ANSI Code	Iine Cument 120 / 208 / 240 / 277 / 480	Line Watts
	FM-1000	В	BI56	fm100b ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
MH	FM-1000	C	BI56	fm 100c ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
Clear	FM-1000	D	BI56	fm 100d ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
Lamps	FM-1500	В	BI56	fm 150b ss.ie s	M48	14.0 / 8.0 / 7.1 / 6.1 / 3.5	1625
•	FM-1500	С	BI56	fm 150c ss.ie s	M48	14.0 / 8.0 / 7.1 / 6.1 / 3.5	1625
	FM-1500	D	BI56	fm 150d ss.ie s	M48	14.0 / 8.0 / 7.1 / 6.1 / 3.5	1625
МН	FM-1000	A	BI56	fmc 10a ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
Coated	FM-1000	В	BI56	fmc 10b ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
Lamps	FM-1000	C	BI56	fmc 10c ss.ie s	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
r	FM-1000	D	BI56	fm c 10d ss.ie s	M47 / H36	$9.2 \ / \ 5.6 \ / \ 4.7 \ / \ 4.1 \ / \ 2.4$	1080
	FP-400	В	BI37	fp 40b ss.ie s	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
PS	FP-400	C	BI37	fp 40c ss.ie s	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
Clear	FP-400	D	BI37	fp 40d ss.ie s	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
Lamps	FP-1000	В	BI37	fp 100b ss.ie s	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
	FP-1000	C	BI37	fp 100c ss.ie s	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
	FP-1000	D	BI37	${\rm fp}100{\rm d}{\rm ss.ie}{\rm s}$	M141	$9.0 \ / \ 5.2 \ / \ 4.5 \ / \ 3.9 \ / \ 2.4$	1080
	FS-400	В	ED18	fs40b ss.ie s	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
HPS	FS-400	C	ED18	fs40c ss.ie s	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
	FS-400	D	ED18	fs40d ss.ie s	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
Clear Lamps	FS-1000	В	E25	fs100b ss.ie s	S52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100
F	RS-1000	C	E25	fs100c ss.ie s	S52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100
	FS-1000	D	E25	fs100d ss.ie s	S52	$9.5 \ / \ 5.5 \ / \ 4.8 \ / \ 4.2 \ / \ 2.5$	1100

¹⁾ The FSe ries c an a c c o m mod at e a variety of other wattages and lamps. Consult factory.

EPA Effective Projected Area in Ft ²
23" housing 1.85
26" housing 2.93



²⁾ MH = Me tal Halide, PS = Pulse Start Me tal Halide, HPS = High Pressure Sodium.

³⁾ All ballasts are CWA (Constant Wattage Autotransformer).

⁴⁾ LER values and efficiencies are not published. See NEMA Standard LE-5B.

⁵⁾ Intended a iming and possible lamp orientation restrictions should be considered when selecting flood light.

Industrial Floodlight - 250-1500 watt HID

Туре: SA Job: Monsanto Hangar Page 4 of 6

Option Details (Factory Installed)

BL. Bi-Le ve l

No te:

No te :

TG

Suitable for HPS in any aiming position. Consult fac to ry when specifying dimming with Me tal Halide.

Bi-Level provides high / low level of lamp output with up to 50% power consumption. Zero crossovernetwork avoids strobing and lamp dropout.



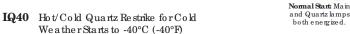


IQ Hot/Cold Quartz Restrike

Standard 150 watt (120V) double contactNo te: bayonet base socket.

Combined Quartz wattage may not exceed HID

lamp wattage.



IQ - Provides Lite Matic operation for fixtures with 120V or multi-tap ballasts. LiteMatic Operation











Main Lamp Reaches 40% Auxiliary quartz lamp automatic ally energized when power is restored. of Rated Output: Quartz lamp automatically extinguishes.

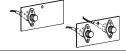
F-FI	Single	Fire	(120V/277V)
T.T.T	DILIGIE	ruse	(12UV /211V)

F-F2Double Fuse (208V/240V/480V)

Fusing not available on MF series (marine listed) units.

If ordering QV ballast, voltage must be specified.

Fuses are KIK/KLK30 amp unless otherwise specified.



 \mathbf{IB} Less Ballast (remote mount ballast)

Remote mount ballast options and accessories are not

available with 1000W HPSoron MFseries (marine listed) units.

Optic unit with mounting arms shipped without standard integral mastfitter and ballast a sse m b lv. Requires mounting accessory MF-1, TH-1, HV-1, SMB-400 or SMB-1000 (shipped separately).

 \mathbf{CO} Cutoff Optics

No te: Available with Band Dre flectors only. For applications where glare control is needed.

Require suse of proper cutoff shield accessory: SK-40-(F) or SK-100-(F) (shipped separately).

HAZ Hazardous Location Listed

Limite d to 400W and 1000W units only.

Available on MF(marine listed) units only. (See Listing on page 1.)

Class I, Divisio n 2, Groups A, B, C and D. Class I Division 2, Groups A, B, C, D

Catalog No.	Measured Max. Internal Operating Temperature	Measured Max. External Operating Temperature	TRating
MFM-1000	339°C	163°C	Tl
MFP-400	$316^{\circ}\mathrm{C}$	131°C	Tl
MFP-1000*	339°C	163°C	T1
*The mal limits re	quire 26" housing for MFSe ries 10	000W PS unit with UL844 liste d HAZ	option rating.
MFS-400	$374^{\circ}\mathrm{C}$	110°C	T1
MES 1000	2720€	1920€	Tri

Data supplied by Texas Research Institute, Inc., corrected to 23°C.

Note: The classification of an area as to class, division and groups and the use of UL844 listed luminaires in such areas is solely the judgement of the owner, insurance carrier and the authority having jurisdiction.

Te flon Bonded to Glass Lens

PB(X) Pre-wired ballast, specify length of SO cord in ft: (X = 3, 6 or 10)

EPXY-CTD-WHT White Epoxy Coated EPXY-CTD-GR Gray Epoxy Coated

Specified for applications (outside the U.S.) where 50 Hertz operation is standard.

Durable coating offers protection against mildly acidic or alkaline conditions.

5 MILTeflon® bonded to standard glass lens.

Allows wiring connections to be made in remote mounted junction box. Useful with various mounting accessories such as WB1 wall bracket.

Accessory Details (Field Installed - Shipped Separately)

F-F1-KIT-(F) Single Fuse Kit (120V/277V)

Consists of 1 or 2 fuse holders and 1 or 2 KIK 30 amp fuses. Field installed on wiring access plate. Fusing not available with MF se ries (marine listed) units. (F) = specify finish

MF-1-(F) Mastfitter

F-F2-KIT-(F)

Remote mount ballast options and accessories are not available with 1000W HPS or on MF series (marine listed) units.

Double Fuse Kit (208V/240V/480V)

Cast aluminum mastfitter for 2-3/8" O.D. pipe tenon. For use with remote mounted ballast on all FSeries models.

(Requires a vertical tenon height of 4-5/8" minimum)

(F) = specify finish





Industrial Floodlight - 250-1500 watt HID

Type: Job: Monsanto Hangar SA Page 5 of 6 **TH-1-(F)** Lowering Adapter (Tenon Hanger) Cast aluminum hangertapped for 1-1/4" NPTc onduit or pipe. No te: Remote mount ballast options and accessories Equips flood lights with remote mounted ballasts for use on are not available with 1000W HPSoron standard lowering devices. MF se rie s (marine liste d) units. Mounting arms provided with fixture. (F) = specify finish(Requires a vertical tenon length of 4-5/8" minimum) HV-1-(F) Cast aluminum trunion base bracket 7.0" (17.78cm) Trunio n Base c a lib rate d for horizontal adjustment. Remote mount ballast options and accessories are not available with 1000W HPSoron For use with remote mounted ballast. MF se rie s (marine liste d) units. (F) = specify finish4.94" (12.55 4 94 8.50" WB-1-(F) Wall Bracket Cast aluminum wall bracket for vertical surfaces 9/16 Dia. Hole (4 Places Typical) (21.59cm) only. Designed to permit mounting of flood lights on flat vertical surfaces. (F) = specify finishUse in conjunction with WB-5 for surface mounted wiring. 5.63" -(14.29cm) Tenon square Use d in conjunction with WB1 for surface mounted 3/4" NPT WB-5-(F) Wiring Box for WB-1 and surface Wiring (Top, Bottom and Back) wiring. Tapped top, back and bottom for 3/4" Inspection Plate mounte d conduit feed conduitorpipe. (F) = specify finish $Gasket\ pro\ vid\ e\ d\ fo\ rse\ a\ ling\ surfa\ c\ e\ wiring\ b\ o\ x\ to$ 6.88 (17.46cm) square WB-1 (wall mounting bracket). 3.25" Deep (8.25cm) Top View Front View PX-1-(F) Castaluminum Cross-arm Bracket angle bracket with For installing flood lights on 2" pipe stub. wooden or steel cross-arms. (F) = specify finish← 4.50"→ (11.43cm) "L" base. — 9/16" Dia. Hob (5 Pl. Typ.) - 6.00" (15.24cm) **SMB-400** Shock Mounting Bracket Shock Mounting Bracket for use in applications where severe vibration may be present. Secures flood light with a remote mounted ballast less mounting (23" housing) arms or mastfitter. Constructed of hot-dip galvanized steel with neoprene SMB-1000 Shock Mounting Bracket pads to absorb shock. Comosion resistant assembly hardware is fumished. (26" ho using) Note: Not available with 1000W HPS or on MF series (marine listed) units. Cast aluminum mounting bracket for installing **FB-1** Flat Base Mount flo o d lights o n flat ho rizo nta l surfa c e s.

For use with 2-3/8" OD pipe tenon (by others). Limit tenon height to 8.0" (20.32c m).



PCM-1 Photocell Receptacle
Mounting Bracket

Bracket with standard twist-lock receptacle for models with integral ballasts.

Threads into 1/2" NPThole in ballast base or mastfitter

(Photocell notincluded.)





Industrial Floodlight - 250-1500 watt HID

ype:	SA Job: Mo	nsanto Hangar		Page 6 of 6
SK-40-(* *		Cutoff shield provides precise vertical cutoff without distortion lateral pattern. (F) = Specify finish.	of The state of th
AL 4-F		er Lens for 23" housing er Lens for 26" housing	1/4" thick impact-resistant polymerlens provides additional protection of the glass lens. Fumished with mounting hardware and standoffs.	
	•	Lens Frame for 23" housing Lens Frame for 26" housing	De signed for use with colored lenses. Formed a luminum fra isolates the auxiliary lens from heat source for longer life. Gasketed to minimize particulate and moisture entry. May be used as a snoot when installed without a lens. Mounting hardware included. (F) = Specify finish.	ame
AIF 10	0-F-I// GIASS-IV8-(F)	Auxiliary Iens Frame with 8-lite internal louver	For additional namow beam glare control, specify the auxil 8-lite internal louver. Available for 26" housing only. (F) = $\$$	
IENS-A	AIFF4-GIASS (color)	Colored Auxiliary Iens for 23" housing	Colored auxiliary lens (fully tempered glass). Requires the use of the auxiliary lens frame.	
IENS-A	AIFF10-GIASS (color	Colored Auxiliary Lens for 26" housing	$(c \circ lo r) = Le ns c o lo r.$ (Consult factory to specify color of Note: Colored lens reduces efficiency.	g la ss le ns.)
PM-1	Wood Pole Mounting I Shipping wt.: 6 lbs(2 Wood Pole Mounting I	.7 kg)	Formounting lumina ires with mastfitters to 6.0" PM-1 to 12.0" O.D. wood poles.	PM-2
	Shipping wt.: 9 lbs (4	.05 kg)	12.0" (30.48c m)	12.0" (30.48c m)
PM-3	Wood Pole Mounting I Shipping wt.: 12 lbs (PM-3	PM-4
PM-4	Wood Pole Mounting Shipping wt.: 15 lbs (12.0" (30.48c m)	12.0" (30.48cm)
Votes	S			
				ISO SOOT
				C UNITER TEACH
				S CITA



The Streetworks Wal-Pak Series of wall luminaires provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardware along with a sealed and gasketed optical compartment make the Wal-Pak virtually impenetrable to contaminants. IP65 Rated. UL and cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

E STREETWORKS™

2000	1
	energy solutions

Catalog #	WKP-40-M-CWI-7-FC-BZ	Туре
		SB
Project	MONSANTO HANGAR	
Comments		Date
	BASIT SYED	11/18/13

SPECIFICATION FEATURES

Housing

Rugged one-piece die-cast aluminum housing and hinged, removable die-cast aluminum door. One-piece silicone gasket seals the optical chamber. UL 1598 wet location listed and IP65 ingress protection rated. Not recommended for car wash applications.

Electrical

Ballasts, LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone gasket at the back of the housing. Three 1/2" threaded conduit entry points allow for thru-branch wiring. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 3kV surge test and is Class 2 rated for 120-

277V with an operating temperature of -30° to 60°C. Wal-Pak LED systems maintain greater than 70% of the initial light output after 50,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (metal halide: 150, 175, 200, 250, 320, 350, 400W [-30°C / -20°F], (high pressure sodium: 50, 70, 100, 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120V, 208V, 240V, 277V, 347V and 480V. Compact fluorescent high power factor ballasts are Class P insulation rated for 120-277V and have a starting temperature of -18°C / 0°F.

Optical

Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, Solite™ flat diamond patterned glass and full cutoff IESNA compliant configurations. Patent pending, solid state LED luminaires

are thermally optimized with 2400 or 4000 lumen package modules. HID models are offered in horizontal medium or mogul-based metal halide or high pressure sodium lamps. T6 ceramic metal halide and 4-pin compact fluorescent lamp models offer high efficiency energy-saving illumination.

Door Assembly

Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

Finish

Housing and door are protected with 5-stage TGIC dark bronze polyester powder coat paint. Premium TGIC power coat finishes withstand extreme climate changes while providing optimal color and gloss retention. Optional premium colors are available.







WKP WAL-PAK

2400 - 4000 Lumen LED
39 - 400W
High Pressure Sodium
Pulse Start Metal Halide
Metal Halide
Ceramic Metal Halide
32 - 140W
Compact Fluorescent

WALL MOUNT LUMINAIRE

TECHNICAL DATA

UL and cUL Wet Location Listed IP65 Rated

40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum EISA ®, ARRA, Title 20 Compliant

ENERGY DATA

Reactor Ballast Input Watts

50W HPS NPF (58 Watts) 70W HPS NPF (82 Watts) 100W HPS NPF (118 Watts) 150W HPS NPF (175 Watts)

High Reactance Ballast Input Watts

50W MP HPF (69 Watts) 70W MP HPF (94 Watts) 100W MP HPF (129 Watts) 150W MP HPF (185 Watts)

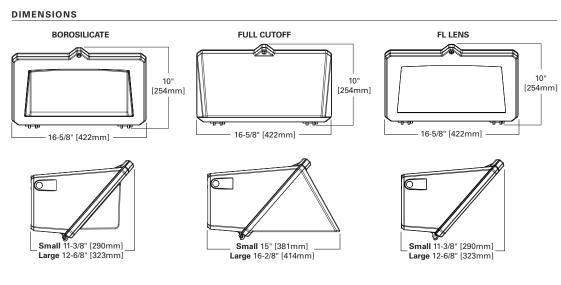
CWA Ballast Input Watts

200W HPS HPF (250 Watts) 200W MP HPF (227 Watts) © 250W MP HPF (283 Watts) © 320W MP HPF (365 Watts) © 350W MP HPF (400 Watts) © 400W HPS HPF (465 Watts) 400W MP HPF (452 Watts) ©

SHIPPING DATA

Approximate Net Weight: 32-42 lbs. (15-19 kgs.) ADW100024 2012-05-23 13:21:15





ORDERING INFORMATION

Sample Number: WKP10PC2GL

40 WKP **Product Family** Lamp Wattage WKP= Wal-Pak 2A=2 Package 28W 4A=4 Package 40W Metal Halide 2, 3 **17**=175W **25**=250W **40**=400W Pulse Start Metal Halide **39**=39W 50=50W **70**=70W **10**=100W **20**=200W **15**=150W **25**=250W

32=320W **35**=350W **40**=400W HIgh Pressure Sodium **50**=50W **70**=70W 10=100W **15**=150W **20**=200W 25=250W **40**=400W Ceramic Metal Halide **39**=39W 70=70W **100**=100W **150**=150W Compact Fluorescent 4 **32**=32W **42**=42W **57**=57W **70**=70W 64=(2-32W) **84**=(2-42W) 114=(2-57W) 140=(2-70W)

Lamp Type Ballast Type M= Metal Halide C=CWI H=Reac./HPF P= Pulse Start Metal Halide P=Hi Reac./HPF S=High Pressure R=Reac./NPS Sodium LED=Solid State W=CWA E=Electronic 5 Light Emmiting

Μ

Diodes

CM= Ceramic

CF=Compact

Metal

Halide

Fluorescent

CWI

Voltage **2**=120V 0=208V N=Hi Reac./NPF 4=240V **7**=277V **8**=480V W=Multi-tap wired 120V N=Multi-tap wired 277V V=Multi-tap wired 240V **U**=Universal (120-277V)

7

FC Door/Lens Type ⁶ GL=Borosilicate

Glass Door FL=Flat Solite Glass Door (150-175W max) FC= Full Cutoff Door = Polycarb Refractor Door (175W max)

Options

BZ

Color

AP=Gray

BK=Black

BZ=Bronze

WH=White

1=Single Fuse (120, 277 or 347V) ⁷ **2**=Double Fuse, (208, 240, 480V)⁷ **5**=Non NEMA Photocontrol⁷ B=Two Position Terminal Block SGL=Solite Glass Lens for HID and CF Models⁸
CGL=Clear Glass Lens ⁹ L=Lamp Included

NOTES: 1 LED Packages are 67 CRI/5000K

- 2 MH products available for non-US markets only.

 3 MH and MP 175W and below are medium base all others are mogul base. 250 and 350W MP are not Title 20 Compliant. 400W MP must be ordered with Lamp option to be Title 20 Compliant.
- 4 Electronic Ballast Standard with CF.
- 5 Available with 70-150W Pulse Start or CM Lamps.
- b Available witn /U-150W Pulse Start or CM Lamps.
 6 Small housing offered for 175W and below, CF and LED Models. Large Housing for 200-400W. FL Door not available with CF or 200-400W Models.
 Polycarbonate lens available in models up to 175W max including LED. Polycarbonate lens not available with full cutoff door or FL models. Solite stipple glass is standard for FL lens. Clear glass is standard for full cutoff door types except for LED. LED full cutoff door is standard with solite glass.
 7 Specify voltage. 1 120, 277 or 347V, 2 208 or 240V
 8 SGL optional on HID and CF models only.

- 9 Clear Glass not available with LED.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	50, 70, 100, 150, 200, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	50, 70, 100, 150, 250, 400W
T6 Ceramic Metal Halide	39, 70, 100, 150W
Compact Fluorescent	(1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 57, (2) 70
LED	2A=28W, 4A=40W

