# **Table of Contents**

File _		SPR-1996-230 Name: Two Airport Hangars – 2867 and 2869 Aviator Way												
P r e s e n t	retrieval system. In some instances, items are found on the list but are not present in the scanned electronic development file because they are already scanned elsewhere on the system. These scanned documents are denoted with (**) and will be found on the ISYS query system in their designated categories.  Documents specific to certain files, not found in the standard checklist materials, are listed at the bottom of the page.													
X	X	Table of Contents												
		*Review Sheet Summary												
		*Application form												
X		Review Sheets												
X		Receipts for fees paid for anything												
X	X	*Submittal checklist												
X	X	*General project report												
		Reduced copy of final plans or drawings												
X		Reduction of assessor's map.												
		Evidence of title, deeds, easements												
		*Mailing list to adjacent property owners												
		Public notice cards												
	_	Record of certified mail												
		Legal description												
		Appraisal of raw land												
Ш	$\rightarrow$	Reduction of any maps – final copy												
Ш		*Final reports for drainage and soils (geotechnical reports)												
H		Other bound or non-bound reports												
V	TV.	Traffic studies												
X	X	*Review Comments												
	^	*Petitioner's response to comments *Staff Reports												
Н	_	*Planning Commission staff report and exhibits												
$\vdash$		*City Council staff report and exhibits												
Н		*Summary sheet of final conditions												
ليظ	1	DOCUMENT DESCRIPTION:												
X		Planning Clearance – 10/22/96 - **												
X		File Close-out Summary – 6/19/97												
X		Certificate of Occupancy - 4/23/97												
X	X	Correspondence												
X		Ground Lease – 10/1/96 through 10/31/2021												
	X	Site Plan Grading / Drainage Plan – to be scanned												
X	_	E-mails												
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# SUBMITTAL CHECKLIST

# SITE PLAN REVIEW

Location: Waller Field Project Name: Hangars																															
	1010																														
ITEMS		DISTRIBUTION																													
Date Received 10/23/94  Receipt #\$0\dots \frac{4758}{518-96-336}  DESCRIPTION	SSID	City Commonity Developments	C. Gity-Bov-Eng.	- Sity - Othery Eng.	Gity Proporty Agent - Pohoe-	O City Parks/Recreation	Telty The Department	- Bity Attentiev	O City Downtown Dev. Auth.	1	Soanty Sidg. Dept.	O Irrigation District	O Drainage District	Water District - DIE	O Sewer District	O U.S. West	O Public Service			O Corps of Engineers	WANKER FIELD	O Persigo WWT	O Mesa County Health	O State Environ. Health	O City Sanitation	O School Dist #51					9 TOTAL BEOLD
◆ Application Fee   \$ 100  Submittal Checklist *	VII-1	1	L	_	_	L	L		<b>!</b> _	_	_	Ш			Ц	_	4	4	_	4					L	<u> </u>	Ш	Ц	$\perp$	$\perp$	4
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O Industrial Pretreatment Sign-off	VII-4	1		1		┢	一	$\vdash$				Н	H		H	+	7	ᅥ	ᅥ	ᅥ		$\dashv$	-	H		┢	H	H	$\forall$	$\dagger$	+
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APRIL 1995

#### PRE-APPLICATION CONFERENCE

Date: 9/10/96 Conference Attendance: Proposal: Hamaw Location: Walky Field  Tax Parcel Number: 2705 - 312 -00 -9 41  Review Fee: #100  (Fee is due at the time of submittal. Make check payable to the City of Grand Junction.)									
Additional ROW required?									
Applicable Plans, Policies and Guidelines									
Located in identified floodplain? FIRM panel #									
Located in established Airport Zone? Clear Zone, Critical Zone, Area of Influence?									
While all factors in a development proposal require careful thought, preparation and design, the following "checked" items are brought to the petitioner's attention as needing special attention or consideration. Other items of special concern may be identified during the review process.									
O Access/Parking O Drainage O Land Use Compatibility O Drainage O Landscaping O Traffic Generation O Floodplain/Wetlands Mitigation O Availability of Utilities O Other Related Files:									
It is recommended that the applicant inform the neighboring property owners and tenants of the proposal prior to the public hearing and preferably prior to submittal to the City.									
PRE-APPLICATION CONFERENCE									
WE RECOGNIZE that we, ourselves, or our representative(s) must be present at all hearings relative to this proposal and it is our responsibility to know when and where those hearings are.									
In the event that the petitioner is not represented, the proposed item will be dropped from the agenda, and an additional fee shall be charged to cover rescheduling expenses. Such fee must be paid before the proposed item can again be placed on the agenda. Any changes to the approved plan will require a re-review and approval by the Community Development Department prior to those changes being accepted.									
WE UNDERSTAND that incomplete submittals will not be accepted and submittals with insufficient information, identified in the review process, which has not been addressed by the applicant, may be withdrawn from the agenda.									
WE FURTHER UNDERSTAND that failure to meet any deadlines as identified by the Community Development Department for the review process may result in the project not being scheduled for hearing or being pulled from the									

Signature(s) of Petitioner(s)

Signature(s) of Representative(s)

#### **GENERAL PROJECT REPORT**

October 18, 1996

# HANGAR NUMBER ONE WALKER FIELD AIRPORT GRAND JUNCTION, CO 81501

Prepared For:
TPI INDUSTRIAL INC.
464-25 ½- Road
Grand Junction, CO 81505

Prepared By:
HydroTerra Environmental Consulting
1179 Santa Clara Avenue
Grand Junction, CO 81505
970-242-4454

#### **Table of Contents**

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3.	Considerations	2
4.	Soils, and Drainage	3
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6.	Results and Conclusions	5

#### 1. General Location and Description

The proposed project is located in the eastern part of the Walker Field Airport along Aviators Way near the Westar Aviation Building (See Assessor's map in site plan submittal). This area is within the boundaries of the Walker Field Airport Authority and the City of Grand Junction (NE 1/4 of Section 31, T1N, R1E, Ute Prime Meridian). Thus, the site plan will be submitted to both the Airport Authority and the City of Grand Junction for review and comment.

The project proposes erecting two hangar buildings on a leased lot 252 ft by 230 ft (1.33 acreszoned Planned Airport Development- PAD). The lot is on the south side of Aviators Way and all utilities are available within the street right-of-way. The proposed development is consistent with current zoning and with other development in the area. The proposed building dimensions are 80ft x 172ft (13,760ft²) for the larger building and 40ft x 150ft (6,000ft²) for the smaller building. The larger building will contain approximately 1200 ft² of office space and 5 individual hangars. The smaller building will contain 3 hangars. The buildings will be steel construction on concrete pads.

The subject land parcel is bounded by Aviators Way on the north, Westar Aviation on the east, Taxiway C-1 on the south, and the GM Hangar, currently under construction, on the west.

The proposed project will have two routes of access for automobiles and two routes of access for aircraft. Automobile parking for ten vehicles will be provided along Aviators way as shown on the site plan. Aircraft parking will be provided in the eight hangars. Two-way traffic will circulate the proposed parking area. Occasional automobile access to the hangar area alley will be provided through two 12 ft rolling gates. Pedestrian access will be provided by two 4 ft walking gates. Aircraft access will be provided by two paved ramps leading two Taxiway C-1.

Utilities are already present in the area. Telephone service, electricity, a gas line, and water and

sewer service are currently available to the parcel along Aviators Way. A fire hydrant is located about 15 ft north of the larger building.

Utility providers to the property are as follows:

Public Service - gas and electric

Ute Water - potable water

City of Grand Junction - sewer

U.S. West - telephone service

#### 2. Public Benefit

The proposed project will help fulfill a need for additional private aircraft hangar space at the airport. The hangars will be condominiumized, meaning that each hangar will be individually owned. This development will provide hangar space for eight private aircraft.

#### 3. Considerations

- Land use in the surrounding area is all related to the operation of Walker Field Airport as the proposed development will be.
- Automobile access will be limited to Aviators Way.
- The hangars will be privately owned, so there will be no employees at the site. Thus, 10 parking spaces are provided for the 8 private hangars.
- Anticipated hours of operation will be primarily daylight hours.
- No sign is currently planned for the development.
- All utilities are available on or at the edge of the property. A fire hydrant is located directly north of the larger hangar building.
- No special or unusual utility demands have been identified for the proposed development.
- There is already development in the area requiring public services and facilities. Thus,

there will be minimal impacts on public facilities such as fire and police protection, and sanitation.

• Impacts to traffic will be minimal as Aviators Way provides 2 lane, two-way travel to the site but ends less than 100 ft east of the development. Ingress and egress will not require modifications to the existing street. There is no curb and gutter, thus, no curb cuts will be necessary for access. The access will be graveled.

#### 4. Soils, and Drainage

The Natural Resources Conservation Service (formerly the Soil Conservation Service) identifies the soils on the parcel as Persayo Silty Loam (PeD). Based on the properties listed for this soil type, the project will not be adversely impacted by soils and no geologic hazards or constraints to the proposed development are identified.

Historically, runoff from the property drained south and was collected by the existing Walker Field stormwater drainage system about 900 ft south of Taxiway C-1. Developed drainage from the two proposed hangars and the area in between will be routed to two detention basins located south of the two hangar buildings (see site plan). Runoff from the area west of the larger hangar building will be directed south along the lease boundary to Taxiway C-1 where it will cross the taxiway and follow historic drainage patterns. Drainage from the right-of-way of Aviators Way and the proposed parking area will drain west along the historic drainage route to a storm sewer area inlet located in front of the Shade Hanger, about 150 ft west of the proposed development.

#### Calculation of 100 year historic total runoff:

{per City of Grand Junction, Stormwater Management Manual (SWMM), June 1994}

Total 100 year runoff -  $Q_{100}$ =  $C^{100}$  x  $I^{100}$  x Area

 $C^{100}$ = 0.34 (from SWMM)

 $I^{100} = 0.17 ft \text{ (from SWMM)}$ 

 $Q_{100} = 0.34 \times 0.17 \text{ ft } \times 57,500 \text{ ft}^2 = 3,323 \text{ ft}^3$ 

# Calculation of 100 year developed runoff: {per City of Grand Junction, Stormwater Management Manual (SWMM), June 1994}

Drainage Basin	Surface Type	C100	Area (ft²)	Weighted C <sup>100</sup>
West side	non-green landscape	0.54	2,760	$\mathbf{CxA} = 1490$
	pave/roof	0.95	13,780	CxA = 13091
		Total	16,540	$14581/16540 = 0.88 = C^{100}$
Central area	Non-green landscape	0.54	800	CxA = 432
	roof/pave	0.95	19,920	CxA = 18,924
		Total	20,720	$19356/20720 = 0.93 = C^{100}$
East side	Non-green landscape	0.54	3,150	$\mathbf{CxA} = 1701$
	roof/pave	0.95	17,550	CxA = 16672
		Total	20,700	18373/20700 =
				$0.88 = C_{100}$

Total 100 year runoff -  $Q_{100}$ = $C^{100}$ x $I^{100}$ xA  $I^{100}$ =0.17ft (from SWMM)

West Side - 0.88 x 0.17ft x 16,540 ft<sup>2</sup> = 2,474 ft<sup>3</sup>

This runoff will be directed south across taxiway C-1 without detention

Central Area - 0.93 x 0.17ft x 20,720 ft<sup>2</sup> = 3,275 ft<sup>3</sup>

This runoff will be directed to detention Basin A and will be retained on site. Basin A capacity will be  $3800 \, \text{ft}^3$  as shown on the grading and drainage plan. (Volume = LxWxD = 80ft x 48ft x  $1 \, \text{ft} = 3,840 \, \text{ft}^3$ .)

East Side -  $0.88 \times 0.17$ ft x 20,700 ft<sup>2</sup> = 3,096 ft<sup>3</sup>

This runoff will be directed to Basin B where approximately 75% will be retained in Basin B and the remainder will discharge into Basin A. Any excess from Basin A will discharge south across taxiway C-1. Basin B capacity will be  $2400 \, \text{ft}^3$  as shown on the grading and drainage plan. (Volume = LxWxD =  $48 \, \text{ft} \times 50 \, \text{ft} \times 1 \, \text{ft} = 2,400 \, \text{ft}^3$ .)

Total 100 year developed runoff =  $2,474 \text{ ft}^3 + 3,275 \text{ ft}^3 + 3,096 \text{ ft}^3 = 8845 \text{ft}^3$ Thus, if 100 year historic runoff is 3323 ft<sup>3</sup> as calculated above and total 100 year developed runoff will be 8845 ft<sup>3</sup>, retention of developed runoff exceeding historic runoff would be 8845 ft<sup>3</sup> - 3323 ft<sup>3</sup> = 5522 ft<sup>3</sup>. The total retention provided by the two basins is 3800 ft<sup>3</sup> + 2400 ft<sup>3</sup> = 6200 ft<sup>3</sup>, which is more than the additional runoff resulting from development.

#### 5. Development Schedule and Phasing

The proposed development will be completed as one phase. Phase one will be construction of the proposed buildings and all associated parking and landscaping. Construction is scheduled to start as soon as all planning clearances are received, hopefully in the Fall of 1996.

#### 6. Results and Conclusions

In summary, the proposed development is consistent with zoning and current use in the area. Significant impacts to existing infrastructure are not anticipated. Based on the scope of the planned development and the consideration of geologic hazards and drainage, the site appears to be well suited. The schedule provides for having a private hangar space available for occupancy in 1996 or early 1997, and based on the growing demand for such space, there is a need in the community for this development.

#### **REVIEW COMMENTS**

Page 1 of 2

**FILE #SPR-96-230** 

**TITLE HEADING:** Airport Hangars

LOCATION:

2867 & 2869 Aviator Way

PETITIONER:

**TPI** Industrial

PETITIONER'S ADDRESS/TELEPHONE:

464 25 ½ Road

Grand Junction, CO 81505

243-4642

PETITIONER'S REPRESENTATIVE:

David Smuin

STAFF REPRESENTATIVE:

Bill Nebeker

# NOTE: THE PETITIONER IS REQUIRED TO SUBMIT FOUR (4) COPIES OF WRITTEN RESPONSE AND REVISED DRAWINGS ADDRESSING ALL REVIEW COMMENTS.

#### CITY COMMUNITY DEVELOPMENT

11/7/96

Bill Nebeker

244-1447

- 1. Required parking (at least 4 spaces) must be paved.
- 2. Isn't it more desirable to locate the landscaping in the front between the building and the hangars and include some trees?

#### CITY DEVELOPMENT ENGINEER

11/1/96

Jody Kliska

244-1591

- 1. Transportation Capacity Payment \$480.00.
- 2. It appears based on the office space 4 parking spaces are required. The City Code requires all required parking and maneuvering areas, including the driveways, to be paved.

#### **CITY UTILITY ENGINEER**

11/6/96

Trent Prall

244-1590

Please contact Jodi Romero at the City's Customer Service section, 244-1520, for information regarding sewer plant investment fees.

#### CITY FIRE DEPARTMENT

11/4/96

Hank Masterson

244-1414

- Submit complete sealed plans to the Fire Department for our review and approval.
- 2. A knox box or knox padlocks must be provided for gates to allow Fire Department access. Application for knox box/padlock must be obtained at Fire Department.

#### CITY POLICE DEPARTMENT

10/23/96

Lisa Dicamillo

<u>244-3587</u>

These plans follow the current trend in Crime Prevention using lighting and landscaping.

#### SPR-96-230 / REVIEW COMMENTS / page 2 of 2

#### **CITY ATTORNEY**

10/28/96

#### Dan Wilson

244-1505

- 1. Trash, for the office space.....
- 2. Graveled areas dust concern

#### MESA COUNTY BUILDING DEPARTMENT

10/25/96

Bob Lee

244-1656

The south-east wall located 10' from the lease boundary line must be one-hour fire-resistive or a distance of 40' must be maintained between buildings. Sealed plans must be submitted for each building.

#### **UTE WATER**

11/4/96

Gary Mathews

242-7491

- 1. Policies and fees in effect at the time of application will apply.
- 2. Contact with Ute Water is needed if the Fire Department requires fire protection other than what is existing.

#### WALKER FIELD AIRPORT

10/25/96

**Dennis Wiss** 

244-9100

- 1. The Walker Field Airport Authority has no objections to this proposed site and construction. These structures are compatible-use structures as defined in the Airport's Master Plan and are on Airport property.
- 2. An FAA Form 7460, Proposed Alteration or Construction, must be filed with the FAA and approved by the FAA prior to the start of this construction. The Airport Authority requests a copy of this completed and approved form when it is received from the FAA.

# **Comment Response Letter**

File #SPR-96-230

November 11, 1996

Location:

2867 and 2869 Aviator Way

Petitioner:

TPI Industrial 552 25 Road, #D

Grand Jct, CO 81505

243-4642

RECEIVED GRAND JUNCTION PLANNING DEPARTMENT.

HOV 15 1998

Petitioner's Representative: David Smuin, HydroTerra Environmental

Staff Representative: Bill Nebeker, Community Development Dept.

**Community Development Department** 

Bill Nebeker

Comment:

Required parking (at least 4 spaces) must be paved.

Response:

The plans have been changed to include 4 paved parking spaces along with paving

the associated maneuvering areas and driveway.

Comment:

Isn't it more desirable to locate the landscaping in the front between the buildings

and the hangars and include some

Response:

The landscaping has been deleted at the request of the Airport Authority as required

by the FAA (see attached letter).

City Development Engineer

Jody Kliska

Comment:

Transportation capacity payment - \$480.00.

Response:

No response required.

Comment:

It appears based on the office space, that 4 parking spaces are required. The City

Code requires all required parking and maneuvering areas, including driveways, to

be paved.

Response:

The plans have been changed to include 4 paved parking spaces along with paving

the associated maneuvering areas and driveway.

City Utility Engineer

**Trent Prall** 

Comment:

Please contact Jodi Romero of the City Customer Service Division at 244-1520 for

information regarding sewer plant investment fees for the facility.

Response:

The contact will be made, and fees will be paid.

City Fire Department

Hank Masterson

Comment:

A knox box or knox padlocks must be provided for gates to allow Fire Department

access. Application for knox box/padlocks must be obtained at Fire Department.

IL PER Resp

Application will be made for the required box or padlocks.

Comment:

Submit complete sealed plans to the Fire Department for our review and approval.

Response:

The complete building plans will be submitted for review during the building permit

application process.

City Police Department

Lisa Dicamillo

Comment:

These plans follow the current trend in Crime Prevention using lighting and

landscaping.

Response:

No response required.

City Attorney

Dan Wilson

Comment:

Trash for the office space.....

Response:

A dumpster area has been added to the plans

Comment:

Graveled areas - dust concern.....

Response:

Most of the area is currently bare soil, thus, the graveled areas will actually lessen

the potential for dust. Note that the required parking will be paved.

Mesa County Building Department

**Bob Lee** 

Comment:

Sealed plans must be submitted for each building.

Response:

Two sets of stamped plans will be provided for review.

Comment:

The southeast wall located 10' from the lease boundary line must be one-hour fire-

resistant or a distance of 40' must be maintained between buildings.

Response:

All applicable codes and standards will be implemented as required.

Ute Water Gary Mathews

Comment: Policies and fees in effect at the time of application will apply.

Response: No response required.

Comment: Contact with Ute Water is needed if the Fire Department requires fire protection

other than what is existing.

Response: No additional fire protection is required by the Fire Department other than possibly

a fire wall. The existing hydrant will be sufficient.

Walker Field Airport

**Dennis Wiss** 

Comment: The Walker Field Airport Authority has no objections to this proposed site and

construction. These structures are compatible-use structures as defined in the

Airport's Master Plan and are on Airport property.

Response: No response required.

Comment: An FAA Form 7460, Proposed Alteration or Construction, must be filed with the

FAA and approved by the FAA prior to the start of this construction. The Airport Authority requests a copy of this completed and approved form when it is received

from the FAA.

Response: A form will be obtained and approval will be requested. A copy of the approved

form will be provided to the Airport Authority upon approval. Also please note that the storm water detention basins and landscaping have been eliminated as required

by the FAA per the attached letter.

HydroTerra Environmental Consulting

1179 Santa Clara Ave. Grand Junction, CO 81503 Phone/Fax(970) 242-4454

# WALKER FIELD Airport Authority

2828 Walker Field Drive, Suite 211 Grand Junction, Colorado 81506 (970) 244-9100 FAX (970) 241-9103 Mr. Jim Biber 1048 Independent Avenue Grand Junction, CO 81505

November 13, 1996

RE: Installation of River Rock on Leased Premises

Dear Jim:

On October 29, 1996 you and I discussed not installing the river rock on the southern end of your leasehold abutting the taxilane. I based my conversation and comments on FAA Advisory Circular 150/5300-13, change 4, page 36, Table 4-1, Taxiway Dimensional Standards. I have enclosed a copy of the pertinent pages from this document for your review.

Essentially, what Table 4-1 is telling us is that a taxilane with a width of 35 feet, which is what the taxilane width is in your area, has an obstacle free area, (OFA), of 115 feet, centered on the taxilane centerline. That is, the OFA extends 57 1/2 feet either side of the taxilane centerline. A taxiway or taxilane OFA must provide for the safe passage of aircraft through the area should an aircraft depart the pavement. OFA's must be free of aboveground objects that are not there by necessity, such as NavAids.

Subtracting one half the width of the taxilane, 17 1/2 feet, leaves an OFA extending from the edge of the taxilane of 40 feet onto your property. Thus, the reason for my suggesting you leave the ground essentially as it is 40 feet from the taxiway back onto your leasehold, at which point you could begin the river rock installation.

On the same day that you and I talked, I was speaking with Harold Handke, Lead Airport Certification Inspector for the Northwest Mountain Region of the FAA. I was speaking with Harold on another subject and asked him his view on the proposed river rock in the OFA. Mr. Handke's comments were that this was unwise due to the potential hazard to aircraft.

Further, Mr. Handke stated that the criteria for taxiway and taxilane safety areas are basically interchangeable and the criteria for a taxiway safety area would apply to a taxilane as well. The criteria for a safety area is for the area to be cleared, graded, and with no potentially hazardous ruts, humps, depressions, or other surface variations. Again, this is to prevent damage to an aircraft should it depart the pavement.

As you can see, my comments and those of the FAA are based on the negating of any possible damage to an aircraft leaving the pavement. I am

"We've got the world at our wingtips" truly sorry if this has caused any interruption of your construction plans. I certainly did not mean to slow the process when we first talked.

If there is anything else I can do for you regarding this matter, please let me know. I will be more than happy to meet with you and/or any members of the City and County Planning Commissions to discuss this issue.

Sincerely;

Dennis Wiss, A.A.E.

Director of Operations and Planning

**Enclosures** 

### Chapter 4. TAXIWAY AND TAXILANE DESIGN

- 400. <u>INTRODUCTION</u>. This chapter presents the design standards for taxiways, taxilanes, and associated airport elements.
- 401. <u>DIMENSIONAL STANDARDS</u>. Tables 4-1 and 4-2 present the dimensional standards for taxiway, taxilanes, and associated elements. Appendix 9 discusses the relationship between airplane physical characteristics and the design of taxiway and taxilane elements. The rationale presented there is useable, on a case-by-case basis, to adapt separation standards to meet unusual local conditions or to accommodate a specific airplane within an airplane design group.
- 402. TAXIWAY SHOULDERS. Provide stabilized or paved shoulders to reduce the possibility of blast erosion and engine ingestion problems associated with jet engines which overhang the edge of the taxiway pavement. Table 4-1 presents taxiway shoulder width standards. Soil with turf not suitable for this purpose requires a stabilized or low cost paved surface. Chapter 8 contains additional information on this subject.
- safety area is centered on the taxiway centerline. Table 4-1 presents taxiway safety area dimensional standards.
- a. Design Standards.
- raded and have so comments, humps, depressions, or other surface variations;
- (2) desired by grading or storm sewers to
- (3) capable, under dry conditions, of supporting snow removal equipment, aircraft rescue and firefighting equipment, and the occasional passage of aircraft without causing structural damage to the aircraft; and
- (4) free of objects, except for objects that need to be located in the taxiway safety area because of their function. Objects higher than 3 inches (7.6 cm) above grade should be constructed on low impact resistant supports (frangible mounted structures) of the lowest practical height with the frangible point no higher than 3 inches (7.6 cm) above grade. Other objects, such as manholes, should be constructed at grade. In no case should their height exceed 3 inches (7.6 cm) above grade.

- b. <u>Construction Standards</u>. Compaction of taxiway safety areas shall be to FAA specification P-152 found in AC 150/5370-10.
- 404. The taxiway and taxilane OFAs are centered on the taxiway and taxilane centerlines as shown in figures A9-2, A9-3, and A9-4.
- standard prohibit service veince roads, parked airplanes, and above ground objects, except for objects has need to be located in the OFA for air navigation or aircraft ground machine are proposes. Veincles may operate within the OFA provided they give right of way to oncoming aircraft by either maintaining a safe distance ahead or behind the aircraft or by exiting the OFA to let the aircraft pass. Provide vehicular exiting areas along the outside of the OFA where required. Table 4-1 specifies the standard dimensions for OFAs.
- b. OFA clearance fillets shall be provided at intersections and turns where curved taxiway or taxilane centerline pavement markings, reflectors, or lighting are provided. The OFA clearance fillets shall be configured to provide the standard wingtip clearance for the using aircraft. Appendix 9 provides guidance for finding the wingtip trace and Table 4-3 specifies the standard wingtip clearances.
- Offset taxilane pavement markings may be used at existing facilities where it is impracticable to upgrade the facility to existing standards or as a temporary measure to assure adequate wingtip clearance until upgraded facilities meeting design standards are completed. The offset taxilane pavement markings should be located on an arc offset and parallel to the curved centerline. The radius of the offset arc should be approximately  $(R^2 + d^2)^{0.5}$ . R being the radius of the taxilane turn and d being a representative distance from the center of cockpit to the center of main undercarriage of the larger wingspan aircraft. Increasing the offset radius increases the clearance inside of the curve while decreasing the clearance outside of the curve. Both clearances for each of the larger wingspan aircraft need to be examined. Where offset taxilane pavement markings are provided, centerline lighting or reflectors are required.
- 405. PARALLEL TAXIWAY. A basic airport consists of a runway with a full length parallel taxiway, an apron, and connecting transverse taxiways between the runway, parallel taxiway, and the apron.

Chap 4

AC 150/5300-13 CHG 4

		AIRPLANE DESIGN GROUP								
ITEM	DIM <u>1</u> /	I	II	III	IV	V	VI			
teatway Viulii	w	25 ft 7.5 m	10.5 m	50 ft <u>2</u> / 15 m <u>2</u> /	75 ft 23 m	75 ft 23 m	100 ft 30 m			
Taxiway Edge Safety Margin <u>3</u> /	·	5 ft 1.5 m	7.5 ft 2.25 m	10 ft <u>4</u> / 3 m <u>4</u> /	15 ft 4.5 m	15 ft 4.5 m	20 ft 6 m			
Taxiway Pavement Fillet Configuration				- Refer to	Γable 4-2 -					
Taxiway Shoulder Width		10 ft 3 m	10 ft 3 m	20 ft 6 m	25 ft 7.5 m	35 ft <u>5</u> / 10.5 m <u>5</u> /	40 ft <u>5</u> / 12 m <u>5</u> /			
Taxiway Safety Area Width	E	49 ft 15 m	79 ft 24 m	118 ft 36 m	171 ft 52 m	214 ft 65 m	262 ft 80 m			
Taxiway Object Free Area Width		` 89 ft 27 m	131 ft 40 m	186 ft 57 m	259 ft 79 m	320 ft 97 m	386 ft 118 m			
favilanc Sujoce Free Area Whith	Ţ	24 m	35 m	162 ft 49 m	225 ft 68 m	276 ft 84 m	334 ft 102 m			

- $\underline{1}$ / Letters correspond to the dimensions on figures 2-1 and 4-1.
- 2/ For airplanes in Airplane Design Group III with a wheelbase equal to or greater than 60 feet (18 m), the standard taxiway width is 60 feet (18 m).
- 3/ The taxiway edge safety margin is the minimum acceptable distance between the outside of the airplane wheels and the pavement edge.
- 4/ For airplanes in Airplane Design Group III with a wheelbase equal to or greater than 60 feet (18 m), the taxiway edge safety margin is 15 feet (4.5 m).
- 5/ Airplanes in Airplane Design Groups V and VI normally require stabilized or paved taxiway shoulder surfaces.

Consideration should be given to objects near runway/taxiway/taxilane intersections which can be impacted by exhaust wake from a turning aircraft.

The values obtained from the following equations may be used to show that a modification of standards will provide an acceptable level of safety. Refer to paragraph 6 for guidance on modification of standards requirements.

Taxiway safety area width equals the airplane wingspan;

Taxiway OFA width equals 1.4 times airplane wingspan plus 20 feet (6 m); and

Taxilane OFA width equals 1.2 times airplane wingspan plus 20 feet (6 m).



Grand Junction Community Development Department Planning • Zoning • Code Enforcement 250 North Fifth Street Grand Junction, Colorado 81501-2668 (303) 244-1430 FAX (303) 244-1599

May 30, 1997

Steve McCallum TPI Industrial 552 25 1/2 Road Grand Junction, CO 81505

RE: SPR-96-230; Airport Hangars

Dear Steve:

As you know, the County Building Department has notified us that the airport hangar at 2869 Aviators Way is ready for occupancy. The Certificate of Occupancy cannot be signed by our department until all improvements shown on the approved site plan have been installed. The one remaining item is the need to install 10 wheel chocks. These wheel chocks are required by City Code, Section 5-1-4C.

On a recent site inspection I noted that several other hangars and buisnesses in this area also have wheel chocks or concrete curbs for their parking. This requirement cannot be waived. Please install the wheel chocks by July 1, 1997 and call for an inspection. If you have any questions please call me at 244-1447.

Sincerely,

Bill Nebeker Senior Planner

ill Nehole

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BLOCKS INSTALLAS: INSPEZTAS 6.19.97

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#### CERTIFICATE OF OCCUPANCY

#### BUILDING DEPARTMENT CITY OF GRAND JUNCTION (OR MESA COUNTY)

PERMIT #	58632				DATE	4-23-97
PERMISSION IS	HEREBY GRANTE	D <i>TO</i>	P I Const			TO OCCUPY THE
BUILDING SITU	JATED AT2	869 Aviato	ors Way		<del> </del>	
LOT	BLOCK	FILING	SUBDIVISION	- W		
TAX SCHEDUL	E NUMBER	2705-312-0	0-941			
FOR THE FOLL	OWING PURPOSE:	На	ngar- Stora	age ONLY		
THIS CERTIFIC	CATE ISSUED IN CO	NFORMITY TO	SECTION 307, UNI	IFORM BUILDI	NG CODE	
٠			INSPECTOR		i dy	~~
	•	Cit	y Planning_	Bel	, Neh	h
,	O. DOES NOT				,	:
		CERTIFI	CATE OF OCCUPA	ANCY		
		CITY O	DING DEPARTME! F GRAND JUNCT! R MESA COUNTY)			
PERMIT#5	8633				DATE	5-2-97
PERMISSION IS	HEREBY GRANTEI	O TOTP	I Const			_TO OCCUPY THE
BUILDING SITU	JATED AT	2867 Avi	ators way			
LOT	_BLOCK	FILING	SUBDIVISION			
TAX SCHEDUL	E NUMBER	2705-312	2-00-941			
FOR THE FOLL	OWING PURPOSE:	hangar (	THIS C.O. I	OOES NOT!	include	e tenant
THIS CERTIFIC	TATE ISSUED IN CO	NFORMITY TO	SECTION 307, UN	IFORM BUILDI	NG CODE	

#### CERTIFICATE OF OCCUPANCY CITY OF GRAND JUNCTION/MESA COUNTY, COLORADO BUILDING DEPARTMENT

Permit Number:

58633

02/04/00

I. Ui

Units:

Permit Type: BEMP

Jurisdiction: GRAND JUNCTION

Permission is hereby granted to G FORCE

to occupy the building situated at:

AVIATORS WAY

Lot No.:

Block No.:

0 Filing No.:

Subdivision:

Tax Schedule No.: 2705-312-00-941

for the following purpose: hangar-rear for storage&front for Aircraft Repair Sho

This Certificate issued in conformity to Section 109, Uniform Building Code

CERTIFICATE OF OCCUPANCY CITY OF GRAND JUNCTION/MESA COUNTY, COLORADO

Permit Number:

58633

02/04/00

Units:

р

Permit Type: BEMP

BUILDING DEPARTMENT

Jurisdiction: GRAND JUNCTION

Permission is hereby granted to G FORCE to occupy the building situated at:

02867

AVIATORS WAY

Lot No.:

Block No.: 0 Filing No.:

Subdivision:

Tax Schedule No.: 2705-312-00-941

for the following purpose: hangar-rear for storage&front for Aircraft Repair Sho

This Certificate issued in conformity to Section 109, Uniform Building Code

## File Close-out Summary

File #: SPR-1996-230

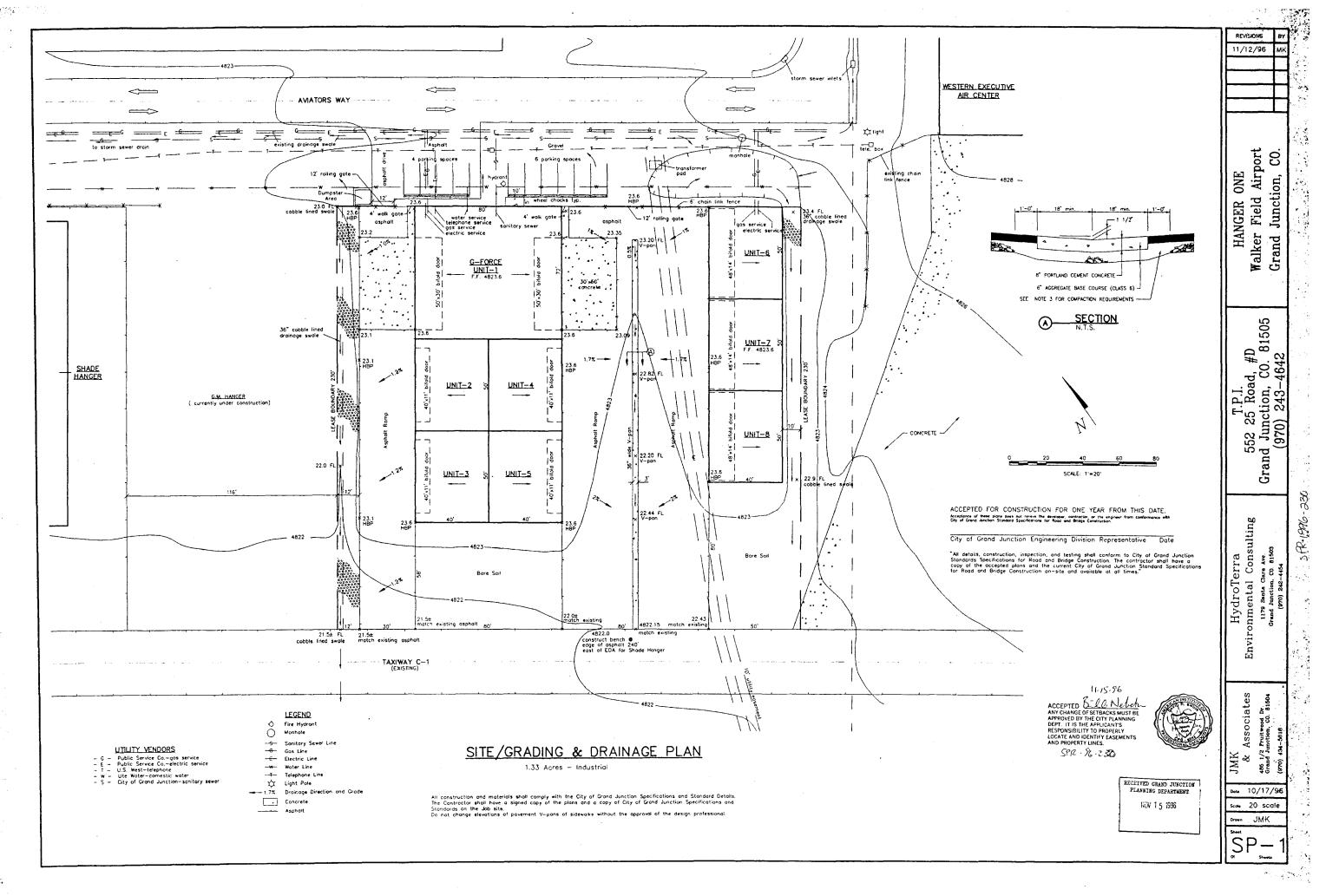
Name: 2 Airport Hangars

Staff: Bill Nebeker

Action: C of O signed 6-19-97

Comments: Improvements installed as shown on site plan

File Turned In: 6-19-97



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