Flight Procedures Cover Page	Task Action: Abbreviated Amendment	Task Type: SID	Estimated Chart Date: 03/21/2024	APWS Task ID: 6444D315522E45B0BD75C7F7997BD4E1	APWS Project ID: A7B8EF90C9634458A2CF01386C256CEF
Procedure: NIITE FOUR (RNAV) SID		**Enroute:** YES	**Specialist:** Mccartney, Michael		**Agreement Number:**
Airport ID: KSFO			**Airport City:** SAN FRANCISCO		**State:** CA
Facility ID:	**Facility Type:**	**Flight Inspection Remark Type:**			

Procedure Comments:
ABBREVIATED AMENDMENT USING ACTIVE DATA.

CLEARS NOTAM: FDC 3/8658.

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION.

CONTACT: ERIC SUSKI, AJV-A431, MANAGER, (405) 954-7331.

Digitally signed by
ERIC N SUSKI
May 23, 2024

QUALITY 20 CHECKED

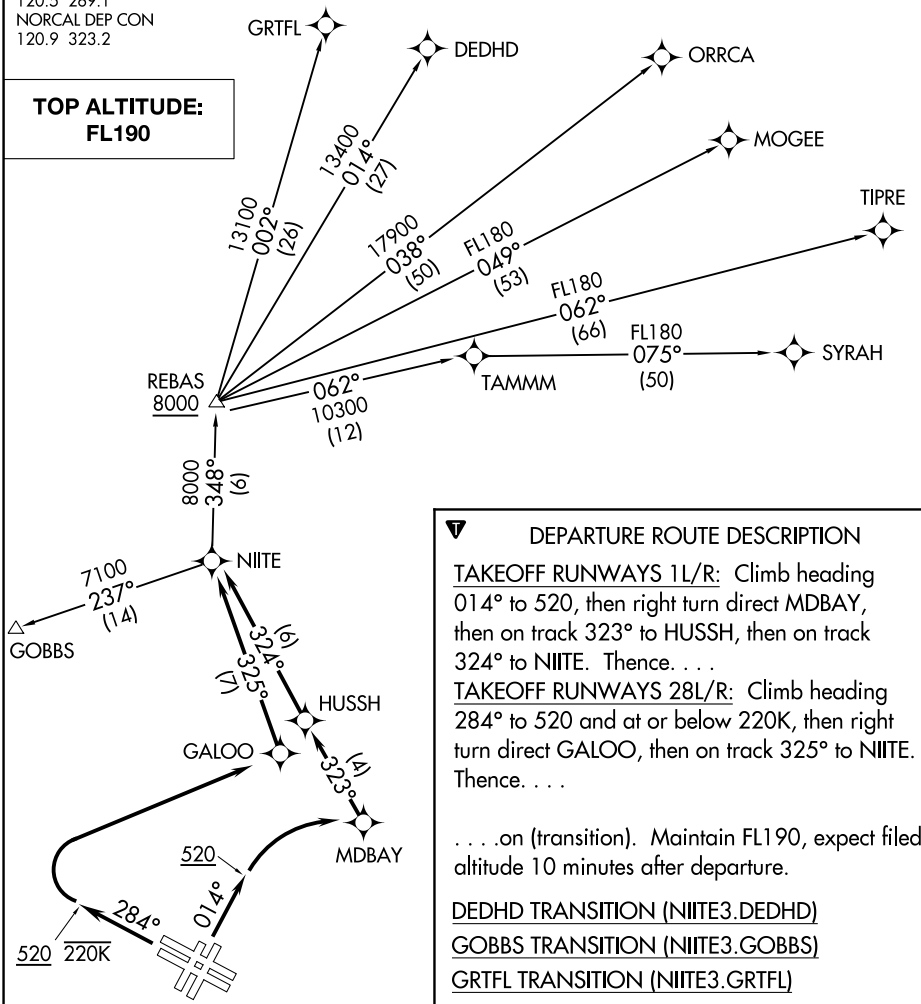
QUALITY 41 CHECKED

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

TAKEOFF MINIMUMS

Rwys 1L/R: Standard with a minimum climb of 500′ per NM to 520.
Rwy 28L: Standard with minimum climb of 535′ per NM to 2100.
Rwy 28R: Standard with minimum climb of 560′ per NM to 2100.

TOP ALTITUDE: FL190



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 520, then right turn direct MDBAY, then on track 323° to HUSSH, then on track 324° to NIITE. Thence. . . .

TAKEOFF RUNWAYS 28L/R: Climb heading 284° to 520 and at or below 220K, then right turn direct GALOO, then on track 325° to NIITE. Thence. . . .

. . . .on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (NIITE3.DEDHD)
GOBBS TRANSITION (NIITE3.GOBBS)
GRTFL TRANSITION (NIITE3.GRTFL)
MOGEE TRANSITION (NIITE3.MOGEE)
ORRCA TRANSITION (NIITE3.ORRCA)
SYRAH TRANSITION (NIITE3.SYRAH)
TIPRE TRANSITION (NIITE3.TIPRE)

Federal Aviation Administration

Memorandum

Date:

To: Manager, Production Integration Team, AJV-341

From: Manager, Flight Technologies and Procedures Division, AFS-400

Robert Ruiz
Signed By: Robert Ruiz
Thu Nov 13 2014 14:12:42 GMT-0500 (Eastern Standard Time)
SIGN HERE

Prepared by: Flight Procedure Implementation & Oversight Branch, AFS-460

Subject: Approval Request; AJV-341 Memorandum Dated 08/08/2014

Your request to utilize a climb gradient of 535 feet per Nautical Mile (NM) to 2100 for RWY 28L and 560 feet per Nautical Mile (NM) to 2100 for RWY 28R on the "NIITE ONE RNAV DEPARTURE" at San Francisco Intl, San Francisco, CA was discussed at Flight Standards' Procedure Review Board (PRB) on 09/04/2014 and is approved.

Please direct all inquiries to Danny E. Hamilton, AFS-460, at (405) 954-9359.

Attachments

cc:
AJV-341
AWP-220
AFS-400/410/420/440/460/470

Federal Aviation Administration

Memorandum

Date:

To: Bruce DeCleene, Manager, Flight Technologies and Procedures Division
THRU: Danny E. Hamilton, Manager, Flight Procedure Implementation & Oversight Branch

From: Jose Alfonso, Manager, Production Strategy and Planning Team, AJV-341

Subject: **ACTION:** Approval Request

Digitally signed by ***JOSE A ALFONSO***
Aug 08, 2014

CONCURRENCES
ROUTING SYMBOL AJV-341 LDeterman
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-351 SSzukala
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 Specialist
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 Lead
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 Manager
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 Manager
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

San Francisco Intl (KSFO) NIITE Departure Procedure, San Francisco, CA

Climb gradient exceeds 500 feet per NM, 8260.3b, Volume 4, Para 1.4.1.

The computed climb gradient for Runway 28R is 560 feet per NM.

The computed climb gradient for Runway 28L is 535 feet per NM.

The obstacle driving this climb gradient is a 1374 MSL AAO located 3.3 NM North of runway 28R DER. The obstacle driving the climb to altitude of 2100 feet is a 1569 MSL Tower 4.03 NM North of runway 28R DER.

Request approval to publish a minimum climb gradient of:

RWY 28L: STANDARD WITH MINIMUM CLIMB OF 535 FT PER NM TO 2100.

RWY 28R: STANDARD WITH MINIMUM CLIMB OF 560 FT PER NM TO 2100.

Federal Aviation Administration

Memorandum

Date:

To: Manager, Production Integration Team, AJV-341

From: Manager, Flight Technologies and Procedures Division, AFS-400

Prepared by: Flight Procedure Implementation & Oversight Branch, AFS-460

Subject: Approval Request; AJV-341 Memorandum Dated 08/08/2014

Your request to utilize a climb gradient of 535 feet per Nautical Mile (NM) to 2100 for RWY 28L and 560 feet per Nautical Mile (NM) to 2100 for RWY 28R on the "NIITE ONE RNAV DEPARTURE" at San Francisco Intl, San Francisco, CA was discussed at Flight Standards' Procedure Review Board (PRB) on 09/04/2014 and is approved.

Please direct all inquiries to Danny E. Hamilton, AFS-460, at (405) 954-9359.

Attachments

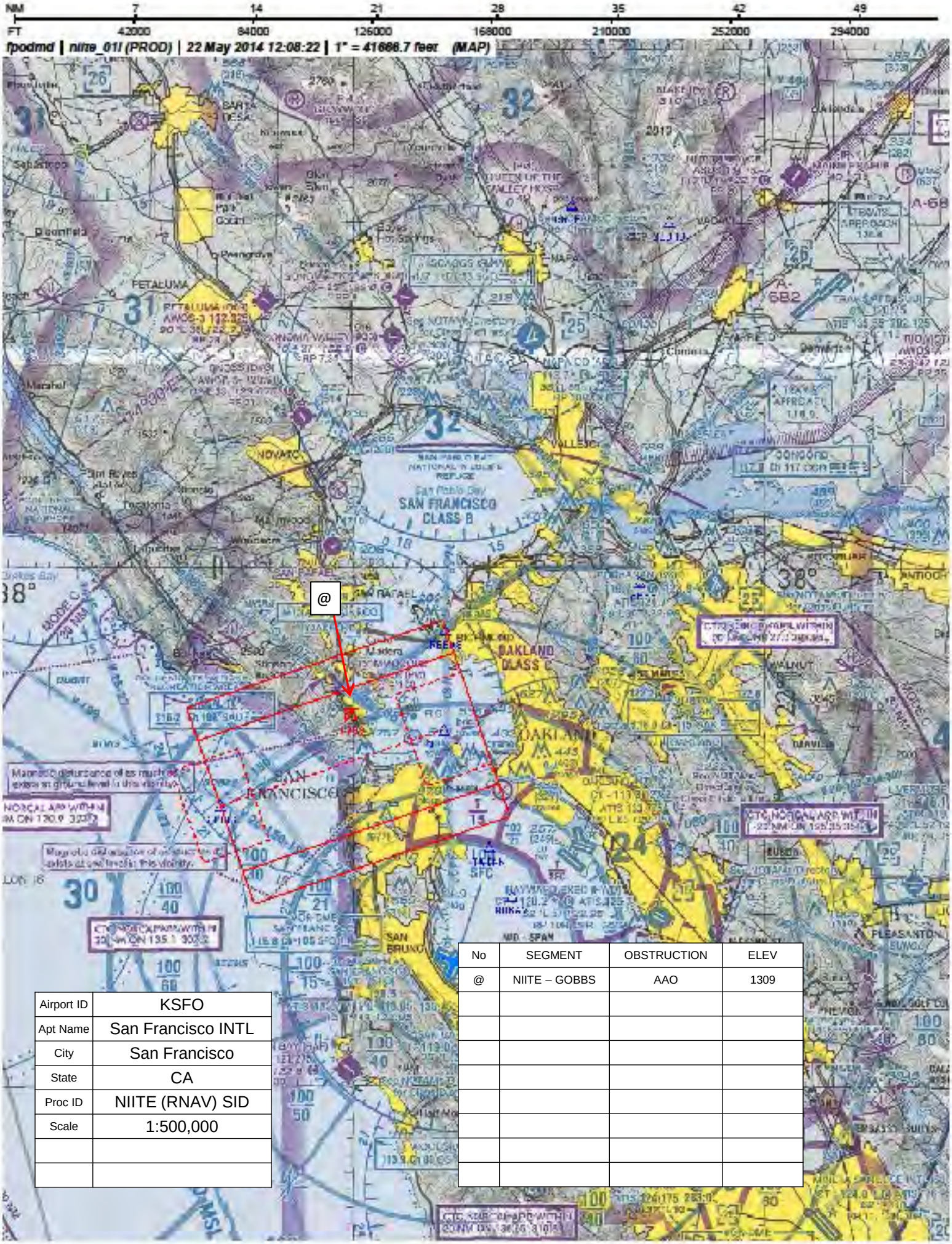
cc:
AJV-341
AWP-220
AFS-400/410/420/440/460/470

CONCURRENCES

ROUTING SYMBOL	INITIALS/SIG	DATE
AFS-420	Richard A. Dunham III Signed By: Richard A. Dunham III Wed Nov 05 2014 12:23:32 GMT-0600 (Central Standard Time)	
AFS-460	Henry C Townsend Signed By: Henry C Townsend Tue Nov 04 2014 14:20:55 GMT-0600 (Central Standard Time)	
AFS-410		
AFS-470	Mark Steinbicker Signed By: Mark Steinbicker Thu Nov 13 2014 08:28:11 GMT-0500 (Eastern Standard Time)	
AFS-400	Robert Ruiz Signed By: Robert Ruiz Thu Nov 13 2014 14:13:11 GMT-0500 (Eastern Standard Time)	

Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
&	REBAS – DEDHD	AAO	2458

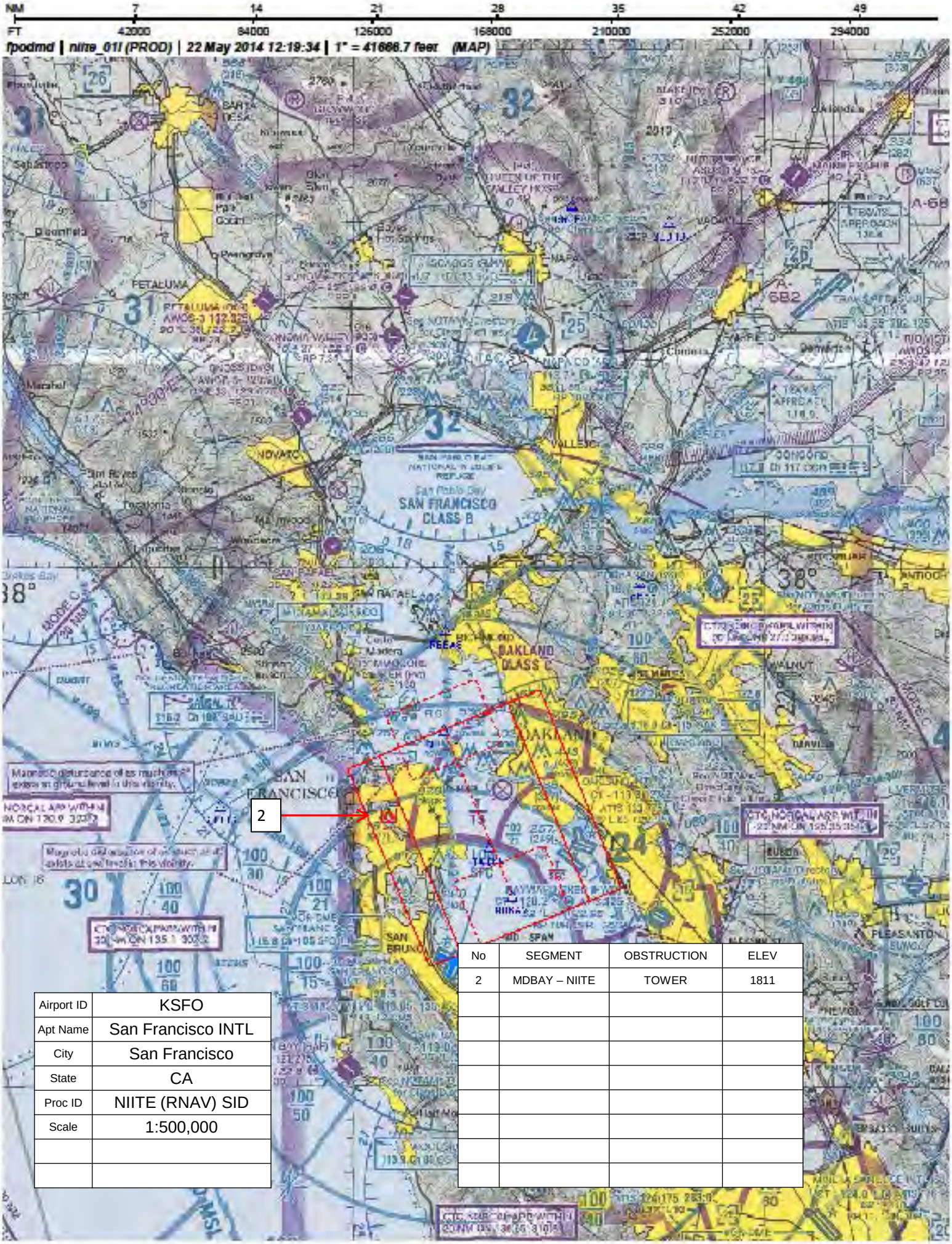


Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
@	NIITE – GOBBS	AAO	1309

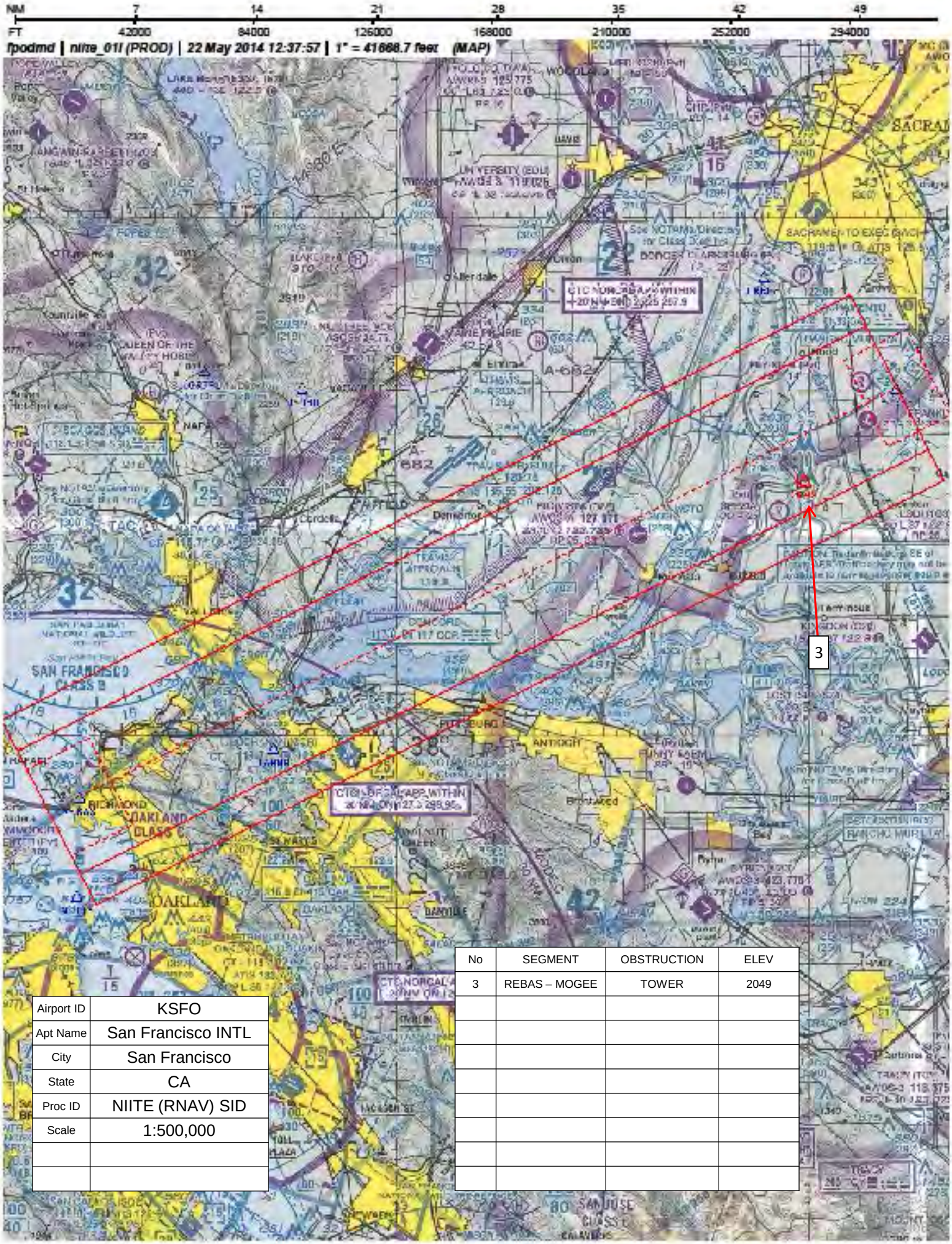
Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
7	REBAS – GRTFL	AAO	2458



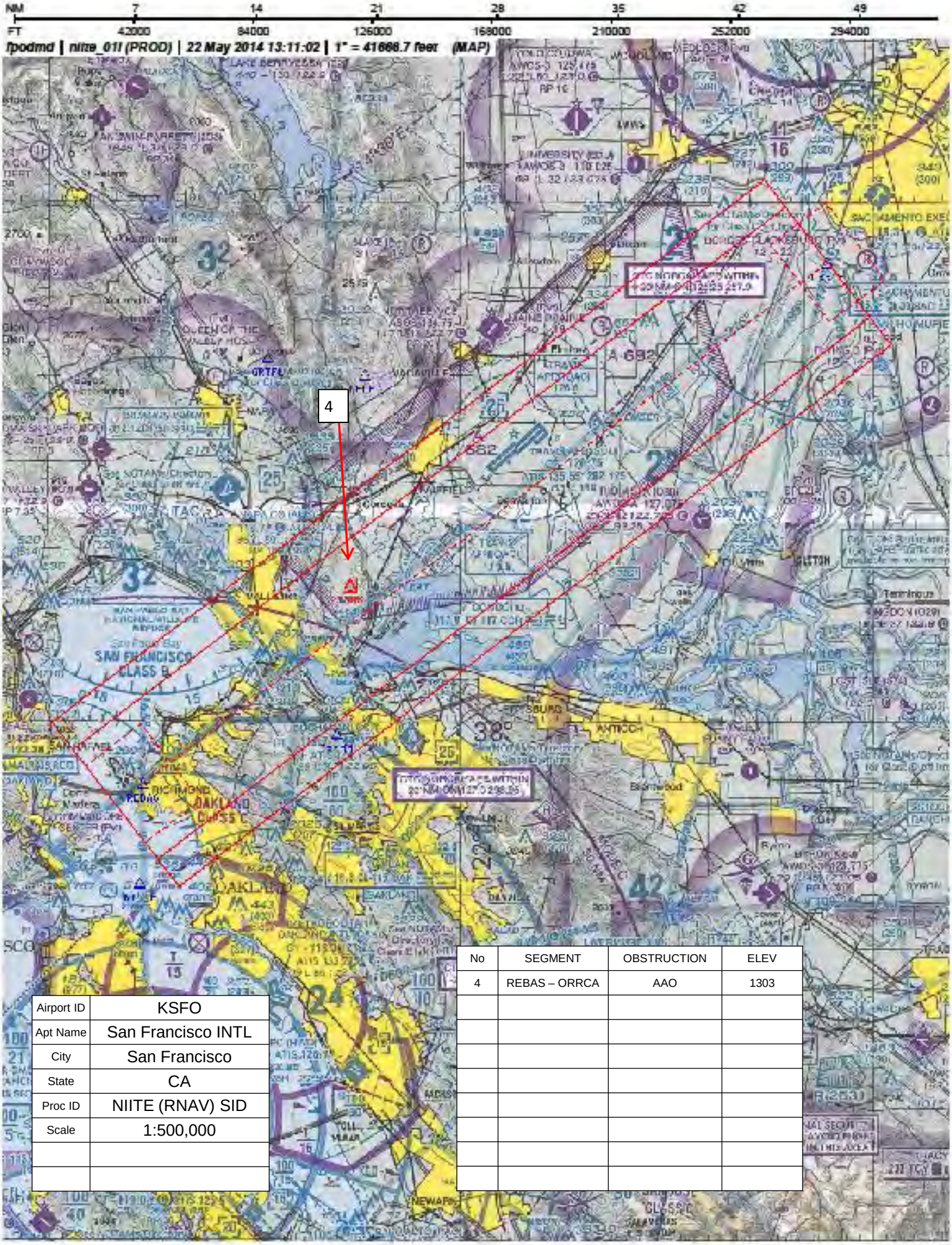
Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
2	MDBAY – NIITE	TOWER	1811



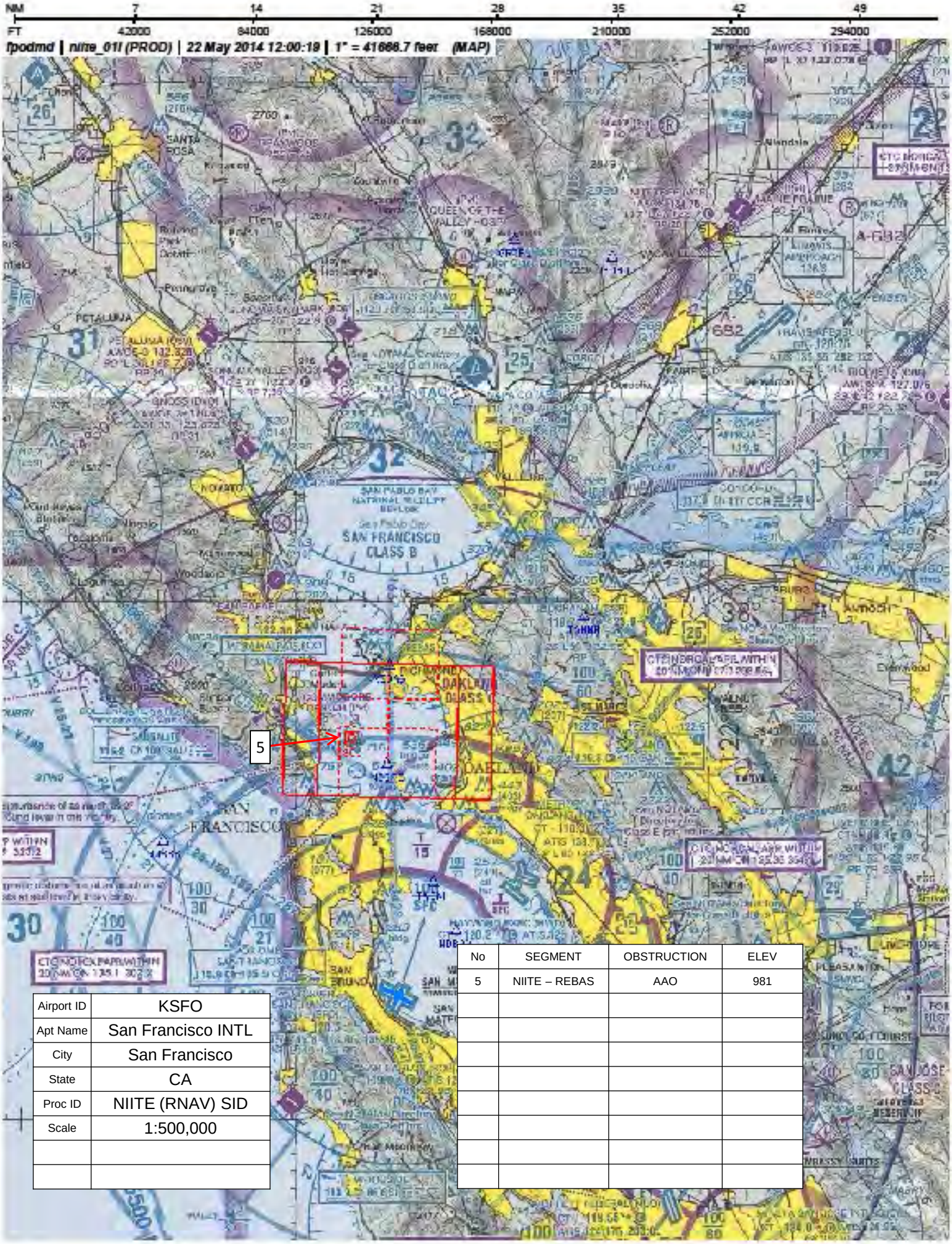
No	SEGMENT	OBSTRUCTION	ELEV
3	REBAS – MOGEE	TOWER	2049

Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000



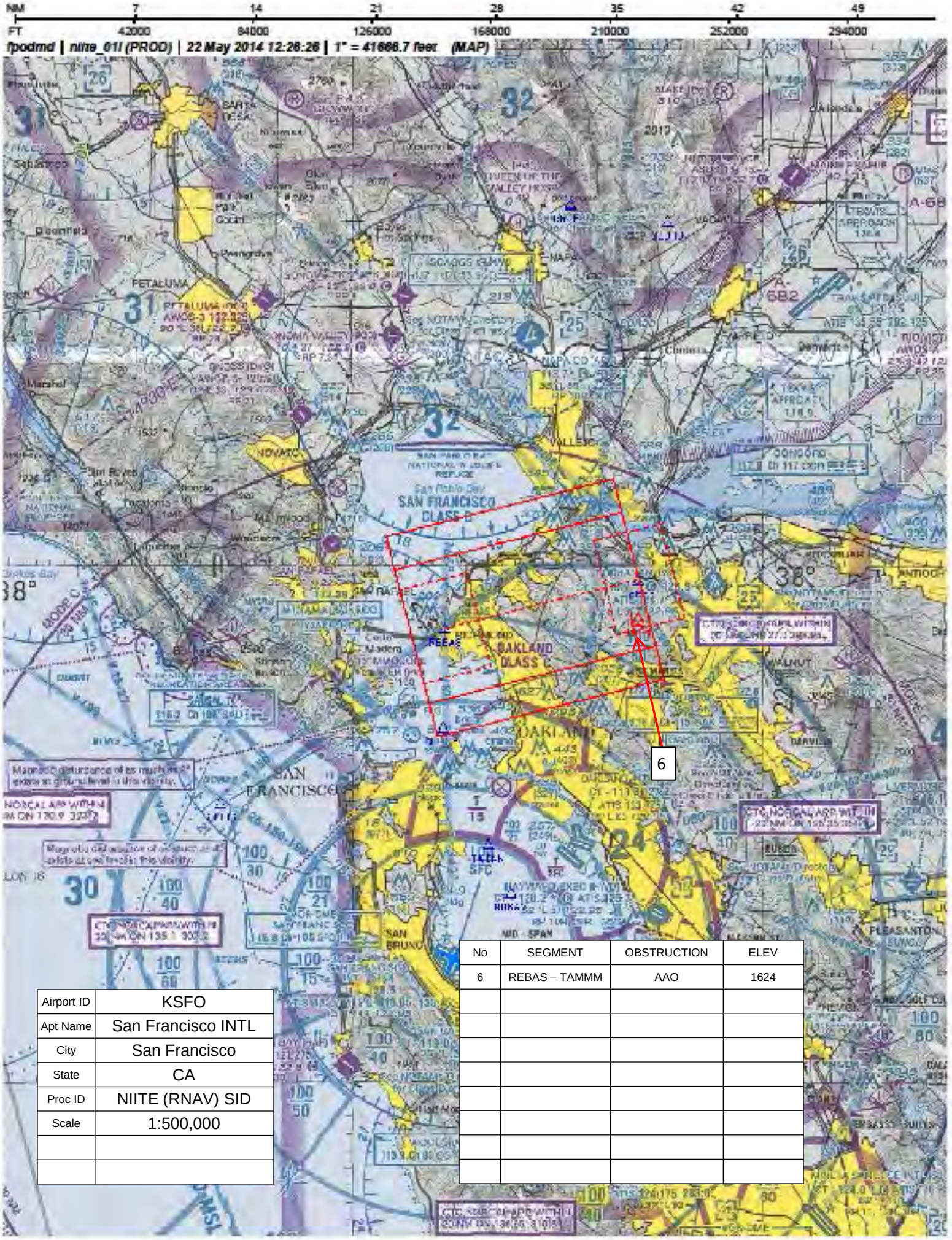
Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
4	REBAS – ORRCA	AAO	1303



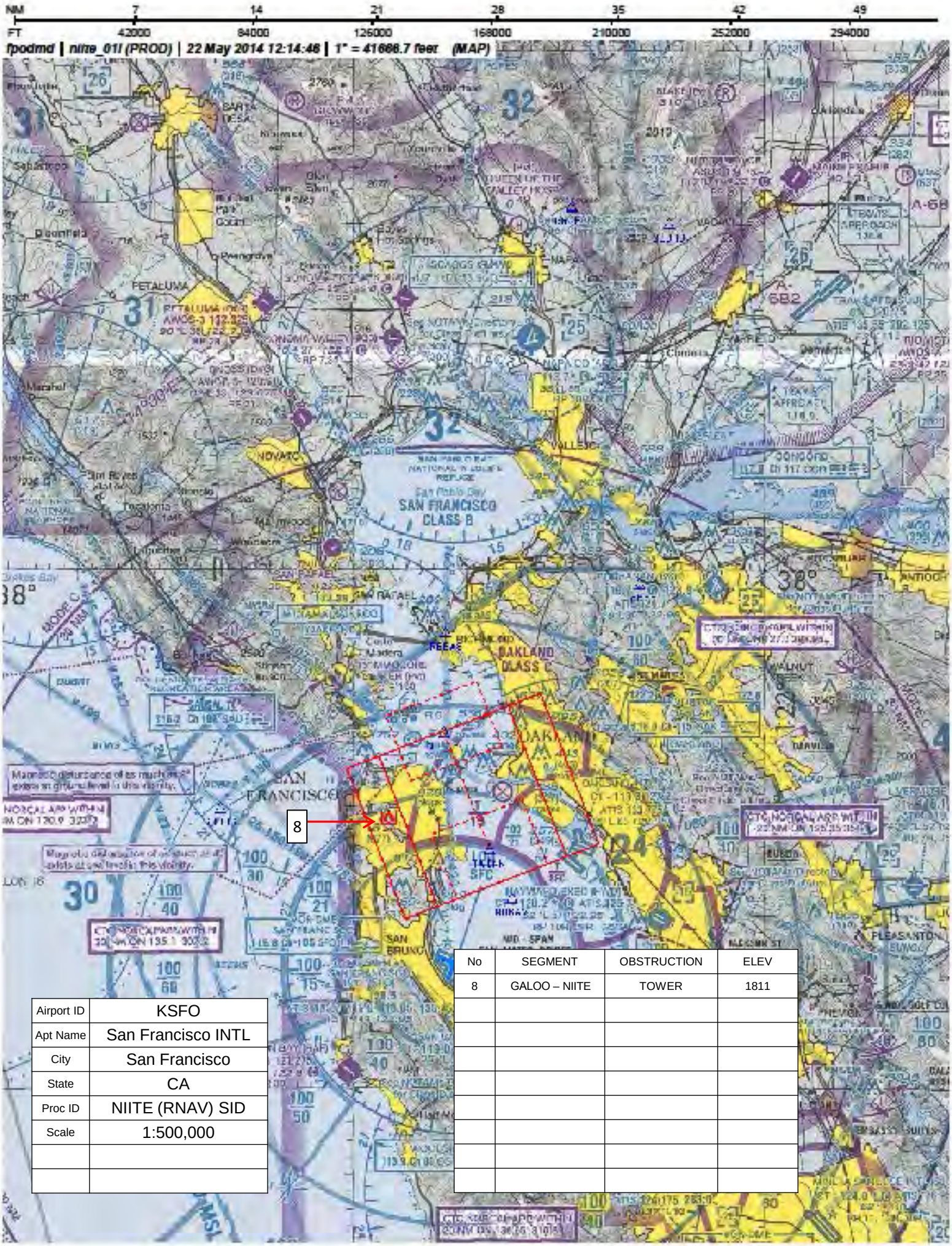
No	SEGMENT	OBSTRUCTION	ELEV
5	NIITE – REBAS	AAO	981

Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000



No	SEGMENT	OBSTRUCTION	ELEV
6	REBAS – TAMMM	AAO	1624

Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

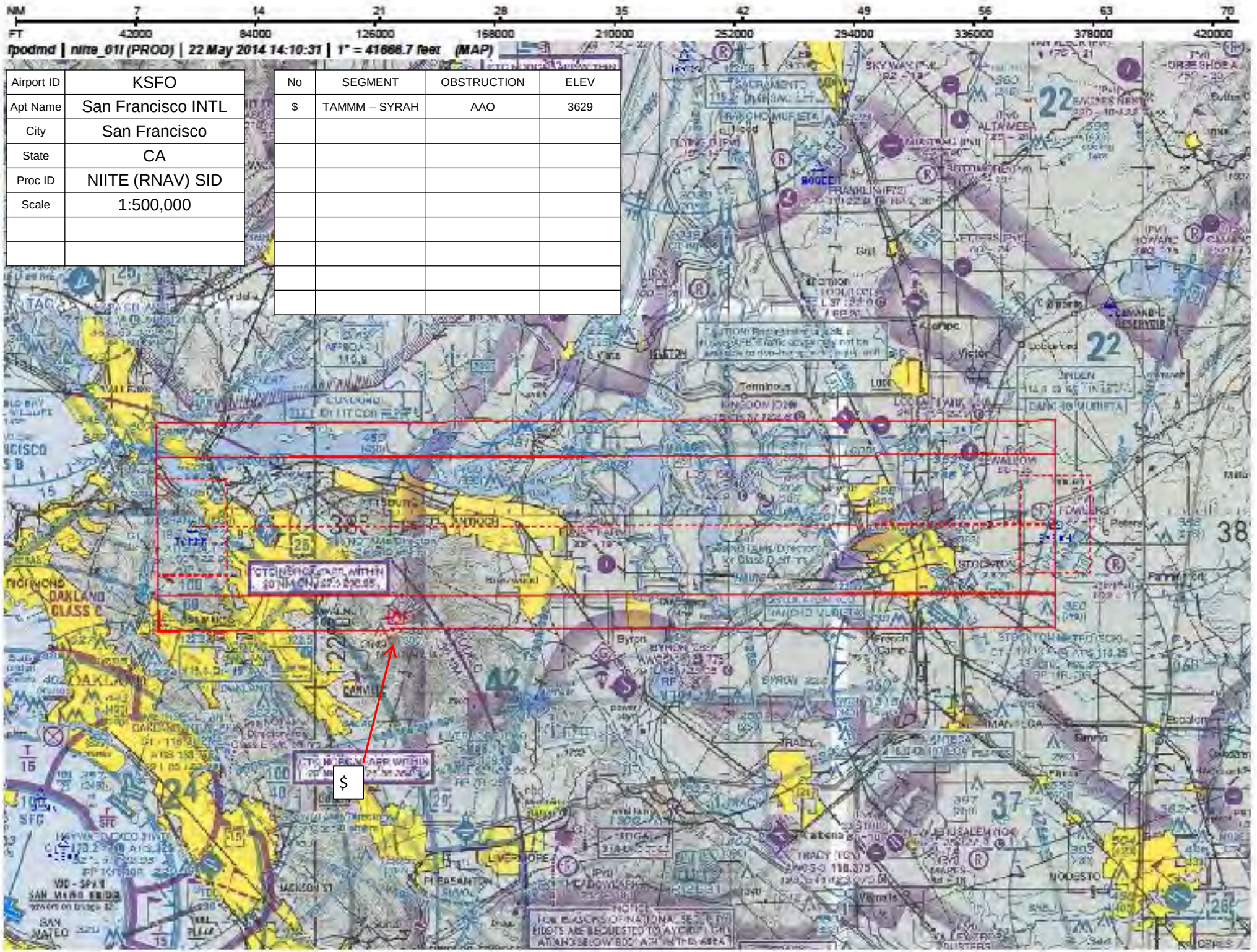


Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
8	GALOO – NIITE	TOWER	1811

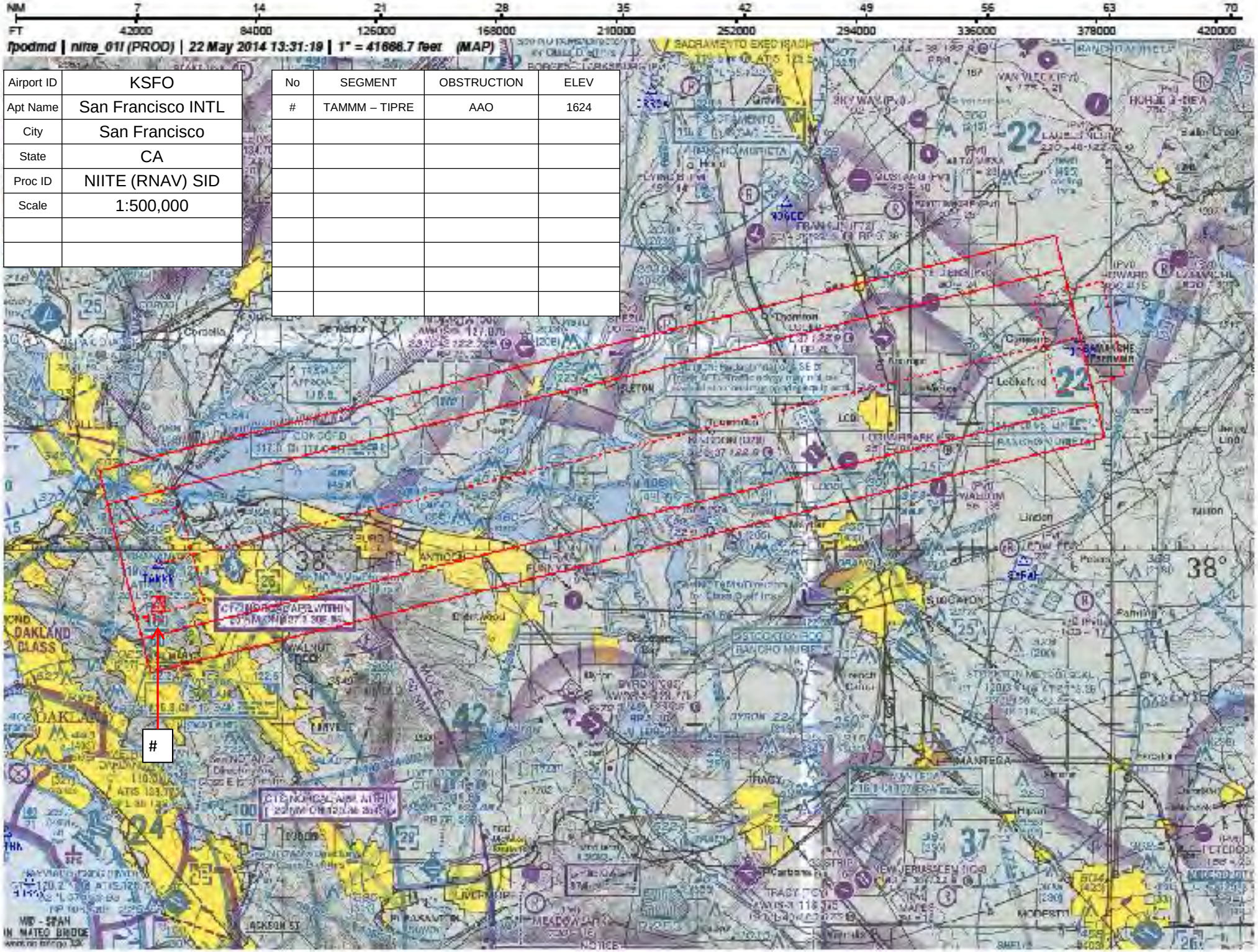
Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
$	TAMMM – SYRAH	AAO	3629



Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Proc ID	NIITE (RNAV) SID
Scale	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
#	TAMMM – TIPRE	AAO	1624

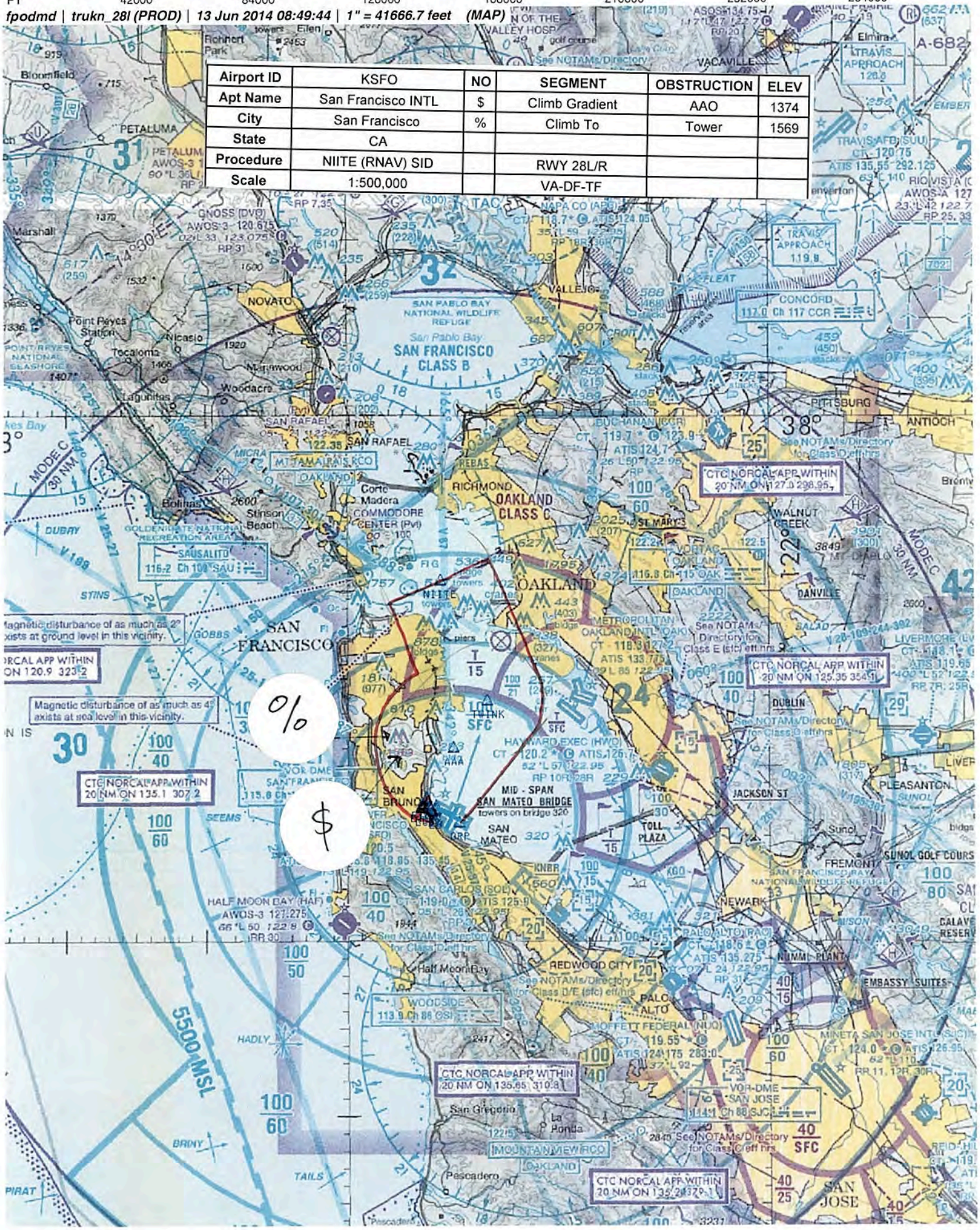


NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

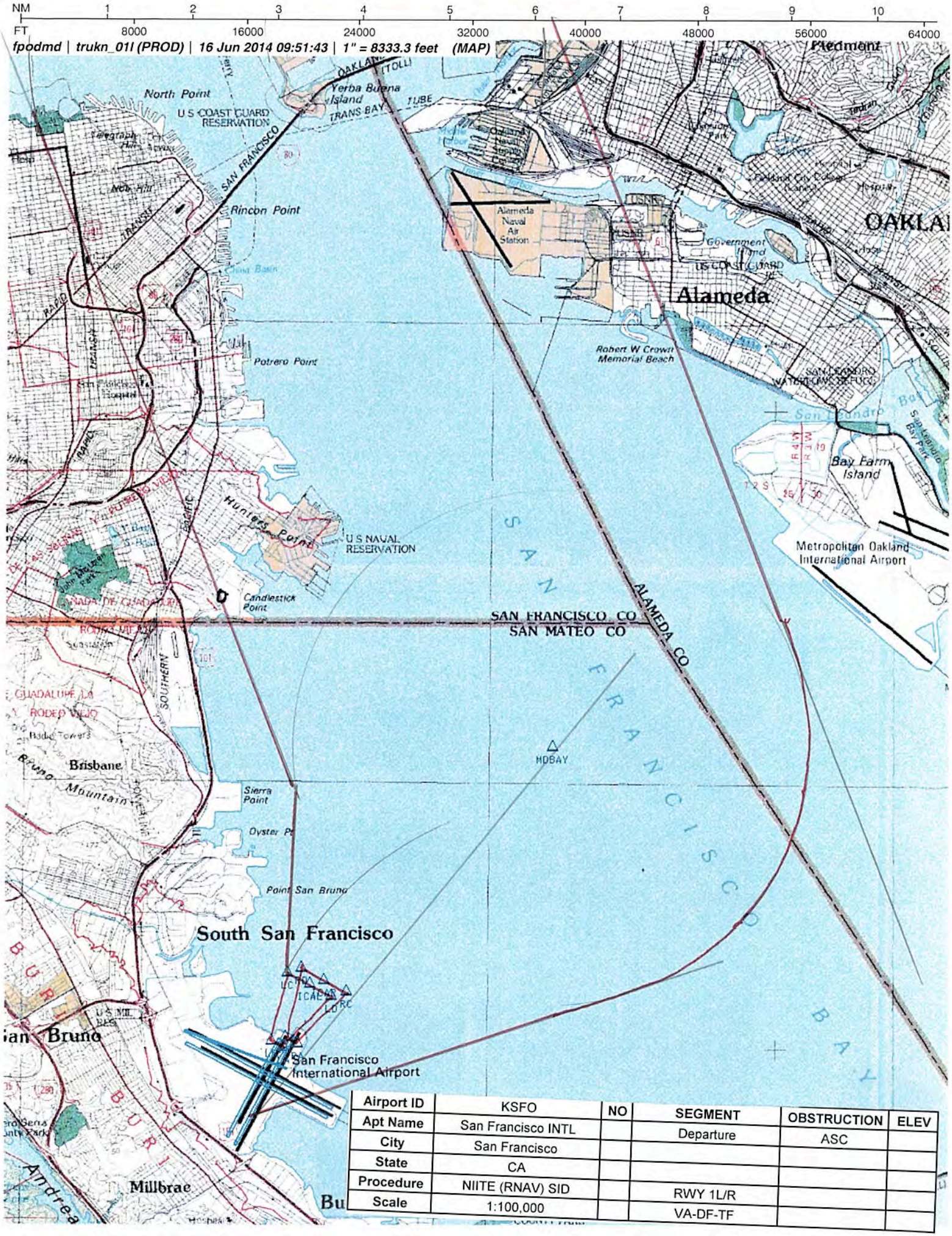
fpodmd | trukn_28l (PROD) | 13 Jun 2014 08:49:44 | 1" = 41666.7 feet (MAP)

Airport ID	KSFO	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	San Francisco INTL	$	Climb Gradient	AAO	1374
City	San Francisco	%	Climb To	Tower	1569
State	CA				
Procedure	NIITE (RNAV) SID		RWY 28L/R		
Scale	1:500,000		VA-DF-TF		



Airport ID	KSFO
Apt Name	San Francisco INTL
City	San Francisco
State	CA
Procedure	NIITE (RNAV) SID
Scale	1:100,000

NO	SEGMENT	OBSTRUCTION	ELEV
$	Climb Gradient	AAO	1374
%	Climb To	Tower	1569
	RWY 28L/R		
	VA-DF-TF		



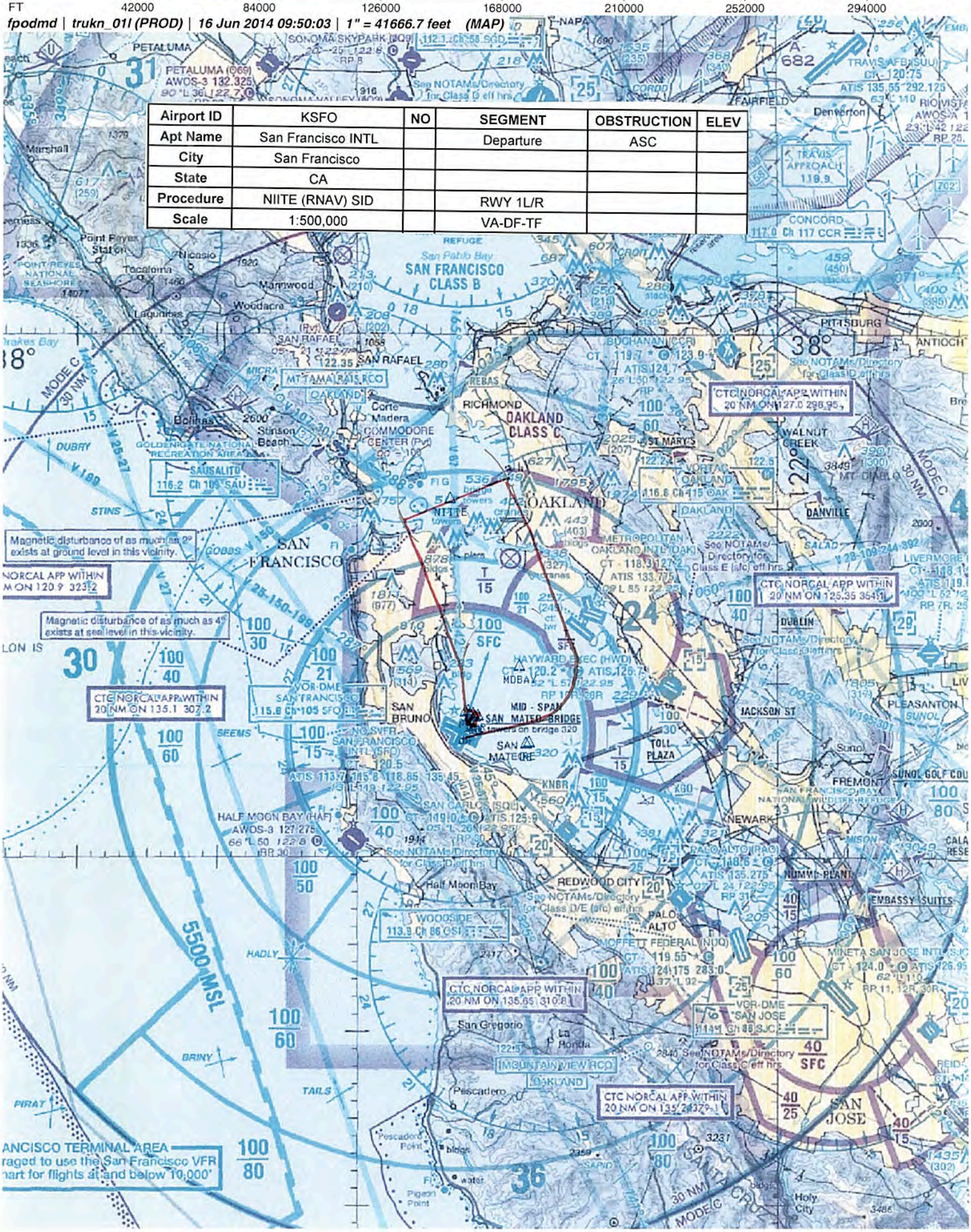
Airport ID	KSFO	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	San Francisco INTL		Departure	ASC	
City	San Francisco				
State	CA				
Procedure	NIITE (RNAV) SID		RWY 1L/R		
Scale	1:100,000		VA-DF-TF		

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodmd | trukn_01l (PROD) | 16 Jun 2014 09:50:03 | 1" = 41666.7 feet (MAP)

Airport ID	KSFO	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	San Francisco INTL		Departure	ASC	
City	San Francisco				
State	CA				
Procedure	NIITE (RNAV) SID		RWY 1L/R		
Scale	1:500,000		VA-DF-TF		

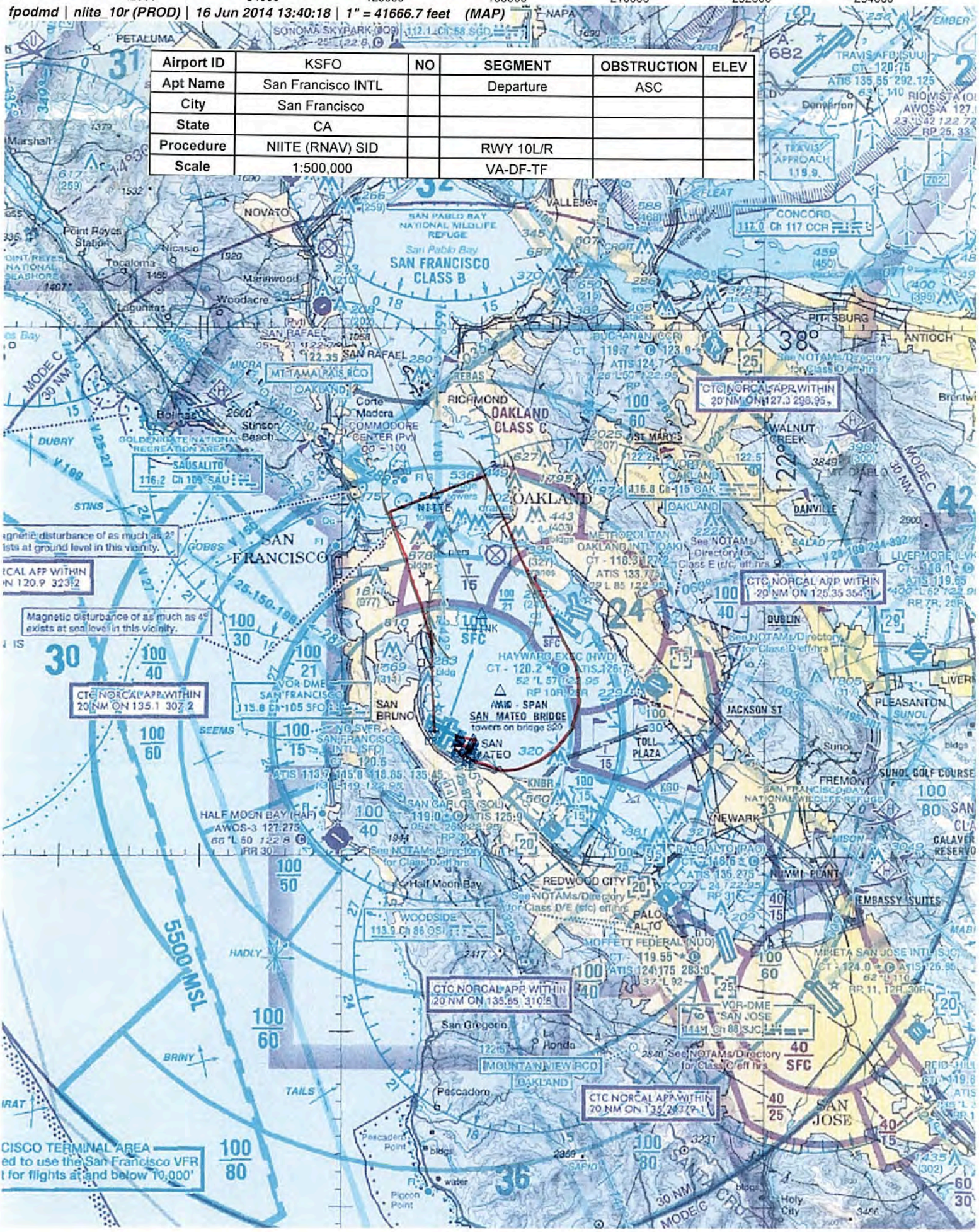

SAN FRANCISCO CLASS B
OAKLAND CLASS C
NITE
Magnetic disturbance of as much as 9° exists at ground level in this vicinity.
Magnetic disturbance of as much as 4° exists at sea level in this vicinity.
CTC NORCAL APP WITHIN 20 NM ON 135.1 307.2
CTC NORCAL APP WITHIN 20 NM ON 135.65 310.8
CTC NORCAL APP WITHIN 20 NM ON 135.25 379.1
CTC NORCAL APP WITHIN 20 NM ON 127.0 298.95
CTC NORCAL APP WITHIN 20 NM ON 125.35 354.1
NORCAL APP WITHIN 20 NM ON 120.9 323.2
5500 MSL
SAN FRANCISCO
SAN JOSE
OAKLAND
SAN BRUNO
MID - SPAN
SAN MATEO BRIDGE
HAYWARD EXEC (HWD)
HALF MOON BAY (HAF)
REDWOOD CITY
PALO ALTO
NEWARK
FREMONT
PLEASANTON
DUBLIN
DANVILLE
WALNUT CREEK
PITTSBURG
ANTIOCH
FAIRFIELD
NAPA
PETALUMA
Sausalito
Bolinas
Tiburon
Point Reyes Station
Tomales
Nicasio
Marshall
Mill Valley
San Rafael
Corte Madera
Richmond
San Leandro
Hayward
Milpitas
Los Gatos
Pescadero
Pigeon Point
Holy City
Denverton
Vacaville
Livermore
Sunol
Half Moon Bay
San Gregorio
La Honda
Woodside
Mountain View
Moffett Federal
Mineta San Jose Intl
Embassy Suites
Jackson St
Toll Plaza
Dublin
Concord
Travis AFB
Travis Approach 118.9
Sonoma Skypark
Sonoma Valley
Napa
Petaluma
Marin
Lagunitas
Woodacre
Manzanita
Stinson Beach
Golden Gate National Recreation Area
Point Reyes National Seashore
Drakes Bay
San Pablo Bay
Mode C 30 NM
Dubry
Stins
Gobs
Seems
Hadly
Briny
Tails
Pirat
Mica
Rebas
Fig
Knbr
Ccr
Sau
Oak
Sfo
Sjc
Hwd
Mdba
Haf
Sqc
Nuq
Osi
Mtc
Rcd
Rcc
Sgd
Cordd
Fairfield
Napa
Petaluma
Marshall
Point Reyes Station
Tomales
Nicasio

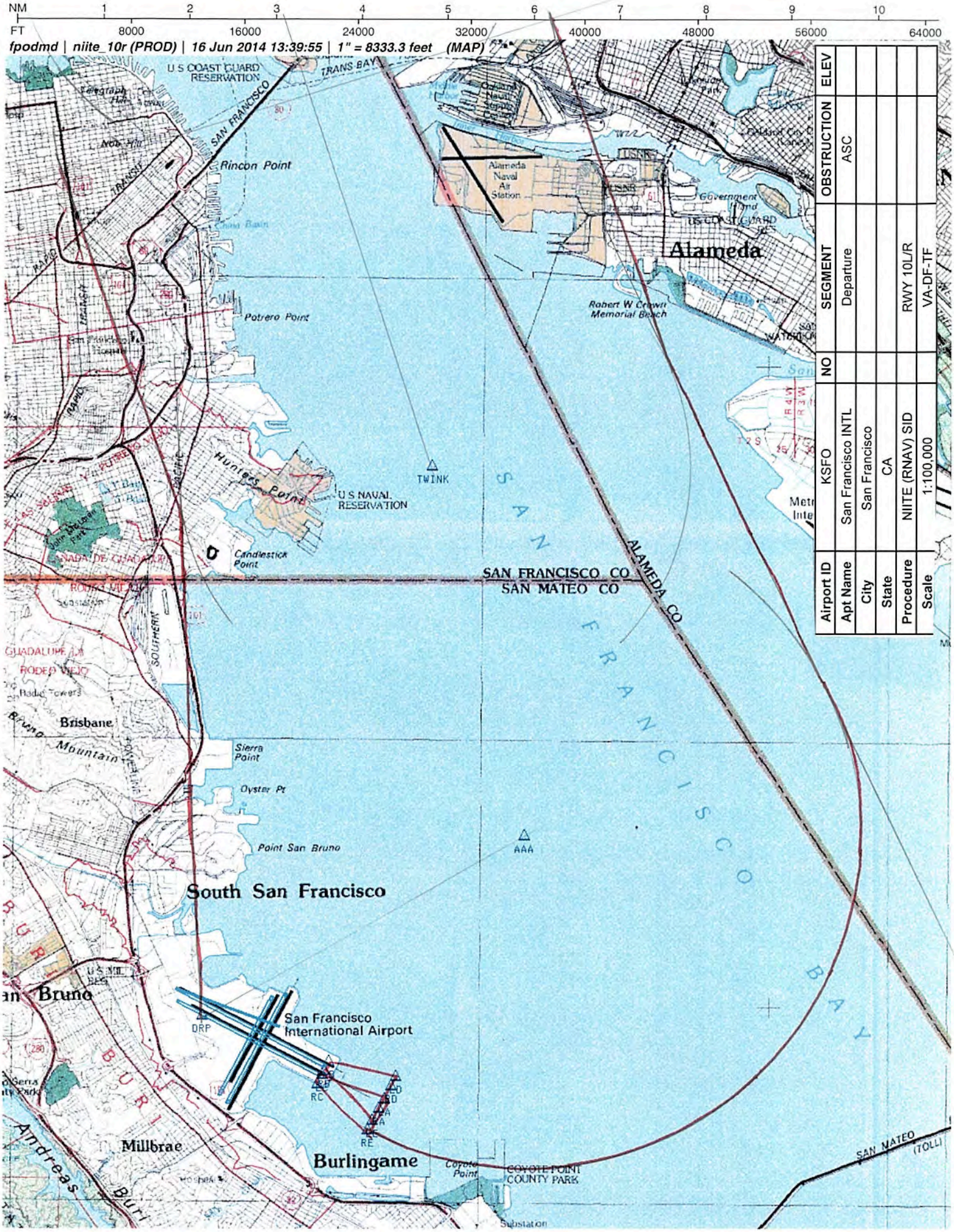
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodmd | niite_10r (PROD) | 16 Jun 2014 13:40:18 | 1" = 41666.7 feet (MAP)

Airport ID	KSFO	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	San Francisco INTL		Departure	ASC	
City	San Francisco				
State	CA				
Procedure	NIITE (RNAV) SID		RWY 10L/R		
Scale	1:500,000		VA-DF-TF		





Airport ID	KSFO	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	San Francisco INTL		Departure	ASC	
City	San Francisco				
State	CA				
Procedure	NIITE (RNAV) SID		RWY 10L/R		
Scale	1:100,000		VA-DF-TF		

Periodic Review

Kelly J. Carlson
08-21-23

SAN FRANCISCO INTL AIRPORT
SAN FRANCISCO, CA (KSFO)

NIITE THREE _RNAV_

Review Type: FULL

PR completed due to:

Summary/Findings

1. Airport name, Location, and ID correct: YES
2. IFP Name & AMDT # correct: YES
3. PR completed: FULL
4. Current forms are in Active Procedure Folder: YES
5. TPP chart accurately reflects 8260 source documents: YES
6. Are waivers or approval letters on 8260 source documents active: YES
7. Verified all active NOTAMs are valid and have current AMDT #: RWY 28L/R CG EXCEEDS 500 FT PR NM; AFS APPROVAL DOCUMENTATION IN SWIMS AND ADDED TO CURRENT S-FILE
8. If a legacy IFP, checked for NAVAID NTMs & restrictions that impact IFP: N/A
9. Verified AIRNAV data supports IFP as published: YES
10. Was APR used: NO, MANUAL BUILD COMPLETED
11. NOTAM & Amendment Required: YES, ADD “RWY 10L/R, 19L/R: NA - ATC” TO THE TAKEOFF MINIMUMS IAW 8260.46J APPENDIX E 2(H)(1)
12. MAGVAR status: Airport and NAVAID MAGVAR tables are maintained by Aeronautical Information Services and provided to the OSG-FPT offices for work scheduling at their discretion
13. Nonsafety-related items will be resolved during next amendment: UPDATE TAKEOFF OBSTACLE NOTES FOR RWYS 28L/R
14. Other pertinent findings: UPDATE ALL FORMS TO CURRENT CRITERIA AT NEXT PROCEDURE AMENDMENT
15: TARGETS errors: RDO33: [Waiver Required] The leg from NIITE to REBAS is 5.72... NM where the Minimum Leg Length is 6.23... NM.

Actions/Notes

Review Type: FULL

NOTAM:
!FDC 3/8658 SFO SID SAN FRANCISCO INTL, SAN FRANCISCO, CA.
NIITE THREE DEPARTURE (RNAV)...
CHANGE TAKEOFF MINIMUMS TO ADD: RWY 10L/R, 19L/R: NA - ATC.
ALL OTHER DATA REMAINS AS PUBLISHED. 2308212015-2508212015EST

Review Type: FULL

Periodic Review

George H. Trammell
08-06-19

SAN FRANCISCO INTL AIRPORT
SAN FRANCISCO, CA (KSFO)

NIITE THREE _RNAV_

Summary/Findings

NO SAFETY OF FLIGHT PROBLEMS FOUND.
RNAV SID IS GOOD AS PUBLISHED.
MAGVAR CHECKED AND WITHIN TOLERANCE: APT (2015 E14 TO 2020 E13 VAR 1)
NSG 1, QUALIFICATIONS VERIFIED.

Actions/Notes

NONE REQUIRED.

FIPC DME/DME FORM

PROCEDURE:	AIRPORT NAME:	AIRPORT ID:	SPECIAL CONTROL NO:
SID,NIITE (RNAV),THREE,SAN FRANCISCO,CA,KSFO,!	SAN FRANCISCO INTL	KSFO	SG-05-074-15

FAC ID: NIITE3	CITY: SAN FRANCISCO	ST: CA	ORIG CHART DATE: 08/20/2015

DFL TYPE:	THIRD PARTY:	EST. TIME ON SITE:	REIMB. NUMBER:	PTS TASK ID:
PROC/D	☐ YES	0.8		2011090127072449001

PREFLIGHT NOTES

REVIEWER:	DATE:
COMMENTS:	CHECK ONE: ☐ FLT CK REQ ☐ NFCR ☐ REJECT

	YES	NO
CPV COMPLETE?		X

PROCEDURE RESULTS

INSPECTION DATE:	CREW #:	N #:	INSTRUMENT PROCEDURE STATUS:	ARINC CODING:
05/19/2015	VN888		☐ SAT ☐ SAT W/CHANGES ☒ UNSAT	☐ SAT ☐ SAT/GOLD ☐ UNSAT

FLIGHT INSPECTOR SIGNATURE:	PRINTED NAME:	NOTAM INITIATED?
elizabeth whaley @ 05/20/2015 12:42	AVN, CREWMEMBER 1	☐ YES ☒ NO

FLIGHT INSPECTOR REMARKS:
No .ari file included

DME/DME STATUS:	SPECIALIST SIGNATURE:	PRINTED NAME:
☐ SAT ☐ UNSAT		

SPECIALIST REMARKS:

IN-FLIGHT OBSTACLE REPORT

OBSTRUCTION ID #:	COORDINATES OR LOCATION:	GNSS ALTITUDE (MSL):	BAROMETRIC ALTITUDE (MSL):	HEIGHT ABOVE GROUND LEVEL:

Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 02/10/2015	Task #: 2011090127072449001	Request #: 20110901270724
Procedure: SID NIITE (RNAV) THREE SAN FRANCISCO CA KSFO		Airport ID: KSFO	Airport: SAN FRANCISCO INTL		Reimbursable #:
City: SAN FRANCISCO	ST: CA	GPS #:		Estimated Chart Date: 08/20/2015	FICO #:
Fac ID:	Fac. Type:		Specialist: SCOTT STEVENSON		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:				QUALITY 3 CHECKED
QA:				
Liaison:				

APPROVED
By eugene j newton at 2:05 pm, Mar 31, 2015

Procedure Comments: ENROUTE

Remark Type: INFORMATION

REQUEST TABLE TOP ENROUTE

RNAV PRO NOT REQUIRED.
CONTACT: LONNIE EVERHART/JILL OLSON; AJV-354 LEAD/MGR; 405-954-4579/0414.

QUALITY 15 CHECKED

FIPC BASIC FORM

PROCEDURE:	AIRPORT NAME:	AIRPORT ID:	SPECIAL CONTROL NO:
SID,NIITE (RNAV),THREE,SAN FRANCISCO,CA,KSFO,!	SAN FRANCISCO INTL	KSFO	SG-05-210-15

FAC ID: NIITE3	CITY: SAN FRANCISCO	ST: CA	ORIG CHART DATE: 08/20/2015

DFL TYPE:	THIRD PARTY:	EST. TIME ON SITE:	REIMB. NUMBER:	PTS TASK ID:
PROC/B	☐ YES	0.5		2011090127072457003

PREFLIGHT NOTES

REVIEWER: tony bamsey	DATE: 06/04/2015
COMMENTS:	CHECK ONE: ☐ FLT CK REQ ☒ NFCR ☐ REJECT

	YES	NO
CPV COMPLETE?	X	

PROCEDURE RESULTS

INSPECTION DATE:	CREW #:	N #:	INSTRUMENT PROCEDURE STATUS:	ARINC CODING:
06/04/2015	VN307		☒ SAT ☐ SAT W/CHANGES ☐ UNSAT	☐ SAT ☒ SAT/GOLD ☐ UNSAT

FLIGHT INSPECTOR SIGNATURE:	PRINTED NAME:	NOTAM INITIATED?
tony bamsey @ 06/04/2015 10:56	BAMSEY, ANTHONY ERIC	☐ YES ☒ NO

FLIGHT INSPECTOR REMARKS:

IN-FLIGHT OBSTACLE REPORT

OBSTRUCTION ID #:	COORDINATES OR LOCATION:	GNSS ALTITUDE (MSL):	BAROMETRIC ALTITUDE (MSL):	HEIGHT ABOVE GROUND LEVEL: