SURVEY AND QUALITY CONTROL PLAN
FAA ADVISORY CIRCULAR 150/5300-16A

AIRPORT NAME: Suffolk Executive Airport
LOCATION: SUFFOLK, VA
AIRPORT IDENTIFIER: SFQ
SURVEY SPECIFICATIONS: FAA ADVISORY CIRCULAR 150/5300-16A
SUBMITTER: NATIONAL GEODETIC SURVEY

PROJECT SUMMARY:
To establish permanent geodetic control located on the Suffolk Executive Airport and designate PACS/SACS by tying to the NSRS.

AIRPORT SUMMARY REPORT:
Airport Point of Contact: Kent Marshall, Airport Manager 757-514-4411
Airport Controlled?: No
Escort Required?: No
Radio Frequencies: CTAF:122.7
The PACS and both SACS are all intervisible with each other.

RECONNAISSANCE:
The following survey and quality control plan is based on the findings of a reconnaissance mission conducted on 12-15-2008.

STATION NAME	PID	TYPE	AGENCY	HORIZ ORDER	VERT ORDER	STABILITY	CONDITION AT RECOVERY	COMMENTS
SFQ A (Proposed)	N/A	PACS	NGS			B	TO BE SET	SS ROD MARK
SFQ B (Proposed)	N/A	SACS	NGS			C	TO BE SET	DISK IN CONCRETE MONUMENT
J 324 RESET 1983 (Proposed)	FX2636		NGS	3	3?	C	GOOD	EXISTING BENCH MARK
PASCALE	FX4376	CBN	NGS	B	3	C	GOOD	HARN TIE
F 468	FX2236		NGS		1	B	GOOD	BM TIE
G 468	FX2233		NGS		1	B	GOOD	BM TIE
WEATHER	DG9068		NGS	B	1	C	GOOD	BM TIE* (>25KM)
VA GLOUCESTER PT CORS ARP	DJ5202	CORS	NGS	CORS	CORS			CORS TIE

* An additional receiver will be utilized for data collection as a supplemental bench mark tie.

PROPOSED SURVEY PLAN:
We will set new monumentation SFQ A as a PACS and SFQ B as a SACS. In addition we will establish J324 RESET 1983 as the additional SACS. SFQ A will be a stainless steel rod mark. SFQ B will be a bench mark disk set in top of a concrete monument. Each mark will be constructed to the specifications of FAA Advisory Circular 150/5300-16A.

Positions for the PACS/SACS will be established according to the specifications of FAA Advisory Circular 150/5300-16A.

FIELD SURVEY METHODS:

GPS Observation Scheme (UTC):

Day 1
1400-2100 – Observe proposed PACS – SFQ A (1st CORS Tie)
1400-2100 – Observe PASCALE – (HARN Tie)
1400-1600 – Observe proposed SACS – SFQ B (1st SACS-SFQ B Tie)
1400-1600 – Observe proposed SACS – J 324 RESET 1983 (1st SACS – J 324 RESET 1983Tie)
1700-2100 – Observe benchmark F 468 (1st Benchmark F 468 Tie)
1700-2100 – Observe benchmark G468 (1st Benchmark G468 Tie)
1700-2100 – Observe benchmark WEATHER (backup benchmark tie)

Day 2
1630-2030 – Observe proposed PACS – SFQ A (2nd CORS Tie)
1700-1900 – Observe proposed SACS – SFQ B (2nd SACS – SFQ B Tie)
1700-1900 – Observe proposed SACS – J324 RESET 1983 (2nd SACS – J 324 RESET 1983 Tie)

Session duration is fixed, start and end times are approximate depending on travel times, dates of survey, satellite status, weather conditions, airport logistics, etc.

Equipment:
We will be using Trimble R8 GNSS dual frequency, survey grade GPS receivers for performing the GPS observations on the survey detailed above. Each receiver has been updated to the latest firmware version (V3.82).

Manufacturer/Brand	Model Number	Serial Number
TRIMBLE	R8_GNSS	4639122441
TRIMBLE	R8_GNSS	4631120628
TRIMBLE	R8_GNSS	4639122509
TRIMBLE	R8_GNSS	4639122468
TRIMBLE	R8_GNSS	4631120635

Photos and Forms:
Digital photographs will be taken, formatted and named as required by the AC and will be provided in the final project submission.

Standard FAA GPS Observation logs will be completed for each occupation of a station. A digital scan of these forms will be included in the final project submission.

OFFICE SURVEY METHODS:

All data processing will be done using the latest version of PAGE-NT, ADJUST and UTILITIES, GEOID, and WINDESC available from the NGS website. The NGS website will be visited and required software downloaded and installed just prior to the processing of the data.

All final data and the Final Report as detailed in the AC will be generated and processed by NGS.

QUALITY CONTROL MEASURES

Field:
Fixed height tripods will be checked for good working order and bubble levels will be calibrated prior to movement to the field.

Tripods will be checked for plumb at start, during and end of each observing session.

Tripods will be secured with sand bags if conditions warrant.

Internal storage for static observations will be emptied from receivers to prevent overcapacity and potential loss of data prior to movement to the field.

Standard FAA GPS observation log sheets will be completed for each occupation of a station.

Field forms will be checked for accuracy and completeness and all manual computations will be checked and initialed. Manual data computer entries will be checked. Final project data will be submitted in NGS Bluebook format or in the appropriate format specified in the AC-16A. The check of file formats of deliverable B-file, G-file and D-file will be achieved through comprehensive review of the files and by utilizing NGS bluebook file checking programs and WINDESC program checking tools. All reports and deliverable data will be checked for accuracy and completeness.

Office:
All field measurements will be downloaded daily from the data collector (internal R8 static storage) to a field computer.

A backup copy of the downloaded data will be placed on the office server.

Field measurements recorded on the observation forms such as antenna height and station name will be checked against data retrieved from the data collector (internal R8 static storage).

Raw data will be archived and a copy of that data will be used for processing and adjustment.

Reconnaisance Photos

RE-IYS_A-3N-06MAY2010.JPG
960x720 91 KB

RE-IYS_A-3SW-06MAY2010.JPG
960x720 99 KB

RE-IYS_B-3NE-06MAY2010.JPG
960x720 78 KB

RE-IYS_B-3NW-06MAY2010.JPG
960x720 83 KB

RE-IYS_C-3NW-06MAY2010.JPG
960x720 100 KB

RE-IYS_C-3SE-06MAY2010.JPG
960x720 68 KB

J 324 RESET, FX2636, SFQ, 1, SACS, 16JUL2009

J 324 RESET, FX2636, SFQ, 2, SACS, 16JUL2009


J 324 RESET, FX2636, SFQ, 3W, SACS, 16JUL2009

PASCALE, FX4376, 1, CBN, 16JUL2009

PASCALE, FX4376, 2, CBN, 16JUL2009


PASCALE, FX4376, 3N, CBN, 16JUL2009

F 468, FX2236, 1, 16JUL2009

F 468, FX2236, 2, 16JUL2009


F 468, FX2236, 3N, 16JUL2009

G 468, FX2233, 1, 16JUL2009

G 468, FX2233, 2, 16JUL2009


G 468, FX2233, 3NW, 16JUL2009

WEATHER, DG9068, 1, 24JUN2009

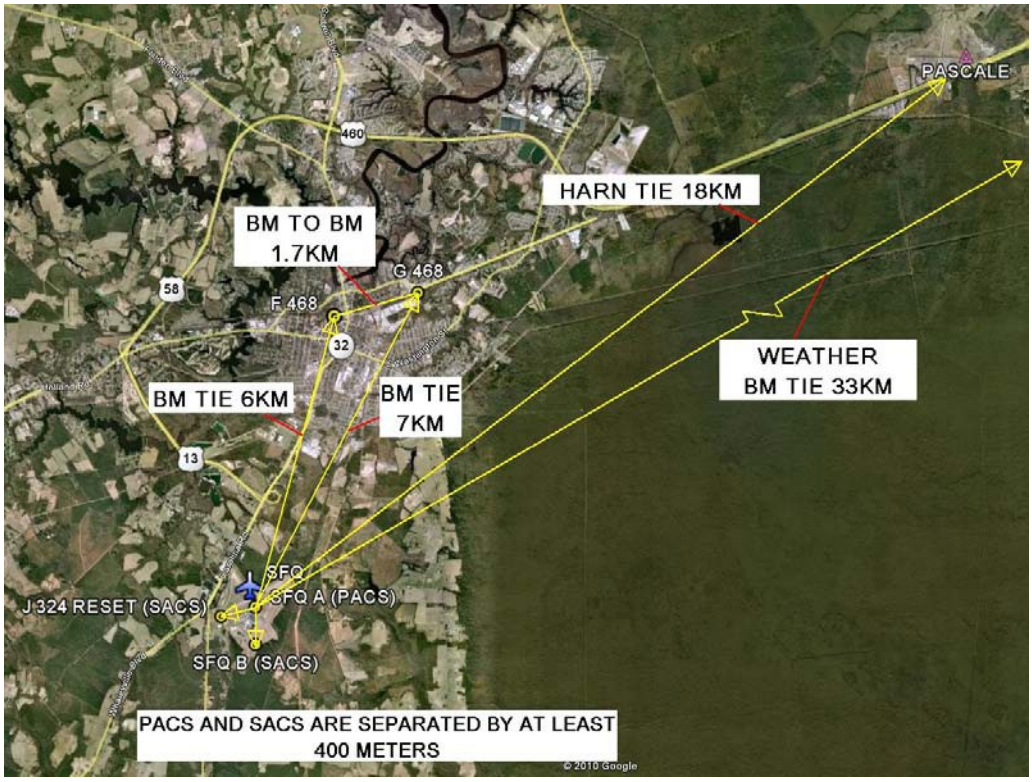
WEATHER, DG9068, 2, 24JUN2009

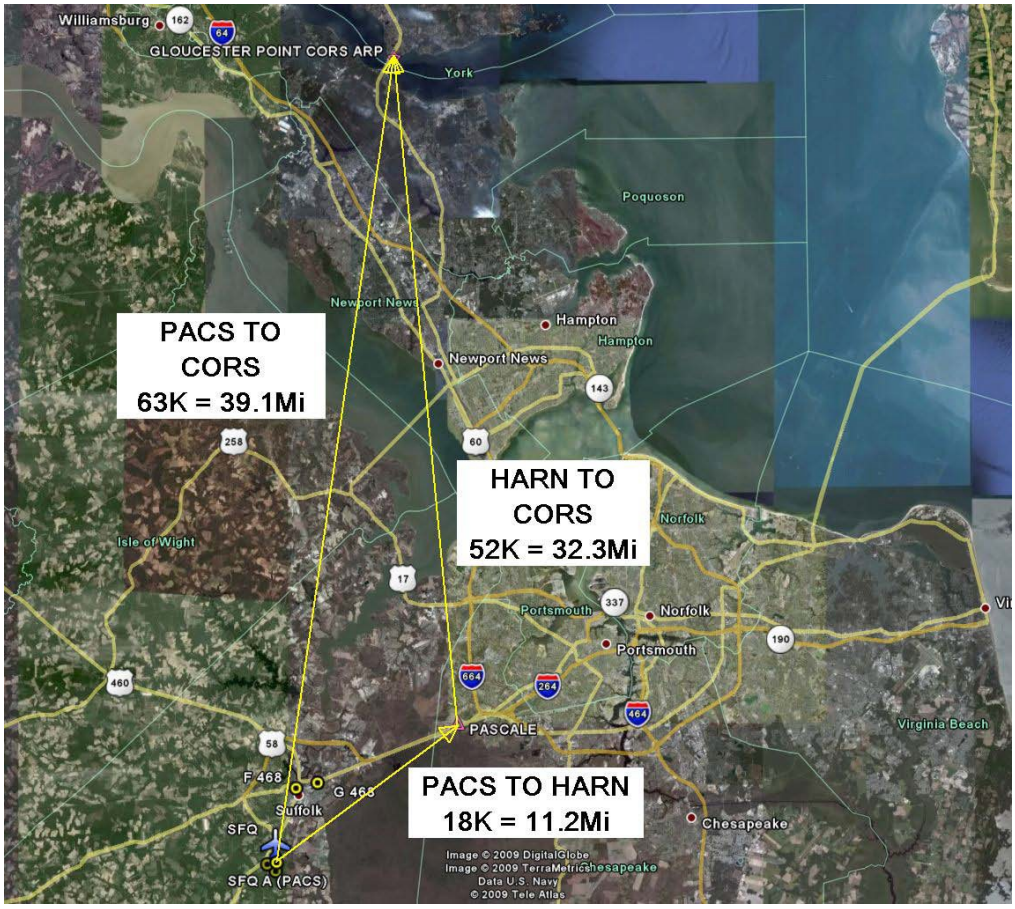
WEATHER, DG9068, 3SE, 24JUN2009

All manual data entries on field forms and computer entry will be checked and initialed. A check of all file formats will be completed. A check of all reports for completeness will be executed prior to final report submittal.

SCHEDULE:
Estimated Start Date: 3/2/09
Estimated Completion Date: 3/27/09

AIRPORT CONTROL PLOT


PASCALE
460
HARN TIE 18KM
BM TO BM
1.7KM
G 468
58
F 468
32
WEATHER
BM TIE 33KM
BM TIE 6KM
BM TIE
7KM
13
SFQ
SFQ A (PACS)
J 324 RESET (SACS)
SFQ B (SACS)
PACS AND SACS ARE SEPARATED BY AT LEAST
400 METERS
© 2010 Google


Williamsburg
162
64
GLOUCESTER POINT CORS ARP
York
Poquoson
Newport News
Hampton
Hampton
Newport News
143
PACS TO
CORS
63K = 39.1Mi
258
60
HARN TO
CORS
52K = 32.3Mi
Norfolk
Isle of Wight
17
Portsmouth
337
Norfolk
190
Portsmouth
664
264
460
464
PASCALE
Virginia Beach
58
F 468
G 468
PACS TO HARN
18K = 11.2Mi
Suffolk
SFQ
Chesapeake
SFQ A (PACS)
Image © 2009 DigitalGlobe
Image © 2009 TerraMetrics
Data U.S. Navy
© 2009 Tele Atlas

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Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

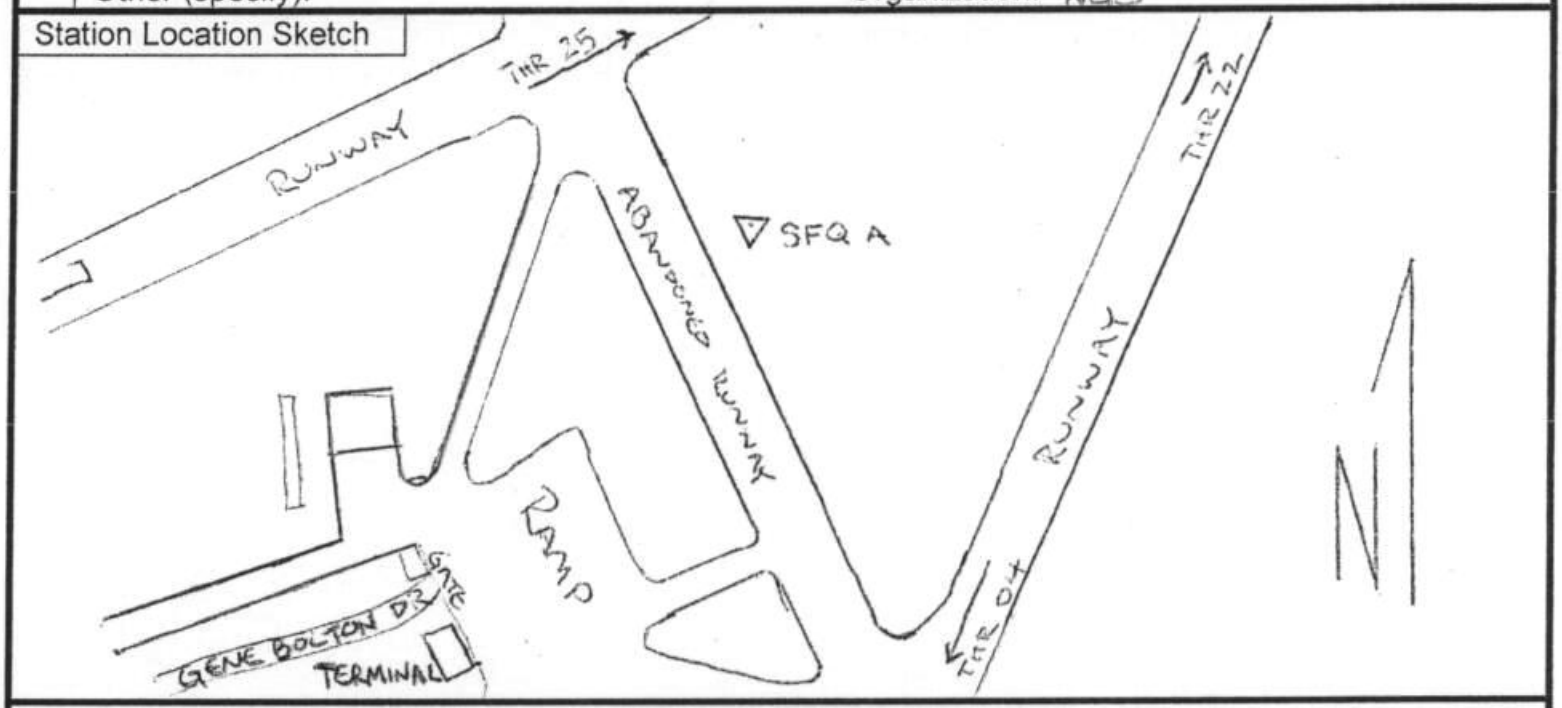
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: SUFFOLK EXECUTIVE AIRPORT

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
SFQ A		SFQ	12/15/08

[X] PACS [ ] SACS [ ] TSM [ ] BM [ ] FBN [ ] CBN
[ ] Other (specify): Organization: NGS

Station Location Sketch



Monument Information

Monument Stability Quality

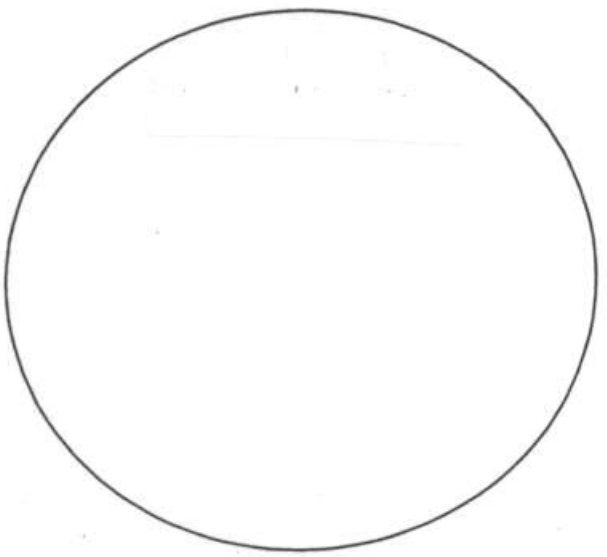
[ ] A Most Stable [X] B Excellent [ ] C Good
[ ] D Poor

Monument is		*Disk is set*
[ ] Recessed	cm	[ ] in bedrock
[X] Flush with ground		[ ] in concrete
[ ] Projecting	cm	[ ] In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

25.40 MI SOUTH OF NEWPORT NEWS; 20.32 MI WEST OF CHESAPEAKE; 3.1 MI SW OF SUFFOLK AT THE SUFFOLK EXECUTIVE AIRPORT; EAST OF AN ABANDONED RUNWAY; SOUTH OF RWY 7-25; NORTH OF RUNWAY 4-22

Sketch of Disk



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Station Designation: SFQA

Land Ownership:	☒ Public	☐ Private

Land Owner Contact Information (optional)

Land Owner Name CITY OF SUFFOLK
Street Address 1200 GENE BOLTON DRIVE
City SUFFOLK State: VA Zip Code: 23434
Telephone Number (757) 514-4411 Fax: ( ) -
Email

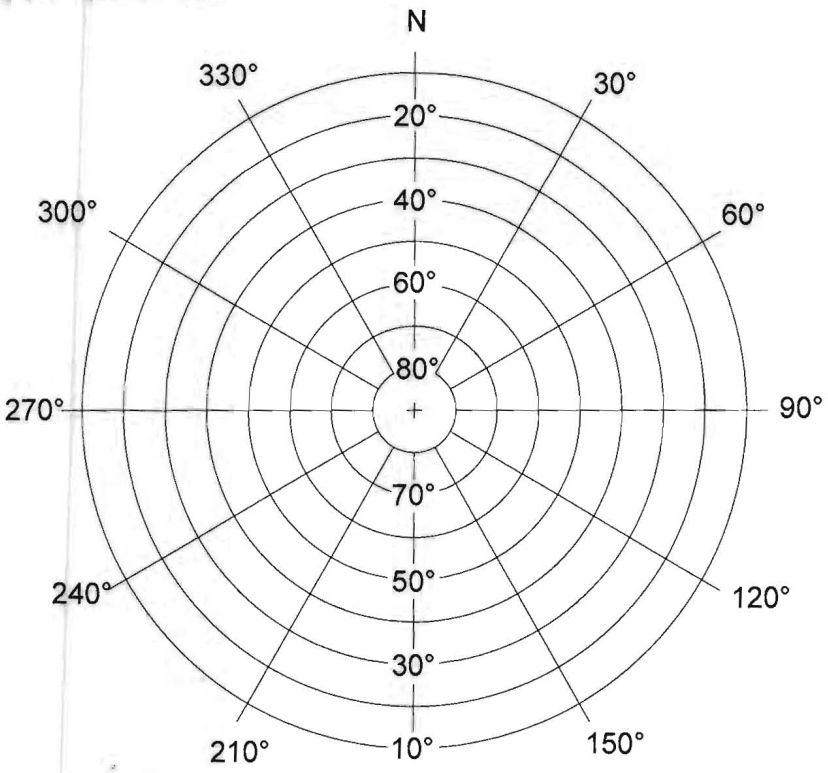
To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of* SW SUFFOLK BYPASS/US-13 S/US-58 AND CAROLINA RD US-13/VA-32 GO SW 1.5 MI ON CAROLINA RD US-13/VA-32 TO AIRPORT RD. GO SE 0.3MI ON AIRPORT RD TO GENE BOLTON DR. GO EAST ON GENE BOLTON DRIVE TO SUFFOLK EXECUTIVE AIRPORT. CONTACT AIRPORT MANAGER KENT MARSHALL @ (757) 514-4411 TO GAIN ACCESS TO THE RAMP VIA A GATE SW OF THE TERMINAL BUILDING. FROM THE GATE, GO NE TO THE RAMP. GO SE 212FT TO A TAXIWAY LEADING TO AN ABANDONED RUNWAY. GO NE 0.13MI TO THE ABANDONED RUNWAY VIA THE ABANDONED TAXIWAY. GO NNW 0.14 MILES TO THE STATION NE OF THE ABANDONED RUNWAY IN THE GRASSY AREA

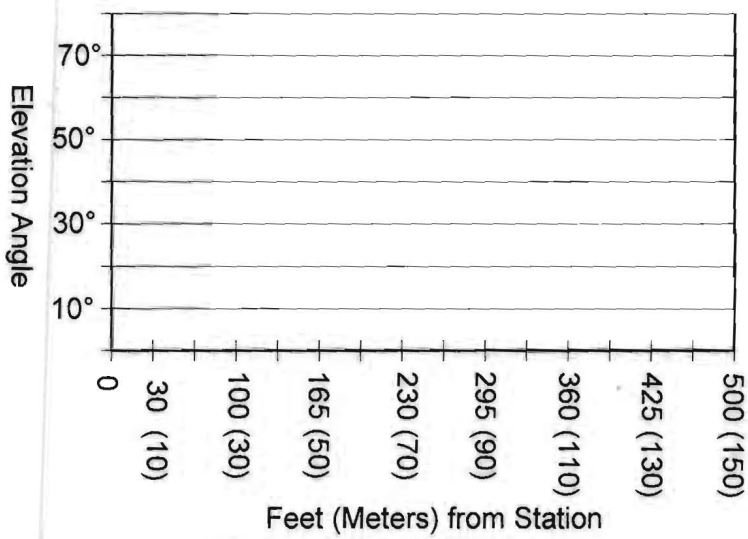
Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is* NEAR THE CENTER OF THE AIRPORT, NE OF AN ABANDONED RUNWAY. 119.7M (392.7FT) SW OF THE SOUTH CORNER OF A FENCE SURROUNDING A WEATHER STATION. 64.5M (211.6FT) SOUTH OF THE CENTER OF A TRACK ROAD LEADING TO THE WEATHER STATION. 6.8M (22.3FT) NE OF THE CENTER OF A 4'X4' FOOT CONCRETE ABANDONED RUNWAY LIGHT PAD.

Station Visibility Obstruction Diagram	Station Designation: SFQ A

☑ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: K. JORDAN
Agency or Company: NGS	Height above mark (meters): 2.0 m
Agency or Company Telephone Number:	(757) 441 - 5460

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

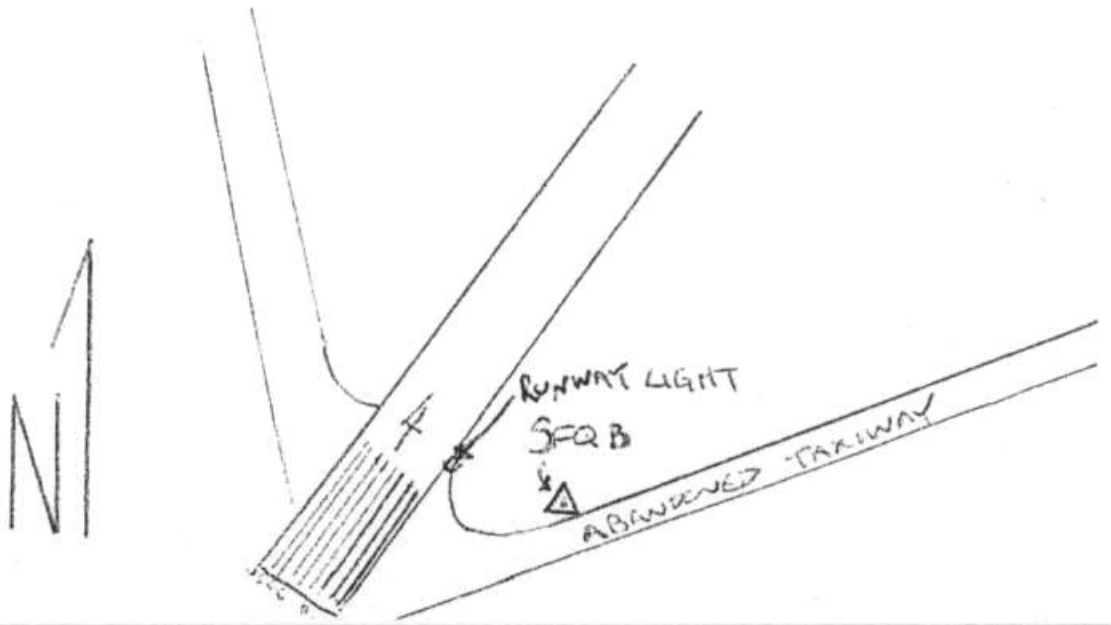
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: SUFFOLK EXECUTIVE AIRPORT

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
SFQ B		SFQ	12/15/08

☐ PACS ☒ SACS ☐ TSM ☐ BM ☐ FBN ☐ CBN
☐ Other (specify): Organization: NGS

Station Location Sketch



Monument Information

Monument Stability Quality

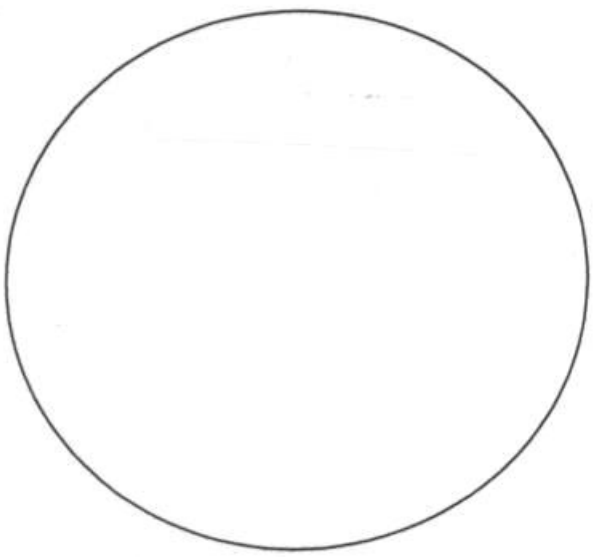
☐ A Most Stable ☐ B Excellent ☒ C Good ☐ D Poor

Monument is		*Disk is set*
☐ Recessed	cm	☐ in bedrock
☒ Flush with ground		☒ in concrete
☐ Projecting	cm	☐ In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

25.84 MI SOUTH OF NEWPORT NEWS
20.37 MI WEST OF CHESAPEAKE
3.8 MI SW OF SUFFOLK AT THE SUFFOLK EXECUTIVE AIRPORT SE OF THE 04 RUNWAY AND NW OF AN ABANDONED TAXIWAY

Sketch of Disk



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Station Designation: SFQ B

Land Ownership:	X	Public		Private

Land Owner Contact Information (optional)

Land Owner Name CITY OF SUFFOLK
Street Address 1200 GENE BOLTON DRIVE
City SUFFOLK State: VA Zip Code: 23434
Telephone Number (757) 514 - 4411 Fax: ( ) -
Email

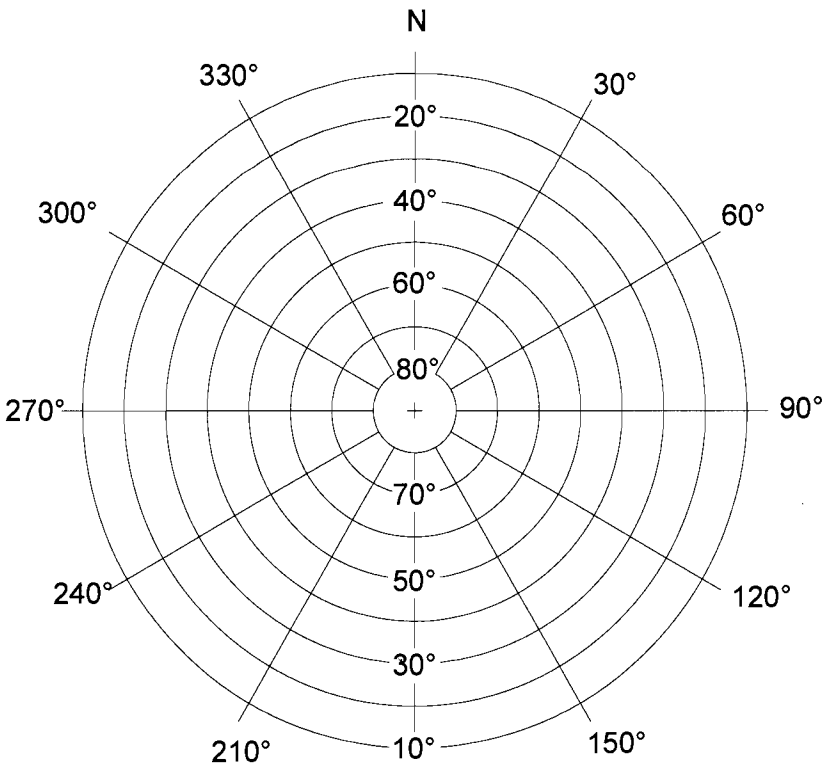
To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of* SW SUFFOLK BYPASS/US-135/US-58 AND CAROLINA RD US-13/VA-32 GO SW 1.5MI ON CAROLINA RD US 13/VA-32 TO AIRPORT RD. GO SE 0.3MI ON AIRPORT RD TO GENE BOLTON DRIVE. GO EAST ON GENE BOLTON DR TO SUFFOLK EXECUTIVE AIRPORT. CONTACT AIRPORT MANAGER KENT MARSHALL @ 757 514 4411 TO GAIN ACCESS TO THE RAMA VIA A GATE SW OF THE TERMINAL BUILDING. FROM THE GATE, GO NE TO THE RAMP. GO SE ON THE RAMP AND CONTINUE SSW ON THE RAMP TO A TAXIWAY LEADING TO RWY 04. GO SSE ON THE TAXIWAY AND ACROSS THE THRESHOLD OF RWY 04 TO AN ABANDONED TAXIWAY NE OF RWY 04. THE STATION IS IN THE GRASS AREA NW OF THE ABANDONED TAXIWAY.

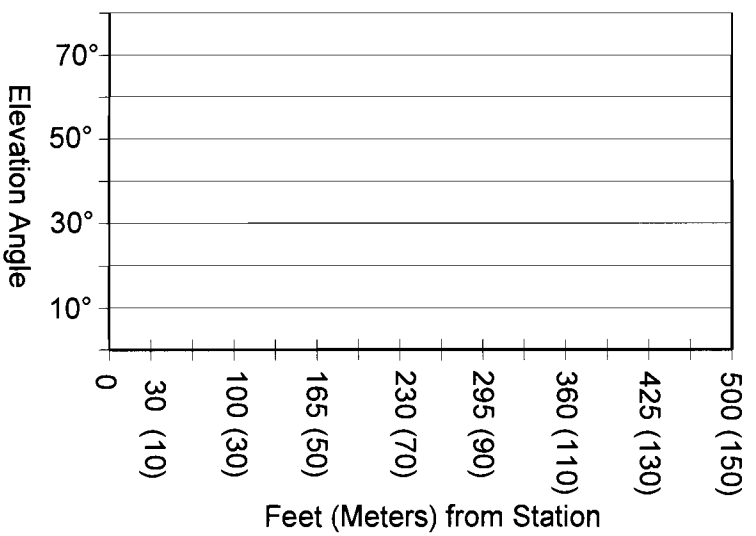
Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is* NEAR THE SOUTH END OF RWY 4, NW OF AN ABANDONED TAXIWAY. 45.7M (149.9FT) E OF THE 1ST RUNWAY LIGHT. 41.2M (135.2FT) SE OF THE SE EDGE OF THE RUNWAY. 10.5M (34.4FT) N OF THE CENTERLINE OF AN ABANDONED TAXIWAY

Station Visibility Obstruction Diagram	Station Designation: SFQ B

☑ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: K JORDAN
Agency or Company:	Height above mark (meters): m
Agency or Company Telephone Number:	(757) 441 - 5460

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Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

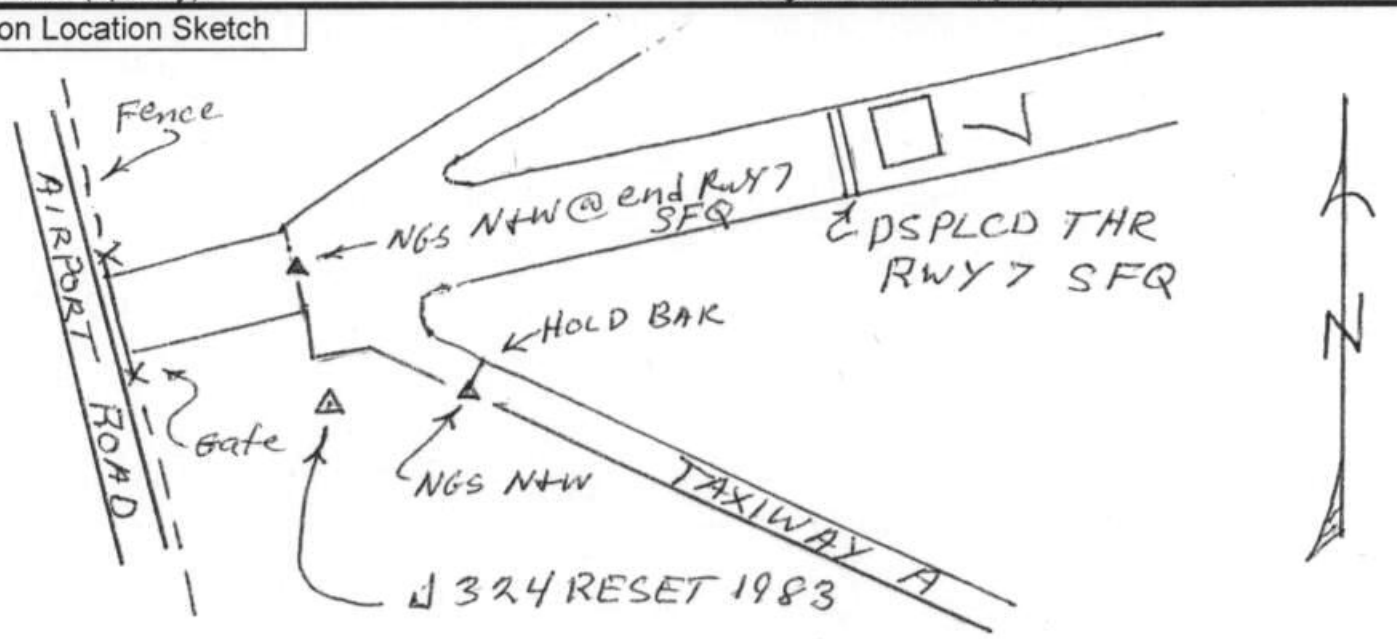
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: SUFFOLK EXECUTIVE AIRPORT

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
J 324 RESET 1983	FX2636	SFQ	12/15/08

☐ PACS ☒ SACS ☐ TSM ☐ BM ☐ FBN ☐ CBN
☐ Other (specify): Organization: NGS

Station Location Sketch



Monument Information

Monument Stability Quality

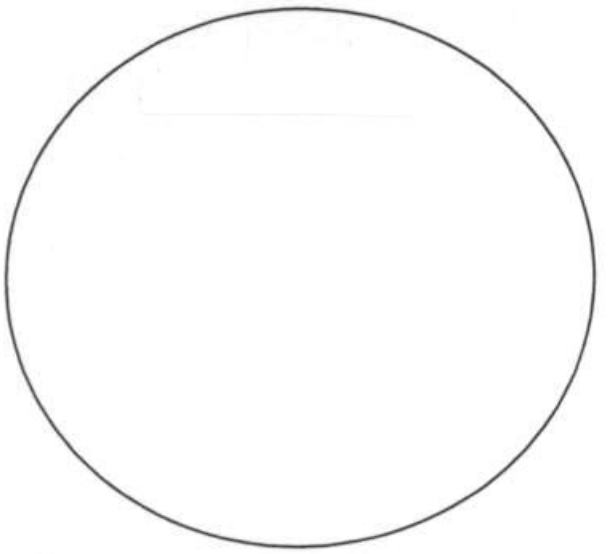
☐ A Most Stable ☐ B Excellent ☒ C Good
☐ D Poor

Monument is		*Disk is set*
☐ Recessed	cm	☐ in bedrock
☒ Flush with ground		☒ in concrete
☐ Projecting	cm	☐ In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

AT SUFFOLK EXECUTIVE AIRPORT 3.5MI SW OF SUFFOLK, 11.3MI SW OF PVG, 15.5MI W OF CPK

Sketch of Disk



Station Designation: J 324 RESET 1983

Land Ownership:	X	Public		Private

Land Owner Contact Information (optional)

Land Owner Name CITY OF SUFFOLK
Street Address 1200 GENE BOLTON DRIVE
City SUFFOLK State: VA Zip Code: 23434
Telephone Number (757) 514 - 4411 Fax: ( ) -
Email

NEW

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

3.3 MI SW FROM SUFFOLK VA ON SUFFOLK EXECUTIVE AIRPORT NEAR END OF RWY 7_SFQ.
3.3 MILES SW ALONG US HWY 13 FROM RR XING IN SUFFOLK to Jct AIRPORT Rd.; TURN LEFT ON AIRPORT ROAD, AND PROCEED 0.35 MI SE TO Rd LEFT LEADING to AIRPORT OFFICE. GO LEFT 0.3 MI EAST to GATE ON E Side OF OFFICE; PASS THROUGH Gate ONto APRON & Proceed 0.05 MI North to TAXIWAY A; TURN LEFT ON TAXIWAY A & GO TO TAXIWAY A HOLD BAR FOR RWY 7-SFQ & MARK ON LEFT

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

NEW DESCRIPTION

125.5 FT SE OF NGS PK Nail + washer "existing" @ CL END RWY 7_SFQ
141.3 FT WNW OF NGS PK Nail + WASHER @ SW END OF HOLD BAR ON TAXIWAY A @ Jct END RWY 7_SFQ + TAXIWAY A
228 FT E of chain LINK Fence Gate which is 199 FT SW of CL END RWY 7_SFQ
80 FT SE OF SE EDGE OF RWY 7_SFQ

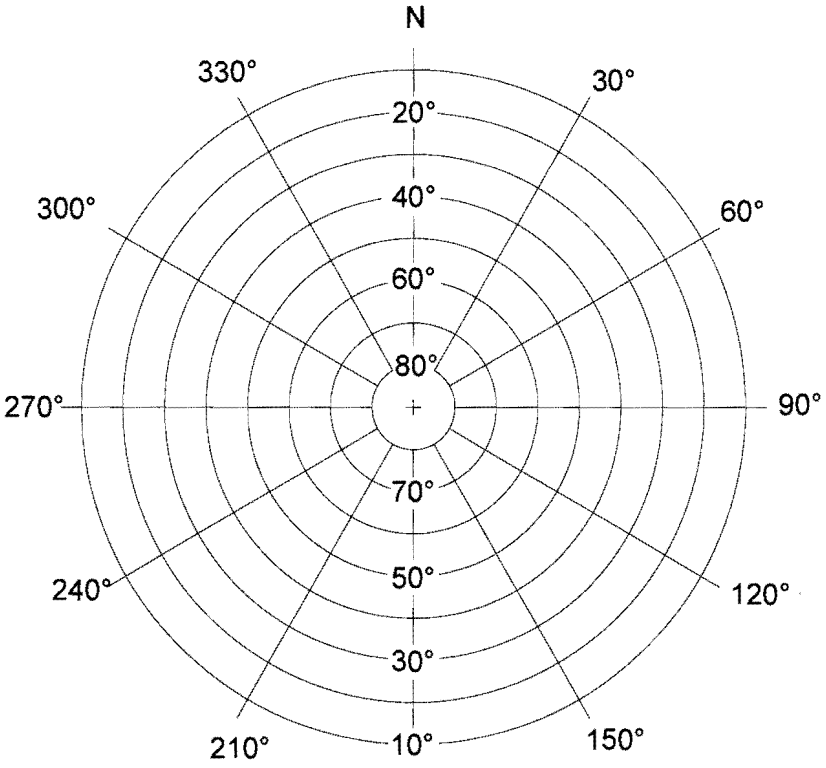
FX2636

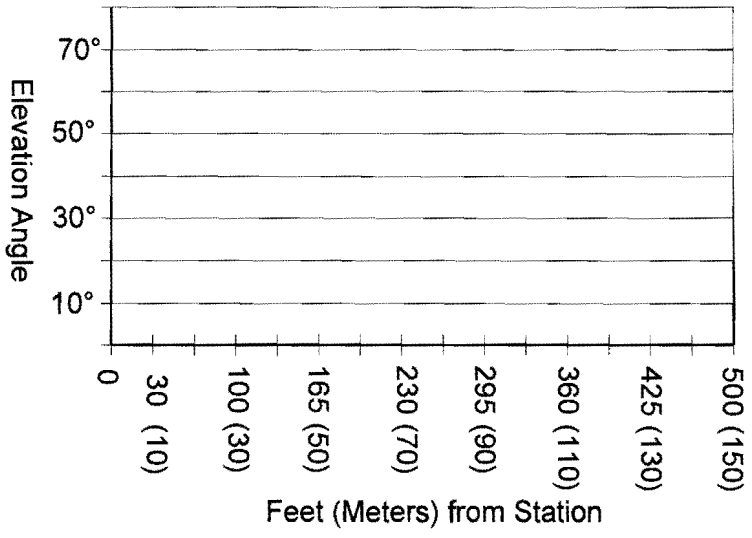
Station Visibility Obstruction Diagram	Station Designation: J324 RESET

1983

☒ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: GNOTTAGE
Agency or Company: NGS	Height above mark (meters): m
Agency or Company Telephone Number:	(757) 441 5460

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

Survey Station Description and Recovery Form

Station Designation	4 Char Identifier	State	~~County~~ City
J 324 RESET 1983		VA	SUFFOLK

Permanent Record Identifier (from NSRS)	Elevation		Country
	Feet	Meters	
FX 2636	69.5	21.17	

Latitude			Longitude		
N	36°	40' 48"	W	76°	36' 36"

Original Description (Check one)

- [ ] Preliminary (mark has not been set yet)
- [ ] A newly set mark
- [X] A recovered mark

Established by:
Chief of Party (initials)
Date / /
:

Recovery Description (Check one)

- [ ] Full description of a station not NSRS
- [ ] Full description of a station in NSRS
- [ ] Partial description of a station not NSRS

Established by:
Chief of Party (initials)
Date: / /

Monument Stability (Check one)

- [ ] A Of the most reliable nature; expected to hold well
- [X] B Will probably hold position and elevation well
- [ ] C May hold well, but subject to ground movement
- [ ] D Of questionable or unknown reliability

Recovery Condition (Check one)

- [X] G Recovered in good condition
- [ ] N Not recovered or not found
- [ ] P Poor, disturbed, or mutilated
- [ ] X Surface mark known destroyed

Setting Information

Marker Type

- [ ] Rod
- [X] Disk
- [ ] Other:

Rod Depth ft. / m
Sleeve Depth ft. / m

Setting Type

- [ ] Bedrock
- [X] Concrete
- [ ] Other:

Agency Inscription

- [ ] NGS
- [X] CGS
- [ ] Other:

Stamping: Agency Inscription: J 324 RESET 1983

Monument is:

- [X] Flush
- [ ] Projecting cm
- [ ] Recessed cm

Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20.

Special Type (Check all applicable)

- [ ] F Fault monitoring site
- [ ] T Tidal station
- [ ] Control Station (FBN/CBN/Benchmark)
- [X] Airport Control Station (PACS/SACS)
- [X] Yes [ ] No Mark suitable for GPS use?

Transportation (Check one)

- [X] C Car
- [ ] P Light Truck, (pickup, carry-all etc.)
- [ ] X Four wheel drive vehicle required
- [ ] Other:
- [ ] Yes [ ] No Pack Time?

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

3.3 MI SW FROM SUFFOLK VA ON SUFFOLK EXECUTIVE AIRPORT NEAR THE END OF RWY 7_SFQ

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

3.3 MILES SW ALONG US HWY 58 FROM Railroad CROSSING IN SUFFOLK VA, to Jct AIRPORT; TURN Left on Airport Road and Proceed 0.35 miles SE to Rd Left Leading to Airport OFFICE; Go Left 0.3 mi; East to gate on E Side (right) OF OFFICE/Terminal Bldg & Pass Thru Gate on to Apron; take a Left Immediately & Proceed 0.05 MI North to taxiway A; TURN Left on TAXIWAY A & Proceed PAST hangers to HOLD BAR RWY 7_SFQ &

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is* MARK ON LEFT

125.5 FT SE OF NGS PK Nail & washer (existing) @ & end Rwy 7_SFQ

141.3 FT WNW of NGS PK Nail & washer @ SW end OF TAXIWAY A Hold bar FOR Rwy 7_SFQ

228 FT E & chain Link Fense gate which is 199 FT SW of & END Rwy 7_SFQ

80 FT SE of SE EDGE Rwy 7_SFQ

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

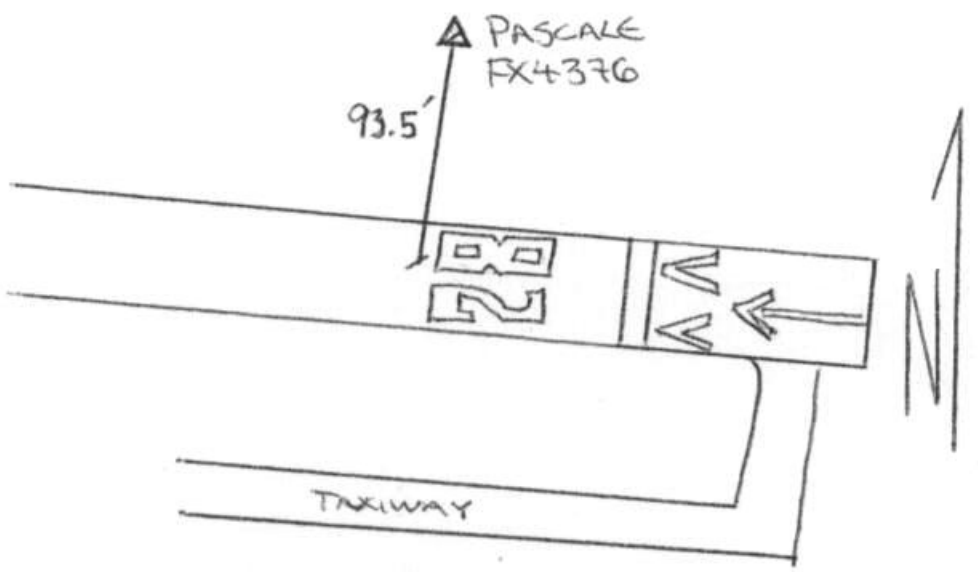
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: HAMPTON ROADS EXECUTIVE AIRPORT

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
PASCALE	FX4376	PVG	12/15/08

☐ PACS ☐ SACS ☐ TSM ☐ BM ☐ FBN ☒ CBN
☐ Other (specify): Organization: NGS

Station Location Sketch



Monument Information

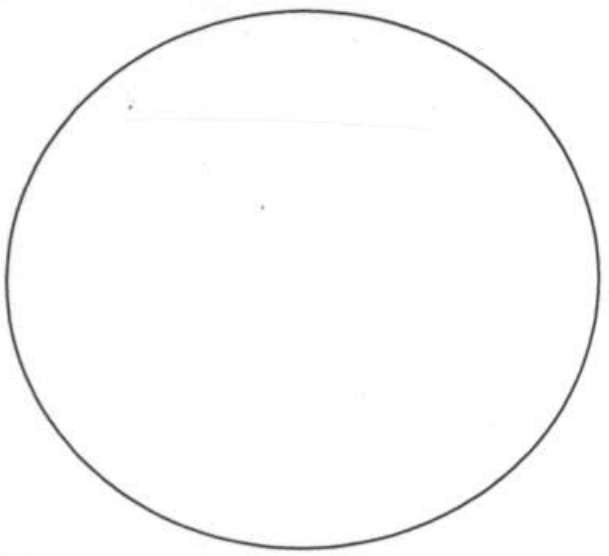
Monument Stability Quality

☐ A Most Stable ☐ B Excellent ☒ C Good
☐ D Poor

Monument is		*Disk is set*
☐ Recessed	cm	☐ in bedrock
☒ Flush with ground		☒ in concrete
☐ Projecting	cm	☐ In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*
6.0 MI NE OF SUFFOLK

Sketch of Disk



Station Designation: PASCALE			
Land Ownership:	[X]	Public	[ ] Private

Land Owner Contact Information (optional)

Land Owner Name
Street Address
City State: Zip Code:
Telephone Number ( ) - Fax: ( ) -
Email

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

SEE DATASHEET

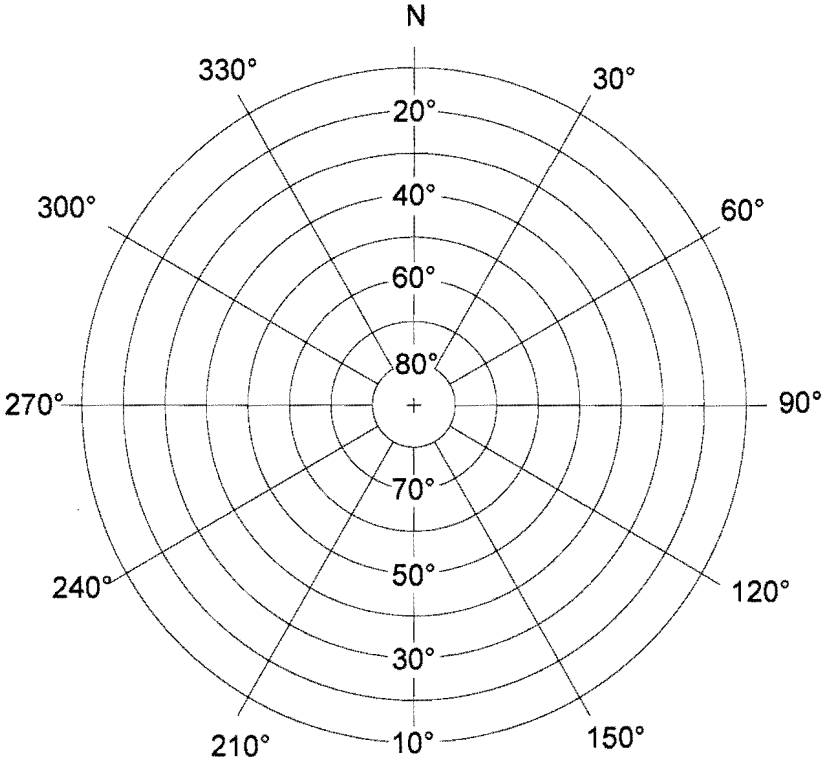
Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

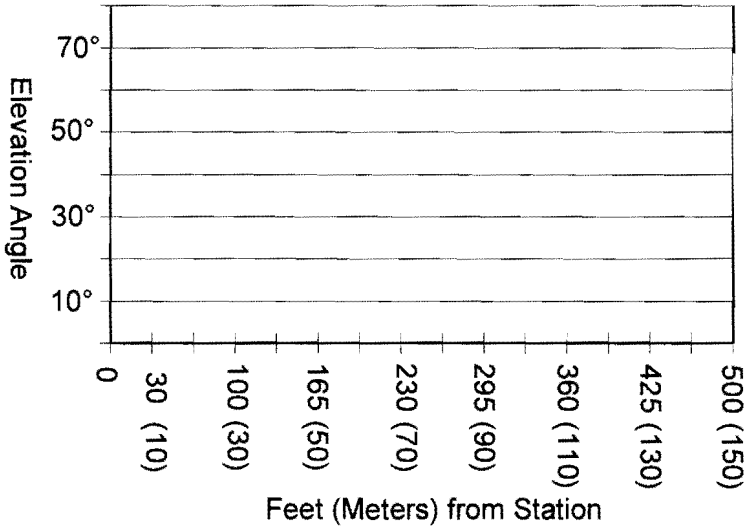
SEE DATASHEET

Station Visibility Obstruction Diagram	Station Designation: PASCALE

☑ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: KEVIN JORDAN
Agency or Company: NGS	Height above mark (meters): 2.0 m
Agency or Company Telephone Number:	(757) 441 - 5460

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Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

Survey Station Description and Recovery Form

Station Designation	4 Char Identifier	State	City ~~County~~
PASCALE		VIRGINIA	5

Permanent Record Identifier (from NSRS)	Elevation		Country
	Feet	Meters	
FX4376			

Latitude	Longitude
N 36 ° 46 ' 45 "	W 76 ° 26 ' 55 "

Original Description (Check one)

- [ ] Preliminary (mark has not been set yet)
- [ ] A newly set mark
- [x] A recovered mark

Established by:
Chief of Party (initials)
Date / /
:

Recovery Description (Check one)

- [ ] Full description of a station not NSRS
- [x] Full description of a station in NSRS
- [ ] Partial description of a station not NSRS

Established by:
Chief of Party (initials)
Date: / /

Monument Stability (Check one)

- [ ] A Of the most reliable nature; expected to hold well
- [ ] B Will probably hold position and elevation well
- [x] C May hold well, but subject to ground movement
- [ ] D Of questionable or unknown reliability

Recovery Condition (Check one)

- [x] G Recovered in good condition
- [ ] N Not recovered or not found
- [ ] P Poor, disturbed, or mutilated
- [ ] X Surface mark known destroyed

Setting Information

Marker Type

- [ ] Rod
- [x] Disk
- [ ] Other:

Rod Depth ft. / m
Sleeve Depth ft. / m

Setting Type

- [ ] Bedrock
- [x] Concrete
- [ ] Other:

Agency Inscription

- [x] NGS
- [ ] CGS
- [ ] Other:

Stamping:
Agency Inscription:

Monument is:

- [x] Flush
- [ ] Projecting cm
- [ ] Recessed cm

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Special Type (Check all applicable)	Transportation (Check one)
[ ] F Fault monitoring site [ ] T Tidal station [X] Control Station (FBN/CBN/Benchmark) [ ] Airport Control Station (PACS/SACS) [X] Yes [ ] No Mark suitable for GPS use?	[X] C Car [ ] P Light Truck, (pickup, carry-all etc.) [ ] X Four wheel drive vehicle required [ ] Other: [ ] Yes [ ] No Pack Time?

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

SEE DATASHEET

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

SEE DATASHEET

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

SEE DATASHEET

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

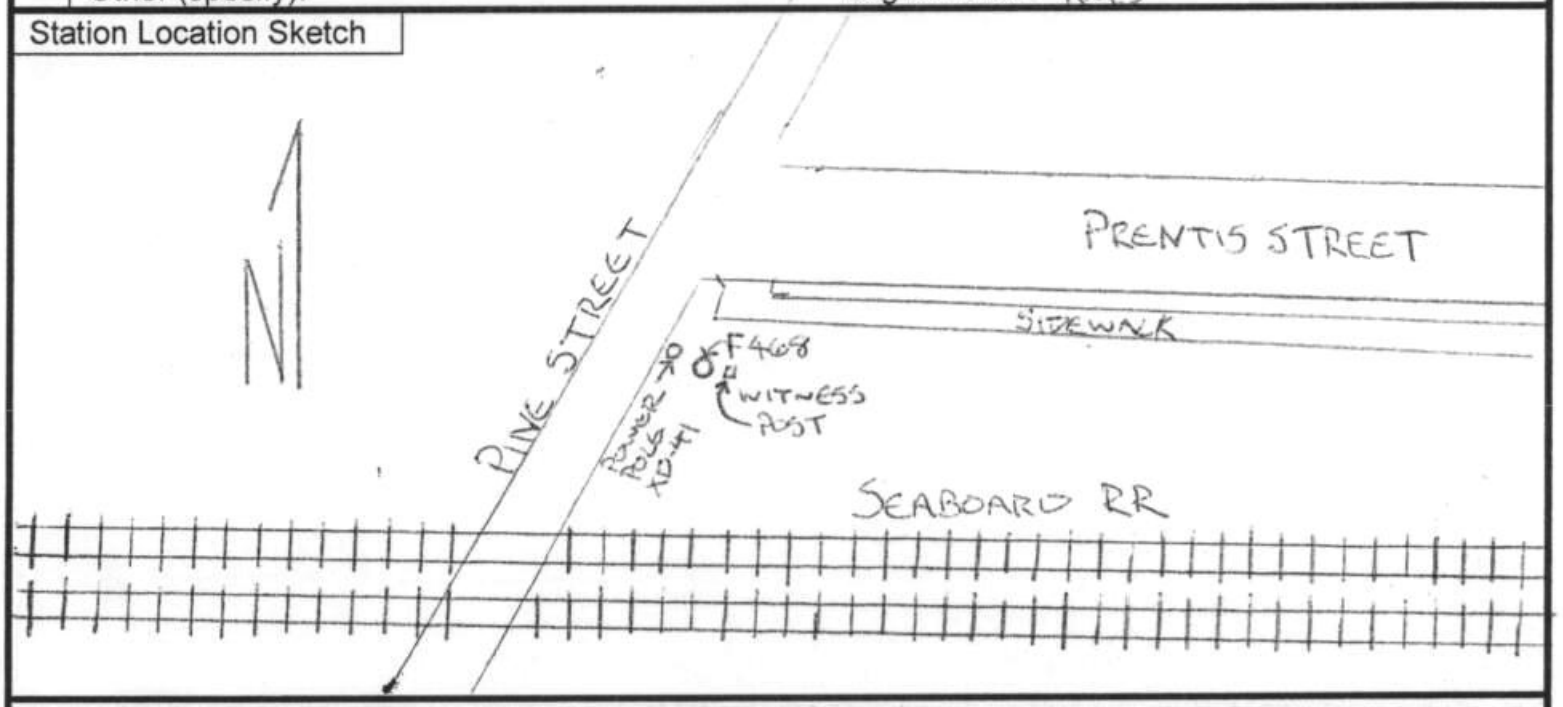
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: CITY OF SUFFOLK

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
F 468	FX2236		12/15/08

☐ PACS ☐ SACS ☐ TSM ☒ BM ☐ FBN ☐ CBN
☐ Other (specify): Organization: NGS

Station Location Sketch



Monument Information

Monument Stability Quality

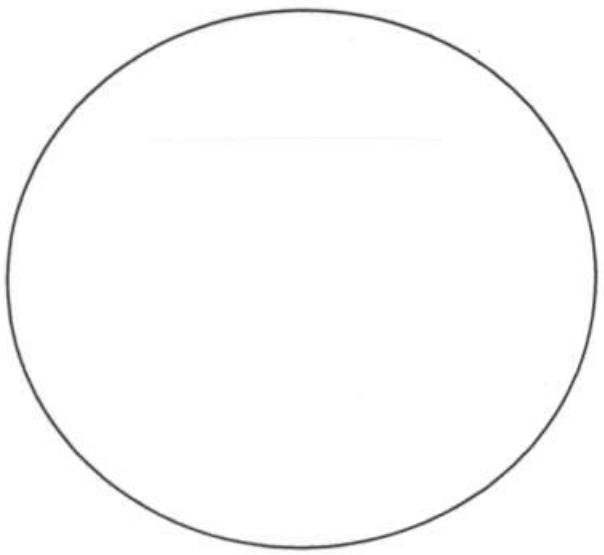
☐ A Most Stable ☒ B Excellent ☐ C Good
☐ D Poor

Monument is	*Disk is set*
☒ Recessed 45 cm	☐ in bedrock
☐ Flush with ground	☐ in concrete
☐ Projecting cm	☐ In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

0.7 MI W OF SUFFOLK
3.65 MI NNE OF SFQ
8.19 MI SW OF PVG

Sketch of Disk



Station Designation: F 463				
Land Ownership:	X	Public		Private

Land Owner Contact Information (optional)

Land Owner Name CITY OF SUFFOLK
Street Address
City SUFFOLK State: VA Zip Code:
Telephone Number ( ) - Fax: ( ) -
Email

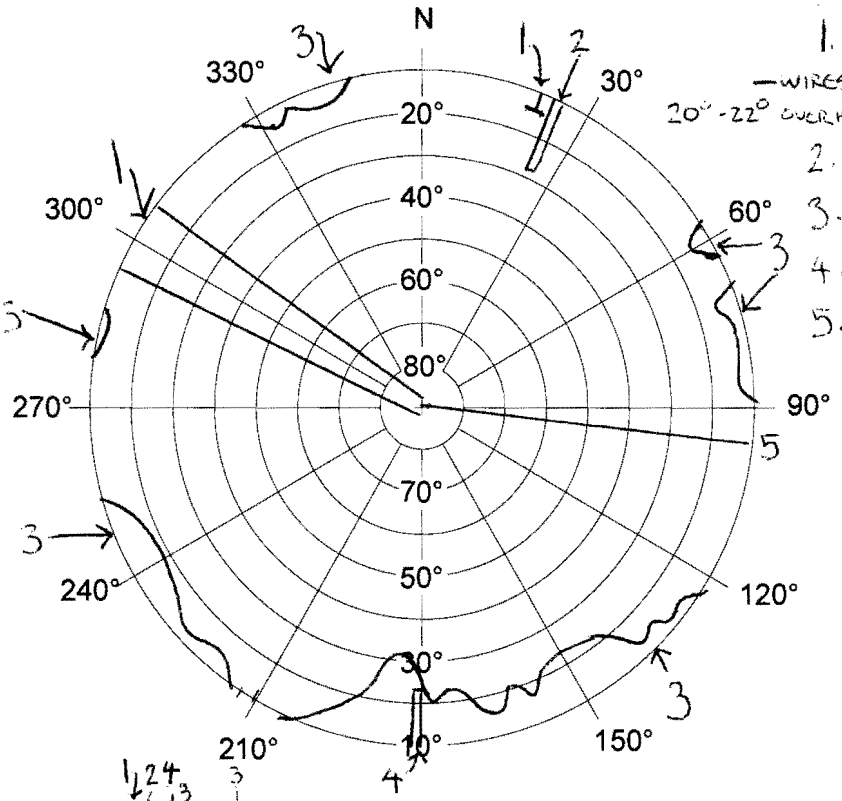
To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of* CONSTANCE RD AND N MAIN ST, TURN SOUTH ON MAIN ST AND GO 0.28MI TO THE INTERSECTION OF PINNER ST AND N MAIN ST. TURN RIGHT AT PINNER ST AND CONTINUE WEST FOR 0.16MILES TO THE INTERSECTION OF PINE ST AND PINNER ST. STATION IS SW OF THE INTERSECTION OF PINE ST AND PINNER ST IN THE GRASSY AREA.

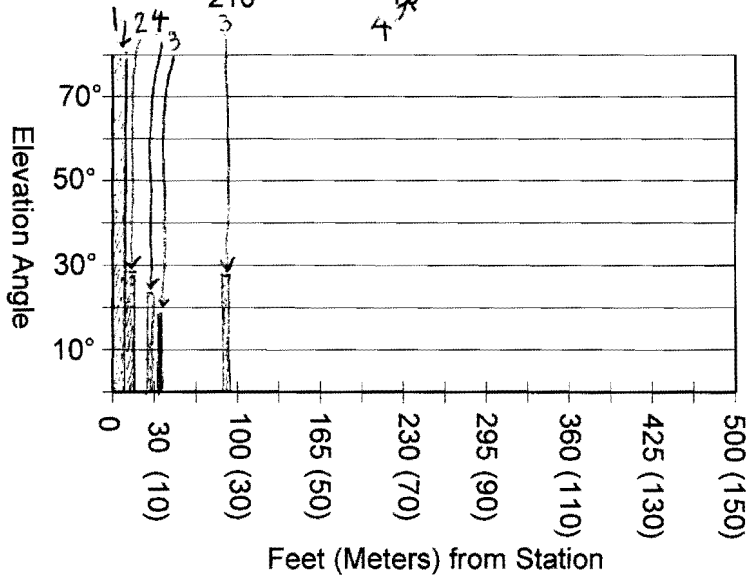
Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is* 49 FT (14.9m) SW OF THE S/O PRENTIS STREET. 22' (6.7m) NE OF THE S/O PINE STREET. 54' NE OF THE NORTHERNMOST RAIL OF RAILWAY. 17' (5.2m) SW OF THE SW CORNER OF A SIDEWALK APRON. 3' (0.9m) E OF A POWER POLE MARKED XD-41. 1' (0.3m) WEST OF A WITNESS POST. THE MARK IS RECESSED 45cm BELOW GROUND LEVEL.

Station Visibility Obstruction Diagram	Station Designation: F468

☐ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: K. JORDAN
Agency or Company: NGS	Height above mark (meters): 2 m
Agency or Company Telephone Number:	(757) 441 - 5460

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

Survey Station Description and Recovery Form

Station Designation	4 Char Identifier	State	City ~~County~~
F 468		VIRGINIA	SUFFOLK

Permanent Record Identifier (from NSRS)	Elevation		Country
	Feet	Meters	
FX2236	33.09	10.046	

Latitude				Longitude			
N	36 °	44 '	02 "	W	76 °	35 '	05"

Original Description (Check one)

- [ ] Preliminary (mark has not been set yet)
- [ ] A newly set mark
- [X] A recovered mark

Established by:
Chief of Party (initials)
Date / /
:

Recovery Description (Check one)

- [ ] Full description of a station not NSRS
- [X] Full description of a station in NSRS
- [ ] Partial description of a station not NSRS

Established by:
Chief of Party (initials)
Date: / /

Monument Stability (Check one)

- [ ] A Of the most reliable nature; expected to hold well
- [X] B Will probably hold position and elevation well
- [ ] C May hold well, but subject to ground movement
- [ ] D Of questionable or unknown reliability

Recovery Condition (Check one)

- [X] G Recovered in good condition
- [ ] N Not recovered or not found
- [ ] P Poor, disturbed, or mutilated
- [ ] X Surface mark known destroyed

Setting Information

Marker Type

- [ ] Rod
- [X] Disk
- [ ] Other:

Rod Depth ft. / m
Sleeve Depth ft. / m

Setting Type

- [ ] Bedrock
- [ ] Concrete
- [ ] Other:

Stamping: F 468 1978
Agency Inscription:

Monument is:

- [ ] Flush
- [ ] Projecting cm
- [X] Recessed 45 cm

Agency Inscription

- [X] NGS
- [ ] CGS
- [ ] Other:

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Special Type (Check all applicable)	Transportation (Check one)
[ ] F Fault monitoring site [ ] T Tidal station [X] Control Station (FBN/CBN/Benchmark) [ ] Airport Control Station (PACS/SACS) [X] Yes [ ] No Mark suitable for GPS use?	[X] C Car [ ] P Light Truck, (pickup, carry-all etc.) [ ] X Four wheel drive vehicle required [ ] Other: [ ] Yes [ ] No Pack Time?

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

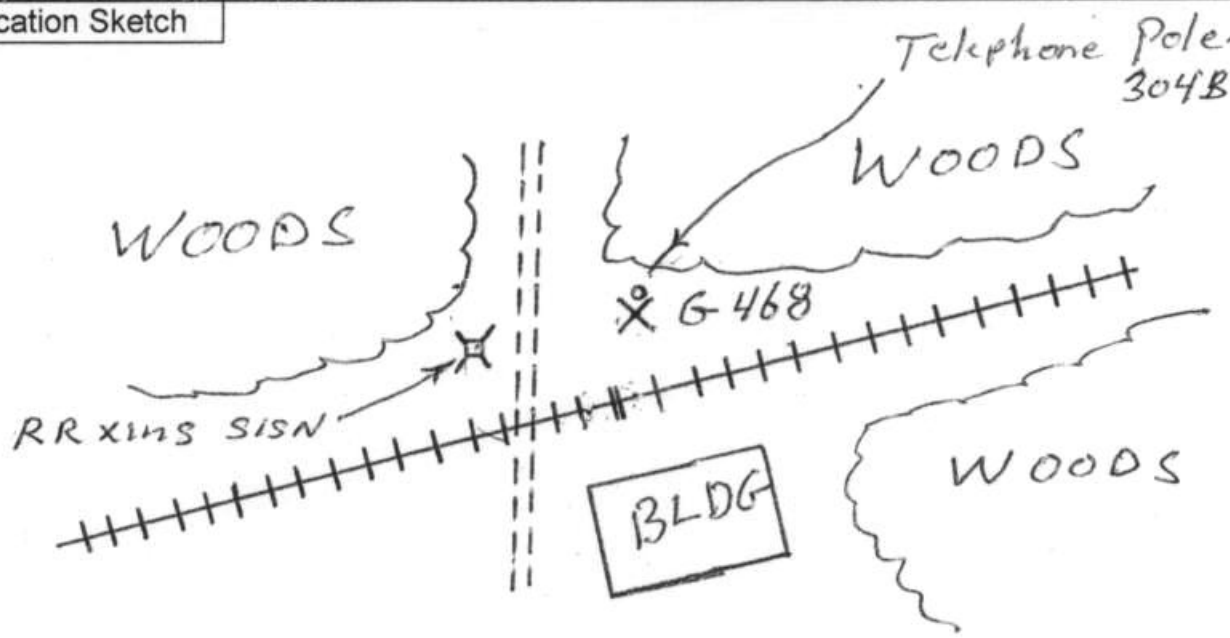
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: VA / CITY of SUFFOLK

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
G468	FX2233		12/15/06

☐ PACS ☐ SACS ☐ TSM ☑ BM ☐ FBN ☐ CBN
☐ Other (specify): Organization: NGS

Station Location Sketch



Monument Information

Monument Stability Quality

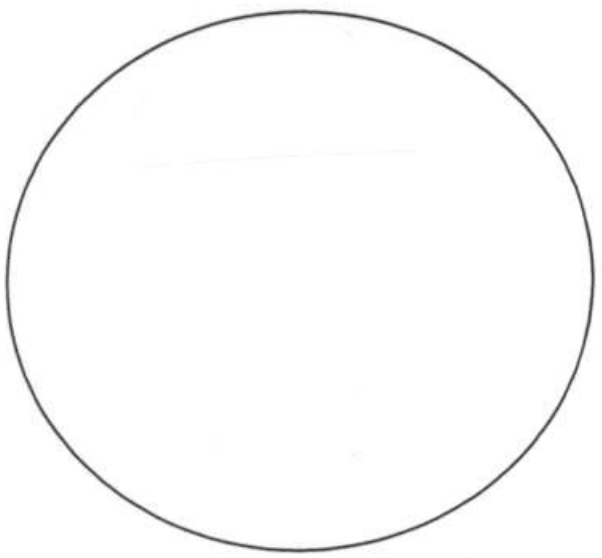
☐ A Most Stable ☒ B Excellent ☐ C Good
☐ D Poor

Monument is		*Disk is set*
☒ Recessed 15 cm		☐ in bedrock
☐ Flush with ground		☐ in concrete
☐ Projecting cm		☐ In structure
		☒ CLIMBED TO ROOF

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

21.19 MI S OF NEWPORT NEWS, VA
16.28 MI W OF CHESAPEAKE VA
0.9 MI E OF SUFFOLK ALONG THE SEABOARD COASTLINE RR. SET AT A GRAVEL ROAD CROSSING THAT RUNS BETWEEN SUFFOLK MARINE AND A GARMENT FACTORY.

Sketch of Disk



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Station Designation: G4603				
Land Ownership:		Public	X	Private RR-RW

Land Owner Contact Information (optional)

Land Owner Name IN RAILROAD RW
Street Address
City State: Zip Code:
Telephone Number ( ) - Fax: ( ) -
Email

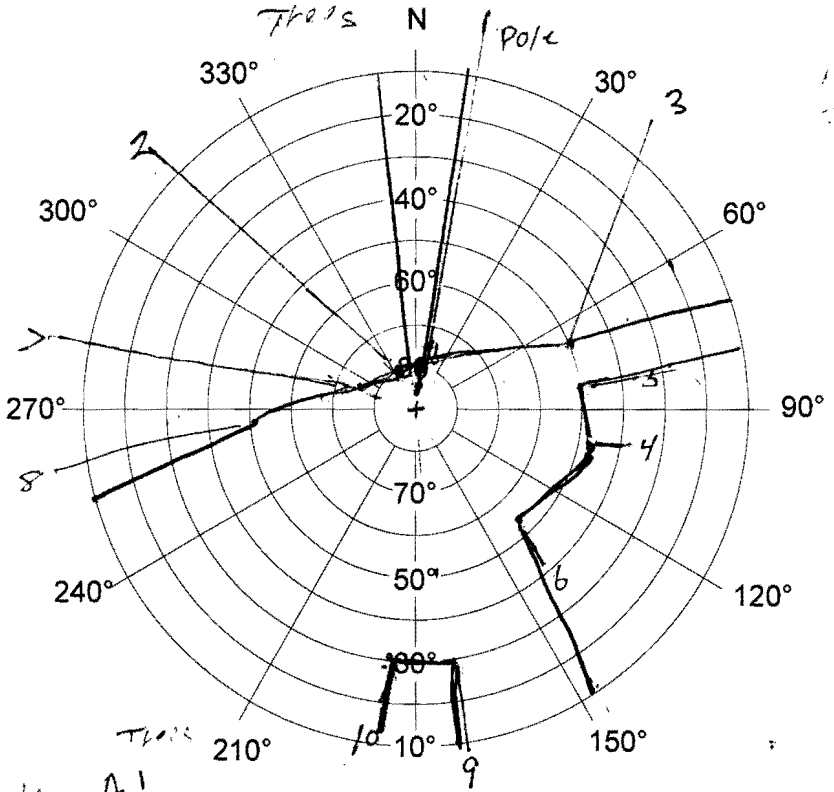
To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of* MAIN STREET (US 460/VA-10/VA-32) AND EAST CONSTANCE BLVD (US 460/US 58 BUS) GO EAST 0.9 MI TO OLD PINNER ST. GO SOUTH 132 FT TO A GRAVEL LOT ON LEFT. GO 112 FT EAST TO A GRAVEL ROAD. GO 180 FT S ON GRAVEL RD. STATION IS NORTH OF THE RAILROAD AND EAST OF THE GRAVEL ROAD

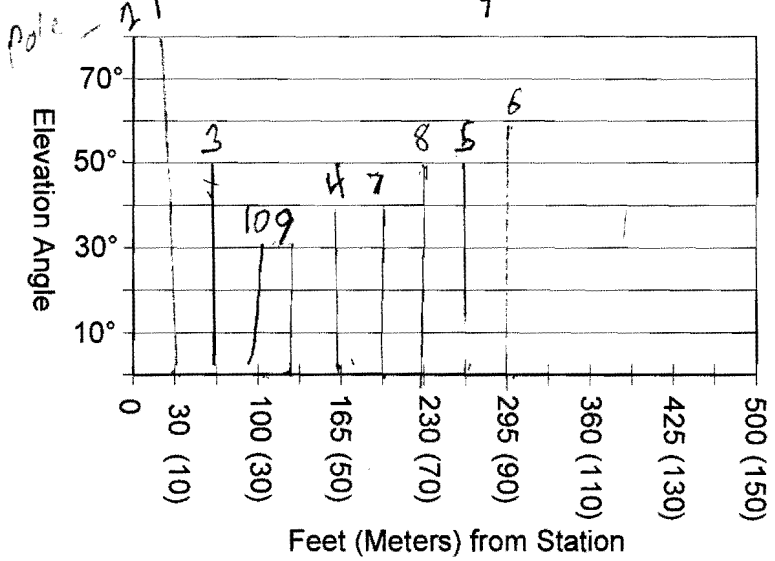
Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is* 56.0 FT NE OF RR CROSSING OF GRAVEL RD; 59.6 FT ENE OF WOODEN RR CROSSING SIGN POST; 29 FT N OF ℄ RR AND ABOUT 2 FT LOWER THAN THE RR; 27 FT N OF NORTH RAIL OF RR, 2.0 FT SE OF TELEPHONE POLE NO. 30 TB WITH A GUY WIRE; 1 FT EAST OF A METAL WITNESS POST WITH A NGS SIGN. SET ABOUT 0.5 FT BELOW MEAN GROUND LEVEL.

Station Visibility Obstruction Diagram	Station Designation: G468 1978

☐ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.





County:	Reconnaissance By: G NOTTAGE
Agency or Company:	Height above mark (meters): m
Agency or Company Telephone Number:	(757) 441 - 5460

Note Trees Block
See sketch

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

Survey Station Description and Recovery Form

Station Designation	4 Char Identifier	State	County
G 468	G468	VA	

Permanent Record Identifier (from NSRS)	Elevation		Country
	Feet	Meters	
JFX 2233	24.54	7.481	

Latitude	Longitude
N 31 ° 44 ' 16 "	W 76 ° 33 ' 57 "

Original Description (Check one)

- [ ] Preliminary (mark has not been set yet)
- [ ] A newly set mark
- [x] A recovered mark

Established by: NGS
Chief of Party (initials)
Date / / 1978

Recovery Description (Check one)

- [ ] Full description of a station not NSRS
- [ ] Full description of a station in NSRS
- [ ] Partial description of a station not NSRS

Established by:
Chief of Party (initials)
Date: / /

Monument Stability (Check one)

- [ ] A Of the most reliable nature; expected to hold well
- [x] B Will probably hold position and elevation well
- [ ] C May hold well, but subject to ground movement
- [ ] D Of questionable or unknown reliability

Recovery Condition (Check one)

- [x] G Recovered in good condition
- [ ] N Not recovered or not found
- [ ] P Poor, disturbed, or mutilated
- [ ] X Surface mark known destroyed

Setting Information

Marker Type

- [ ] Rod
- [x] Disk
- [ ] Other:

Rod Depth ft. / m
Sleeve Depth ft. / m

Setting Type

- [ ] Bedrock
- [ ] Concrete
- [x] Other:

Agency Inscription

- [ ] NGS
- [x] CGS
- [ ] Other:

Stamping: Agency Inscription: G 468 1978

Monument is:

- [ ] Flush
- [ ] Projecting cm
- [x] Recessed 15 cm

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FX 2233 CORRECTIONS to NGS DATA SH

Special Type (Check all applicable)	Transportation (Check one)
[ ] F Fault monitoring site	[X] C Car
[ ] T Tidal station	[ ] P Light Truck, (pickup, carry-all etc.)
[X] Control Station (FBN/CBN/Benchmark)	[ ] X Four wheel drive vehicle required
[ ] Airport Control Station (PACS/SACS)	[ ] Other:
[ ] Yes [ ] No Mark suitable for GPS use?	[ ] Yes [ ] No Pack Time?

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

ABOUT 0.9 MILE EAST ALONG THE SEABOARD COAST LINE RR FROM THE RR STATION IN SUFFOLK, VA. SET AT A GRAVEL ROAD CROSSING THAT RUNS BETWEEN SUFFOLK MARINE AND A GARMET FACTORY

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

FROM THE Jct. OF US 58/SR 460 & EAST PINNER ST IN SUFFOLK VA PROCEED 0.2 MI SW to OLD PINNER ST; TURN LEFT ON OLD PINNER ST AND GO 0.3 MILES AND TURN RIGHT INTO PARKING LOT AND ENTER GRAVEL ROAD WHICH LEADS to RAILROAD CROSSING.

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

THE MARK IS 56.0 FT NE OF RR CROSSING OF GRAVEL ROAD; 59.6 FT ENE OF WOODEN RR X ING SIGN POST; 29 FT N OF ℄ RR AND ABOUT 2 FT LOWER THAN; 27 FT N OF NORTH RAIL OF RR, 2.0 FT SE OF TELEPHONE POLE No. 304R WITH a Guy Wire; 1 FT EAST OF A METAL WITNESS POST WITH A CGS SIGN.
SET ABOUT 0.5FT BELOW MEAN GROUND LEVEL

MAY BE COVERED SLIGHTLY. Note! Someone dug a deep hole ABOUT 2 FT SW OF MARK.

OMB Approved 2120-0557
Expires 3/31/2010

Federal Aviation Administration

Airport Surveying-GIS Program

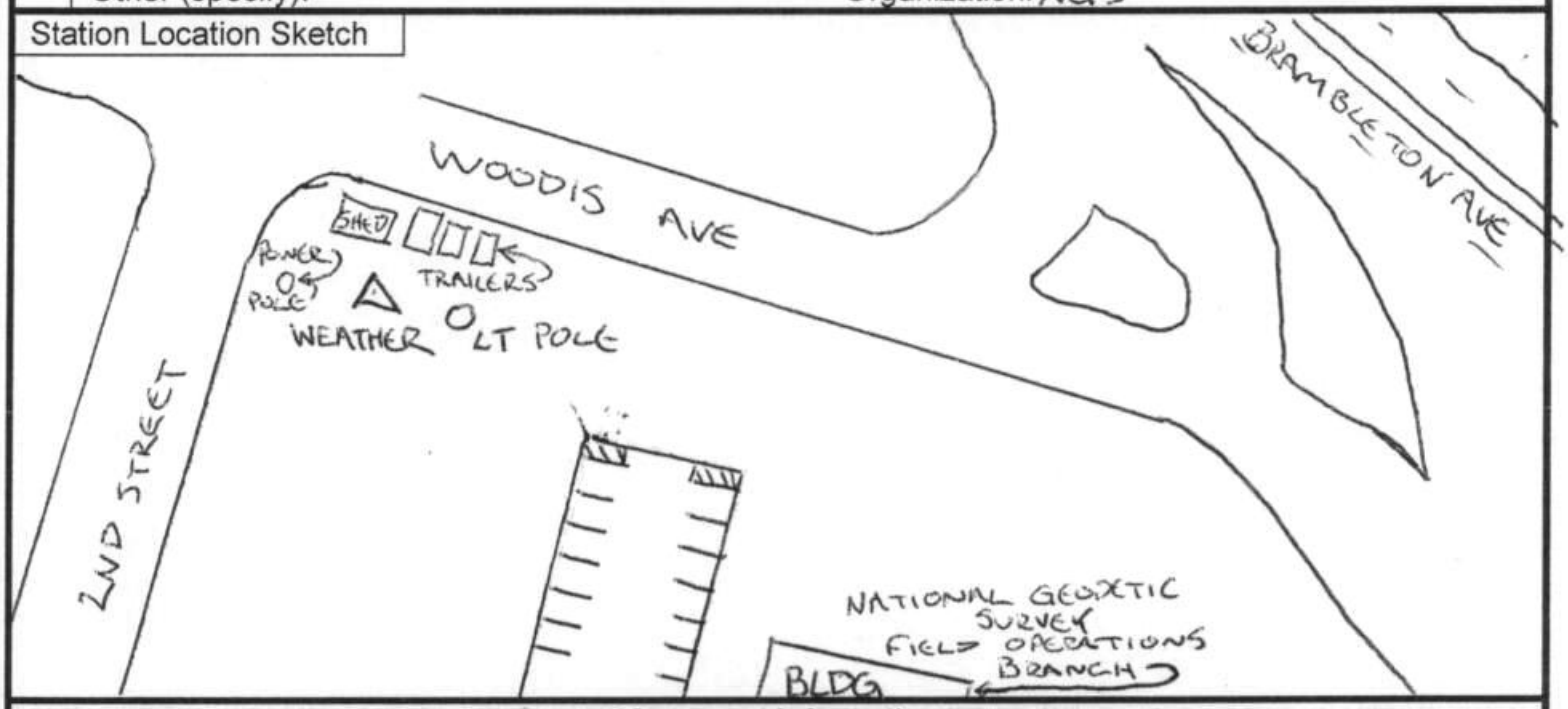
Station Location Sketch and Visibility Diagram

Airport Name or Location Name: NGS FIELD OPERATIONS NORFOLK, VA

Station Designation	Permanent Identifier (PID)	Airport Location Identifier	Date
WEATHER	DG9068		12/15/08

☐ PACS	☐ SACS	☐ TSM	☒ BM	☐ FBN	☐ CBN	
☐ Other (specify):			Organization: NGS			

Station Location Sketch



Monument Information

Monument Stability Quality

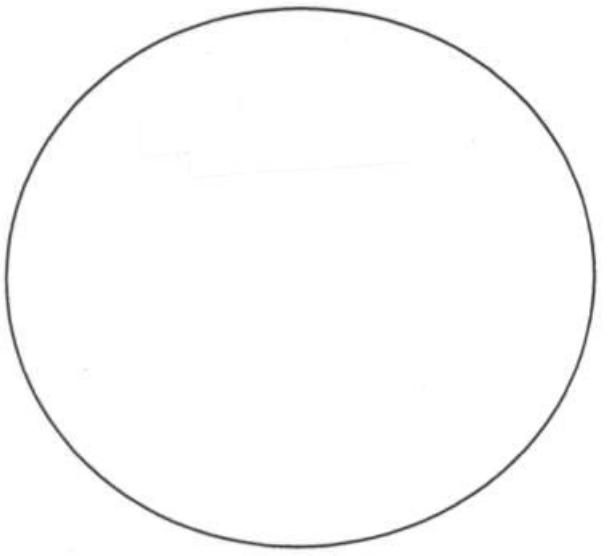
☐ A Most Stable ☐ B Excellent ☒ C Good ☐ D Poor

Monument is		*Disk is set*
☐ Recessed	cm	☐ in bedrock
☒ Flush with ground		☒ in concrete
☐ Projecting	cm	☐ In structure

General Station Location (describe the general location include airline distances to three towns or mapped features): *The station is located*

IN NORFOLK, VA 1.5 MI WEST THE INTERSECTION OF VIRGINIA BEACH BLVD AND TIDEWATER DR

Sketch of Disk



Station Designation: WEATHER				
Land Ownership:		Public		Private

Land Owner Contact Information (optional)

Land Owner Name DEPARTMENT OF COMMERCE
Street Address 5336 FRONT STREET
City NORFOLK State: VA Zip Code: 23510
Telephone Number (757) 441 - 5460 Fax: ( ) -
Email

To Reach Narrative (describe using leg by leg distances and directions from major road intersection to the mark) : *To reach the station from the intersection of*

SEE DATASHEET

Monument Description and Measurements (provide at least three (3) measurements to permanent, identifiable nearby objects and a description of the monument size, shape, height etc.): *The station is*

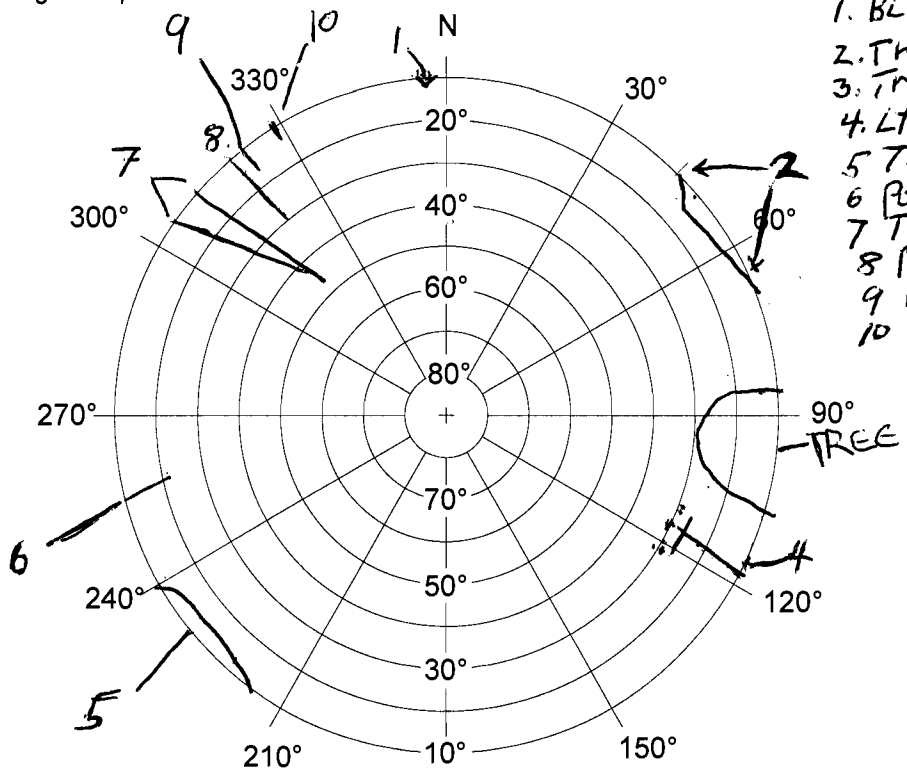
SEE DATASHEET

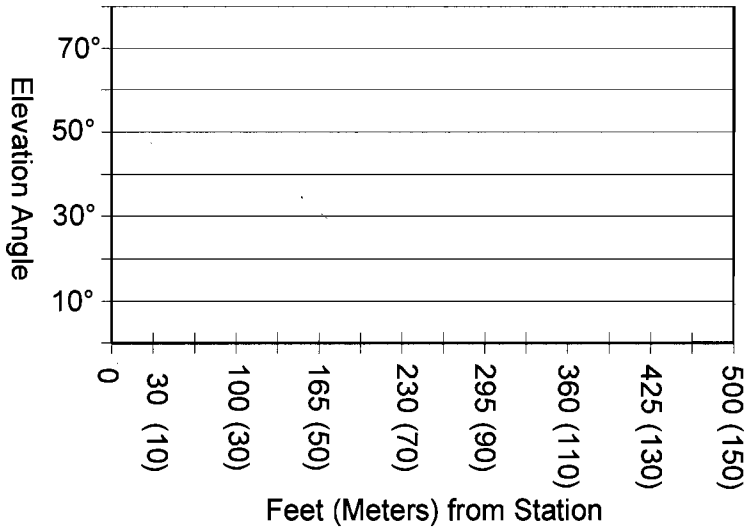
Station Visibility Obstruction Diagram	Station Designation: WEATHER

☐ Check if no obstructions above 10°

Using the plan and profile views below, identify potential obstructions to satellite visibility at the station. In the plan view use a horizontal line to indicate the azimuth. Place the center of the line at the elevation angle of the obstruction above the horizon. In the profile view use a vertical line to indicate the distance the obstructions is from the station. Extend the line up to the appropriate elevation angle. Identify each obstruction using a unique number.

1. BLDG
2. Trailer
3. Tree
4. Lt Pole
5 Tree
6 Pole
7 Tower
8 Pole.
9 Pole
10 Pole





County:	Reconnaissance By: K. JORDAN
Agency or Company: NGS	Height above mark (meters): 2.0 m
Agency or Company Telephone Number:	(757) 441 - 5460