GPD GROUP

November 17, 2023
Job Number 2017748.70

Brenda Delbert
Director of Building and Planning
City of Wheeling
1500 Chapline Street
Wheeling, WV 26003

RE: AT&T Mobility – W047 Wheeling College
908 National Road
Wheeling, WV 26003

Dear Ms. Delbert,

Please accept this analysis demonstrating the proposed construction's compliance with 14 CFR 77 and analyzing whether the tower requires lighting.

Based on the below applicable points from §77.9, the proposed construction does not require notice to the FAA.

The attached report from the FAA's Notice Criteria Tool also confirms that the proposed construction does not exceed the notice criteria.

(a) Any construction or alteration that is more than 200 ft. AGL at its site.

The proposed construction does not exceed 200 ft. AGL.

(b) Any construction or alteration that exceeds an imaginary surface extending outward and upward at any of the following slopes:

(1) 100 to 1 for a horizontal distance of 20,000 ft. from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway more than 3,200 ft. in actual length, excluding heliports.

The proposed construction is not within 20,000 ft. of a runway at an airport with its longest runway more than 3,200 ft. in actual length. The coordinates of the proposed tower (with FAA accuracy code 1A) have been attached to this analysis along with the FAA search results for airports within 10 nautical miles of the proposed tower, airport information for the only airport within 10 nautical miles of the proposed tower (including coordinates for the ends of each runway), and FAA Distance Calculation Tool results indicating the distance to the end of each runway in order to confirm the claims made in this and the next two points.

(2) 50 to 1 for a horizontal distance of 10,000 ft. from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway no more than 3,200 ft. in actual length, excluding heliports.

The proposed construction is not within 10,000 ft. of a runway at an airport with its longest runway no more than 3,200 ft. in actual length.

(3) 25 to 1 for a horizontal distance of 5,000 ft. from the nearest point of the nearest landing and takeoff area of each heliport described in paragraph (d) of this section.

The proposed construction is not within 5,000 ft. of a landing and takeoff area.

(d) Any construction or alteration on any of the following airports and heliports:

(1) A public use airport listed in the Airport/Facility Directory, Alaska Supplement, or Pacific Chart Supplement of the U.S. Government Flight Information Publications;

The proposed construction is not on any airport.

(2) A military airport under construction, or an airport under construction that will be available for public use;

The proposed construction is not on any airport.

(3) An airport operated by a Federal agency or the DOD.

The proposed construction is not on any airport.

(4) An airport or heliport with at least one FAA-approved instrument approach procedure.

The proposed construction is not on any airport or heliport.

Based on the below applicable points from §77.17, the proposed construction does not exceed any obstruction standards.

(a) An existing object, including a mobile object, is, and a future object would be an obstruction to air navigation if it is of greater height than any of the following heights or surfaces:

(1) A height of 499 feet AGL at the site of the object.

The proposed construction does not exceed 499 feet AGL.

(2) A height that is 200 feet AGL, or above the established airport elevation, whichever is higher, within 3 nautical miles of the established reference point of an airport, excluding heliports, with its longest runway more than 3,200 feet in actual length, and that height increases in the proportion of 100 feet for each additional nautical mile from the airport up to a maximum of 499 feet.

This criterion is only applicable for construction within 5.99 nautical miles of the airport reference point (3 nautical miles plus (499-200)/100 nautical miles). The proposed construction is 6.22 nautical miles from the airport reference point, thus not exceeding this standard. The attached FAA Distance Calculation Tool result substantiates this claim.

(3) A height within a terminal obstacle clearance area, including an initial approach segment, a departure area, and a circling approach area, which would result in the vertical distance between any point on the object and an established minimum instrument flight altitude within that area or segment to be less than the required obstacle clearance.

The proposed construction does not exceed these heights.

(4) A height within an en route obstacle clearance area, including turn and termination areas, of a Federal Airway or approved off-airway route, that would increase the minimum obstacle

clearance altitude.

The proposed construction does not exceed these heights.

(5) The surface of a takeoff and landing area of an airport or any imaginary surface established under § 77.19, 77.21, or 77.23. However, no part of the takeoff or landing area itself will be considered an obstruction.

The proposed construction does not exceed the surface of a takeoff or landing area or any imaginary surface established under §§ 77.19, 77.21, or 77.23.

Based on the requirements put forth in FAA Advisory Circular AC 70/7460-1M, the proposed tower does not require lighting.

The proposed construction does not exceed any obstruction standard contained in 14 CFR Part 77 nor does it exceed an overall height of 200 feet above ground level.

In summary, the proposed construction is in compliance with 14 CFR 77 and the tower does not require lighting.

Sincerely,

GPD Group

Michael Beddow, PE
Associate Project Manager

Notice Criteria Tool

Notice Criteria Tool - Desk Reference Guide V_2018.2.0

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9.

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

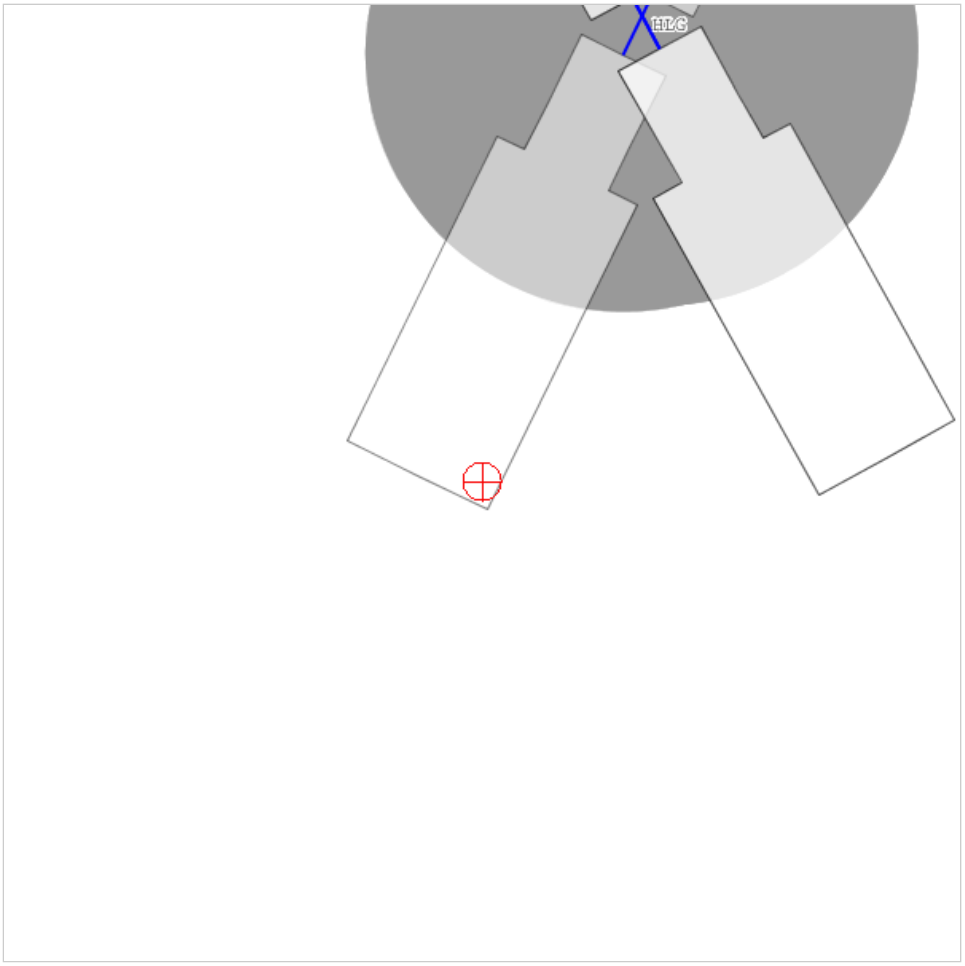
If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

* **Structure Type:**	TOWER | Antenna Tower Please select structure type and complete location point information.
Latitude:	40 Deg 4 M 37.32 S N
Longitude:	80 Deg 41 M 26.44 S W
Horizontal Datum:	NAD83
Site Elevation (SE):	792 (nearest foot)
Structure Height :	89 (nearest foot)
Is structure on airport:	(●) No ( ) Yes

Results

You do not exceed Notice Criteria.


HLG

Appalachian Professional Associates, LLC
Complete Surveying Services
Dale A. Exline, Professional Surveyor
254 Exline Road Jackson, OH 45640
Phone: (740) 286-9966 Fax: (740) 286-9911

August 9, 2021

AT&T Mobility
Wheeling, WV
W047
Ohio County, WV

We have determined the following information regarding the center of the proposed tower for the above referenced cell site:

NAD 1983

Latitude	N 40° 04' 37.32"
Longitude	W 80° 41' 26.44"

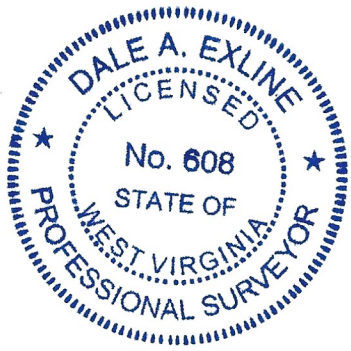
NAVD 1988

Ground Elevation: 791.9' AMSL

We certify that the coordinates provided are accurate with FAA Horizontal Accuracy Code 1, +/- 20 feet and the elevations provided are accurate within FAA Vertical Accuracy Code A, +/- 3 feet.

Sincerely
Appalachian Professional Associates, LLC

Dale A. Exline 08/09/2021
Dale A. Exline
West Virginia Registered Surveyor 608



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Circle Search For Airports Results

Records 1 to 1 of 1 — Page 1 of 1

Locator Id	Name	Site Type	City	State	Latitude	Longitude	Distance(NM)	Azimuth
HLG	WHEELING OHIO COUNTY	Airport	WHEELING	WV	40° 10' 30.04" N	80° 38' 46.57" W	6.21	199.19°

Rows per Page: 20

Records 1 to 1 of 1 — **Page:** 1 — Page 1 of 1

Aeronautical Information Services

Airport ID

Data Effective: **10/05/2023 - 11/02/2023**

HLG (KHLG)

WHEELING OHIO COUNTY

WHEELING , WV - UNITED STATES

All Summary Operations Communications NAVAIDS Weather RWY 03/21 RWY 16/34 Heliports Charts Contacts Remarks

Summary

Latitude/Longitude	40-10-30.041 N / 80-38-46.566 W
Elevation	1194.3 FT
Variation	7 W 1985
From city	8 miles NE of WHEELING, WV
ARTCC	ZOB
Section chart	CINCINNATI
Time Zone	UTC-5(-4DT)

View active NOTAMS

OPERATIONS

Airport Status	Operational
Minimum Operational Network	No

Facility use	Open to the public
Control Tower	Airport traffic control tower
Tower Hours	0700-2200 MON-FRI; 1000-2000 SAT-SUN
Apch/Dep Hours	
FSS	ELKINS FSS (EKN) Phone: 703-724-4288 Toll Free: 1-800-WX-BRIEF
NOTAMs Facility	HLG (WHEELING OHIO COUNTY)
Attendance	MON-FRI 0700-2200 SAT-SUN 0800-2000
Wind Indicator	Lighted
Segmented Circle	No
Lights	SEE RMK WHEN ATCT CLSD ACTVT MALSF RWY 03; REIL RWY 21 & 34; PAPI RWY 34; HIRL RWY 03/21; MIRL RWY 16/34; TWY LGTS EXCP TWY A - CTAF.
Beacon	WG SS-SR
Landing Fee	
Fuel	100LL, A
Fire and Rescue	
Int'l Operations	Not a Landing Rights Airport Not an Airport of Entry

COMMUNICATIONS

UNICOM:	122.95 MHz	
CTAF:	118.1 MHz	
ATIS:	None	
RADAR SERVICE:	Approach / Departure	
Other - (BUVSE DP):	119.35 MHz	BUVSE DP
Other - (CLASS B):	119.35 MHz	CLASS B
	285.575 MHz	CLASS B
Other - (NUVDY DP):	119.35 MHz	NUVDY DP
PITTSBURGH APPROACH/DEPARTURE:	119.35 MHz	APCH/P DEP/P
	125.275 MHz	APCH/P DEP/P
	285.575 MHz	APCH/P DEP/P

PITTSBURGH CLERANCE DELIVERY:	125.275 MHz	CD/P	;WHEN TWR CLSD
WHEELING EMERGENCY:	121.5 MHz	EMERG	
	243 MHz	EMERG	
WHEELING GROUND:	121.75 MHz	GND/P	
WHEELING TOWER:	118.1 MHz	LCL/P	
	257.8 MHz	LCL/P	

NAVAIDS

ILS/DME:

Rwy End	Type	ID	Frequency	Channel	Remarks
Rwy 03	ILS	I-HLG	109.7 MHz		• ILS UNUSBL WHEN ATCT CLSD. • GS UNUSBL FOR CPD APCHS BLW 1,401 FT. • ILS CLASSIFICATION CODE IA.

NAVAIDS:

Type	ID	Name	Frequency	Hours	Distance	Bearing	Remarks
VOR/DME	HLG	WHEELING	114.25 MHz	24 Hours	6.2 nm	215.0°	• OPERATIONAL RESTRICTED • VOR UNUSBL 005-045; 105-190 BYD 7 NM; 315-320 BLW 3000 FT.
VOR/DME	AIR	BELLAIRE	117.1 MHz	24 Hours	12.3 nm	39.6°	• OPERATIONAL IFR
NDB	CFX	CADIZ	239 KHz	24 Hours	17.3 nm	102.3°	• OPERATIONAL VFR ONLY • NDB UNMNTD. • NDB OTS INDEFLY.
DME	MMJ	MONTOUR	112 MHz	24 Hours	28.0 nm	227.9°	• OPERATIONAL RESTRICTED • DME UNUSBL 126T-165T BYD 10 NM BLW 5000 FT; 126T-165T BYD 15 NM; 350T-360T BYD 30 NM.
VOT	CAK	AKRON/CANTON REGIONAL	110.6 MHz	24 Hours	57.4 nm	140.5°	• OPERATIONAL IFR • IDENT IS A SERIES OF DOTS.

WEATHER

ID	Type	Frequency	Phone	Distance	Remarks
HLG	WX ASOS	127.375 MHz	304-277-3504	0.0 nm	
2G2	WX AWOS-3	121.625 MHz	740-275-4862	11.7 nm	
AFJ	WX AWOS-3PT	119.175 MHz	724-228-3529	16.5 nm	
MPG	WX AWOS-3	119.05 MHz	304-845-2959	18.1 nm	
PIT	WX ASOS		412-472-0145	27.2 nm	

RUNWAY 03/21

Dimensions	5002 ft. x 150 ft.
Surface Type	ASPH
Surface Condition	FAIR
Treatment	GRVD
Runway Edge Lights	High Intensity
PCN	
Single Wheel	120,000 lbs
Double Wheel	170,000 lbs
Double Tandem	290,000 lbs
Dual Double Tandem	

Base End: 03

True Alignment	26°
Traffic Pattern	Left
Markings	Precision instrument
Markings Condition	Fair
Latitude	40-10-6.8303 N
Longitude	80-39-4.7232 W
Elevation	1170 ft.
Threshold Crossing Height	
Visual Glide Path Angle	
Visual Slope Indicator	
Approach Lights	MALSF
Runway End Identifier Lights	No

TDZE	1171.6 ft.

Reciprocal End: 21

True Alignment	206°
Traffic Pattern	Left
Markings	Precision instrument
Markings Condition	Fair
Latitude	40-10-51.2554 N
Longitude	80-38-36.4646 W
Elevation	1194.3 ft.
Threshold Crossing Height	42 ft. AGL
Visual Glide Path Angle	3°
Visual Slope Indicator	2-box VASI on left UNUSBL BYD 8 DEGS LEFT OF CNTRLN.
Approach Lights	
Runway End Identifier Lights	Yes
TDZE	1194.3 ft.

RUNWAY 16/34

Dimensions	4499 ft. x 150 ft.
Surface Type	ASPH
Surface Condition	FAIR
Treatment	NONE
Runway Edge Lights	Medium Intensity
PCN	
Single Wheel	110,000 lbs
Double Wheel	143,000 lbs
Double Tandem	230,000 lbs
Dual Double Tandem	

Base End: 16

True Alignment	151°

Traffic Pattern	Left
Markings	Non-precision instrument
Markings Condition	Fair
Latitude	40-10-50.5962 N
Longitude	80-38-56.1237 W
Elevation	1171.4 ft.
Threshold Crossing Height	
Visual Glide Path Angle	
Visual Slope Indicator	
Runway End Identifier Lights	No
TDZE	1177.6 ft.

Reciprocal End: 34

True Alignment	331°
Traffic Pattern	Left
Markings	Non-precision instrument
Markings Condition	Fair
Latitude	40-10-11.7035 N
Longitude	80-38-28.051 W
Elevation	1191 ft.
Threshold Crossing Height	42 ft. AGL
Visual Glide Path Angle	3°
Visual Slope Indicator	4-light PAPI on left PAPI OTS INDEFLY.
Runway End Identifier Lights	Yes REIL OTS INDFLY.
TDZE	1191 ft.

HELIPORTS

None

CHARTS

Chart data valid from 0901Z 10/05/23 to 0901Z 11/02/23.

AIRPORT DIAGRAM for HLG

Minimums

ALTERNATE MINIMUMS	TAKEOFF MINIMUMS

Instrument Approach Procedure (IAP) Charts

ILS OR LOC RWY 03	RNAV (GPS) RWY 03
RNAV (GPS) RWY 16	RNAV (GPS) RWY 21
RNAV (GPS) RWY 34	VOR RWY 21

CONTACTS

OWNER

OHIO CO COMSN
1500 CHAPLINE ST
WHEELING, WV 26003
UNITED STATES
Phone: 304-234-3628

MANAGER

RUSSEL W. ESCUE
115 SKYWAY LANE
WHEELING, WV 26003
UNITED STATES
Phone: 304-234-3865

REMARKS

- PAVED SVC RD EXTENDS FM END RWY 03 TO FAA EQUIP; ACCESS CONTROLLED.
- BIRDS AND DEER ON AND INVOF ARPT.

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Distance Calculation Tool

Distance to Runway 03

Instructions:

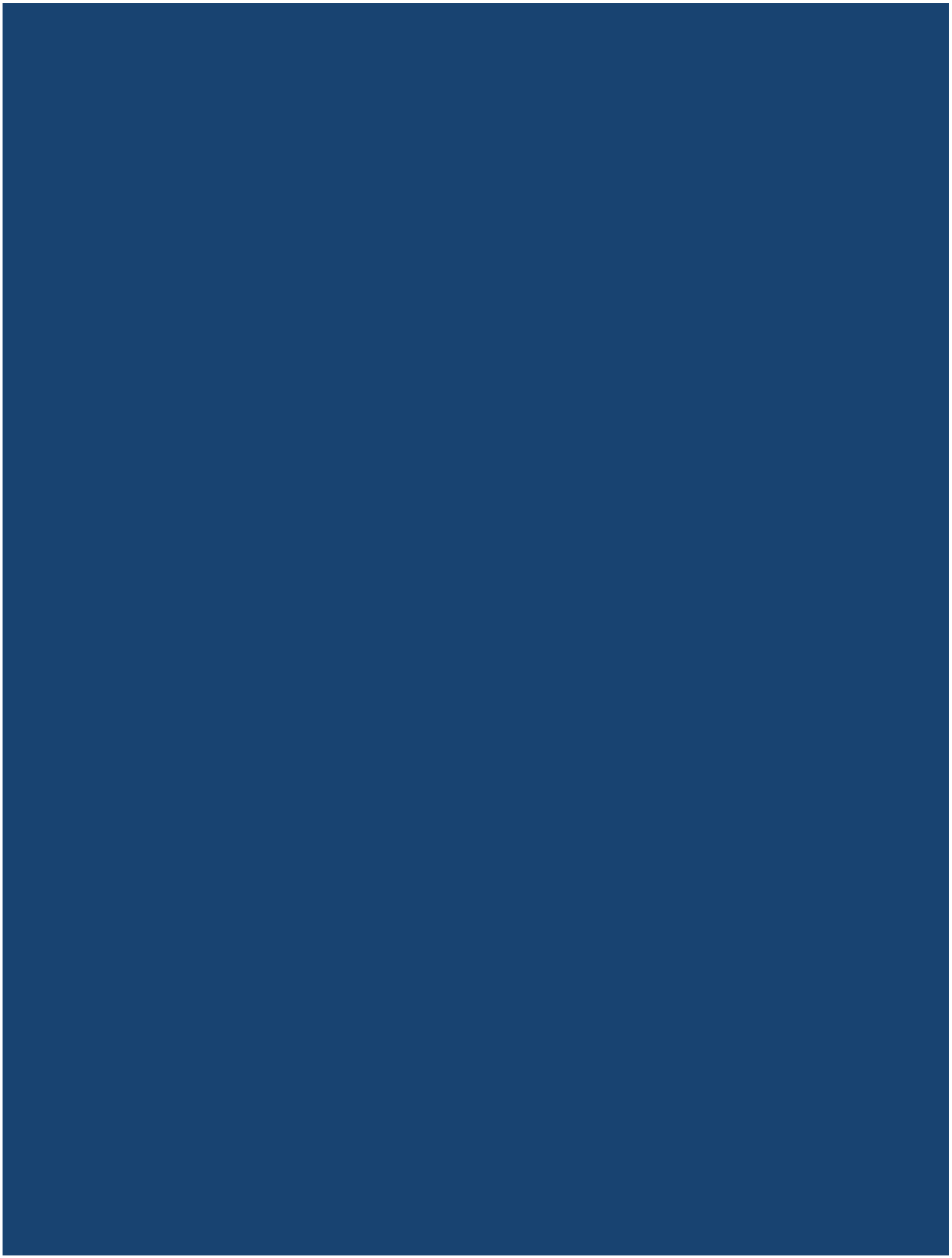
- Enter two points and click submit to retrieve the distance between those two points.

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	40	4	37.32	N	80	41	26.44	W
2	40	10	6.830	N	80	39	4.723	W

Horizontal Datum: NAD83

Results:

Feet:	35114.5
Miles:	6.65
Nautical Miles:	5.779
Meters:	10702.9
Kilometers:	10.703



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Distance Calculation Tool

Distance to Runway 16

Instructions:

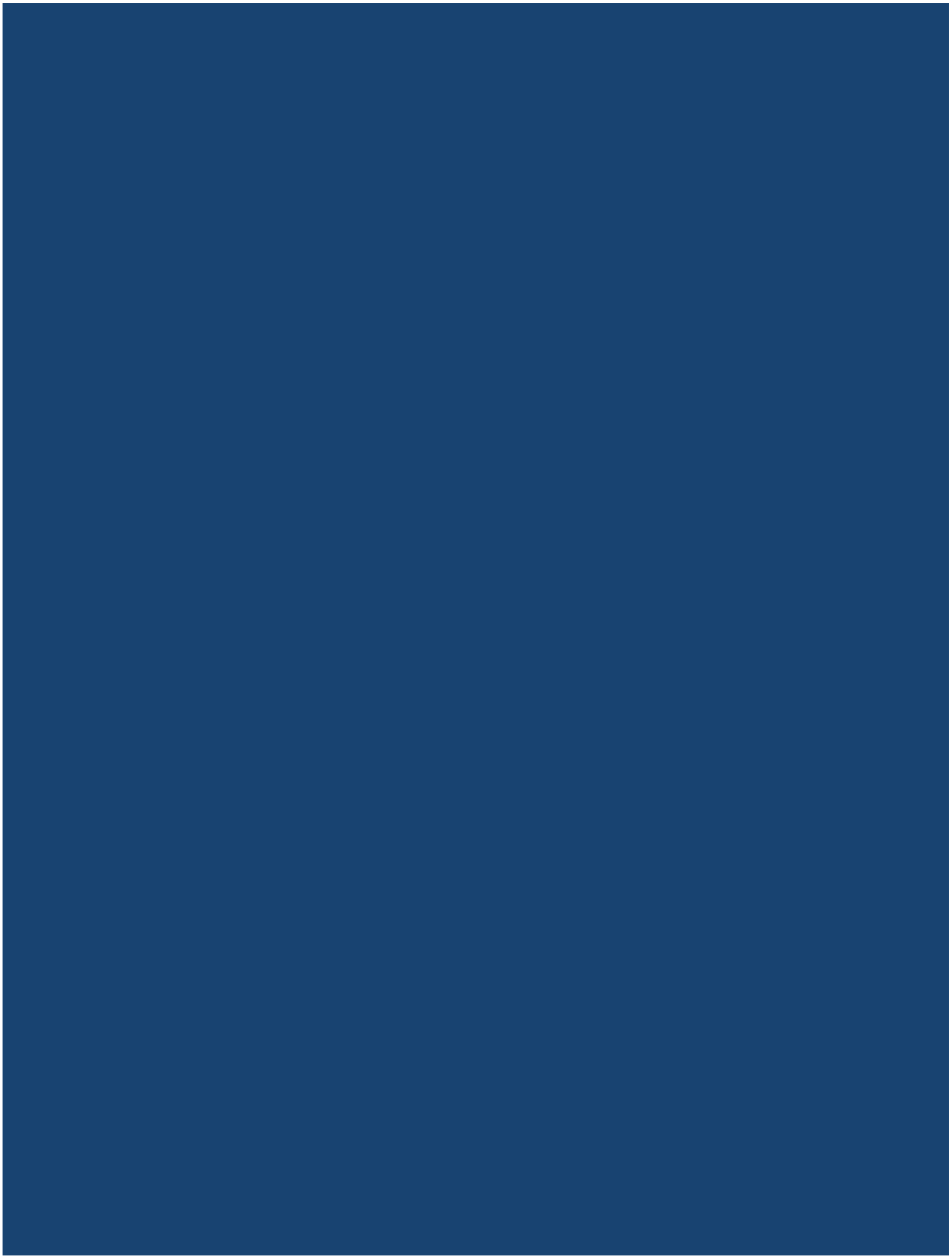
- Enter two points and click submit to retrieve the distance between those two points.

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	40	4	37.32	N	80	41	26.44	W
2	40	10	50.60	N	80	38	56.12	W

Horizontal Datum: NAD83

Results:

Feet:	39536.852
Miles:	7.488
Nautical Miles:	6.507
Meters:	12050.833
Kilometers:	12.051



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Distance Calculation Tool

Distance to Runway 21

Instructions:

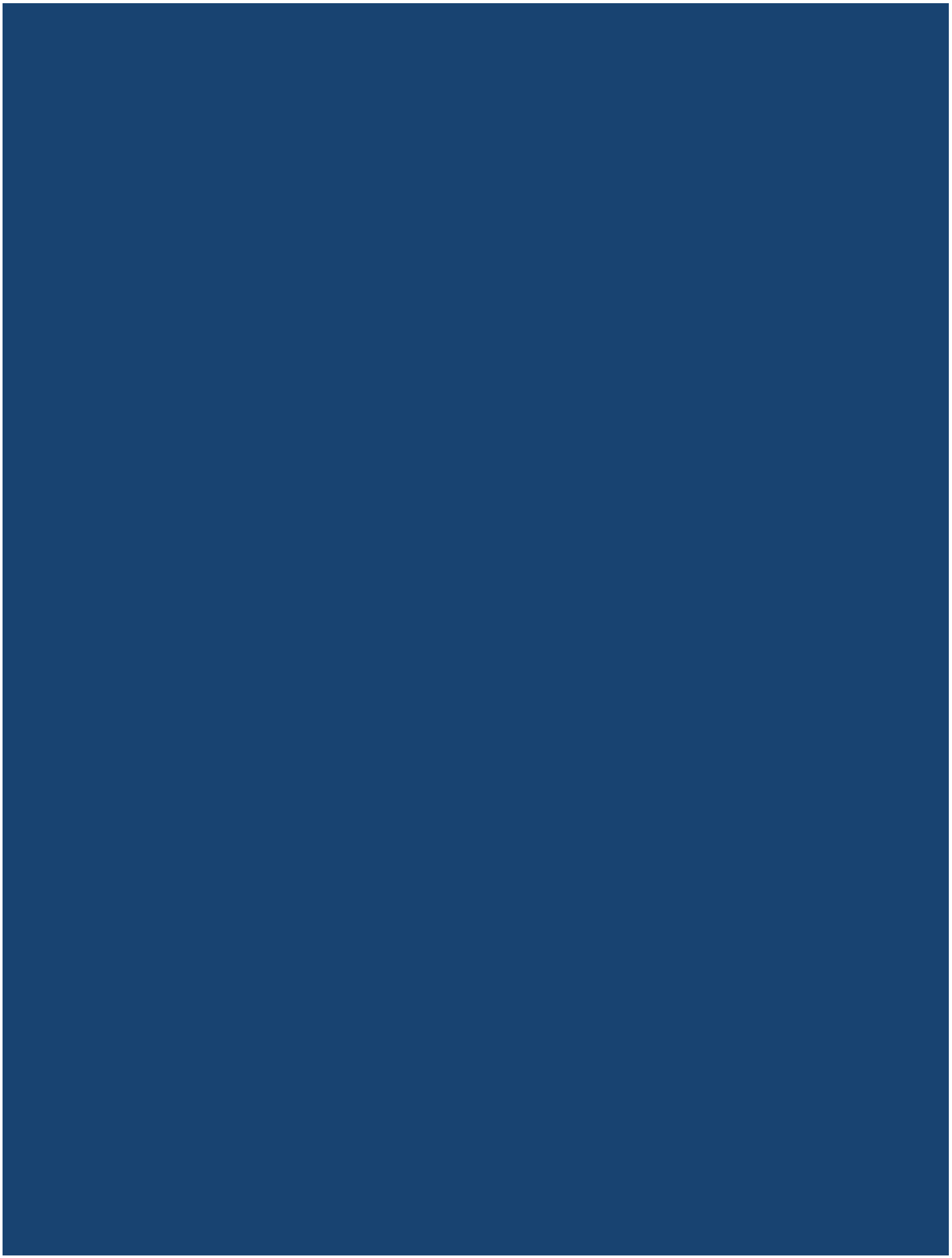
- Enter two points and click submit to retrieve the distance between those two points.

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	40	4	37.32	N	80	41	26.44	W
2	40	10	51.25	N	80	38	36.46	W

Horizontal Datum: NAD83

Results:

Feet:	40076.555
Miles:	7.59
Nautical Miles:	6.596
Meters:	12215.334
Kilometers:	12.215



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Distance Calculation Tool

Distance to Runway 34

Instructions:

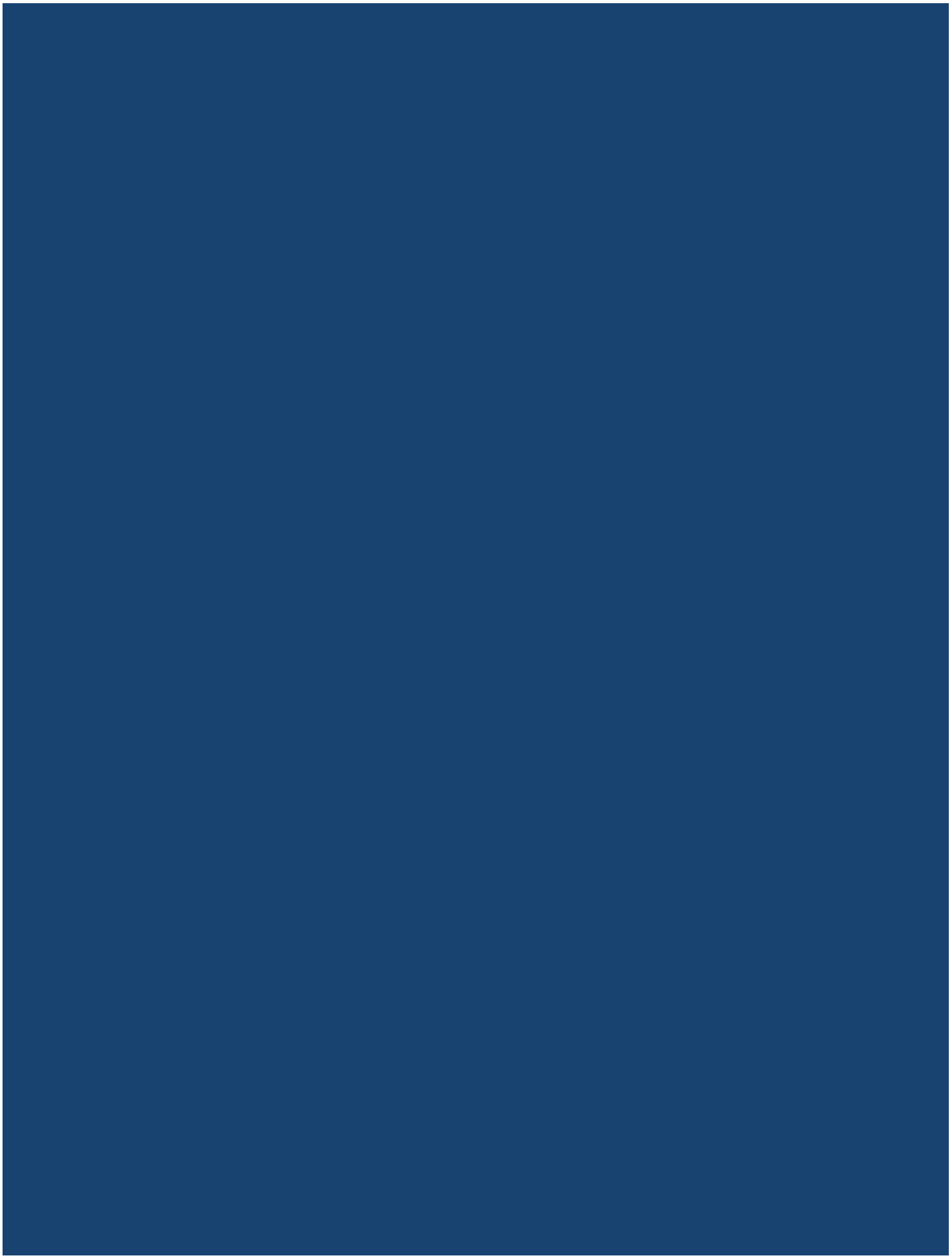
- Enter two points and click submit to retrieve the distance between those two points.

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	40	4	37.32	N	80	41	26.44	W
2	40	10	11.70	N	80	38	28.05	W

Horizontal Datum: NAD83

Results:

Feet:	36564.677
Miles:	6.925
Nautical Miles:	6.018
Meters:	11144.913
Kilometers:	11.145



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Distance Calculation Tool

Distance to Airport Reference Point

Instructions:

- Enter two points and click submit to retrieve the distance between those two points.

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	40	4	37.32	N	80	41	26.44	W
2	40	10	30.04	N	80	38	46.57	W

Horizontal Datum: NAD83

Results:

Feet:	37791.527
Miles:	7.157
Nautical Miles:	6.22
Meters:	11518.857
Kilometers:	11.519