



REQUEST FOR QUALIFICATIONS

On-Call Professional Engineering Services

Tweed-New Haven Regional Airport

April 2022

LEGAL NOTICE

TWEED-NEW HAVEN AIRPORT AUTHORITY TWEED-NEW HAVEN REGIONAL AIRPORT REQUEST FOR QUALIFICATIONS

The Tweed-New Haven Airport Authority (TNHAA), Lessee/Operator of Tweed-New Haven Regional Airport (HVN) in the City of New Haven and Town of East Haven, Connecticut is requesting Statement of Qualifications from engineering firms with demonstrated professional competence in Airport Engineering for airside, terminal and landside facilities and ancillary features. The services to be provided shall include preparation of Design Drawings and Contract Documents, Permitting, Bid Phase services, Construction Phase services including Resident Engineering, and Closeout services.

These services are required for the implementation of near-term (2022-2026) Capital Improvement Program (CIP) projects at Tweed New Haven Regional Airport (HVN) identified in the recently conducted Airport Master Plan Update Study. TNHAA intends to select firms for inclusion in a prequalified list to whom Requests for Technical Proposals (RFP) would be issued for individual projects in the CIP.

Interested parties may obtain copies of the Request for Qualifications (RFQ) by calling Tweed-New Haven Regional Airport at telephone no. (203) 466-8833, Ext. 1002 between the hours of 9:00 a.m. and 4:00 p.m., or by visiting the Tweed-New Haven Regional Airport website at www.flytweed.com.

Statement of Qualifications will be received electronically at the above address until 2:00 p.m. on Tuesday, May 10, 2022. Awards will not be made to any firm whose name appears on a debarred list from performing contracts for the Federal Government, the State of Connecticut or any agency of the foregoing.

The proposed contract is under and subject to Executive Order 11246 of September 24, 1965 and to the Equal Opportunity Clause.

The Tweed-New Haven Airport Authority, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. 2000d to 2000d-4) and Title 49, Code of Federal Regulations, Department of Transportation, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the Department of Transportation, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color or national origin in consideration for an award.

The requirements of 49 CFR Part 26, Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs, apply to this contract. The Tweed-New Haven Airport Authority encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

I Introduction

The Tweed-New Haven Airport Authority (TNHAA), Lessee/Operator of Tweed-New Haven Regional Airport (HVN) in the City of New Haven and Town of East Haven, Connecticut is soliciting Statement of Qualifications from engineering firms with demonstrated competence in Airport Engineering for airside, terminal and landside facilities and ancillary features. The services to be provided shall include preparation of Design Drawings and Contract Documents, Permitting, Bid Phase services, Construction Phase services including Resident Engineering, and Closeout services.

The services to be provided are for the implementation of near-term (2022-2026) capital improvement program projects at Tweed New Haven Regional Airport (HVN) as identified in the recently completed Airport Master Plan Update Study, and any other projects which may arise during the near-term, at the sole discretion of the TNHAA. TNHAA intends to select firms for inclusion in a prequalified list to whom Requests for Proposals (RFP) would be issued for individual projects in the CIP.

The projects fall into three categories: Airfield, Building and Aeronautical. The intent of the TNHAA is select up to three qualified firms for each of the categories, to respond to Requests for Technical Proposal for each of projects as the occasion emerge for the start their respective implementation.

It is the policy of TNHAA, that disadvantaged business enterprises, as defined in 49 CFR Part 23, be afforded full opportunity to submit proposals in response to this request. TNHAA shall not discriminate against any person because of race, color, sex, religious preference, or national origin in the award of any contract.

The projects shall conform to design standards and contract provisions of the FAA for airport projects. The projects shall be in compliance with all federal, state and local codes and standards, and contract provisions.

Statements of Qualifications shall be prepared and submitted in accordance with the requirements contained herein.

II Scope of Capital Improvement Program (2022-2026)

The Capital Improvement Program (2022-2026) is derived from the Airport Master Plan Update Study – October, 2021, and would include but not restricted to the following projects:

- A. Airfield
 - 1. West Terminal Apron Rehabilitation
 - 2. Extend Runway 2-20
 - 3. Taxiway Improvements
- B. Buildings:
 - 1. ARFF Station Expansion
 - 2. Snow and Ice Control Material Storage Facility
 - 3. Snow Removal Equipment Storage Facility
- C. Aeronautical:
 - 1. Air Navigational Aids
 - 2. Obstructions Mitigation

The attached HVN Airport Layout Plan depicts the locations of the projects.

III Scope of Services

The projects were formulated as a result of the recent Airport Master Plan Update and some are subject to NEPA Environmental Review. Hence, some initial conceptual designs have been developed which may constitute approximately 10-15 % of overall design. These conceptual designs will be made available to the Proposer selected by this solicitation.

It is expected that the Scope of Services of the selected firm for a project would, by the nature of the particular project, include variously but not be limited to the following:

- A. Data Collection
 - 1. Geotechnical Investigation
 - 2. Topographical surveys
 - 3. Regulatory Environmental Information
 - 4. Non-destructive inspections and testing
 - 5. Destructive testing of pavements
- B. Design Development
 - 1. Planning and Simulation (as applicable)
 - 2. Grading
 - 3. Drainage Design
 - 4. Pavement structures, markings, profiles and sections
 - 5. Runway lighting
 - 6. Runway Navaids
 - 7. Construction Safety and Phasing
- C. Permitting
 - 1. Coordination with Permit Agencies
 - a. Connecticut Department of Transportation
 - b. CT DEEP
 - c. Army Corps of Engineers
 - d. FAA
 - e. City of New Haven
 - f. Town of East Haven
 - 2. Progress Reports
 - 3. Final Preconstruction Report
 - 4. Final Engineer's Cost Estimate
- D. Bidding Phase Services
 - 1. Preparation of Bid Documents: Contracts, Construction Plans and Specifications
 - 2. Assistance to TNHAA to invite bids from suitable firms
 - 3. Pre-bid meeting
 - 4. Bid Opening
 - 5. Tabulation of Bid Submissions
 - 6. Bid Evaluation and Recommendation
- E. Construction Phase Services
 - 1. Construction Contract Administration
 - 2. Contractor Submittals

3. Evaluation of Change Requests
 4. Construction Inspections
 5. Materials Testing
 6. Resident Inspections and engineering
 7. Contractor payment applications certification
 8. Construction Progress Reports
- F. Close out Services
1. As-built plans
 2. Engineer's Final Closeout Report

IV Statements of Qualifications Content

Firms may wish to submit Statements of Qualifications (SOQ) for any or all three of the categories. A separate SOQ will be required for each project category. An SOQ shall be limited to twenty-five (25) pages, excluding cover letter, separators, and table of content. Exhibits, appendices and attachments beyond the page limit will not be reviewed. Submissions shall be electronic in PDF via email.

Each firm shall include in its statement of qualifications the following information:

- A. Identification of the Firm
1. Name of firm, address telephone number, email address and website of main branch and any office which will be involved in any way with this project; Name, Address and telephone number of parent company if any.
 2. Type of firm (e. corporation, partnership), date of formation, size of firm (number of salaried employees, number of hourly employees).
 3. List of subconsultants including information requested in items a and b above; and, elements of work to be performed by each firm.
 4. List of offices that are expected to be involved in any way with this project.
 5. List of all Disadvantaged Business Enterprises (DBEs), which must be certified as such by the Connecticut Department of Transportation or any other Agency in the USA, who will participate in the performance of the work, including type of DBE; certifying agency; elements of the work to be performed; and, approximate amount of work as a percentage of the total project.
- B. Experience of the Firm
1. Lists completed and current similar projects during the last seven years. Describe each project and the firm's involvement, contract amounts, and type of contract (i.e., project management, construction management, design). Provide specific references including responsible owner's representative, address and telephone numbers. Indicate engineer's estimated cost and actual cost of each project.
 2. Describe the firm's familiarity with airport operations; FAA programs, practices and regulations; and construction at an airport or other major transportation terminals.
 3. Describe the firm's familiarity or experience with the following organizations:
 - a. City of New Haven and Town of East Haven
 - b. Federal Aviation Administration
 - c. Connecticut Department of Energy and Environmental Protection

- d. US Army Corps of Engineers
- e. Connecticut State Department of Transportation

C. Personnel

1. Identify key individuals who will be assigned to the projects. For each, furnish education, experience, work history, and other appropriate background information, including references. Provide the email address and telephone number of each individual.

V Selection Process

Statements of Qualifications submitted in response to this Request for Qualifications will be used to select up to three firms for each project category, to prequalify for providing technical proposals for the projects as the time for start of project implementation emerges. The selection of the firms may include an interview, to present relevant details concerning their qualifications and experience; and introduce the individuals who are proposed to be assigned to the projects.

At the discretion and timing of TNHAA, separate Requests for Proposals (RFP) will be issued to the selected firms to submit technical proposals for the Capital Improvement Program projects. On the basis of the technical proposal, the firms will be ranked by preference. The top ranked firm for the project category, will be invited to submit a fee proposal and to enter contract negotiations. If an acceptable contract cannot be negotiated between the selected firm and TNHAA, negotiations will be terminated and TNHAA will initiate negotiations with the firm given second preference. This procedure will continue until a mutually satisfactory contract has been negotiated or until TNHAA has unsuccessfully negotiated with the selected firms.

TNHAA reserves the right in its sole and absolute discretion, to waive any defects in the proposals, to reject all proposals, to award a contract for a portion of the work or to accept that proposal which in its judgment will under all circumstances best serve its interest.

VI Selection Criteria

The criteria to be used in the selection of firms based on qualifications shall include, but not necessarily be limited to the following:

- A. Recent experience of the firm in airport projects comparable to the proposed project.
- B. Experience of personnel assigned to the proposed project.
- C. Level of disadvantaged business enterprise participation in the performance of the work. The TNHAA DBE participation goal for development projects for FY 2021-2023 is 23.1%.
- D. Familiarity with Tweed-New Haven Airport Authority, City of New Haven, Town of East Haven, FAA, Connecticut Department of Energy and Environmental Protection, and Connecticut State Department of Transportation.

VII Submissions

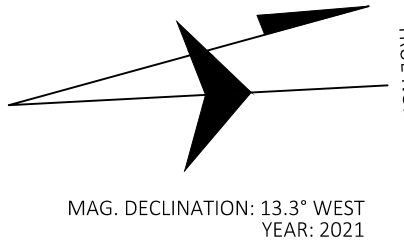
Statements of Qualifications must be marked "HVN On-Call Professional Engineering Services," and the project category, that is: "Airfield, Buildings, or Aeronautical." The SOQ shall be electronically received on or before 2:00 PM on May 10, 2022 at the following address:

TWEED NEW HAVEN REGIONAL AIRPORT
REQUEST FOR QUALIFICATIONS – ON-CALL PROFESSIONAL ENGINEERING SERVICES

Mr. Jeremy Nielson
Airport General Manager
Tweed-New Haven Regional Airport
Email address: jnielson@flytweed.com

Each respondent to this solicitation is required to submit its response electronically in PDF.

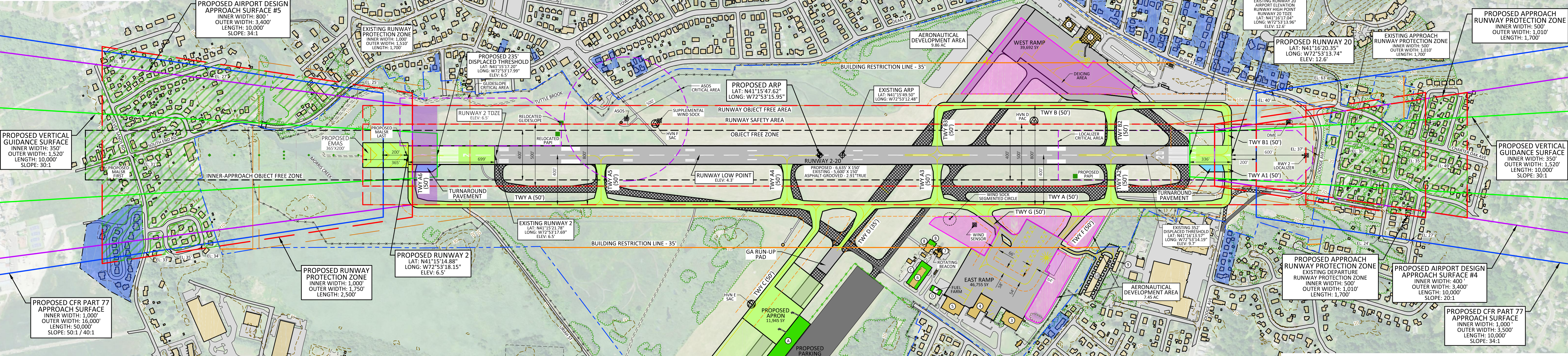
FACILITIES TABLE		
ID	FACILITY NAME	TOP ELEV.
EXISTING		
1	AIRPORT ADMINISTRATION BUILDING	59.4'
2	TERMINAL BUILDING	33.6'
3	FBO BUILDING	45.9'
4	FBO BUILDING	38.3'
5	FBO BUILDING	43.8'
6	AIRFIELD MAINTENANCE	30.9'
7	AIR TRAFFIC CONTROL TOWER	73.9'
8	ARFF BUILDING	33.1'
9	THROUGH-THE-FENCE T-HANGAR	29.9'
10	THROUGH-THE-FENCE T-HANGAR	25.6'
PROPOSED		
A	COMMERCIAL SERVICE TERMINAL BUILDING	N/A
B	ARFF BUILDING EXPANSION	N/A
C	AIRFIELD MAINTENANCE EXPANSION	N/A
D	FUEL FARM EXPANSION	N/A



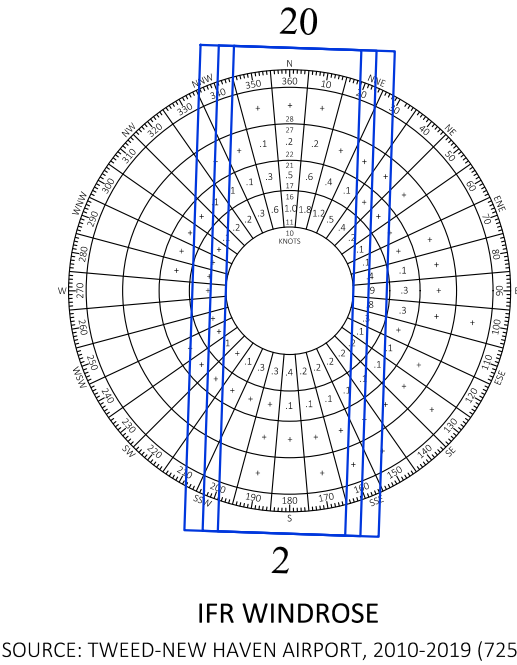
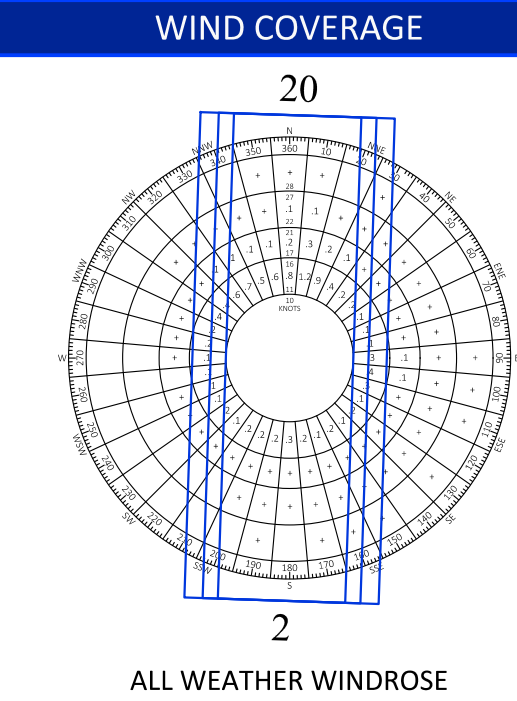
MODIFICATION TO DESIGN STANDARDS					
NO.	STANDARD MODIFIED	FAA STANDARDS	EXISTING CONDITION	PROPOSED ACTION	DATE APPROVED
1	AC/150/5 340-18F, STANDARDS FOR AIRPORT SIGN SYSTEMS, CHAPTER 1, AND SECTION 13.	TAXIWAY DIRECTION SIGN NOT INSTALLED ON BACK OF HOLDING POSITION SIGNS	TAXIWAY C AND F DIRECTION SIGNS ON THE BACK OF A HOLDING POSITION SIGN	CONDITIONALLY APPROVED - NO PROPOSED ACTION	TWY C: 06/27/2016 TWY F: 7/13/2016

DECLARED DISTANCES							
APPROACH END ID	TORA	TODA	ASDA	LDA	LDA APPROACH END RSA LENGTH	STOP END RSA LENGTH	ASDA RSA LENGTH
					EXISTING	PROPOSED	DATE APPROVED
2	5,600'	5,600'	5,600'	5,600'	600'	1,000'	N/A
20	5,600'	5,600'	5,600'	5,248'	600'	1,000'	N/A
2	6,635'	6,635'	6,235'	6,000'	600'	1,000'	N/A
20	6,635'	6,635'	6,635'	6,299'	600'	1,000'	N/A

RUNWAY SAFETY AREA DETERMINATION					
RUNWAY ID	STANDARD RSA LENGTH BEYOND RUNWAY END	ACTUAL RSA		RSA DETERMINATION	DATE APPROVED
		LENGTH BEYOND RUNWAY END	VIOLATIONS TO RSA ALONG SIDE OF RUNWAY		
EXISTING					
2	1,000'	940'	NONE	YES	09/11/2000
20	1,000'	1,000'	NONE	N/A	N/A
PROPOSED					
2	1,000'	555'	NONE	N/A	PENDING
20	1,000'	1,000'	NONE	N/A	N/A



RUNWAY DATA TABLE		
ITEM	EXISTING	PROPOSED
RUNWAY DESIGNATION	RUNWAY 2/20	SAME
RUNWAY DESIGN CODE (RDC)	C-III-4000	C-III-2400
APPROACH REFERENCE CODE (APRC)	B/II/4000	D/IV/2400, D/V/2400
DEPARTURE REFERENCE CODE (DPRC)	B/II	D/IV, D/V
CRITICAL AIRCRAFT	EMBRAER 175	AIRBUS 319/BOEING 737
PAVEMENT STRENGTH	PCN 57/F/C/D/T	SAME
SURFACE TYPE	SINGLE WHEEL	SAME
	DOUBLE WHEEL	SAME
EFFECTIVE RUNWAY GRADIENT	0.11%	0.09%
MAXIMUM GRADE CHANGE	0.93%	SAME
WIND COVERAGE (%)	ALL WEATHER 16 KNOTS - 99.53%	SAME
RUNWAY LENGTH	IFR 16 KNOTS - 98.83%	SAME
	5,600'	6,635'
RUNWAY WIDTH	150'	SAME
DISPLACED THRESHOLD	NONE / 352'	235' / 336'
RUNWAY END COORDINATES	LATITUDE RWY 2 - N41°15'21.78"	RWY 2 - N41°15'14.88"
	LONGITUDE RWY 2 - W72°53'17.69"	RWY 2 - W72°53'18.15"
	LATITUDE RWY 20 - N41°16'17.04"	RWY 20 - N41°16'20.35"
	LONGITUDE RWY 20 - W72°53'13.96"	RWY 20 - W72°53'13.74"
RUNWAY LIGHTING	HIRL	SAME
RUNWAY MARKING	PRECISION / NON-PRECISION	SAME
CFR PART 77 APPROACH TYPE	PRECISION / NON-PRECISION	SAME
CFR PART 77 APPROACH CATEGORY	PRECISION / NPI >3/4 MILE	PRECISION / NPI 3/4 mile
CFR PART 77 APPROACH SLOPE	50:1-40:1 / 34:1	SAME
VISIBILITY MINIMUMS	3/4 MILE / 1 MILE	1/2 MILE / 3/4 MILE
TYPE OF AERONAUTICAL SURVEY	VERTICALLY GUIDED	SAME
RUNWAY DEPARTURE SURFACE	YES	SAME
AIRPORT DESIGN APPROACH SURFACE	#4, #6 / #4	#5, #6 / #4, #6
	INNER WIDTH 1,000' / 500'	1,000' / 500'
RUNWAY PROTECTION (RPZ)	OUTER WIDTH 1,510' / 1,010'	1,750' / 1,010'
	LENGTH 1,700' / 1,700'	2,500' / 1,700'
RUNWAY OBJECT FREE AREA (ROFA)	LENGTH BEYOND RUNWAY 1,000' / 1,000'	SAME
	WIDTH 800'	SAME
RUNWAY SAFETY AREA (RSA)	LENGTH BEYOND RUNWAY 1,000' / 1,000'	SAME
	WIDTH 500'	SAME
OBSTACLE FREE ZONE (OFZ)	LENGTH BEYOND RUNWAY 200'	SAME
	WIDTH 400'	SAME
VISUAL APPROACH AIDS	MALSF, PAPI / VASI	MALSR, PAPI / PAPI
INSTRUMENT APPROACH AIDS	LOCALIZER, GUIDESLOPE / NONE	SAME
	12.6'	SAME
MAXIMUM ELEVATION	6.5' / 12.6'	SAME
RUNWAY END ELEVATIONS	N/A / 9.7'	6.5' / 12.6'
DISPLACED THRESHOLD ELEVATION	6.5' / 9.7'	6.5' / 12.6'
TOUCH DOWN ZONE (TDZ) ELEVATION	NONE	SAME
LINE OF SIGHT VIOLATIONS	NONE	SAME



WIND COVERAGE		
KNOTS	ALL WEATHER	IFR
10.5 KNOTS	96.28%	95.37%
13 KNOTS	98.10%	97.08%
16 KNOTS	99.53%	98.83%

AIRPORT DATA TABLE		
ITEM	EXISTING	PROPOSED
AIRPORT REFERENCE CODE (ARC)	C-III	SAME
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH	83° F	SAME
AIRPORT ELEVATION	12.6'	SAME
AIRPORT NAVIGATIONAL AIDS	BEACON, VOR	SAME
AIRPORT REFERENCE POINT	LATITUDE N41°15'49.50"	N41°15'47.62"
	LONGITUDE W72°53'12.48"	W72°53'15.95"
MISCELLANEOUS FACILITIES	ASOS, WIND CONES	SAME
CRITICAL AIRCRAFT	EMBRAER 175	AIRBUS 319/BOEING 737
MAGNETIC VARIATION (SOURCE: NGS, 2021)	13.3° W	SAME
NPIAS SERVICE LEVEL	NON-HUB PRIMARY COMMERCIAL SERVICE	SAME
STATE SERVICE LEVEL	COMMERCIAL SERVICE	SAME
COMBINED WIND COVERAGE (%)	ALL WEATHER 16 KNOT - 99.53%	SAME
	IFR 16 KNOT - 98.83%	SAME
TAXIWAY LIGHTING	MITL	SAME
TAXIWAY MARKING	BASIC	SAME
TAXIWAY SURFACE TYPE	ASPHALT	SAME
TAXIWAY AIRPLANE DESIGN GROUP (ADG)	III	SAME
TAXIWAY DESIGN GROUP (TDG)	3	SAME
TAXIWAY SAFETY AREA (TSA) WIDTH	118'	SAME
TAXIWAY OBJECT FREE AREA (TOFA) WIDTH	186' *	SAME
TAXIWAY EDGE SAFETY MARGIN (TESM)	10'	SAME
TAXILANE AIRPLANE DESIGN GROUP (ADG)	I	SAME
TAXILANE DESIGN GROUP (TDG)	1A/B	SAME
TAXILANE SAFETY AREA (TSA) WIDTH	49'	SAME
TAXILANE OBJECT FREE AREA (TLOFA) WIDTH	79'	SAME
TAXILANE EDGE SAFETY MARGIN (TESM)	5'	SAME

FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND AIRPORTS DISTRICT OFFICE

CONDITIONALLY APPROVED:

APPROVED:

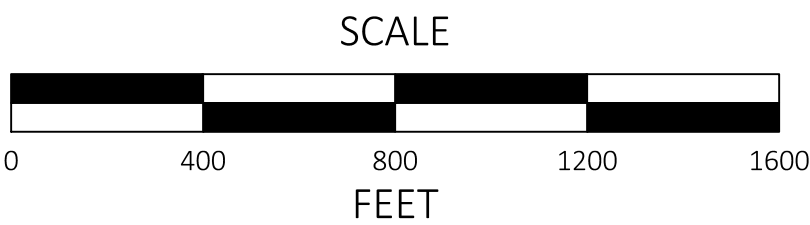
DATE:

(MANAGER, NEW ENGLAND ADO)

DATE:

SUBJECT TO COMMENTS
IN LETTER DATED:
AIRSPACE STUDY NUMBER:

FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF FUTURE FACILITIES DEPICTED. DURING THE PRELIMINARY DESIGN PHASE, THE AIRPORT OWNER IS REQUIRED TO RESUBMIT FOR APPROVAL THE FINAL LOCATIONS, HEIGHTS AND EXTERIOR FINISH OF STRUCTURES. FAA'S CONCERN IS OBSTRUCTIONS, IMPACT ON ELECTRONIC AIDS OR ADVERSE EFFECTS ON CONTROLLER VIEW OF AIRCRAFT APPROACH AND GROUND MOVEMENT AREAS WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY OR UTILITY OF THE AIRPORT.



- NOTES:
- ALL POSITIONAL DATA REFERENCES NORTH AMERICAN DATUM OF 1983 (NAD83) AND NORTH AMERICAN VERTICAL DATUM 1988 (NAV88).
 - ALL ELEVATIONS SHOWN ARE AMSL.
 - AERIAL MAPPING BY WOOLPERT, 2019.
 - ROAD ELEVATIONS AS INDICATED INCLUDE CONSIDERATION OF VEHICLES PER CFR PART 77. 15' FOR ROAD, 17' FOR INTERSTATE, 23' FOR RAILROAD.)

TWEED-NEW HAVEN AIRPORT

APPROVED

DATE

DRAFT

REV

DATE

DESCRIPTION

BY

SPONSOR

McFarland Johnson

40 COURT STREET, SUITE 240
BINGHAMTON, NEW YORK 13901 www.mjnc.com

DRAWN: RGT

CHECKED: ZEN

TWEED-NEW HAVEN AIRPORT
NEW HAVEN COUNTY, CONNECTICUT

AIRPORT LAYOUT PLAN

SCALE: 1" = 400'

DESIGN: LFC

SHEET: 2

DRAWN: RGT

CHECKED: ZEN

PROJECT: 18534.00

DATE: MARCH 2021

K:\Tweed New Haven\T-18534-00 NPIA NPI 2019\Drawings\Sheet Files\ALP.dwg

* APPLYING RSA DETERMINATION AND MOS.

* TAXIWAY G BETWEEN EAST RAMP AND APRON TAXILANE LEADING TO TAXIWAY F LIMITED TO AIRCRAFT WITH WINGSPANS NO GREATER THAN 36 FEET.