

CIVIL ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE

CITY OF AUBURN DEVELOPMENT REVIEW APPLICATION AMENDMENT

For:

Auburn-Lewiston Municipal Airport Hangars Flightline Drive and Aviation Avenue Auburn, Maine 04210

Applicant:

Fielding Properties, LLC PO Box 6951 Scarborough, Maine 04074

Prepared by:

Sebago Technics, Inc. 75 John Roberts Road, Suite 4A South Portland, Maine 04106

August 2024 230887



Table of Contents

Cover Letter / Project Description / Schedule

- A Site Development Review Application, Site Development Checklist
- B Fee Calculation / Agent Authorization / Corporate Status
- **1** Performance Standards Responses
- 2 Location Maps
- **3** Abutters
- 4 Title, Right, or Interest
- 5 Technical Ability / Financial Capacity
- 6 Traffic
- 7 Solid Waste
- 8 Signage
- 9 Lighting
- 10 Utilities
- 11 Waivers
- 12 Stormwater
- 13 Resources and Other Reviews
 - a. Maine DEP
 - b. Maine Historic Preservation
 - c. MaineNatural Areas Program
 - d. Maine Department of Inland Fisheries & Wildlife
 - e. Wetland Field Review Report
 - f. FAA Notice of Proposed Construction or Alteration
- Appendix Architectural Plans Essex Structural Steel

Drawings

Site Plans – Sebago Technics, Inc.



August 9, 2024 230887

Mr. Eric Cousens, Director of Planning & Permitting City of Auburn Chair LeBlanc, City of Auburn Planning Board 60 Court Street Auburn, Maine 04210

<u>RE: Development Review Application Amendment</u> <u>Auburn-Lewiston Municipal Airport New Hangars</u> <u>Applicant: Fielding Properties, LLC</u> <u>Allowed Use: (11) Airports</u> <u>p/o Tax Map 143/Lot 007</u>

Dear Mr. Cousens, Ms. LeBlanc, and Planning Board members:

Sebago Technics, on behalf of our client Fielding Properties, LLC, working in conjunction with Jonathan P. LaBonte, Airport Director, Auburn-Lewiston Municipal Airport and Transportation Systems Director, City of Auburn, is pleased to offer a Development Review Application Amendment in accordance with the Auburn Zoning Ordinance Division 15-Industrial District, Sec.60-578(a)(11) Airports that will occupy 2.44±- acre portion of the overall airport property. The development proposal for Board consideration includes the phased buildout of four(4) new 6,400 square-foot one-story hangars (overall 25,600 SF building footprint) in close proximity to the existing hangar at the intersection of Flight Line Drive and Aviation Avenue in the Industrial (ID) District. Vegetation removal is extremely limited as the proposed development occurs in an area adjacent to an existing building, pavement, and an open area currently maintained as a clearing.

<u>Existing Conditions/Use:</u> The existing use of the overall property is improved for use at the Auburn-Lewiston Municipal Airport. The airport is a public facility jointly owned and operated by the Cities of Auburn and Lewiston. The proposed hangars are located in a maintained open portion of the site adjacent to an existing hangar. The proposed new buildings will be centrally located on the property at the westerly portion of the airport. No portion of the proposed development area fall within the Shoreland Zone per the City of Auburn GIS mapping available to the public.

<u>Development Overview:</u> The proposed hangar development is designed to meet the space and operational requirements of the applicant and future tenants in the remaining three hangars. The applicant intends to permit four (4) hangars and will construct one (Phase 1) for personal use. Others will build and utilize the remaining three hangar pad sites in accordance with the approval documents for the



overall phased project. The hangars will be pre-engineered metal buildings for ease and speed of installation, straightforward maintenance, and anticipated structure longevity.

<u>Hangar Access</u> extends from the existing public streets of Lewiston Junction Road and Kittyhawk Drive to the roadway within the airport. New roadways and drives are not proposed as part of this project.

<u>Parking</u>: The design includes three dedicated parking spaces at each hangar. Overflow parking, if necessary, will be available within the existing Lot A lot for customers and tenants parking in excess of 72 hours.

<u>Other Permits:</u> We note that the Maine Department of Environmental Protection (MDEP) has reviewed the site, and the airport development is subject to Site Location of Development (SLODA, Site Law) approval order (L-6634-39-A-X, June 25, 1980), numerous condition compliances, revisions, amendments, and modifications have occurred since the original approval was issued. This project will require a modification to the existing permit. MDEP authorizes the <u>City of Auburn Delegated Review Authority</u> for Site Law projects, which provides for stormwater management (Sec. 12) review. A full stormwater report written in accordance with MDEP Ch. 500 standards is included in this application submittal. MDEP will review a Maine Construction General Permit (MCGP) Notice of Intent (NOI) for the work concurrently with the City's delegated Site Law review. A Federal Aviation Administration (FAA) Notice of Proposed Construction or Alteration is also required for this project and will be submitted directly to the FAA.

<u>Buffering/Landscaping</u>: The applicant respectfully requests a waiver from buffering and landscaping standards due to the use and location of the project. Excessive mature vegetation is a safety concern due to airport use. The neighborhood is not adjacent to residential uses, requiring good-neighbor visual buffering.

<u>Operations/Staffing</u>: Phase 1 of the project (building one) does not include employees. The hangar is proposed for personal use by the applicant.

Schedule:

- Proposed commencement: Upon receipt of all permits, anticipating autumn 2024
- Proposed occupancy, Phase I: Upon completion, spring 2025
- The anticipated lifetime of the facility: Fifty years± (2074)

A general construction sequence, with many activities occurring, some concurrently, is as follows:

Tasks

- 1. Mobilization and installation of erosion controls
- 2. Commence earthwork operations
- 3. Commence utility installation
- 4. Construct stormwater management features
- 5. As earthwork is completed, all associated side slopes, berms, and finished surfaces shall be stabilized in accordance with the development plans.
- 6. Building, Phase I structure
- 7. Complete utility connections
- 8. Complete stormwater management features
- 9. Complete installation of final surface finishes



- 10. Stabilize non-paved areas
- 11. Once 90% catch of vegetation is established, remove all temporary erosion and sedimentation control measures.
- 12. Final Clean Up, Phase I

We are hopeful that the enclosed information adequately addresses the request. Please contact me with any questions or if you require additional information. We appreciate your consideration.

Sincerely,

SEBAGO TECHNICS, INC.

Robert McSorley, P.E. Senior Project Manager

enc.

cc: B. Fielding, Fielding Development, LLC J. LaBonte, Auburn-Lewiston Municipal Airport



A

Site Development Review Application / Site Development Checklist



City of Auburn, Maine Office of Planning & Permitting Eric J. Cousens, Director 60 Court Street | Auburn, Maine 04210 www.auburnmaine.gov | 207.333.6601

Development Review Application

PROJECT NAME: Auburn-Lewiston Municipal Airport Hangars

PROPOSED DEVELOPMENT ADDRESS: Flightline Drive and Aviation Avenue, Auburn, Maine 04210

PARCEL ID #: p/o 143-007

REVIEW	TYPE:

Site Plan □ Subdivision □ Site Plan Amendment X Subdivision Amendment D

PROJECT DESCRIPTION: The applicant proposes the phased construction of four (4) 6,544 square foot 1-story hangars (Gross 26,176 square feet), utilities, parking, stormwater management features and other associated improvements as shown on the drawings. Phase I activities include the construction of Hangar 1 and p/o associated taxiway, apron and extension of utilities by the applicant for personal use.

CONTACT INFORMATION:

<u>Applicant</u>	Property Owner	
Name: Fielding Properties, LLC	Name: City of Auburn, City of Lewiston	
Address: PO Box 6951	Address: 60 Court Street	
City / State Scarborough, Maine	City / State Auburn, Maine	
Zip Code 04074	Zip Code 04210	
Work #: (207) 883-3194	Work #: (207) 333-6601, ext. 110, Deputy Assessor	
Cell #:	Cell #:	
Fax #:	Fax #:	
Home #:	Home #:	
Email: bfielding@fieldingsoil.com	Email:	

Surveyors, Engineers, Environmental, Traffic, Permitting & <u>Project Representative</u>

- Name: Sebago Technics, c/o Robert McSorley, P.E.
- Address: 75 John Roberts Road, Suite 4A
- City / State South Portland, Maine
- Zip Code 04106
- Work #: (207) 200-2074
- Cell #:
- Fax #: (207) 856-2206

Home #:

Email: rmcsorley@sebagotechnics.com

Other professional representatives for the project (surveyors, engineers, etc.),

Name: Marc Blais General Contractor
Address: 1993 Lisbon Street
City / State Lewiston, Maine
Zip Code 04240
Work #:
Cell #:
Fax #:
Home #:
Email:

PROJECT DATA

The following information is required where applicable, in order complete the application

IMPERVIOUS SURFACE AREA/RATIO	
Existing Total Impervious Area	<u>1,916,640±</u> sq. ft. (44 Ac.±) Existing Impervious
Proposed Total Paved Area	<u>30,945</u> sq. ft.
Proposed Total Impervious Area	<u>57,120</u> sq. ft.
Proposed Impervious Net Change	57,120 sq. ft. (44 Ac.±) Ex Impervious/
Impervious surface ratio existing	12.74 % of lot area (345.24 Ac.±) Site Area
Impervious surface ratio proposed	13.12 % of lot area
BUILDING AREA/LOT	
<u>COVERAGE</u>	135,000± sq. ft
Existing Building Footprint	<u> </u>
Proposed Building Footprint	<u>26,176</u> sq. ft. Full buildout (6,544 SF x 4, 1-Story)
Proposed Building Footprint Net change	+26,176 sq. ft.
Existing Total Building Floor Area	<u>135,000±</u> sq. ft.
Proposed Total Building Floor Area	<u>+26,176</u> sq. ft. +26,176 sq. ft
Proposed Building Floor Area Net Change	
New Building	
Building Area/Lot coverage existing	
Building Area/Lot coverage proposed	<u>1.07</u> % of lot area
ZONING	ID - Industrial
Existing	n/a
Proposed, if applicable	25,600
LAND USE	
Existing	Airport (11)
Proposed	Airport, No change
RESIDENTIAL, IF APPLICABLE	
Existing Number of Residential Units	_n/a
Proposed Number of Residential Units	
Subdivision, Proposed Number of Lots	\checkmark
PARKING SPACES	
Existing Number of Parking Spaces	0 at Proposed Improvement Location
Proposed Number of Parking Spaces	12 (3 per Hangar)
Number of Handicapped Parking Spaces	4 (1 per Hangar)
Proposed Total Parking Spaces	12

ESTIMATED COST OF PROJECT: Phase 1: \$615,000.00 - Overall Estimate of Probable Cost: \$955,000.00

DELEGATED REVIEW AUTHORITY CHECKLIST

SITE LOCATION OF DEVELOPMENT AND STORMWATER MANAGEMENT

Existing Impervious Area	<u>1,916,640±</u> _{sq. ft.} (44 Acres±)
Proposed Disturbed Area	<u>153,000±</u> sq. ft.
Proposed Impervious Area	<u>57,120</u> sq. ft.

- 1. If the proposed disturbance is greater than one acre, then the applicant shall apply for a Maine Construction General Permit (MCGP) with MDEP.
- 2. If the proposed impervious area is greater than one acre including any impervious area crated since 11/16/05, then the applicant shall apply for a MDEP Stormwater Management Permit, Chapter 500, with the City.
- 3. If total impervious area (including structures, pavement, etc) is greater than 3 acres since 1971 but less than 7 acres, then the applicant shall apply for a Site Location of Development Permit with the City. If more than 7 acres then the application shall be made to MDEP unless determined otherwise.
- 4. If the development is a subdivision of more than 20 acres but less than 100 acres then the applicant shall apply for a Site Location of Development Permit with the City. If more than 100 acres then the application shall be made to MDEP unless determined otherwise.

This project requires an amendment to MDEP Site Location of Development Permit #L-6634-39-A-X originally issued June 25, 1980.

TRAFFIC ESTIMATE

Total traffic estimated in the peak hour-existing	0passenger car equivalents (PCE)
(Since July 1, 1997)	

 Property is located in Parcel Area: 345.25 + 	
Regulations	<u>Required/Allowed</u> Provided
Min Lot Area	Min. 150'w x 250'd (37,500 SF) / 2.2± Acres (95,832 SF) Project Area
Street Frontage	Exceeds Requirement /
Min Front Yard	35' or 15% of Avg. Lot Depth / NA - Interior lot of airport
Min Rear Yard	50' or 20% Avg Lot Depth / NA - Interior lot of airport
	5' between every bldg. and property line / NA - Interior lot of airport
Max. Building Height	
Use Designation	Hangars, Airport (11) / No change
Parking Requirement	1 space/ persquare feet of floor area
Total Parking:	12 (3 spaces per hangar) /
Overlay zoning districts (if	
Urban impaired stream wat	
erbair inpared stream wa	cloned. They it yes, watershed hame

DEVELOPMENT REVIEW APPLICATION SUBMISSION

Submissions shall include fifteen (15) complete packets containing the following materials:

- 1. 5 Full size plans and 10 smaller (no larger than 11" x 17") plans containing the information found in the attached sample plan checklist.
- Application form that is completed and signed by the property owner or designated representative. (NOTE: All applications will be reviewed by staff and any incomplete application will not be accepted until all deficiencies are corrected.
- 3. Cover letter stating the nature of the project.
- 4. All written submittals including evidence of right, title and interest.
- 5. Copy of the checklist completed for the proposal listing the material contained in the submitted application.

Refer to the application checklist for a detailed list of submittal requirements.

To view the City of Auburn Zoning Ordinance, go to:

www.auburnmaine.gov under City Departments / Planning, Permitting & Code / Subdivisions / Land Use / Zoning Ordinance

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, I certify that the City's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

This application is for development review <u>only</u>; a Performance Guarantee, Inspection Fee, Building Permit Application and other associated fees and permits will be required prior to construction.

Signature of Applicant:	with A fulk	Date:	August 9, 2024	
-------------------------	-------------	-------	----------------	--



City of Auburn, Maine Office of Planning & Permitting Eric J. Cousens, Director 60 Court Street | Auburn, Maine 04210

www.auburnmaine.gov | 207.333.6601

Development Review Checklist

The following information is required where applicable to be submitted for an application to be complete

PROJECT NAME: Auburn-Lewiston Municipal Airport Hangars

PROPOSED DEVELOPMENT ADDRESS: Each Building to be Assigned a Street Address PARCEL #: p/o 143/007

Required Information		Check when Submitted		Applicable Ordinance
Site Plan		Applicant	Staff	
	Owner's Names/Address	X		
	Names of Development	X		
	Professionally Prepared Plan	X		
	Tax Map or Street/Parcel Number	X		
	Zoning of Property	X		
	Distance to Property Lines	X		
	Boundaries of Abutting land	X		
	Show Setbacks, Yards and Buffers	X		
	Airport Area of Influence	X		
	Parking Space Calcs	n/a		
	Drive Openings/Locations	n/a		
	Subdivision Restrictions	n/a		
	Proposed Use	X		
	PB/BOA/Other Restrictions	n/a		
	Fire Department Review	Pending		
	Open Space/Lot Coverage	n/a		

1

Required Information		Check when Submitted		Applicable Ordinance
Landscape Plan		Applicant	Staff	
	Greenspace Requirements	n/a		
	Setbacks to Parking	n/a		
	Buffer Requirements	n/a		
	Street Tree Requirements	n/a		
	Screened Dumpsters	n/a		
	Additional Design Guidelines	n/a		
	Planting Schedule	n/a		
Stormwater & Erosion Control Plan		Applicant	Staff	
See Section 12	Compliance w/ chapter 500	X		
	Show Existing Surface Drainage	X		
	Direction of Flow	Х		
	Location of Catch Basins, etc.	X		
	Drainage Calculations	X		
	Erosion Control Measures	X		
	Maine Construction General Permit	X		
	Bonding and Inspection Fees	TBD		
	Post-Construction Stormwater Plan	X		
	Inspection/monitoringrequirements	X		
Lighting Plan		Applicant	Staff	
See Section 9	Full cut-off fixtures	X		
	Meets Parking Lot Requirements	n/a		
Traffic Information		Applicant	Staff	
See Section 6	Access Management	n/a		
	Signage	n/a		
	PCE - Trips in Peak Hour	X		

Required Information		Check when S	Submitted	Applicable Ordinance
	Vehicular Movements			
	Safety Concerns			
	Pedestrian Circulation			
	Police Traffic			
	Engineering Traffic			
Utility Plan		Applicant	Staff	
See Section 10	Water	X		
	Adequacy of Water Supply	X		
	Water main extension agreement	X		
	Sewer	X		
	Available city capacity	X		
	Electric	X		
	Natural Gas	X		
	Cable/Phone	X		
Natural Resources		Applicant	Staff	
See Sections 2, 13, and Site Plans	Shoreland Zone	n/a		
	Flood Plain	n/a		
	Wetlands or Streams	n/a		
	Urban Impaired Stream	n/a		
	Phosphorus Check	n/a		
	Aquifer/Groundwater Protection	n/a		
	Applicable State Permits	X		
	Lake Auburn Watershed	n/a		
	Taylor Pond Watershed	n/a		
Right, Title or Interest		Applicant	Staff	
See Sections 4	Verify			
	Document Existing Easements, Covenants, etc.	X		

Required Information			Applicable Ordinance	
Technical & Financial Capacity		Applicant	Staff	
	Cost Est./Financial Capacity	X		
After Final Approval	Performance Guarantee			
State Subdivision Law		Applicant	Staff	
Not Applicable	Verify/Check			
	Covenants/Deed Restrictions			
	Offers of Conveyance to City			
	Association Documents			
	Location of Proposed Streets & Sidewalks			
	Proposed Lot Lines, etc.			
	Data to Determine Lots, etc.			
	Subdivision Lots/Blocks			
	Specified Dedication of Land			
Additional Subdivision Standards		Applicant	Staff	
	Mobile Home Parks	n/a		
	PUD	n/a		
A JPEG or PDF of the proposed site plan		Applicant	Staff	
		x		
Final sets of the approved plans shall be submitted digitally to the City, on a CD or DVD, in AutoCAD format R 14 or greater, along with PDF images of the plans for archiving	Acknowledged			

B

Fee Calculation/ Agent Authorization/ Corporate Status

ZONING & LAND USE FEE SCHEDULE CONTINUED

Type of Review	Development Review Fee	Required Advertising Fe	Total e Fee
<u>Site Plan Review</u>	Keview Fee	Auverusing Per	
Minor Projects Interdepartmental / Staff review	\$200	N/A	\$200
Major Projects & Subdivision of Existing Structures: PB Review / Special Exceptions	\$500	\$200	\$700
Site Plan Amendment Staff Approved Amend De Minimis Change	\$100	N/A	\$100
Planning Board Approved Amendment	\$500	\$200	\$700
<u>Subdivision Review</u> Major & Minor New Lots / Structures	\$750 per 1st 3 lots & \$100 per unit thereafter	0 +	Depends on # f lots or units - PRA see below)
Delegated Review (in addition to site particular additin to site particular addition to site particular addition t	lan or subdivision fee wi of MDEP Published Fee, S		
(Stormwater, TMP, Site Law, etc.)	\$1,000* *plus applicable site pl	N/A an review fee	\$1,000

Zoning Conformance/ Rebuild Letter

Independent Professional Review Fees

Staff may determine, due to the size and nature of the project, that a peer review is necessary to generate facts sufficient to warrant a finding that certain applicable criteria

\$50

Engineering Inspection Fees

Inspections required by the City Engineer for projects that directly impact municipal infrastructure or for proposed city streets shall be paid for by the developer / applicant.

Enclosed Fee: \$700 + \$468.50 = \$1,168.50

N/A

\$50

Land Resources – Small-Scale Wind Energy Developments

Code	Description	Processing Fee	Licensing Fee
ES ⁶	certification of small scale wind development	\$1,441	\$667
6		1 • 1 • 1 • • •	

⁶The department may use "outside reviewers" pursuant to 38 M.R.S. §344-A for which the applicant must pay all costs in addition to the processing fee.

The fee for a small-scale wind energy development **minor revision, amendment, condition compliance, or transfer** is \$205. If the Commissioner determines that an application, by virtue of its size, uniqueness, complexity or other relevant factors, is likely to require significantly more costs than those listed on this table, the Commissioner may designate that application as subject to special fees per 38 M.R.S. §352.c

Land Resources – Site Location of Development Act

Code	Description	Processing Fee	Licensing Fee
06	delegation of authority	-	-
18	airport	\$8,685	\$4,342
19	medical facility	\$8,685	\$4,342
20	paper mill	\$8,685	\$4,342
21	sawmill, lumber products	\$8,685	\$4,342
22	school	\$8,685	\$4,342
23	shopping center	\$8,685	\$4,342
24	utilities, not hydro	\$8,685 ⁷	\$4,342
25	warehouse	\$8,685	\$4,342
26	other structure, not residential	\$8,685	\$4,342
27	pipeline	\$8,685	\$4,342
28	recreational site	\$8,685	\$4,342
39	industrial park/commercial	\$998 ⁸	\$998 ⁸
85	transient lodging	\$8,685	\$4,342
87	multi-family/condominium	\$8,685	\$4,342
LO	great american neighborhood	\$107 ⁸	\$107 ⁸
L1	res. Subdiv./afford. housing	\$107 ⁸	\$107 ⁸
L2	res. Subdiv./pub. water & sewer	\$379 ⁸	\$379 ⁸
L3	res. Subdiv./all others	\$542 ⁸	\$542 ⁸
MX	mixed use:		
	residential/condo	(see below ⁹)	(see below ⁹)
	residential/non-residential	(see below ¹⁰)	(see below ¹⁰)
L7	metallic mineral mining ¹¹	-	-
PS	Solar Projects	\$8,685	\$4,342
ТР	MDOT/MTA	-	-
-	planning permit (pertains to any site type project except subdivisions)	\$8,685	\$4,342
-	notice of intent to comply, roundwood	-	\$250

⁷Grid-scale wind energy developments are typically subject to the special fee provisions of 38 M.R.S. §352. ⁸Fee per lot; res. Subdiv./afford. housing capped at \$30,000.

⁹Processing and licensing fee for types L1, L2, L3, and 87.

¹⁰Processing and licensing fee for types L1, L2, L3, and 39.

¹¹Metallic mineral mining is subject to the fee provisions of 38 M.R.S. §352.4-A.

The fee for a **minor revision, condition compliance, renewal,** or **transfer** is \$205. The fee for an **amendment** is one half the processing fee, plus one half the licensing fee; the **minor amendment** fee is \$1,874. If the Commissioner determines 25% = local review

APPLICANT/ OWNER	Name	Fielding Propertie c/o Bill Fielding		6951 ough, ME 04074		p/o Auburn
PROPERTY DESCRIPTION	Physical Address	Auburn-Lewiston Municipal Airport Map 143 Intersection of Elightling Dr. and Aviation Area			143	
	Name	Robert McSorley, 1			Lot	007
APPLICANT'S	Phone	(207) 200-2074				
AGENT INFORMATION			Business Name & Mailing Address	Sebago Technics 75 John Roberts	Road,	Suite 4A
			Maning Address	South Portland,	ME 04	4106
William J William J	Full RE DATI	hate 1	06/24/202 Fielding	4 properties	LL	C
William 3	Field	h I I	06/24/202 Fielding	4 properties	LL	C
William 3	two	August 8, 2024	06/24/202 Fielding	4 properties	LL	C
Anor	two	August 8, 2024	06/24/202 Fielding	4 properties	LL	C
For	two	August 8, 2024	06/24/202 Fielding	4 properties		C



Corporate Name Search

Information Summary

Subscriber activity report

This record contains information from the CEC database and is accurate as of: Mon Jun 24 2024 13:45:12. Please print or save for your records.

Legal Name	Charter Number	Filing Type	Status		
FIELDING PROPERTIES, LLC	20100191DC	LIMITED LIABILITY COMPANY	GOOD STANDING		
Filing Date	Expiration Date	Jurisdiction			
07/20/2009	N/A	MAINE			
Other Names		(A=Assumed ; F=F	ormer)		
NONE					
Principal Home Office Address					
Physical		Mailing			
420 U. S. ROUTE ON	E	420 U. S. ROUTE ON P. O. BOX 6951	IE		
SCARBOROUGH, MI	E 04074	SCARBOROUGH, M	E 04070		
Clerk/Registered Ag	gent				
Physical		Mailing			
CRAIG J. RANCOUR 180 POOL STREET STE. 337 BIDDEFORD, ME 040		CRAIG J. RANCOUF 180 POOL STREET STE. 337 BIDDEFORD, ME 04			
New Search					

Click on a link to obtain additional information.

List of Filings

View list of filings

Obtain additional information:

1/2

Section 1

Performance Standards Responses

SECTION 1: STANDARDS

Comprehensive Plan Consideration

Per the *Future Land Use Classification*, in the 2021 Comprehensive Plan update, the parcel in the Industrial District (ID) is unchanged from its current designation. Per City Zoning, the facility is appropriately sited, and the use (Airport, 11) is existing and allowed.

Division 15-Industrial District

Sec. 60-579-Dimensional Regulations

- (1) The minimum lot width and depth is met
- (2) Density does not exceed 40% building coverage
- (3) Yard requirements
 - a. Rear- the minimum depth of 50 feet, met

b. *Side-35'*, n/a, the project is located within an extensive property and is not closer to the property line than existing hangars.

c. Front-35', n/a, the project is located interior to an extensive property

d. *Principal Buildings*-The buildings meet yard setback requirements. The project layout is optimized by clustering and providing a taxiway that meets FAA standards. We note that per structural steel plans, the Phase I hanger is 25'± tall.

e. Railroad tracks

Not applicable

f. Open and unbuilt spaces-Open and unbuilt may be used, if otherwise lawful, for outdoor storage of articles, supplies, and materials... Acknowledged

- g. Landscaping
 - 1. Within a parking lot, landscaping shall be provided in an amount equal to 10% of the area of the parking lot.

Response: Not applicabe; a dedicated parking lot is not proposed. The applicant respectfully requests a full waiver of landscaping standards based on the location and use of the project.

2. The perimeter of a principal building, except for entrances and loading doors, shall be landscaped in an amount equal to 20% of the building footprint. Emphasis shall be given to the front and sides of the building.

Response: A waiver from the standard requiring new vegetation along the building front is proposed. The front of the buildings is paved for full and uninterrupted aircraft access.

- All lots which abut the side or rear lot line in a residential district...
 Response: Not Applicable. The 2.2±-acre project area does not abut a residential district.
- 4. Side and rear lot lines between non-residential uses shall be planted with an evergreen tree line planted in staggered rows having the base of the trees not more than 10 feet apart. The minimum width of the buffer shall be 30 feet. Response: The applicant respectfully requests a variance from this standard. Additional vegetation within the airport creates sightline interruption and potential hazard to aircraft.
- 5. Landscaping is considered to be vegetative treatment with trees, shrubs and flowering plants and grass and/or bark mulch. Grass only is not deemed to satisfy this requirement. Evergreen trees shall be used as required in subsections (3)g3 and (3)g4 of this section Trees shall be a minimum of six feet at the time of planting. Where possible, existing trees shall be preserved, building shall be oriented with respect to natural landscape feature, topography and natural drainage areas.

Response: The applicant respectfully requests a full waiver of vegetative treatment for the hangar project. Mature vegetation, especially trees, is detrimental to operations.

(4) Height.

Response: The proposed hangars will not exceed 75 feet in height. Proposed Hangar 1 (Phase 1) is $25' \pm$ high. See Plans.

(5) Off-street parking.

Response: The design provides three spaces per hangar. Overflow parking with advance notice will be available in Lot A if necessary. Loading space is provided in accordance with the requirements set forth in Sec. 60-607(3), below.

Article V. Off-Street Parking & Loading Requirements:

Response: Sec. 60-607(3) requires a 25 x 20-foot loading space for buildings having a gross floor area of less than 10,000 square feet. Each of the four (4) buildings is 6,400 SF with a large shared apron/taxiway between the building faces that allows ample space for loading access. Additional parking beyond the proposed three spaces per hangar, if necessary, is available in Lot A.

Exterior Lighting Sec. 60-607(11)

Response: This section requires exterior lighting to be shielded and not impact adjacent residential uses or public highways. The hangars will utilize shielded wall packs. Reference is made to Exhibit 9 regarding light cut sheets and a professionally prepared photometric plan by Swaney Lighting Associates.

Parking Requirements Sec. 60-608

Response: We understand that formal parking based on on-site use is not required. The design provides three parking spaces per hangar (12 total). Lot A, located at the intersection of Aviation and Flight Line, will be utilized to meet parking overflow, if necessary.

Safe Sight Distance Sec. 60-700(4)

Response: The development area is located within the airport and is fenced. New drives and roadways are not proposed.

Noise Sec. 60-1037

Response: Post-construction sound levels will comply with the sound level limits defined by MDEP and the City of Auburn. The new hangars are consistent with existing site use and do not exceed allowed noise levels.

Chapter 60 Article XVI. Administration and Enforcement

<u>Division 2.-Site Plan Review, Section 60-1277.-Objective.</u> In considering a site plan, the planning board shall make findings that the development has made provisions for:

 Protection of adjacent areas against detrimental or offensive uses on the site by provision of adequate surface water drainage, buffers against artificial and reflected light, sight, sound, dust, and vibration; and preservation of light and air;
 Response: No detrimental effects, including offensive use on the site, are anticipated. The design provides for adequate surface water drainage, buffering from light, sightlines,

sound, dust, and vibration with the preservation of light and air to the greatest extent practicable. Reference is made to Exhibit 12 for specifics regarding stormwater management.

(2) Convenience and safety of vehicular and pedestrian movement within the site and in relation to adjacent areas;

Response: The site design and existing access provide for safe vehicular movement and pedestrian movement within the site and in relation to adjacent areas. The layout is similar to other hangar facilities on the site, where the flow pattern is known to accommodate the proposed use and operations safely.

(3) Adequacy of the methods of disposal for wastes; and

Response: Municipal solid waste (MSW), and Construction Debris (CDD) are addressed in Exhibit 7. The MSW will be recycled to the greatest extent practicable and removed by a private contract with a licensed non-hazardous waste hauler. Solid waste disposal will not affect municipal collection or disposal.

(4) Protection of environmental features on the site and in adjacent areas

Response: Modification to the existing Maine Department of Environmental Protection Site Location Development Approval will be facilitated by the City. A Maine Construction General Permit NOI will be issued by MDEP. Direct environmental impacts are not associated with the proposed phased hangar project. A written Erosion and Sedimentation Control (ESC) Plan, as well as locations and details, are included in the site plans. The proposed stormwater management features, with proper installation, monitoring, and maintenance, will protect downstream waters.

Division 3.-Special Exception, Section 60-1336.-Conditions Response: This section is not applicable to the hangar project.

Section 2

Location Maps

SECTION 2: LOCATION MAPS

<u>USGS Site Location Map</u>: This map exhibit shows the site located on a portion of the latest topographical mapping available for Auburn, Androscoggin County, Maine.

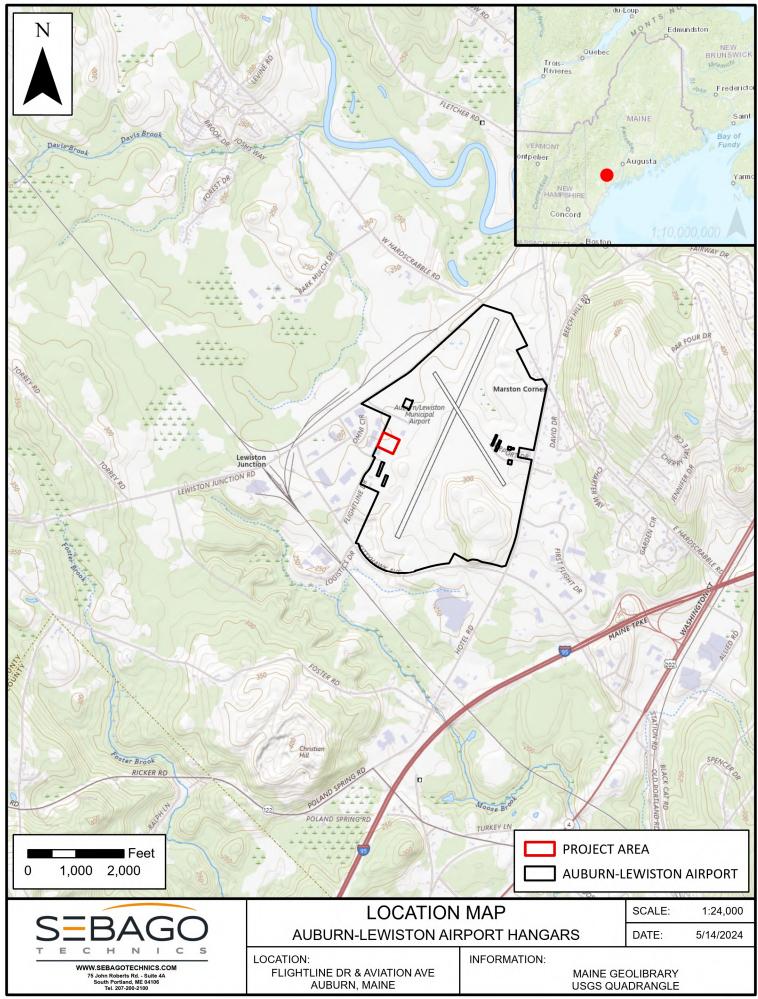
<u>Aerial Image:</u> A copy of 2018 ortho imagery showing the existing building and proposed location of the additional hangars without the overall airport property is enclosed in this section.

<u>Tax Map</u>: The proposed development is located on a portion of Map 143/Lot 7. A reduced-size copy of the City of Auburn Tax Map showing a 500' radius offset is enclosed in this section.

<u>NRCS Medium-Intensity Soils</u>: Reference is made to the project area identified on the USDA/Web Soil Survey included in this section. The soils identified in the project area are Wa-Walpole fine sandy loam and AaB-Adams loamy sand, which generally do not include limiting soil characteristics.

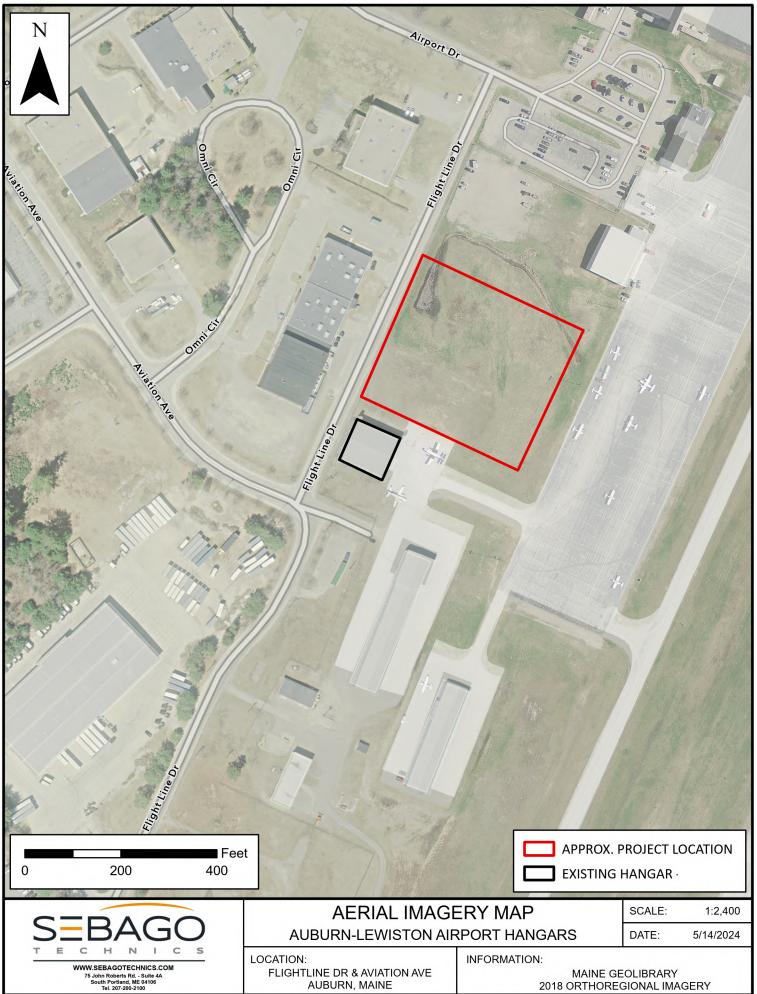
<u>MGS Sand & Gravel Aquifer Map</u>. Per available mapping, the project site is not located over significant sand and gravel aquifers. The site is over an area of surficial deposits with less favorable aquifer characteristics of less than 10 gallons per minute.

<u>FEMA FIRM Map</u>: The proposed project is located in Zone X, which is identified as an area with minimal flood hazards (outside 0.2% annual chance). Refer to the enclosed FEMA map exhibit, Community Panel 23001C0316E, effective date of 7/8/2013.

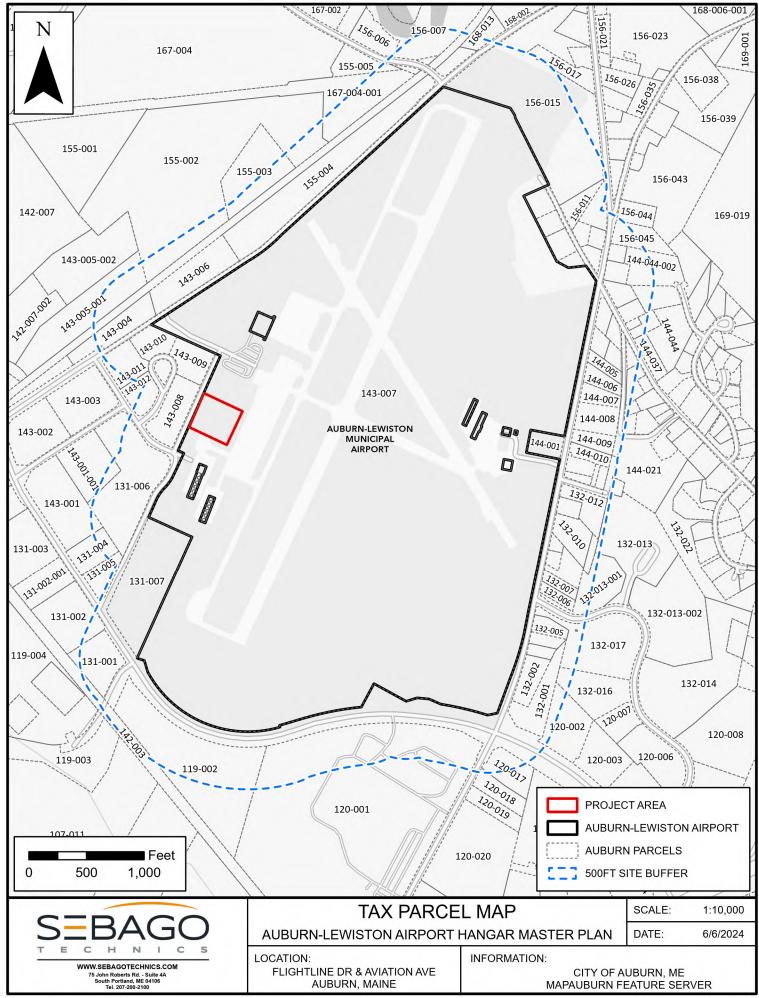


Location Map, 230887.aprx

Project Number: 230887

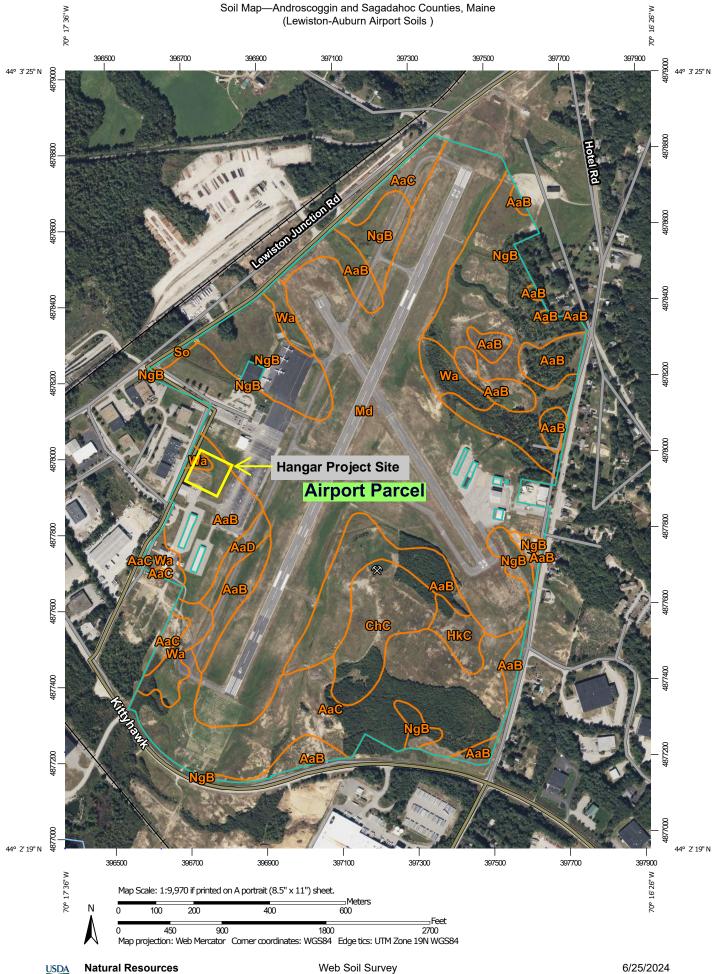


Aerial Imagery Map, 230887.aprx



Tax Parcel Map, 230887.aprx

Project Number: 230887

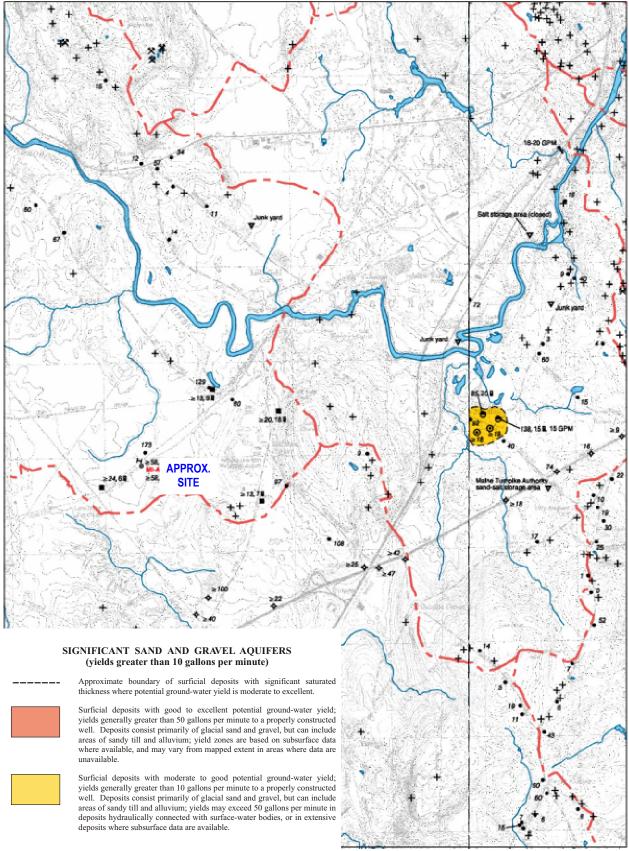


Web Soil Survey National Cooperative Soil Survey

Area of Ir	Area of Interest (AOI) Area of Interest (AOI)	Spoil Area	The soil surveys that comprise your AOI were mapped at 1:15,800.
Soils	Soil Map Unit Polygons	S Very Stony Spot	Please rely on the bar scale on each map sheet for map measurements.
1	Soil Map Unit Lines	Wet Spot	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
	Soil Map Unit Points	1	Coordinate System: Web Mercator (EPSG:3857)
Special	Special Point Features	Special Line reatures Water Features	Maps from the Web Soil Survey are based on the Web Mercator prejection, which preserves direction and chang hur districts
9 🗵	Borrow Pit	Streams and Canals	distance and area. A projection that preserves area usions Alter equilarea confiction that preserves area fit more
3 38	Clay Spot	ortat	accurate calculations of distance or area are required.
{	Closed Depression	Interstate Highways	This product is generated from the USDA-NRCS certified data as of the version date(s) listed helow.
Ж	Gravel Pit	US Routes	or une version date(s) instat below. Soil Survey Ares: Andrescontrin and Sanadahor Mounties
**	Gravelly Spot	Major Roads	
Ø	Landfill	l ocal Roads	Survey Area Data: Version 24, Sep 5, 2023
~	Lava Flow	Background	Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.
4	Marsh or swamp	Aerial Photography	Date(s) aerial images were photographed: Jul 11, 2021—Oct 29.
«	Mine or Quarry		2021
0	Miscellaneous Water		The orthophoto or other base map on which the soil lines were
0	Perennial Water		complied and digitized probably differs from the background imagery displayed on these maps. As a result, some minor
>	Rock Outcrop		shifting of map unit boundaries may be evident.
÷	Saline Spot		
°.°	Sandy Spot		
Ŵ	Severely Eroded Spot		
\diamond	Sinkhole		
A	Slide or Slip		
Ø	Sodic Spot		

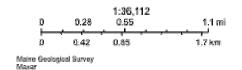
Map Unit Legend

Map Unit Symbol	Map Unit Name
АаВ	Adams loamy sand, 0 to 8 percent slopes
AaC	Adams loamy sand, 8 to 15 percent slopes
AaD	Adams loamy sand, 15 to 30 percent slopes
ChC	Charlton very stony fine sandy loam, 8 to 15 percent slopes
HkC	Hinckley gravelly sandy loam, 8 to 15 percent slopes
Md	Made land, loamy materials
NgB	Ninigret fine sandy loam, 0 to 8 percent slopes
So	Scarboro fine sandy loam
Wa	Walpole fine sandy loam

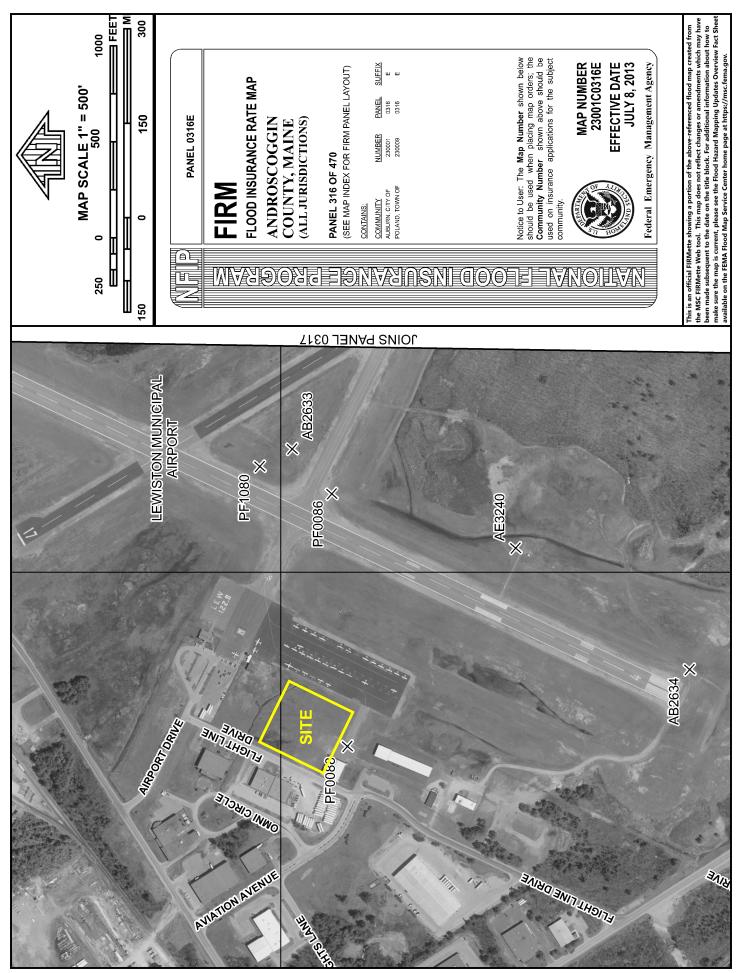


SURFICIAL DEPOSITS WITH LESS FAVORABLE AQUIFER CHARACTERISTICS (yields less than 10 gallons per minute)

Areas with moderate to low or no potential ground-water yield (includes areas underlain by till, marine deposits, colian deposits, alluvium, swamps, thin glacial sand and gravel deposits, or bedrock); yields in surficial deposits generally less than 10 gallons per minute to a properly constructed well.



Significant Sand and Gravel Aquifers Exhibit Maine Geological Survey



Section 3

Abutters

SECTION 3: ABUTTERS

A list of abutters within a 500' radius of the airport property and a corresponding map are enclosed in this section.

Auburn 144/031

Rachel Haines, James Haines 374 East Hardscrabble Road Auburn, ME 04210

Auburn 156/Lot 014

Walks Tall Keith, Colleen Keith 2040 Oro Verde Road Escondido, CA 92027

Auburn 155/005

George Field, Jr., Glen Field George Field Sr Irrevocable Trust 116 West Hardscrabble Road Auburn, ME 04210

Auburn 132/003

Sandra Holt, Brian Keene 2714 Hotel Road Auburn, ME 04210

Auburn 144/044-002

Debra Deschaine, Pamela Rietschel 41 Infinity Way Auburn, ME 04210

Auburn 144/032

Benjamin Page, Casey Wade 2446 Hotel Road Auburn, ME 04210

Auburn 143/010; 143/012

Management Controls LLC PO Box 2058 Auburn, ME 04211

Auburn 144/003

Thomas Tieman 2480 Hotel Road Auburn, ME 04210

Auburn 132/005

Kerry Purvis, Randolph Purvis 2696 Hotel Road Auburn, ME 04210

Auburn 143/008

Omni Associates PO Box 1915 Lewiston, ME 04241

Auburn 144/035

Lorraine Sawyer PO Box 3486 Auburn, ME 04210

Auburn 143/007-001-004

Devisees of John Dewitt c/o Gary John Light, PR 2359 Montserrat Lane, #202 Naples, FL 34120

Auburn 143/007-002-028

Chase Donaldson, Judy Donaldson 67 Hampton Meadows Hampton, NH 03842

Auburn 143/007-002-021

Storage Solutions, LLC 15 Ru-Bee Ridge Road Windham, ME 04062

Auburn 144/010-001

Bruce Lefleur PO Box 396 Alfred, ME 04002

Auburn 144/005

Jennifer Rhuda, Francis Macdonald 2510 Hotel Road Auburn, ME 04210

Auburn 143/011

Carl E Damon Exemption Equiv Linda Swallow, Trustee 7 Colony Lane S. Portland, ME 04106

Auburn 132/017-000-001

New England Telephone Company c/o Fairpoint Communications 770 Elm Street Manchester, NH 03101

Auburn 143/007-001-001; 143/007-001-008

Sta-Kel Corp 716 Bridgton Road Westbrook, ME 04092

Auburn 156/046

Cole Quirion, Nicole Quirion 2440 Hotel Road Auburn, ME 04210

Auburn 144/010 MCY Properties LLC 6 Hope Street Lisbon Falls, ME 04252

Auburn 144/013

Mark Barry, Sr. 36 Turcotte Lane Auburn, ME 04210

Auburn 143/001

Thomas Moser 72 Wrights Landing Auburn, ME 04210

Auburn 144/007

Julie Staires, Alice Staires 2530 Hotel Road Auburn, ME 04210

Auburn 143/005-001

Savage Services Corporation 901 W Legacy Center Way Midvale, UT 84047

Auburn 156/017

Kevin Cain, Debra Cain 2309 Hotel Road Auburn, ME 04210

Auburn 144/031

Rachel Haines, James Haines 374 East Hardscrabble Road Auburn, ME 04210

Auburn 144/018

Edward Reynolds, Cherie Asselin 35 David Drive Auburn, ME 04210

Auburn 156/005-001; 143/013;142-007-000-003; 155/004; 131/007; 143/007; 119/002; 131/002; 155/003; 156/048; 132/007; 156/005;

City of Auburn, City of Lewiston 60 Court Street Auburn, ME 04210

500' Radius Abutter List 230887

Auburn 144/036 Ralph Sawyer PO Box 3486 Auburn, ME 04210

Auburn 143/007-002-029 Kevin Rouillard, Monique Rouillard 204 Gayton Road Lewiston, ME 04240

Auburn 143/007-000-004

Auburn Hangar Company, LLC 2 Great Falls Plaza, Suite 7 Auburn, ME 04240

Auburn 167/004-001

Lewiston & Auburn Railroad Company 415 Lisbon Street, Suite 400 Lewiston, ME 04240

Auburn 144/004

Normand Nadeau, Tina Nadeau 2500 Hoel Road Auburn, ME 04210

Auburn 143/007-001-010

Klew LLC 200 Mountain Road Falmouth, ME 04105

Auburn 120/002

Hayden Brothers Co, LLC PO Box 1030 Auburn, ME 04211

Auburn 132/002

Douglas Burdick 8 Hancock Street Gray, ME 04039

Auburn 143/001-001

Giles Property Management LLC 82 Nadines Way Bangor, ME 04401

Auburn 168/013

City of Auburn, City of Lewiston c/o Auburn Lewiston Municipal 80 Airport Drive Auburn, ME 04210

Auburn 131/005 Paine Realty LLC

PO Box 1056 Auburn, ME 04210

Auburn 143/007-002-025

Erik Langenbach, Rebecca Frein 108 Village Brook Road Yarmouth, ME 04096

Auburn 143/006

Dead River Company 177 Turner Street Auburn, ME 04210

Auburn 144/009

Daniel Johnston, Debra Johnston 537 Fish Street Leeds, ME 04263

Auburn 143/007-002-024

David Rogers 19 Country Lane Windham, ME 04062

Auburn 142/003

St Lawrence & Atlantic Railway Accounts Payable 225 First Flight Drive, Suite 201 Auburn, ME 04210

Auburn 132/008; 132/013; 132/008-002, 132/013-001

Gail Sasseville, Paul Sasseville Sasseville Management LLC PO Box 152 Minot, ME 04258

Auburn 144/008

Cynthia Chessey 2550 Hotel Road Auburn, ME 04210

Auburn 156/007

Gary Brooks 33 Buckfield Road Turner, ME 04282

Auburn 143/007-001-007

James Timoney 158 East Shore Road Auburn, ME 04210

Auburn 120/018 Ayesha Hall, Malik Hall 52 Ware Street Lewiston, ME 04240

Auburn 144/037

William Humphrey 385 East Hardscrabble Road Auburn, ME 04210

Auburn 156/004

Derrick Teti, Melissa St. Pierre 6 Spring Valley Lane New Gloucester, ME 04259

Auburn 132/017

J and A Properties LLC PO Box 1970 Auburn, ME 04210

Auburn 143/007-002-022

David Leonard 8 Misty Way Falmouth, ME 04105

Auburn 156/045

Stanley Brothers Construction 399 Picket Lane Camden Wyoming, DE 19934

Auburn 144/006

George Tibbetts 2520 Hotel Road Auburn, ME 04210

Auburn 143/007-001-002

Jacki-Lyn Rogers 595 Pond Road Standish, ME 04084

Auburn 143/007-002-020

Hawks Nest LLC 65 Aquamarine Court Auburn, ME 04210

Auburn 132/011

Valerie Wagg 2616 Hotel Road Auburn, ME 04210

Auburn 156/011

Robert Mcleod, Cynthia Mcleod 51 Constellation Drive Auburn, ME 04210

Auburn 155/002; 156/015; 144/015

City of Auburn 60 Court Street Auburn, ME 04210

Auburn 144/014; 132/009

Central Maine Power Company c/o Avangrid Mngmt Co -Local Tax One City Center, 5th Floor Portland, ME 04101

Auburn 131/001

Auburn Business Development Co PO Box 642 Auburn, ME 04210

Auburn 144/017

Rachel Doherty 45 David Drive Auburn, ME 04210

Auburn 144/022

Timothy Herman 41 Turcotte LM Auburn, ME 04210

Auburn 143/007-002-023

James Evers 14 Rockaway Road Falmouth, ME 04105

Auburn 144/033

Mark Benton, Kathi Benton 427 E Hardscrabble Road Auburn, ME 04210

Auburn 143/007-000-002

Lifeflight of Maine LLC PO Box 811 Bangor, ME 04402

Auburn 144/001

Bruce Tisdale 2589 Hotel Road Auburn, ME 04210

Auburn 132/008-001

Diana Bernier, Robert Bernier 7 Coachman Avenue Auburn, ME 04210

Auburn 120/001

Tambrands Incorporated, Proctor & Gamble c/o JLLValuation and Advisory 700 East Campbell Rd., Suite 265 Richardson, TX 75081

Auburn 156/002

Brian Carrier, Candice Carrier 32 Constellation Drive Auburn, ME 04210

Auburn 142/005; 168/003

Lewiston Auburn Railroad Company c/o Jonathan Labonte PO Box 501 Auburn, ME 04210

Auburn 131/004

John D Haynes Living Trust 153 Beechwoods Road Oxford, ME 04270

Auburn 132/012

Jean Oligny 48 Center Court Drive New Gloucester, ME 04260

Auburn 143/004

Otis South LLC c/o Karen & Ford Reiche 54 Bartol Island Road Freeport, ME 04032

Auburn 156/001

Teague Adams 24 Constellation Drive Auburn, ME 04210

Auburn 143/007-001-005; 143/007-001-009

Dorothy Betz, John Betz, Jr. PO Box 1737 Naples, ME 04055

Auburn 132/016

MYR Real Estate Holdings LLC 1701 Golf Road, Suite 3-1012 Rolling Meadows, IL 60008 Auburn 143/007-001-011 Belair Services Inc. Attn: Beth Humphrey PO Box 2 Gray, ME 04039

Auburn 143/007-000-001 Tim Corporation 2 Great Falls Plaza Auburn, ME 04210

Auburn 156/003

Lisa Dumont 50 Constellation Drive Auburn, ME 04210

Auburn 144/034

Scott Marquis 411 East Hardscrabble Road Auburn, ME 04210

Auburn 144/011

Martin Verrill, Rachel Verrill 12 Turcotte Lane Auburn, ME 04210

Auburn 144/016

Jesse Beaulieu 400 East Hardscrabble Road Auburn, ME 04210

Auburn 156/044

Marstons Corner Baptist Church 752 Beech Hill Road Auburn, ME 04210

Auburn 144/021

Donna Leblond, Richard Leblond, Sr. 32 David Drive Auburn, ME 04210

Auburn 143/007-001-006

Northeastern Financial LLC 18 Peacock Hill Road New Gloucester, ME 04260

Auburn 156/012

Joh Waisanen, III 33 Constellation Drive Auburn, ME 04210

Auburn 120/017

Brigitte Whiting 2800 Hotel Road Auburn, ME 04210

Auburn 143/007-002-027

Sebago Hanger 27 LLC PO Box 337 Yarmouth, ME 04096

Auburn 132/001

Scott Riccio 2760 Hotel Road Auburn, ME 04210

Auburn 156/013

Roger Chabot, Martha Chabot 2431 Hotel Road Auburn, ME 04210

Auburn 144/004-001

Dominic Ross 90 David Drive Auburn, ME 04210

Auburn 143/009

E S Chapman Properties, LLC 497 Washington Street Auburn, ME 04210

Auburn 144/012

Kayci Mero 24 Turcotte Lane Auburn, ME 04210

Auburn 144/044-001

Adam Schaff, Rebecca Schafer 32 Infinity Way Auburn, ME 04210

Auburn 132/010

George Lyon, III 2626 Hotel Road Auburn, ME 04210

Auburn 156/006

Micaela Holland 31 West Hardscrabble Road Auburn, ME 04210

Auburn 132/004

David Corriveau, Kelly Corriveau 2706 Hotel Road Auburn, ME 04210

Auburn 143/007-001-003

James Weigand, Linda Weigand 150 Beech Hill Road Auburn, ME 04210

Auburn 144/030

Gary Ufkin 364 East Hardscrabble Road Auburn, ME 04210

Auburn 143/007-002-026

Marc Blais 353 Randall Road Lewiston, ME 04240

Auburn 131/006

BT NEWYO LLC Attn: Corp Real Estate Tax Dept 55 Glenlake Parkway NE Atlanta, GA 30328

Section 4

Title, Right, or Interest

SECTION 4: TITLE, RIGHT, OR INTEREST

The Cities of Auburn and Lewiston own the Auburn-Lewiston Municipal Airport. The deed referenced by the Auburn Assessor's Office was recorded in the Androscoggin County Registry Deeds in Book 611 on Page 459 on March 1, 1948.

THAT, THE UNITED STATES OF AMERICA, acting by and through the WAR ASSETS ADMINISTRATOR, under and pursuant to Reorganization Plan One of 1947 (12 Fed. Reg. 4534), and the powers and authority contained in the provisions of the Surplus Property Act of 1944, as amended, and applicable rules, regulations and orders, party of the first part, in consideration of the assumption by the CITY OF AUBURN AND CITY OF LEWISTON, both being municipal corporations, in the State of Maine, party of the second part, of all the obligations and its taking subject to certain reservations, restrictions and conditions and its covenant to abide by and agree to certain other reservations, restrictions and conditions, all as set out hereinafter, does hereby remise, release, and forever quitclaim to the said CITIES OF AUBURN AND LEWISTON, their successors and assigns, under and subject to the reservations, restrictions and conditions, exceptions and reservation of fissionable materials and rights hereinafter set out,

all right, title, interest and claim in and to the following described real, personal or mixed property situated in the County of Androscoggin, State of Maine, to wit: Parcel One:

A certain parcel of land containing 436 acres more or less situated in said Androscoggin County bounded and described as follows:

Beginning at a point in the westerly line of the Hotel Road, so-called, 1642.98 ft. N. 11° 35' E. from the angle at station 97/ 53.44 ft. as defined by the Androscoggin (Maine) County Commissioners in a survey made by George H. Barron, June 2, 1933, minutes of which are recorded in the Clerk of the Courts Office, Commissioner Records. Said point being the same monument that marks the southeast corner of the right-of-way to the hangar as shown on a plan of the Lewiston-Auburn Airport made by George H. Barron and recorded in the Androscoggin County (Maine) Registry of Deeds, Book of Plans, Volume 2, Page 354; thence N. 11° 35' E. by said westerly line of the Hotel Road, 1496.19 ft. to an angle in said line; thence N: 11° 17' E. by the said westerly line of the Hotel Road 195.12 ft. to a point in said line marked by a concrete monument; said point being the intersection of the said westerly line of the Hotel road and the southerly line of Hardscrabble Road, so-called; thence N. 28° 7' W. by the said southerly line of Hardscrabble Road 125.42 feet; thence by land of Lucy A. Poland the following courses and distances. S. 82° 43' W. 159.65 ft. and N. 54° W. 113.38 ft; thence by lands of the City of Auburn, Alfred E. Pease and Ernest E. Pease, N. 25° 17' W. 625.45 ft; thence continuing by land of Ernest E. Pease, N. 64°, 43' E. 200 ft. to a point in the southerly line of Hardscrabble Road; thence N. 26° 6' W. by the said southerly line of Hardscrabble Road 510.75 ft.

KNOW ALL MEN BY THESE PRESENTS:

q

767

122

Э¹⁰Л

212

2150

335

2166 108

(2 2203

89

See-

2329

271

See

92432

See

2535

129

5

2362

51

12

611

459

to an angle in said line; thence N. 35° 43' W. by the said southerly line of Hardscrabble Road 60.4 ft. to an angle in said line; thence N. 47° 30' W. by said southerly line of Hardscrabble Road 95.84 ft. to an angle in said line; thence N. 55° 6' W. by the said southerly line of Hardscrabble Road 96.66 ft. to an angle in said line; thence N. 63° 1' W. by the said southerly line of Hardscrabble Road 95.92 ft. to an angle in said line; thence N. 74° 2' W. by the said southerly line of Hardscrabble Road 175.34 ft. to an angle in said line; thence N. 68° 49' W. by the said southerly line of the Hardscrabble Road thru and crossing Lewiston Junction. Road, so-called, 472.57 ft. to a point that marks the intersection of the said southerly line of the Hardscrabble Road and the southeast line of the Lewiston and Auburn Railroad operated by the Grand Prunk Railway Company of Canada; thence S. 51° 28' W. by the said southeasterly line; of the Lewiston-Auburn Railroad 4376.4 ft. to a point in said southeasterly line, the point of a curve; thence by said curve of 1113 ft. radius 5222.22 ft. to an angle in said southeasterly line; thence S. 64° 32' E. 16.5 ft. to an angle in said southeasterly line; thence by said line southerly on a curve of 1096.5 ft. radius 1292.3 ft to the northerly line of the Grand Trunk Railway; thence S. 39° 20' E. by said northerly line 3985.21 ft. to the point of curve in said line; thence following said curve southeasterly on a 5680.5 ft. radius 352.2 ft. to a point in said northerly line at the end of said curve; thence S. 43° 13' E. by said northerly line of the Grand Trunk Railway 406.47 ft. to the said westerly line of Hotel Road; thence N. 28° 43' East by said westerly line of Hotel Road 2497.9 ft. to an angle in said line; thence N. 21° 18' E. by the said westerly line of Hotel Road 757.44 ft. to an angle in said line; thence N. 11° '35' E. by said westerly line of Hotel Road 1642.98 ft. to

Excepting therefrom; (1) a parcel containing 5.5 acres more or less, located at the northeast corner of the subject premises as used for an Air Base, and bounded northeast by Hardscrabble Road, and southeast by Hotel Read; (2) a parcel containing 29 acres more or less, located at the southeast end of said Air Base, being a parallelogram approximately 2000 ft. by 750 ft. and bounded southeasterly by Hotel Road, (neither of said parcels having been surveyed to date); and (3) a parcel of land containg 111 acres more or less, being formerly the Municipal Airport, presently under lease to the Government by the Cities of Auburn and Lewiston.

first described monument and to the place of beginning.

611

461

611

There is included in this convyance appurtenant avigation and sewer (outfall and/or otherwise) easements; all runways, taxiways, aprons, field lighting system field markers, drainage system, fencing, water system, sanitary and storm sewer system, fuel and oil storage distribution system; electric power distribution system; telephone distribution plant system; buildings and structures, together with heating systems installed therein, numbered as follows: Nos. 1, 2, 3, 6, 9-14 incl., 24, 26-33 incl., and 35, 22 and 101. Necessary Operating Equipment

Item No. Description Unit Lights, Runway, contact, snow country Two (2)9 Desk, double pedestil, oak typist Two (2) 14 Desk, double pedestal, oak executive 15 One (1) 16 Desk, double pedestal, walnut executive One (1) 19 Desk, single pedestal, oak typist (installed in tower) One (1) 21 Chair, executive, oak, swivel without arms Two (2)22 Chair, swivel, oak, typist Four (4) 24 Chair, straight back maple Six(6)25 Chair, straight back, oak Nine (9) 28 Clock, wall type, electric telchron, 12" dia. face One (1) 29 Compressor air electric driven (installed in garage. One (1) Building 10) 30 Compressor, portable, on 2 wheeled rubber tired trailer, One (1) gasoline driven, Schramm, 20 cu. ft. Capac. at 1800 R.P.M. Shovel Dozer, Engine #TDCBBM-99154-T4, Serial TDCB29021T4, One (1) 31 BNAS #256 32 Extinguisher, Fire, Hand, CO2, 15 pound Fourteen (14) 33 Extinguisher, fire'hand, CO2, 4 pound-Thirteen (13) Two (2) Extinguisher, fire hand, Floatfome, 3 gal. 35 Fountain, drinking, electrically refrigerated 110V, Halsey-Taylor .Three (3) 37 38 Fountain, drinking, electrically refrigerated llov, Halsey-Taylor One (1) (installed in Administration Building) Description Item No. Unit 39 Grader, Adams gasoline powered, Model 201, Serial 724, BNAS #457 One (1)-40 Snow Loader, Nelson, Model KR5, Serial 44557, Motor One (1) D140-P5, BNAS # 422 42 Pumper, trailer mounted fire gas engine driven Bean USN 78152 One (1) Sander, for attaching to dump truck 2 wheel, rubber tired, 43 One (1) trailer type, Burch Model T.S. Serial 463 44 Stoves, heating, oil burning Duo Therm. large square type Six (6) 46 Tetrahedron (Installed on field) One (1)

Page 44 of 186

_	, ,	
	47 Tractor, farm type, rubber tired, International Model 1-6,, Serial IBK-5611 BNAS 237	()ne (1)
	48 Tractor, plane handling, International, shop mule type, Serial H5381, BNAS 448	One (1)
	49 International Fire and Rescue Truck, USN 54600	One (1)
	52 Truck, Ford, equipped with Sno-So rotary plow BNAS 393	. One (1)
	54 Welder, electric, 200 amp. 220V, Westinghouse Navy #62812	5 One (1)
	55 Welder, portable, oxy-acetylene, with 2 cylinders and gages, shop type ARCO	One (1)
	56 Truck, dump, Chevrolet USN 12103, 12 ton, with Baker Mode 271A plow with hand operated hydraulic lift.	1 . One .(1)
	57 Truck, dump, Chevrolet, USN 121201, l_2^{\downarrow} ton with Baker Mode 271A plow with hand operated hydraulic lift.	1 One (1)
	58 Jeep, 4ton, USN 20360986	One (1)
	140 Kettle, 2gal. Tar (Metal)	One (1)
	141 Ladder, 12' Carpenter's made for Elec. Maintenance	One (1)
	152 Mattocks	Four (4)
	154 Mowers, Lawn, hand	Two (2)
	160 Parts, tractor & truck-bolts, springs, etc. misc.	100 lb.
	161 Pump, Drum, hand Rotary	One (1)
	162 Pump, Hydrant, Rotary	One (1)
	164 Rakes, iron	Sixteen (16)
	173 🗧 Scoops, Hopper, Snow	Six (6)
	177 Shovel, Scoop	Two (2)
	178 Shovels, D. Handles, Sq. Point	Thirteen 🕼
	Item No. Description	Ųnit -
	179 Shovels, D. handles, Coal	Four (4)
	180 Shovels, Long Handle, Sq. Point	Five (†)
	190 Wrench, Rim Tire	Two (2)
	* 191 Wrench, Special, Sq. F. Hex	One (1)
	192 Wrench, Sleeve, Tractor Ei	ghteen (18)
	210 Wrench, Airco 3/4, 11/16, 7/16, 1-1/8	One (1)
	213 Basket, file, wood	One (1)
	221 Cabinet, first aid (equipped)	One (1)
	235 Truck, Two wheel, hand	One (1)
	237 Lights, runway, contact, snow area type, white Fou	rteen (14)
	238 Lights, runway, cont act , snow area type, green Twent	y-four (24)

•

)

	<u> = </u>		
	239 240	Lights, runway, contact, snow area type, yellow & White Lights, boundary, CH(APB) type H, white	Eighty-three (83) Sixty-nine (69)
	241	Lights, boundary, CH (APB) type H. green	Eighteen (18)
	242	Beacon, 36" rotating	One (1)
	243	Projector, ceiling	One (1)
	244	Lights, obstruction, rad	Thirty-one (31)
	245	Lens, green	Four (4)
	246	Lens, yellow-white	Twenty (20)
	247	Lens, white	Eight (8)
	248	Assembly, cable, complete	Twelve (12)
	249	Assembly, light	Twelve (12)
	250	Lamps	Twenty-five (25)
	251	Columns, fibre, 20"	Fifty (50)
	252	Transformer, $S/17$, 6.6 amp.	Six (6)
	253	Places, base	Four (4)
	254	Deep Pots	Three (3)
	255	Lens, green	Two (2)
	256	Lens, white	Six (6)
	257	Units, complete	Four (4)
	258	Cones	Three (3)
	259	Cones mounted tip over units	Two (2)
	260	1000 Watt 32 U. Beacon Lamps	Two (2)
	Item No.	Description	Unit
	261	Lens, red	Three (3)
	262	Units, complete	Two (2)
ł	263	Power Plant	One (1)
	264	Cable, 2/2 #16, with outlets every 400' AN-S-2 type	12000 ft.
	265	Units, complete, with green lens	Four (4)
	266	Units, complete with yellow-white	Sixteen (16)
	267	Units, complete with white	Twelve (12)
	268	Trunks, for equipment storage	Three (3)
	269	Cable carriage	One (1)
	270	Vulcanizing Kit (less small tools)	One (1)
	271	Cone Rack	One (1)
	272	Lens, green	Two (2)
11			

ť

	۰.		
	273	Lens, yellow-white	Six (6)
	274	Lens, white	Six (6)
	275	Assembly, light	Six (6)
	276	Cones	Twenty-five (25)
	277	Lamps	Twenty-five (25)
	278	Pump sump 110 V. for Adm. Building	One (1)
-	279	Transceiver, SCR624	One (1)
	280	Transmitter, BC329	One (1)
	281	Receiver, Model RAL	Two (2)
	41	Mower, 30 inch, gang type Worthington, Serials All669, All662, All670, All664, All667	One (1)
	50	Sterling Crane, Model DD5, Motor #573894, Serial #235DDS-6106, BNAS 336	One (1)
	51	Truck, Runway lighting, International Flat lz Ton with J4 Lighting unit	Bed One (1)
	224	24 Lockers, double, wood	Twenty-four (24)

The above-described premises are subject to existing easements for roads, highways, public utilites, railways and pipe lines.

EXCEPTING HOWEVER, from this conveyance all right, title and interest in and to all property in the nature of equipment, furnishings and other personal property located on Parcel One or the land leased from the party of the second part, as hereinafter set out, which can be removed from the land without material injury to the land or structures located thereon, other than property of such nature located on such premises which is required for the efficient operation for airport purposes of the structures and improvements specifically listed hereinabove as being transferred hereby; and further excepting from this conveyance all structures on such premises other than structures specifically described or enumerated above as being conveyed hereunder, and reserving to the party of the first part the right of removal from the premises of the property and structures excepted hereby within a reasonable period of time after the date hereof, which shall not be construed to mean any period less than one (1) year after the date of this instrument. The party of the second $\frac{1}{2^{4}}$ part hereby agrees to furnish, without any cost or charge to the party of the first part, the same security and protection for the property and structures excepted from this conveyance, hereinabove referred to, as it

will provide for its own property at this airport.

Further, the party of the first part, for the considerations hereinabove expressed, does hereby surrender, subject to the terms and conditions of this instrument, to the party of the second part the former's leasehold interest in and to the premises set forth and described in a lease from the party of the second part to the United States of America, dated Oct_{0} ber 15, 1943, said lease known as Lease No. NOy(R)-33671, and any and all currently effective supplements thereto, including one hundred and eleven (111) acres, more or less, of land situated in the said County of Androscoggin, State of Maine.

The party of the second part does hereby release the party of the first part from any and all claims which exist or may arise under the provisions of the aforesaid lease, as so modified, except claims which may be submitted under Section 17 of the Federal Airport Act.

Said property transferred hereby was duly declared surplus and was assigned to the War Assets Administrator for disposal, acting pursuant to the provisions of the above mentioned Act, as amended, said Reorganization Plan One of 1947, and applicable rules, regulations and orders.

That by the acceptance of this instrument or any rights hereunder, the said party of the second part, for itself, its successors and assigns, agrees that the aforesaid surrender of leasehold interest and transfer of other property shall be subject to the following restrictions, set forth in subpargraphs (1) and (2) of this paragraph, which shall run with the land, imposed pursuant to the authority of Article 4, Section 3, Clause 2 of the Constitution of the United States of America, the Surplus Property Act of 1944, as amended, said Reorganization plan One of 1947, and applicable rules, regulations and orders:

(1) That the aforesaid leased premises and all property in this instrument described above which together shall hereinafter be called the "airport", shall be used for public airport purposes, and only for such purposes, on reasonable terms and without unjust discrimination and without grant or exercise of any exclusive right for use of the airport within the meaning of Section 303 of the Civil Aeronautics Act of 1938, As used herein, "public airport purposes" shall be deemed to exclude use of the structures conveyed hereby, or any portion thereof, for manufacturing or industrial purposes. However, until, in the opinion of the Civil Aeronautics Administration or its successor: Government agency, it is needed for public airport purposes, any particular structure transferred hereby may be utilized for non-manufacturing or non-industrial purposes in such manner as the

<u>611</u>

party of the second party deems advisable, provided that such use does not interfere with operation of the remainder of the airport as a public airport.

611

(2) That the entire landing area, as defined in WAA Regulation 16, dated June 26, 1946, and all structures, improvements, facilities and equipment of the airport shall be maintained at all times in good and serviceable condition to assure its efficient operation: provided, however, that such maintenance shall be required as to structures, improvements, facilities and equipment only during the remainder of their estimated life as determined by the Civil Aeronauties Administration or its successor Government, agency. In the event materials are required to rehabilitate or repair certain of the aforementioned structures, improvements, facilities or equipment transferred hereby and located on the above described premises, which have outlived their use as airport property in the opinion of the Civil Aeronautics Administration or its successor; Government agency.

That by the acceptance of this instrument, or any rights hereunder, the party of the second part, for itself, its successors and assigns, also assumes the obligations of, covemants to abide by and agrees to, and this surrender and transfer is made subject to, the following reservations and restrictions set forth in subparagraphs (1) to (6) of this paragraph, which shall run with the land, imposed pursuant to the authority of Article 4, Section 3, Clause 2 of the Constitution of the United States of America, the Surplus Property Act of 1944, as amended, said Reorganization Plan One of 1947, and applicable rules, regulations and orders.

(1) That insofar as is within its powers and reasonably possible, the party of the second part, and all subsequent transferrees, shall prevent any use of land either within or outside the boundaries of the airport, including the construction, grection, alteration, or growth of any structure or other object thereon, which use would be a hazard to the landing, taking-off, or naneuvering of the aircraft at the airport, or otherwise limit its usefulness as an airport.

(2) That the building areas and non-aviation facilities, as such terms are defined in WAA Regulation 16, dated June 26, 1946, of or on the airport: shall be used, altered, modified, or improved only in a manner which does not interfere with the efficient operation of the landing area and of the airport facilities, as defined in WAA Regulation 16, dated June 26, 1946.

1

(3) That itinerant aircraft owned by the United States of America (hereinafter sometimes referred to as the "Government"), or operated by any of its employees or agents on Government business, shall at all times have the right to use the airport in common with others; provided, however, that such use may be limited as may be determined at any time by the Civil Aeronautics Administration or the successor Government agency to be necessar/ to prevent interference with use by other authorized aircraft, so long as such limitation does not restrict the Government's use to less than fifteen (15) per centum of capacity of the landing area of the airport. Government use of the airport by virtue of the provisions of this subparagraph shall be without charge of any nature other than payment for damage caused by such itinerant aircraft.

<u>611</u>

(4) That during the existence of any emergency declared by the President of the United States of America, or the Congress thereof, the Government shall have the right without charge, except as indicated below, to the full, unrestricted possession, control and use of the landing area, building areas, and airport facilities, as such terms are defined in WAA Regulation 16, as above referred to, or any part thereof, including any additions or improvements thereto made subsequent to the declaration of any part of the airport as surplus; provided, however, that the Government shall be reaponsible during the period of such use for the entire cost of maintaining all such areas, facilities and improvements, or the portions used, and shall pay a fair rental for the use of any installations or structures which have been added thereto without Federal aid.

(5) That no exclusive right for the use of any landing area or air navigation facilities, as such terms are defined in WAA Regulation 16, as above referred to, included in or on the airport shall be granted or exercised.

(6) That the airport may be successively transferred only with the approval of the Civil Aeronautics Administration or the successor Government agency, and with the proviso that such subsequent transferee assumes all the obligations imposed upon the party of the second part by the provisions of this instrument.

By acceptance of this instrument, or any right hereunder, the party of the second part further agrees with the party of the first part as follows:

(1) That upon a breach of any of the aforesaid reservations or restrictions by the party of the second part of any subsequent transferee, whether caused by the legal inability of said party of the second part or subsequent transferee to perform any of the obligations herein set out, or otherwise, the title, right of possession and all other rights transferred to the party of the second part, or any portion thereof, shall at the option of the party of the first part revert to the party of the first part upon demand made in writing by the War Assets Administration or its successor Government agency at least sixty (60) days prior to the date fixed for the revesting of such title, right of possession and other rights transferred or any portion thereof; Provided, that, as to installations or structures which have been added to the premises without Federal aid, the Government shall have the option to acquire title to or use of the same at the then fair market value of the rights therein to be acquired by the Government.

(2) That if the construction as covenants of any of the foregoing reservations and restrictions recited herein as covenants, or the application of the same as covenants in any particular instance is held invalid, the particular reservations or restrictions in question shall be construed instead merely as conditions upon the breach of which the Government may exercise its option to cause the title, right of possession and all other rights transferred to the party of the second part, or any portion thereof, to revert to it, and the application of such reservations or restrictions as covenants in any other instance and the construction of the remainder of such reservations and restrictions as covenants shall not be affected thereby.

To have and to hold the property transferred hereby, except the property and rights excepted and reserved above, and under and subject to the aforesaid reservations, restrictions, and conditions, unto the said party of the second part, its successors and assigns forever.

This instrument is intended to take effect as a sealed instrument.

IniWitness Whereof, the United States of America, acting by and through the War Assets Administrator, has caused these presents to be executed in its name and on its behalf by Harry Milnes, Associate Deputy Zone Administrator for Real Property Disposal, New York City, War Assets Administration, and the City of Auburn and the City of Lewiston to evidence their complete acknowledgment of, accord with, acceptance of and agreement to be bound by the terms, conditions, reservations and restrictions set forth in this instrument, have caused these presents to be executed in its name and on its behalf by Louis P. Gagne, Mayor of the

611

469

City of Lewiston, and attested by Lucien Lebel, City Clerk of the City of Lewiston, and the City seal to be hereunto affixed, and in its name and behalf by Bernal B. Allen, City Manager of the City of Auburn, and attested by Leon H. Cole, City Clerk of the City of Auburn, and the City seal to be hereunto affixed, all on the 18th, day of December, 1947.

WITNESSES: William J. Kelley John F. Kenny

WITNESSES: Katherine G. Learson Rosaire L. Halle Leon H. Cole

WITNESSES: John F. Conway Frank W. Linnell UNITED STATES OF AMERICA Acting by and through WAR ASSETS ADMINISTRATOR

By Harry Milnes Associate Deputy Zone Administrator for Real Property Disposal, New York City War Assets Administration

CITY OF LEWISTON (a municipal corporation) By Louis P. Gagne (corporate seal) Mayor (corp. seal)

ATTEST: Lucien Lebel City Clerk

CITY OF AUBURN (a municipal corporation) By Bernal B. Allen (corporate seal) City Manager (corp. seal) ATTEST: Leon H. Cole City Clerk

STATE OF NEW YORK SS.

On this 18 day of December, 1947, before me, appeared Harry Milnes, to me personally known, who, being by me duly sworn, did say that he is the Associate Deputy Zone Administrator for Real Property Disposal, New York City, War Assets Administration, and that the foregoing instrument was signed in behalf of the War Assets Administration, the War Assets Administrator and the United States of America by authority of law, and said Harry Milnes acknowledged said instrument to be the free act and deed of said War Assets Administration, War Assets Administrator and United States of America.

William J. Kelley William J. Kelley Attorney and Counsellor-at-Law Residing in Queens Co. Queens Co. Clk's No. 209, Reg. No. A-377-K-8 Kings Co. Clk's No. 66, Reg. No. A-562-K-8 N. Y. Co. Clk's No. 88 Reg. No. A-855-K-8 Commission Expires March 30, 1948.

State of New York County of New York ^{SS.}

No. 8390

I, Archibald R. Watson, County Clerk and Clerk of the Supreme Court, New York County, A Court of Record having by law a seal, Do Hereby Certify That William J. Kelley whose name is subscribed to the annexed affidavit, deposition

611

eertificate of acknowledgment or proof, was at the time of taking the same an Attorney and Counsellor at law, duly commissioned and sworn and qualified to exercise the powers of a Notary Public throughout the State of New York that pursuant to law a commission, or a certificate of his appointment and qualifications, and his autograph signature, have been filed in my office; that as such officer he was duly authorized by the laws of the State of New York to Administer oaths and affirmations, to receive and certify the acknowledgment or proof of deeds, mortgages, powers of attorney and other a written instruments flor lands, tenements and hereditaments to be read in evidence or recorded in this State, to protest notes and to take and certify affidavits and depositions; and that I am well acquainted with the handwriting of such Attorney and Counsellor at Law or have compared the signature on the annexed instrument with his autograph signature deposited in my office and believe that the signature is genuine.

In Witness Whereof, I have hereunto set my hand and affixed my offical seal this 31 day of Dec. 1947.

Fee Paid 25¢

hill reliable to disease

Contra Description of the second s

Archibald R. Watson County Clerk and Clerk of the Supreme Court, New York County.

State of Maine County of Androseoggin SS.

On the 23rd day of January, 1948, before me, personally appeared Louis P. Gagne, Mayor of the City of Lewiston, State of Maine, to me known and known by me to be the party executing the foregoing instrument on behalf of the City of Lewiston, and meknowledged said instrument, by him duly executed to be the free act of the City of Lewiston, as his free act and deed individually and in his capacity as Mayor of the City of Lewiston.

My Commission expires 12/16/49 State of Maine County of Androscoggin ss. Lucille M. Dingley Notary Public (seal)

On the 23rd day of January 1948, before me personally appeared Bernard B. Allen, City Manager of the City of Auburn, State of Maine, to me known and known by me to be the party executing the foregoing instrument on behalf of the City of Auburn, and acknowledged said instrument by him duly executed, to be the free act of the City of Auburn as his free act and deed individually and in his capacity as City Manager of the City of Auburn.

My commission expires 12/16/49

Lucille M. Dingley Notary Public (seal)

Page 53 of 18

<u>611</u>

CERTIFICATE'

I, the undersigned R. Whittet, Associate Daputy Administrator, Office of Real Property Disposal, War Assets Administration, in my official capacity as such Associate Deputy Administrator and duly authorized in the Delegation of Authority incident to the care, handling and conveyancing dated December 1, 1947, to make the following certification, do hereby certify:

1. That Harry Milnes is the Associate Deputy Zone Administrator, Real Property Disposal War Assets Administration, duly appointed, authorized and acting in such capacity at the time of the execution of the attached instrument.

2. That the attached Delegation of Authority incident to the care, handling, and conveyancing is a true and correct copy of the original of said Delegation of authority, dated December 1, 1947.

Given under my hand this 31st day of December, 1947

R. Whittet Associate Deputy Administrator Real Property Disposal War Assets Administration

(NOTICE)

Delegation of Authority No. 11

Delegation of Authority Incident to the Care, Handling, and Conveyancing of Surplus Real Property and Personal Property Assigned for Disposal Therewith

The Deputy Administrator, Office of Real Property Disposal, and each Associate Deputy Aministrator, Office of Real Property Disposal, War Assets Administration; the Zone Administrator, the Deputy Zone Administrator for Real Property Disposal, the Associate Deputy Zone Administrator for Real Property Disposal, and the Assistant Deputy Zone Administrator for Real Property Disposal, in each and every War Assets Administration Zone Office; the Regional Director and the Deputy Regional Director for Real Property Disposal, in each and every War Assets Administration Regional Office; the District Director and Deputy District Director for Real Property Disposal, War Assets Administration District Office. Columbia, South Carolina; and any person or persons designated to act, and acting, in any of the foregoing capacities, are hereby authorized, individually (1) to execute, acknowledge and deliver any deed, lease, permit, contract, receipt, bill of sale, or other instruments in writing in connection with the care, handling and disposal of surplus real property, or personal property assigned for disposition with real property, located within the United States, its territories and possessions, (2) to accept any notes, bonds, mortgages, deeds of trust or ∞_{i} other security instruments taken as consideration in whole or in part for the

disposition of such surplus real or personal property, and to do all acts necessary or proper to remease and discharge any such instrument or any lien created by such instrument or otherwise created, and (3) to do or perform any other act necessary to effect the transfer of title to any such surplus real or personal property located as above provided; all pursuant to the provisions of the Surplus Property Act of 1944, as amended; (58 Stat. 765, 50 U.S.C. App. Supp. 1611); Pulbic Law 181, 79th Cong. (59 Stat. 533; 50 U. S. C. App. Supp. 1614a, 1614b); Regrganization Plan 1 of 1947 (12 F. R. 4534); Public Law 289, 80th Cong. (61 Stat. 678); and War'Assets Administration Regulation No. 1 (12 F. R. 6661).

The Zone Administrator in each and every War Assets Administration . Zone Office is hereby authorized to redelegate to such person or persons as he may designate the authority delegated to him by this instrument.

L. S. Wright, the Secretary of the Real Property Review Board and R. Whittet, Associate Deputy Administrator, Office of Real Property Disposal, War Assets Administration, are hereby authorized, individually, to certify true copies of this Delegation and provide such further certification as may be necessary to effectuate the intent of this Delegation in form for recording in any jurisdiction, as may be required.

This Delegation shall be effective as of the opening of business on Dec. 1, 1947.

This authority is in addition to, but shall not in any manner supersede delegations of authority previously granted under dates of May 17, 1946; May 29, 1946; July 30, 1946; September 16, 1946; October 31, 1946; November 22, 1946; January 13, 1947; and June 6, 1947; as do not conflict with the provisions of this Delegation.

Jess Larson Jess Larson Acting Administrator

Dated: Dec. 1, 1947.

Received January 23, 1948 at 3H. 31M. P.M. and recorded from the original.

Régister/

611

Section 5

Technical Ability / Financial Capacity

SECTION 5: TECHNICAL ABILITY AND FINANCIAL CAPACITY

Technical Ability

The proposed new hangars are proposed by the applicant, Fielding Properties, LLC, who is authorized to conduct business in the State of Maine. Reference is made to Exhibit B for a copy of the Maine Secretary of State corporation status documentation.

1. Applicant / Design Team

<u>Fielding Properties LLC is managed by William Fielding of Fielding's Oil, who has six physical</u> locations in Maine. Fielding's is a locally owned business with over 50 years of experience in the oil and propane gas industry. The applicant has previous site development and permitting experience managing business and other properties.

<u>Sebago Technics, Inc.</u> provides design, engineering, and permitting support for the proposed hangar project development at the Auburn-Lewiston Municipal Airport. Sebago Technics is a multi-disciplinary professional firm with over forty years of experience in engineering, landscape architecture, land survey, transportation, CAD, GIS, regulatory permitting, environmental and geospatial services. In this section, we enclose a firm overview and the resume of the project manager, Robert McSorley, P.E., and additional project staff.

2. Construction Team

Marc Blais, General Contractor of Lewiston, Maine, is contracted to provide the construction of the Phase 1 hangar. Marc Blais has extensive local construction experience. Reference is made to preliminary architectural plans prepared by Essex Structural Steel Co., Inc., enclosed in the plan set. Final architectural plans will be provided to the City as part of the Building Permit Application prepared by others.

Financial Capacity

- A. Estimated Cost Phase I: \$615,000.00 Overall Estimate of Probable Cost: \$955,000.00
- B. Financing
 - 1. Phase I of the proposed project will be self-funded by Fielding Properties, LLC. The applicant's financial capacity to undertake the proposed project will be provided under separate cover.

ROBERT A. MCSORLEY, PE

Senior Project Manager



Mr. McSorley joined Sebago Technics, Inc. (STI) in 2006. He has worked in the Civil Engineering field since 1986 and is a Senior Project Manager specializing in project management for government, commercial and residential projects. He is responsible for client contact, proposals, financial aspects of projects, preparation of reports, bid documents, permitting issues, and construction coordination on a variety of public and private projects. He is also active in the community having served on the Portland Water District Board of Trustees and on the Scarborough Sanitary District Board of Trustees and currently serves as a Board member for Camp Scarborough.

EXPERIENCE

Mr. McSorley has completed and is working on several commercial and residential projects in New Hampshire and Massachusetts. In addition, he assists in QA/QC oversight of other projects, marketing of firm's services and technical guidance and training staff.

Rob has also performed peer reviews of projects and was the Assistant District Engineer for a 4,800 acre Special Services District. In that capacity, he was responsible for civil engineering and water management reviews for new projects. In addition, he was responsible for the design of the District's infrastructure including water, IQ and gravity sanitary, force mains, pump stations, drainage roadways and water management systems.

Some of his most notable work experience includes:

- Gorham Road Drainage Improvements South Portland, ME
- · Maine Mall Road Drainage Improvements South Portland, ME
- Maine Mall Road Sanitary Sewer Replacement South Portland, ME
- · Maine Street Drainage & Sidewalk Improvements Town of Kennebunkport, ME
- Bedford Street Sewer Separation Project & Portland Water District Main Project Portland, ME
- Mast Road Culvert Replacement Town of Waterboro, ME
- Pine Street Bridge Replacement (Box Culvert) Porter, ME
- USPS FSS Building Expansion North Reading, MA
- Sunbury Retirement Residence Bangor, ME
- Derry Retirement Residence Derry, NH
- Beverly Retirement Community Beverly, MA
- Tewksbury Retirement Residence Tewksbury, MA
- Portland Retirement Residence Portland, ME
- Billerica Retirement Residence Billerica, MA
- Mountain View Estates North Conway, NH
- Veteran's Administration Medical Center Cogeneration Facility Canandaigua, NY
- Synchronous Condenser, Green Mountain Power Jay, VT
- Veterans Administration Hospital Palm Beach County, FL

EDUCATION

University

Florida Atlantic University Boca Raton, FL Bachelor of Science, Mechanical Engineering, 1995

University of Maine - Orono, ME Majored in Mechanical Engineering 1980-1983

REGISTRATIONS

Professional Engineer: Maine, New Hampshire, Massachusetts, Vermont

National Council of Examiners for Engineering and Surveying

MEMBERSHIPS

American Society of Civil Engineers

CERTIFICATIONS

Maine DEP Maintenance & Inspection of Stormwater BMPs



JAKE S. HUNNEWELL, El Civil Engineer



Mr. Hunnewell joined Sebago Technics, Inc., (STI) in May of 2021 as a Civil Engineer within the Project Delivery Group. Mr. Hunnewell graduated from the University of Rhode Island with a degree in Civil and Environmental Engineering. He has worked in construction, including performing inspection-quality control for paving. He previously shadowed with Sebago Technics. In his current role as a Civil Engineer, he is a key member of a multi-disciplinary site development team. His responsibilities include, but are not limited to, grading design, stormwater treatment and drainage design, utility coordination and design, and permitting.

「亡う

EXPERIENCE

Jordan Bay Marina – Raymond, ME

This project included expanding landside facilities for Jordan Bay Marina, including outdoor boat parking and display, and a boat storage building. Jake's responsibilities as the civil engineer included pre- and post-development drainage analyses using HydroCAD, stormwater BMP sizing and design, grading design, and utility layout.

Grand Atlantic Hotel – Boothbay Harbor, ME

This project included two hotels constructed on the waterfront in Boothbay Harbor. Jake's responsibilities as the civil engineer included detailed grading design, utility layout and drainage design, and the preparation of construction specifications.

Belfast Convenient MD – Belfast, ME

This project included the construction of a Convenient MD facility on undeveloped land with significant wetland coverage. Jake's responsibilities as the civil engineer included pre- and post-development drainage analyses using HydroCAD, stormwater BMP sizing and design, grading design, utility layout and coordination, and conducting stormwater BMP inspections during construction.

Garbage to Garden – Portland, ME

This project involved expanding parking and material storage areas for the current operations to allow for this business to continue to grow. This site was particularly challenging due to steep slopes, an onsite stream, and unforeseen existing drainage conditions. Jake's responsibilities as the civil engineer included pre- and post-development drainage analyses using HydroCAD, stormwater BMP sizing and design, and grading and drainage design.

EDUCATION

University of Rhode Island, Kingston, RI

B.S. Civil and Environmental Engineering, 2020

CERTIFICATIONS

Maine Engineer-Intern Certification

OSHA 10-Hour Construction Safety



COLEN R. PETERS, CG, PWS

Environmental Services Manager



Mr. Peters joined Sebago Technics, Inc., (STI) in February of 2022. He is a well-recognized, experienced, environmental professional who has had his own firms and worked for large national and regional consulting firms. Cole is a Certified Geologist and Professional Wetlands Scientist. He is experienced in large scale environmental projects including utility corridors and projects, wind/solar power development, highway projects, wetlands delineations/mitigation, commercial projects, etc.

In his role as Environmental Services Manager, Cole oversees environmental services including wetlands/vernal pools delineations, environmental site assessments, soils analyses and related work. He also serves as liaison/ strategist for strategic environmental permitting with the Maine Department of Environmental Protection (DEP), Maine Land Use Preservation Commission (LUPC), US Environmental Protection Agency and US Army Corps of Engineers.

「「」

EXPERIENCE

Wetland Delineation and Vernal Pool Surveys:

- Auburn Industrial Park lot
- Bath Bath Iron Works
- Belfast Commercial property
- Boothbay Middle & High School expansion, undeveloped 63-acre parcel
- Brunswick BTWD wellfield
- · Bridgton Commercial and condominium properties
- · Cape Elizabeth Commercial, residential, and municipal properties
- Falmouth Undeveloped 70-acre parcel, residential property
- · Gorham Residential developments
- Kennebunk Undeveloped rural residential parcels
- Kennebunkport Seashore Trolley Museum
- Lewiston Undeveloped commercial property
- · Lyman Stonefield Quarry expansion
- Naples Undeveloped rural property
- Portland Martins Point Hospital, Cumberland County Jail, Jetport
- Saco Commercial property
- Scarborough Salvage yard, industrial park, residential subdivision
- · Sidney Rock quarry
- South Portland Commercial properties
- Raymond Port Harbor Marine (Functions & Values Assessment)
- Wells Campground
- · Windham Municipal Sewer right-of-way

Coastal Bluff and Dune Assessments:

- Harpswell Mill Cove residential property, Bowdoin College Schiller Campus boat ramp
- Scarborough Pine point residential property
- Yarmouth Cousins Island residential property

Water Supply Well Assessments:

- Acton Camp Kita (Boy Scouts of America Wm Nutter)
- Bridgton Condominium development
- Scarborough Residential subdivision

Environmental Constraints and Developability Analysis:

Lovell - 80-acre residential property on Kezar Lake

Environmental Permitting:

- Belfast Belfast Solar I, LLC
- Carmel Carmel Solar I, LLC
- Naples Naples Solar I, LLC
- Readfield Readfield Solar I
- Troy Troy Solar I
- Wiscasset Wiscasset Solar I, LLC



University of Rhode Island, - Kingston, RI M.S., Geology, 1981

> Marine Science Consortium Wallops Island, VA - 1978

Edinboro State College - Edinboro, PA B.S. in Geology, 1978

CERTIFICATIONS

Professional Wetland Scientist #760 Maine Certified Geologist #220

MEMBERSHIPS

Maine Association of Wetland Scientists (Founding Member)

Geological Society of Maine

PUBLICATIONS

Peters, C.R., 2019: *Mitigating Wetland Impacts (Loss) in the* Anthropocene, Northeast Section Meeting of the Geological Society of America, Portland, ME

Peters, C.R., 2017: *Dingley Estates Pooled Mitigation Site*, Northeast Chapter of Society of Wetland Scientists, Wetland Compensation Symposium, University of New England Biddeford, ME

Peters, C.R., 2017: Maine Wetland Compensation: Some Regs. Some Plans, Some Results, Maine Association of Wetland Scientists Winter Conference and Annual Meeting, Brunswick, ME



Page 60 of 186

SCOTT R. MORNEAU Senior Surveyor/Field Systems Coordinator



Mr. Morneau rejoined Sebago Technics, Inc. (STI) in 2015 after previously working for Sebago Technics for nine years prior. He has over 20 years of survey experience doing all facets of surveying including construction, commercial and residential surveying. He has worked and helped manage a variety of assignments relating to boundary surveys, topographic surveys, and construction related projects. Scott has also taken on additional responsibilities and the important role as the Survey Field Systems Coordinator. In this role, Scott manages the maintenance, repair, and overall operational status of Sebago's extensive survey equipment and technologies. He aids the Survey-Geomatics team in evaluating, selecting, and applying new surveying-based technology into the surveying field and office techniques and procedures.

EXPERIENCE

Dry Dock #1, USS Constitution, Boston Naval Shipyard – Boston, MA: Provided layout and quality control for the retrofit of new inner and outer sill/seat areas for the new Dry Dock Caisson. The resultant geometry was used to compare the pre-existing dry dock surfaces to the completed retrofit.

Coast Guard Station Pier – Southwest Harbor, ME: Created existing condition mapping and layout for the new boat maintenance facility on the existing pier structure including hydrographic, shoring and crack study mapping.

Coast Guard Station Pier – Rockland, ME: Created existing condition mapping on the existing pier structure including hydrographic, shoring and crack study mapping.

Broadway Corridor Mapping – South Portland, ME: Created existing condition mapping data of streetscapes from High Definition Laser Scanning for engineering purposes. Data included the mapping of roadway surfaces, above ground utilities, buildings and signage.

Amtrak Rail Expansion, Northern New England Rail Authority: Provided layout and quality control for the replacement of rail lines as well as the layout for a \$13 million train layover and maintenance facility.

Marine Terminal Pier – Searsport, ME: Created existing condition mapping of the existing pier, super structure, and hydrographic mapping.

Commercial Building Layout: While working alongside many of the premiere general contractors in Maine, Mr. Morneau has provided survey grade layout and building line control for many multiple-story commercial buildings in and around Maine.

	N
EDUCATIO	\sim

University of Maine, Orono, ME Construction Management Technology

University of Maine, Augusta, ME Architecture

CERTIFICATIONS

OSHA 10-hour Construction Safety



STEFANIE K. NICHOLS Permitting Specialist/Project Coordinator



Mrs. Nichols joined Sebago Technics, Inc. (STI) in 2018 as a Permitting Specialist/Project Coordinator and is a Regulatory Specialist with over 36 years of diverse experience. During this time, she has worked with many different disciplines in the various aspects of site permitting and site inventory, and associated reports and graphics. Other duties over the years include civil drafting-hand and ACAD, project bid tracking and construction submittal processing, sourcing landscape materials, livestock procurement/travel permits, and short-term fostering.

μ**Ξ**η

EXPERIENCE

Solar Array Projects

Locations: Berwick, Kenduskeag, Lewiston, Livermore Falls, Mechanic Falls, Minot, North Berwick, Orrington, Oxford, Prospect, Searsmont, Stockton Springs, etc. <u>Applications:</u> MDEP Site Law, NRPA, Stormwater, Transfer, Extension, Decommissioning, USACE, MDOT Driveway, and Municipal.

Homestead Farms Subdivision - Falmouth, ME

Single-Family Clustered Development <u>Applications:</u> MDEP Site Law, NRPA, ACOE, Municipal Subdivision/Site Plan Review

Copart of Connecticut - Windham, ME

Vehicle Auction Facility/Offices <u>Applications:</u> MDEP Site Law, NRPA, Municipal Site, and Subdivision

Harborchase - South Portland, ME

Senior Housing/Memory Care <u>Applications:</u> Municipal, MDEP and FAA

Maine Medical Center - Portland, ME

Large Medical Facility Expansion, Congress Street <u>Application:</u> Municipal Level III Site Plan Application

Colby College - Waterville, ME (2003-2018)

Liberal Arts College modifications and expansions: Athletic Fieldhouse Complex, Grossman Hall Addition/Renovation, Oakland Solar Array, Baseball/Softball Facility, Johnson Pond Water Quality, Biomass Plant Expansion, Cotter Union Expansion, The Diamond Building, Roberts Row Elevator Towers, Colby Green, etc. <u>Applications:</u> MDEP, USACE, Municipal

Sugarloaf - Carrabassett Valley, ME (2003-2016)

Ski Resort additions and modifications: Glades at Burnt Mountain, Golf Course, Snow Park, Bullwinkle's Expansion, Trail Widening, Parking, Sand and Salt Storage, etc. <u>Applications:</u> MDEP, USACE, Municipal

Sebasco Harbor Resort and Harbor Island - Phippsburg, ME (2003-2018)

Resort permitting, building modification, golf course modifications, parking, utilities, subdivision projects

<u>Applications</u>: MDEP Site Location, NRPA, OBD Renewal, DEP Transfers & Extensions, Municipal Site, and Subdivision

100+ Private Residences

Locations: Maine, Massachusetts, New Hampshire, Connecticut, Montana <u>Applications:</u> Municipal Site/Shoreland Review, MDEP NRPA, USACE, MDOT Driveway

EDUCATION



Northern Maine Technical College Presque Isle, ME Drafting Technology

Central Maine Technical College Auburn, ME

Maine Technical Source (MTS) Yarmouth, ME AutoCAD I



age 62 of 186

MARIA MORRIS, MS GIS Specialist



Ms. Morris joined Sebago Technics, Inc. (STI) in February of 2022 as a GIS Specialist. Maria is a graduate from the University of Glasgow with a Master's Degree in Geoinformation Technology & Cartography. Maria worked on projects including site suitability mapping, web & mobile mapping, and building land information systems. For her Master's thesis she analyzed "Spatial Multi- Criteria Decision Making for Dam Removal Prioritization in Maine." She also holds a B.A. in Environmental Studies from Vassar College where she completed her Dissertation, "Natural Spaces as Sacred Places," and conducted local campus studies on Soil Suitability for Reforestation and Solar Suitability on Campus. Originally from Southern Maine, Maria has enjoyed coming home to the state to spend most of her free time in the woods or on the water.

At Sebago, Maria develops cartographic products such as existing conditions plans, natural resource plans, web-mapping applications, and earth surface models through land information analysis. Maria's work provides insight into site constraints and opportunities and promotes design decisions that ensure the safety of the community and responsible stewardship of natural resources.

EXPERIENCE

Bayside Tree Planting Project – Portland, Maine

Sebago Technics was retained by the City of Portland to identify suitable locations for a surge of tree plantings as part of the Bayside Tree Planting Project funded by the American Rescue Plan Act. In coordination with City staff, Ms. Morris developed a suitability matrix to identify priority planting locations based on existing tree canopy and infrastructure. As a result of her work, the City of Portland secured a Community Development Block Grant to fund a second surge of tree planting in Spring of 2024. Sebago and the City of Portland are proud of this collaborative effort to improve community health and happiness and strengthen Portland's urban ecology.

Casco Open Space Inventory

Ms. Morris worked closely with the Town of Casco Open Space Commission to update their Open Space & Conserved Land Map with new parcel data and topographic information. In the process of developing the map, the need for an Open Space Inventory became apparent. Maria designed a web-based inventory categorizing the different kinds of open space in Casco that included pertinent information about open space locations, and functions as a living database for collaboration between commission members and organizations. Along with the Open Space & Conserved Land Map and Inventory, Maria designed a web-based map of Casco Open Spaces to be embedded on the Town's website for the public.

Natural Resource Management

Ms. Morris works closely with Sebago's Natural Resource Department to produce maps for site evaluation, permitting, and natural resource management reports. The maps incorporate field survey data as well as public data sources. Maria also develops web-based Mobile Maps & Field Mapping applications for Sebago Field Workers to efficiently delineate natural resources and safely navigate sites.



2

University of Glasgow, Scotland M.S., Geoinformation Technology & Cartography (with Merit), 2022

Vassar College, Poughkeepsie, NY B.A. in Environmental Studies (Honors), 2016

COMMUNITY ENGAGEMENT

Maine Outdoor Film Festival – Volunteer – Submission Screener, October 2022 to present.

Mahoosuc Land Trust – Volunteer – GIS consultant & Trail Map Designer, October 2022 to present.



age 63 of 186

MICHELLE "SHELLY" R. STACEY

CAD Manager



Ms. Stacey joined Sebago Technics in 2018 as a Senior CAD Designer. She has more than 20 years of Civil CAD experience on local, regional, and national projects. She is experienced in the development of full civil site plan sets including utility, roadway, grading, profiles, sections and detail plans for local and national firms. She has diversified experience within various stages/design elements of a project.

In her role as CAD Manager, Shelly manages Sebago's CAD design teams to ensure project support and technical mentoring as the company continues to onboard new team members. Shelly is also responsible for the overall workload coordination for the CAD design team. Shelly is committed to deadlines and ensuring the company delivers clear, correct, and timely deliverables.

Ē

EXPERIENCE

TWIN FALLS SUBDEVELOPMENT – WESTBROOK, MAINE

Developed plan set to include, subdivision plan with roads, grading and drainage plans, sewer, storm drain and water plans, pipe networks, and erosion control plans and details.

NESG – MULTIPLE SOLAR DEVELOPMENT SITES, MAINE

Developed plan sets to include, solar arrays with roads, grading and drainage plans, and erosion control plans and details.

PIPER SHORES – SCARBOROUGH, MAINE

Developed plan set to include, roads, parking lots, grading and drainage plans, sewer, storm drain and water plans, pipe networks, and erosion control plans and details.

COASTAL RIPTIDE BASEBALL FACILITY - SANFORD, MAINE

Created Multi-phase grading and drainage plans with road and parking layouts. Pipe networks for drainage and sewer.



?

Vermont Technical College Randolph, Vermont Associate of Engineering in Civil Engineering Technology, 1997

SKILLS

AutoCAD 2018 by AutoDesk

Civil 3D 2018 by AutoDesk

Corpscon

Bing Live Maps

Microsoft Office Suite

Blue Beam and Adobe Acrobat

Google Earth



Section 6 Traffic

SECTION 6: TRAFFIC

The hangars are not located on a public right-of-way; access to the proposed new hangars is attained over existing private roads interior to the airport. No traffic generation rates have been established for individual hangars. Based upon the size of the hangars, it is assumed that each hangar can accommodate 4-5 small personal type aircraft. Allowance has been made for three parking spaces per proposed hangars. It is anticipated, based upon the use and number of aircraft sheltered, that the peak hour generation of traffic would be in the single digits of trips.

Section 7 Solid Waste

SECTION 7: SOLID WASTE

<u>Municipal Solid Waste (MSW)</u> Post-construction MSW removal from the proposed new hangars from normal, daily household trash and/or recyclable material will be facilitated by private contracts. The generation of MSW is expected to be minimal for Phase I (Hangar 1) as the anticipated use is limited to aircraft storage without employees. MSW at the four hangars will vary by tenant but will not affect municipal facilities as the removal will be done by private service.

Off-site Disposal of Construction and Demolition Debris (CDD)²

Construction and demolition debris will be removed by licensed non-hazardous waste haulers¹ utilizing licensed disposal facilities. Construction period disposal may include metal, wood, packaging, cardboard, etc., and will be collected in temporary dumpsters placed on the site. Waste material should be separated into the following types: wood, metal, all other material, and possibly cardboard. We do not anticipate the generation of or disposal of hazardous waste during construction. We note that the first phase of the project (Hangar 1) will be built and occupied by the applicant.

Per available resources, the estimated CDD is 4.34 pounds per square foot, resulting in 111,104 pounds (27,776 lbs./building). Assuming that the average CDD waste is approximately 500 pounds per cubic yard², there will be approximately 222 cy of debris (55.5 cy/building) generated during the building construction. We note that the overall debris estimate has not been reduced to reflect the percentage of clean materials suitable for recycling, nor has the number been adjusted to reflect metal building construction that typically yields less CDD than a stick-built building of the same size.

<u>Land Clearing Debris</u> Not applicable; the project site is located in a maintained clearing that does not require the removal of trees.

Sources:

¹Maine DEP Active Non Haz Transporters 6/1/2024 to 11/30/2026 https://www.maine.gov/dep/ftp/reports/nactive.pdf

²EPA Estimating 2003 Building-Related Construction and Demolition Material Amounts <u>https://www.epa.gov/smm/estimating-2003-building-related-construction-and-demolition-materials-amounts</u>

Volume-to-Weight Conversion Factors US EPA Agency Office of Resource Conservation and Recovery April 2016 https://www.epa.gov/sites/production/files/2016-

04/documents/volume_to_weight_conversion_factors_memorandum_04192016_508fnl.pdf

Northeast Recycling Hauler Terms and Waste Conversion Factors https://nerc.org/documents/hauler_terms_and_waste_conversion_factors.pdf

Section 8 Signage

SECTION 8: SIGNAGE

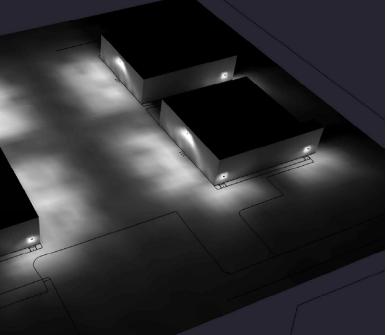
Additional signage is not proposed for Phase I (Hangar 1) project. Signage associated with future phases, if proposed, will be permitted by separate application by the applicant or tenant, as required.

Section 9 Lighting

SECTION 9: LIGHTING

Exterior lighting is limited to shielded dark-sky-complaint LED wall packs at man doors and hangar doors. The illumination is shielded to avoid light spill and is contained to the common apron area. A copy of the professionally prepared photometric plan and light fixture cut sheets for project buildout by Swaney Lighting Associates are enclosed in this section.

od o	Luminaire Schedule
to be the the the the the the the the the th	Symbol Qty Label Mounting Height LLF Lum. Lumens Lum. Watts Description 8 WP-1 8' - 0" AFG 0.900 3216 25 VPW2-18L-25-3K7-4W
ad a	· 4 WP-2 20' - 0" AFG 0,900 18809 160 VPW3-160L-155-3K7-4
من م	Calculation Summary
	Label CalcType Units Avg Max Min Avg/Min Max/Min Overall Area IIluminance Fc 0.68 5.6 0.0 N.A. N.A.
to t	
$ \begin{bmatrix} a & a & a & a & a & a & a & a & a & a$	
to <	
b.o b.o b.i b.z b.z <th></th>	
b.0 b.0 <th></th>	
ta t	
to t	
bo bo bi bi ba be ii is	
to t	
bo bo bo bi bi bi b2 b5 1.1 1.9 2.3 2.2 2.2 2.3 2.2 1.4 b8 b7 1.2 2.0 2.4 2.2 2.2 2.3 2.1 1.4 b.6 b3 b.1 b.1 b.0 b0 b0 b0 b0 b.0 b.0	
ﻣﻦ ﻣ	
b.0 b.0 b.1 b.1 b.2 b.4 b.6 b.7 b.7 b.7 b.7 b.7 b.7 b.7 b.6 b.6 b.7 b.7 b.7 b.7 b.7 b.7 b.7 b.6 b.6 b.6 b.4 b.2 b.1 b.1 b.0 b.0 b.0 b.0 b.0 b.0	
to t	
the the this the	
bo bo bi bi bi bi bo ba ba is	
bo bo bi bi bi ba 2,1 2,9 3,7 3,7 3,3 5,0 3,2 3,6 4,7 2,3 1,1 b,9 1,7 3,8 5,7 3,3 5,0 3,2 3,6 4,7 2,6 2,5 1,3 b,4 b,1 b,1 b,0 b,0 b,0 b,0 b,0	
bo bo bo bi b2 li li <u>15 49 li </u>	
$\begin{bmatrix} u & u & u & u & u \\ b & u & u & u \\ b & b & b & b \\ b & b & b & b \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ WP-2 \\ WP-1 \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ WP-2 \\ WP-1 \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ WP-2 \\ WP-1 \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ WP-2 \\ WP-1 \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ U & u & u \\ U & u & u \\ WP-1 \\ \hline \end{bmatrix} \begin{bmatrix} u & u & u & u \\ U & u \\ U & u & u \\ U & u \\$	
b.a b.a <td></td>	
to t	
 to to t	1. THIS LIGHTING DESIGN IB SARED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO CURRENT, SITE OFTALS PROVIDED HEREON VISA VISUALIZATION VISA VISUALIZATION AND, TELD DEVINTIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION PICEL LICATIONS, CRIENTATION, MUNITING HEIGHT, ELGINETATION THIS PROVIDED HEREON AND CRIED DEVINTIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION PICEL LICATIONS, CRIENTATION, MUNITING HEIGHT, FEISTRED AND CRITICAL SITE OFTANCES OF LARP, BALLAST, AND LUMINARE MAY AFFECT FIELD DEVINTIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL LUMINARE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLEPANCES OF LARP, BALLAST, AND LUMINARE MAY AFFECT FIELD RESULTS.
ඉත්	CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNERS REPRESENTATIVE. ITTLE: ALIRBURN-I EWISTON AIRPORT B1: 07/22/24 DHK DHK DHK D/18/24 N/A
ಂಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎಡೆ ಎ	
to t	SITE PHOTOMETRIC PLAN
	Page 73 of 186



<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header></section-header>	Job Name: AUBURN-LEWIST	ON AIRPORT	Notes:	-25-3K7-4W-UNV-DB	WP-1 SLA24-59198
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><image/></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	design . performance . technology		TYPE:		
<complex-block></complex-block>	 Low profile LED wal luminate with a variety of LES distilutions for lighting spokators such as relat commission and within mammess arganzano lumination within minimal losses at the house-scie, reducing light trespess such as relations minimal losses at the house-scie, reducing light trespess such as relations minimal losses at the house-scie, reducing light trespess at light READ. Vauid Comfort - Option for Size 2 and Size 3 Control options including hoto contel, occupancy core compliance Jattery Backup depins analogies with a langitectore and Canada Wald ABOV versions for industrial applications and Canada Wald Common trespess and light READ. Deterp Control options for losses at the provide science of the distribution of the					ADTICS
<complex-block></complex-block>	 Low profile LED wal luminate with a variety of LES distilutions for lighting spokators such as relat commission and within mammess arganzano lumination within minimal losses at the house-scie, reducing light trespess such as relations minimal losses at the house-scie, reducing light trespess such as relations minimal losses at the house-scie, reducing light trespess at light READ. Vauid Comfort - Option for Size 2 and Size 3 Control options including hoto contel, occupancy core compliance Jattery Backup depins analogies with a langitectore and Canada Wald ABOV versions for industrial applications and Canada Wald Common trespess and light READ. Deterp Control options for losses at the provide science of the distribution of the	FEATURES		M		STRIKE
WW WW WW EVEN LIGHTGRID SPECIFICATIONS ELECTRICAL Support ODE-cast housing with hidden vertical heat fins that are optimal for heat disspation while keeping a clean smooth outer surface - Corrosion resistant, die-cast aluminum housing with powder cast paint finish - Powder paint finish provides curability in outdoor environments. Tested to meet 1000 hour all sprark yrating ELECTRICAL Support on a low glare appearance without sacrificing optical performance - Arbient operating temperature -40°C to diriminar but only one set of leads are extended from the luminaite. Both options - Drivers Nake greater than 90 power factor an low glare appearance without sacrificing optical performance - Drivers Nake greater than 90 power factor an low glare appearance without sacrificing optical performance - Drivers Nake greater than 90 power factor an low glare appearance without sacrificing optical performance - Drivers Nake greater than 90 power factor an low glare appearance without sacrificing optical performance - Drivers Nake greater than 90 power factor an low glare appearance without sacrificing optical performance - Drivers Nake Greater than 90 power factor an low solution (Into Wall or to recessed junction boxes (4° square junction box) - Dimming drivers are standard. Select CD (Customer Dimming) for the dimming wites as extended from the luminaite. Both options on to the includeed in one same fault. - Dimming drivers are standard. Select CD (Customer Dimming) for the dimming wites are standard. Select CD (Customer Dimming) for the dimming wites are standard. Select CD (Customer Dimming) for the dimming wites arestanded f	Vivia V	 applications such as retail, commercial and indu Featuring Strike and Micro Strike Optics which m illumination with minimal losses at the house-sic issues Visual Comfort - Option for Size 2 and Size 3 Control options including photo control, occupan Intelligence™, and LightGRID+. Battery Backup options available for emergency of Quick-mount adapter allows easy installation/ma 347V and 480V versions for industrial application 	strial building mount naximizes target zone le, reducing light trespa cy sensing, NX Distribut code compliance intenance	ass		VPW2
 nour sait spray rating OPTICS Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options LED optics provide IES type II, III and IV distributions. Quick-mount adapter provides easy installation to wall or to recessed junction boxs (4" square junction box) Designed for direct j-box mount. Designed for direct j-box mount. Dust Driver option provides casy installation to wall or to recessed junction box. MX Dustributed Intelligence^m available for 120-277V operation. NX Distributed Intelligence^m available with in fixture wireless control module, features? WARRANTY S year limited warranty. 	 nour sait spray rating OPTICS Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance Divers have greater than .90 power factor and less than 20% Total Harmonic Distortion Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire but only one set of leads exiting the luminaire but only one set of leads are extended from the luminaire. Both options LED optics provide IES type II, III and IV distributions. Quick-mount adapter provides easy installation to wall or to recessed junction boxs (4" square junction box) Designed for direct j-box mount. Mathematical for direct j-box mount. NX Distributed Intelligence[™] available for 120-277V operation NX Distributed Intelligence[™] available with in fixture wireless control module, features? WARRANTY S year limited warranty 	EXAMPLE A CONSTRUCTION SPECIFICATIONS CONSTRUCTION • Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface • Corrosion resistant, die-cast aluminum housing with powder coat paint finish • Powder paint finish provides durability in outdoor environments, Tested to meet 1000	 ELECTRICAL 120V-277V univer dimming drivers 347V input is available Ambient operatin 40°C 	ailable in most watta e for 55W and abov ng temperature -40°	VPW VPW VPW iz 0-10V iz 0-10V is lintegral Batt lighting for th egress e. battery Back temperature c to is Please consi when combi	Weight M 4.1 lbs / 1.86 kg 2 7.15 lbs / 3.24 kg 3 17.1 lbs / 7.80 kg CONTINUED ery Backup provides emergency ery Backup provides emergency ery Backup provides emergency ery Backup provides emergency ery Backup of minute path of sup suitable for operating s -20°C to 40°C. ult brand or sales representative ining control and electrical
		 OPTICS Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance 2700K, 3000K, 3500K, 4000K and 5000K CCTs Zero uplight distributions LED optics provide IES type II, III and IV distributions. INSTALLATION Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box) 	 Drivers have greand less than 20 Dual Driver optic luminaire but on the luminaire, why provides two drinindependently a extended from t can not be inclu Dimming drivers (Customer Dimmito be extended Domming drivers available dimming control, or wireless available dimming control Button photocor operation NX Distributed Ir in fixture wireless 	ater than .90 power 0% Total Harmonic I on provides 2 drivers ly one set of leads e here Dual Power Fee vers which can be v s two sets of leads he luminaire. Both oj ded in one same fix are standard. Selec ning) for the dimmin outside the fixture. ccupancy sensor ar e for complete on/o htrol is suitable for 12 htelligence™ available s control module, fea	d CERTIFICATIC virid CCERTIFICATIC virid CERTIFICATIC virid CERTIFICAT	anticipated depending on your available with in fixture wireless ule, features dimming and sensor. DNS JL 1598 and CSA 22.2#250.0-24 ousing battery backup options are tergy Commission (CEC) Title 20 meets federal procurement sents under the Buy treat 52.225-9) and Trade Act (FAR 52.225-9) and Trade Act (FAR 52.225-11). See a(n) Solutions (link to https:// urrentlighting.com/resources/ tions).

Catalog Number:

Type:

Submitted On: Jul 22, 2024

Submitted by Swaney Lighting

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT

Type: **WP-1**

SLA24-59198

Example: VPW1-24L-10-3K7-2-UNV-BLS



ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

Notes:

VPW1/VPW2/VPW3 LED WALLPACK

CATALOG #

Series		# LEDs - Wa	attage		CCT/C	<u>ام</u>	_	Distribu	ution		/oltag	o —		Color				
	\A/all.t														Black	Matta T	whered	
/PW1 Viper	vvali i	24L-10	1,000 Lumens		27K8 3K7	2700K, 80 CRI 3000K, 70 CRI			Auto Front Row ⁷	. –	JNV 20	120-277V 120V		BLT BLS		Matte Te Gloss Si		
		24L-15	2,000 Lumens		1K7	4000K, 70 CRI	:	2	ES TYPE 2		208	208V		DBT		Bronze N		
PW2 Viper		24L-25	3,000 Lumens	Ę	5K7	5000K, 70 CRI			ES TYPE 3	:	240	240V			Textu			
	VVGII Z	48L-15 48L-20	2,000 Lumens 3,000 Lumens	1 1	3K8	3000K, 80 CRI			ES TYPE 4 Forward		277	277V	1 1	DBS GTT			loss Smc e Textured	
		48L-20 48L-30	4,000 Lumens		35K8 1K8	3500K, 80 CRI	Ī		ES TYPE		347 180	347V 480V	1 1	LGS			ss Smoot	
		48L-35	5.000 Lumens		+K0 5K8	4000K, 80 CRI 5000K, 80 CRI	l		4W		+00	4007	1 1	LGT	~	-	te Textur	
		48L-45	6,000 Lumens	1 1	AP	Phosphor								PSS			Smooth	
		80L-20	3,000 Lumens			Converted Amber ¹								WHT WHS		Matte T Gloss S		
		80L-25	4,000 Lumens											VGT		Green 1		
		80L-35	5,000 Lumens												Optior		0.100100	
		80L-45	6,000 Lumens											сс	Custo	m Color		
		80L-55	7,000 Lumens															
		80L-65	8,000 Lumens															
		80L-70	8,500 Lumens															
		18L-25	3,000 Lumens, Strike Optics															
		18L-30	4,000 Lumens, Strike Optics															
		18L-39	4,750 Lumens, Strike Optics															
		18L-50	6,000 Lumens, Strike Optics															
	_	18L-60	6,500 Lumens, Strike Optics															
PW3 Viper	Wall 3	160L-45	7,000 Lumens															
		160L-70	10,000 Lumens															
		160L-95	12,500 Lumens															
		160L-105	15,000 Lumens															
		160L-135	17,500 Lumens															
		160L-155	20,000 Lumens															
		36L-55	7,000 Lumens, Strike Optics															
		36L-80	9,500 Lumens, Strike Optics															
		36L-100	11,500 Lumens, Strike Optics															
		36L-120	13,000 Lumens, Strike Optics									_						
control Optid IXWS12F IXWS16F IXWS24F IXWS40F IXW VIR VIRSC itand Alone ITS-14F ITS-40F ITS-40F ITS-41F	NX Netwo Automatic NX Netwo NX Netwo with Autor NX Netwo Sensor LightGRID LightGRID Bluetooth ^a Bluetooth ^a	rked Wireless : Dimming Pho rked Wireless : Dimming Pho rked Wireless matic Dimming rked Wireless Dimming Phot rked Wireless + In-Fixture Ma Programmat Programmat Programmat	oduel with BTS occupancy® ble, PIR Occupancy/Daylight Ser ble, PIR Occupancy/Daylight Ser ble, PIR Occupancy/Daylight Ser	ng ¹⁴ PIR O ng ⁹ I-HM Immin R Occ 9 tooth sor ^{4,9} sor ^{4,9}	ccupa PIR O g ⁹ upano Progra	ancy Sensor with ccupancy Sensor cy Sensor with amming, without		E EH CS SP 2PF 2DR CD	ns Fusing ^{5,7} Battery ^{6,78} Battery with Comfort Shi 10kA Surge Dual Power Dual Driver ²² Customer D Dimming Tra	ield ^{7,10} Prote Feed 7,8)immi	ector 12.7,8	ch ⁷ 11 12 13	Availab Not av Netwo contro Not av Must s 347V; See p Not av 2PF ca combi Not av Not av with S Not av Not av Not av Vot av Alone Not av VPW3	vailable w prked corp of options vailable w specify w VPW3:1 age 10 for vailable in an't be c an't be c sensors vailable w Sensors vailable in 8 in 80W, 512F and	itth 480V htrols can itth VPW1 oltage (VF 20V, 208V or detail Ba iv VPW1 ombined it iv VPW1 ombined it iv VPW1 on bine of and 36L itth 2PF itth Networ c Can be of a 480V in 1 100W, 120	or with 2PF W1 & VPW3 ; 240V, 2777 ; 240V, 2777 ittery config with E or EH vPW2 d VPW2 d VPW2 Strike 24L a rk Control c rclered with rk Control c rclered with with 35W a jW, 135W a	Size 2 sined with oth or 2DR option to 2DR option 2DR can't be and 48L. Not a ptions or Stat PC available in 4	ns pr OV) • • • •
эс 	Button Pho	otocontrol 120	-277V currentlighting														Page 2 of	10

Submitted On: Jul 22, 2024



ed b	by Swaney Light					Catal	og Nu	mber:				Туре	:			
		Job Nam	1 e: -LEWISTON			VPW-	2-18L	-25-3K	7-4W-1	JNV-DE	3T	WP-				
					Notes:								59198			
6	BEA	CON				DATE		LOG	CATION:							
Q	design . performa	nce . technology	TYPE: PROJECT:													
V	IPER V	Vall				CATA	LOG #:									
_																
co	ONTROLS F		.ITY							CUT			ND."			
	TDOOR LIGH			<u>s</u>	Con	trol Option	Function	ality	LI	GHT	GF		LIGHTING CONTRAS MOBILE APP			
		TING CONTRO		<u>S</u> Grouping	Con Scheduling	trol Option Occupancy/ Motion	Daylight Harvesting	ality 0-10V Dimming	On/Off Control		G F Sensor Height	Contr	UICHTING CONTROLS MOBILE APP			
00	TDOOR LIGH Control Optic Logic & De	TING CONTRO	DLS OPTION	_		Occupancy/	Daylight	- 0-10V		Bluetooth App	Sensor	Contr				
Mireless	TDOOR LIGH	TING CONTRO	DLS OPTION Networkable	_		Occupancy/ Motion	Daylight Harvesting	- 0-10V	On/Off Contro	Bluetooth App	Sensor Height	_ Contr Com	ponents			
NX Wireless	NXW Model NXW Model NXWS16F First NXWS16F Final NXWS40F Final	TING CONTRO n Ordering scription tworked Wireless Radio NKRM2 and Bluetooth mming, without Sensor tworked Wireless tworked Wireless thoragen NKSMP2-LMO cupancy Sensor with aito Dimming Protocol and	DLS OPTION Networkable	_		Occupancy/ Motion	Daylight Harvesting	- 0-10V	On/Off Contro	Bluetooth App	Sensor Height	_ Contr Com	NXRM2-H			
RID+ NX Wireless	NXW Model NXWS16F PRF Ox Bulleto NXWS16F PRF Ox Bulleto NXWS16F PRF Ox Bulleto NXWS16F PRF Ox Bulleto	TING CONTRO n Ordering scription tworked Wieless Radio e NXRW2 and Buelooth ming, without Sensor tworked Wieless dn hieggi hXSMP2-HMO cupanty Sensor with altic Dmmig Photocel and d hieggi nXSMP2-HMO cupanty Sensor with altic Dmmig Photocel and altic Dmmig Photocel and	DLS OPTION Networkable	_		Occupancy/ Motion	Daylight Harvesting	- 0-10V	On/Off Contro	Bluetooth App	Sensor Height 	Contr Com	NXRM2-H NXSMP2-LMO			
LightGRID+ NX Wireless	TDOOR LIGH Control Optic Logic & De NXW Modul NXWS16F Progr NXWS16F Proc NXWS16F Proc NXWS40F Proc NXWS40F Proc NXWS40F Proc Blact Proc Blact Proc Proc Proc Proc Proc Proc Proc Proc	TING CONTRO n Ordering scription hvorked Wireless Radio e NXFM2 and Bluetooth mming, without Sensor tworked Wireless de Integrat NXSMP2-LMO cupancy Sensor with atic Dirming Photocel and atin Dirming P	DLS OPTION Networkable	_		Occupancy/ Motion	Daylight Harvesting	- 0-10V	On/Off Contro	Bluetooth App Programming	Sensor Height 	Contr Com	NXRM2-H NXSMP2-LMO NXSMP2-HMO			

 \checkmark

_

_

_

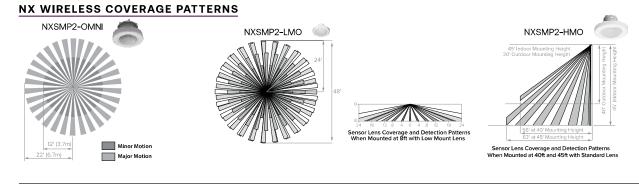
DEFAULT SETTINGS

BTS-40F

Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens

Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level Daylight Sensor	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	Off
"Passcode Factory Passcode: HubbN3T!"	Enabled

	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
Alone	Occupancy Sensor Timeout	8 Minutes
Stand J	Occupied Dim Level	100%
ũ	Unoccupied Dim Level	0% (Off)
	Daylight Sensor	Disabled



Current 🗐

currentlighting.com/beacon

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions. Page 3 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

40ft

BTSMP-HMO

Ŷ

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT

Notes:

CATALOG #:



SLA24-5919



DATE:	LOCATION:
TYPE:	PROJECT:

١D

VIPER Wall VPW1/VPW2/VPW3 LED WALLPACK

NX LIGHTING CONTROLS FREE APP

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings. N

Lumen Multiplier

1.03

1.01

100

1.00

0.99

0.98

0.97

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US



LUMINAIRE AMBIENT PROJECTED LUMEN MAINTENANCE

TEMPERATURE FACTOR (LATF)

32°F

50°F

68°F

77°F

86°F

104°F

122°F

Ambient Temperature 0°C

10°C

20°C

25°C

30°C

40°C

50°C

		OPERATING	G HOURS
Ambient Temp.	0	25,000	TM-21-22 60,000
25°C / 77°F	1.00	0.91	0.83
40°C / 104°F	0.99	0.90	0.82

Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 °C (32-104 °F).

MULTIPLIER

Micr	o Strike Lu	ımen Mult	iplier	Sti	rike Lumer	Multiplier	
CCT	70 CRI	80 CRI	90 CRI	ССТ	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-	2700K	0.9	0.81	0.62
3000K	0.977	0.861	0.647	3000K	0.933	0.853	0.659
3500K	-	0.900	-	3500K	0.959	0.894	0.711
4000K	1	0.926	0.699	4000K	1	0.9	0.732
5000K	1	0.937	0.791	5000K	1	0.9	0.732
Monoo	chromatic	Amber Mı	ultiplier	Monoc	hromatic A	mber Mult	iplier
Amber		0.710		Amber	See A	mber Spec	<u>Sheet</u>

PERFORMANCE DATA: MICROSTRIKE

Description	# of	Nominal	System	Dist.	5K (5	5000K N		L 70 CR	I)	4K (4	1000K N		L 70 CR	I)	ЗК (3000K N		L 70 CF	RI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	888	134	0	0	0	883	134	0	0	0	850	129	0	0	0
		10	6.6	3	829	126	0	0	0	825	125	0	0	0	794	120	0	0	0
				4W	867	131	0	0	1	863	131	0	0	1	830	126	0	0	1
				2	1883	134	1	0	1	1873	134	1	0	1	1802	129	1	0	1
VPW1	24L	15	14	3	1759	126	1	0	1	1750	125	1	0	1	1683	120	0	0	1
				4W	1839	131	0	0	1	1830	131	0	0	1	1761	126	0	0	1
				2	3116	135	1	0	1	3100	135	1	0	1	2982	130	1	0	1
		25	23.0	3	2910	127	1	0	1	2896	126	1	0	1	2785	121	1	0	1
				4W	3044	132	1	0	1	3029	132	1	0	1	2914	127	1	0	1

Current

currentlighting.com/beacon

Page **4** of **10** Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Submitted On: Jul 22, 2024

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to



Submitted by Swaney Lighting

9

			b Nam BURN-		TON A	IRPC	RT	V		og Nur 2-18L-;			NV-I	DBT		/pe: \ \ .A24-59	NF 1198)_	
									DATE				DN:						
	n . perform		ЭУ						TYPE		P	ROJEC ⁻	Г·						
/IPE	R \	Nall								 LOG #:		I COJEO							
PW1/VPW ERFOR	/2/VPV	V3 LED V			TRIKE	соі	ס'דא												
	# of	Nominal	System	Dist.	5K (8	5000K N		L 70 CR	8)	4K (4	1000K N		L 70 CR	I)	3K (3	3000K N		L 70 CF	RI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	
				2	1866	142	1	0	1	1857	142	1	0	1	1786	136	1	0	
		15	13.1	3 4F	1743 1832	133 140	1	0	1	1734 1823	132 139	1	0	1	1668 1754	127 134	0	0	_
				4F 4W	1832	139	0	0	1	1823	139	0	0	1	1764	134	0	0	+
				2	2791	136	1	0	1	2777	135	1	0	1	2671	130	1	0	+
		20	20.5	3	2606	127	1	0	1	2593	127	1	0	1	2495	122	1	0	t
		20	20.0	4F	2740	134	1	0	1	2726	133	1	0	1	2622	128	1	0	
				4W	2726	133	1	0	1	2713	132	1	0	1	2610	127	1	0	+
				2	3766 3517	131 122	1	0	1	3747 3500	130 122	1	0	1	3605 3367	125 117	1	0	+
	48L	30	28.8	3 4F	3697	122	1	0	1	3678	122	1	0	1	3367	11/	1	0	┢
				4W	3679	128	1	0	1	3661	127	1	0	1	3522	122	1	0	t
				2	4707	126	1	0	1	4684	126	1	0	1	4506	121	1	0	
		35	37.3	3	4396	118	1	0	1	4375	117	1	0	1	4208	113	1	0	
				4F	4621	124	1	0	1	4598	123	1	0	1	4423	119	1	0	-
				4W 2	4599 5604	123 121	1	0	2	4576 5576	123 121	1	0	2	4402 5364	118 116	1	0	+
				3	5234	114	1	0	2	5208	121	1	0	2	5010	109	1	0	┢
		45	45.9	4F	5501	119	1	0	2	5474	118	1	0	2	5266	114	1	0	+
				4W	5475	116	1	0	2	5447	115	1	0	2	5240	111	1	0	t
				2	2978	154	1	0	1	2963	153	1	0	1	2851	147	1	0	
		20	19.4	3	3028	156	1	0	1	3013	155	1	0	1	2898	149	1	0	_
				4F 4W	3039 2968	157 153	1	0	1	3024 2953	156 152	1	0	1	2909 2841	150 146	1	0	+
VPW2				2	3723	139	1	0	1	3704	139	1	0	1	3563	133	1	0	┢
			26.7	3	3785	142	1	0	1	3766	141	1	0	1	3623	136	1	0	t
		25		4F	3799	142	1	0	1	3780	142	1	0	1	3636	136	1	0	F
				4W	3710	139	1	0	1	3692	138	1	0	1	3551	133	1	0	F
				2	4775	140	1	0	1	4751	139	1	0	1	4571	134	1	0	╞
		35	34.2	3 4F	4855 4872	142 142	1	0	1	4831 4848	141 142	1	0	1	4647 4664	136 136	1	0	╞
				4F 4W	4872	142	1	0	1	4848	142	1	0	1	4064	136	1	0	┢
				2	6032	145	1	0	2	6002	144	1	0	2	5774	138	1	0	t
	80L	45	41.7	3	6133	147	1	0	2	6102	146	1	0	2	5870	141	1	0	
			-+1./	4F	6155	148	1	0	2	6124	147	1	0	2	5891	141	1	0	Ļ
				4W	6012	144	1	0	2	5982	143	1	0	2	5754 6700	138	1	0	╞
				2	6999 7116	138 141	1	0	2	6964 7081	138 140	1	0	2	6700 6812	132 135	1	0	┝
		55	50.6	4F	7142	141	1	0	2	7106	140	1	0	2	6836	135	1	0	+
				4W	6976	138	1	0	2	6941	137	1	0	2	6677	132	1	0	t
				2	7910	136	2	0	2	7871	135	2	0	2	7572	130	1	0	
		65	58.3	3	8042	138	1	0	2	8002	137	1	0	2	7698	132	1	0	_
				4F	8071	138	2	0	2	8031	138	2	0	2	7726	133	1	0	+
				4W 2	7884 8506	135 134	1	0	2	7844 8463	135 133	1	0	2	7546 8142	129 128	1	0	+
				3	8648	136	1	0	2	8605	136	1	0	2	8278	130	1	0	+
		70	63.5	4F	8679	137	2	0	2	8636	136	2	0	2	8308	131	2	0	t
				4W	8477	133	1	0	2	8435	133	1	0	2	8114	128	1	0	

9

Ŷ

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT

Type: **WP-1**

SLA24-59198



DATE: LOCATION: TYPE: PROJECT:

CATALOG #:

Notes:

VIPER Wall VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: MICROSTRIKE CONT'D

Description	# of	Nominal	System	Dist.	5K (5	5000K N	IOMINA	L 70 CF	a)	4K (4	1000K N	IOMINA	L 70 CR	I)	ЗК (3000K N	IOMINA	L 70 CF	d)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	6702	145	1	0	2	6668	144	1	0	2	6415	139	1	0	2
		45	46.2	З	6814	147	1	0	2	6780	147	1	0	2	6522	141	1	0	2
		40	40.2	4F	6838	148	1	0	2	6804	147	1	0	2	6546	142	1	0	2
				4W	6679	145	1	0	2	6646	144	1	0	2	6393	138	1	0	2
				2	9550	140	2	0	2	9502	139	2	0	2	9141	134	2	0	2
		70	68.3	3	9710	142	2	0	2	9661	141	2	0	2	9294	136	2	0	2
		/0	00.3	4F	9744	143	2	0	2	9696	142	2	0	2	9327	137	2	0	2
				4W	9518	139	2	0	2	9470	139	2	0	2	9111	133	2	0	2
				2	13202	145	2	0	2	13136	144	2	0	2	12637	139	2	0	2
		95	91	3	13423	148	2	0	2	13356	147	2	0	2	12849	141	2	0	2
		90	91	4F	13471	148	2	0	2	13404	147	2	0	2	12895	142	2	0	2
VPW3	160L			4W	13158	145	2	0	2	13092	144	2	0	2	12595	138	2	0	2
VF WO				2	14073	132	2	0	2	14003	132	2	0	2	13471	127	2	0	2
		105	106.3	3	14309	135	2	0	2	14238	134	2	0	2	13697	129	2	0	2
		105	100.5	4F	14360	135	2	0	2	14289	134	2	0	2	13746	129	2	0	2
				4W	14026	132	2	0	3	13956	131	2	0	3	13426	126	2	0	2
				2	17223	128	3	0	3	17137	127	3	0	3	16486	122	3	0	3
		135	134.8	З	17511	130	2	0	3	17424	129	2	0	3	16762	124	2	0	3
		130	134.0	4F	17574	130	3	0	3	17487	130	3	0	3	16822	125	3	0	3
				4W	17165	127	2	0	3	17080	127	2	0	3	16431	122	2	0	3
				2	19716	125	3	0	3	19618	124	3	0	3	18872	119	3	0	3
		155	158.3	3	20046	127	3	0	3	19946	126	3	0	3	19188	121	3	0	3
		100	100.5	4F	20118	127	3	0	3	20018	126	3	0	3	19257	122	3	0	3
				4W	19650	124	3	0	3	19552	124	3	0	3	18809	119	3	0	3

PERFORMANCE DATA: STRIKE

Deparimtic -	# of	Nominal	System	Dist.	5K (5000K NOMINAL 70 CRI)				21)	4K (4000K NOMINAL 70 CRI)				1)	3K (3000K NOMINAL 70 CRI)				
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	3314	147	1	0	1	3298	146	1	0	G1	3171	140	1	0	1
		25	22.6	3	3356	148	1	0	1	3340	148	1	0	G1	3212	142	1	0	1
		25	22.0	4F	3367	149	0	0	1	3351	148	0	0	G1	3222	143	0	0	1
				4W	3361	149	1	0	2	3345	148	1	0	G2	3216	142	1	0	2
				2	4124	132	1	0	1	4104	131	1	0	G1	3946	126	1	0	1
		30	31.3	3	4176	133	1	0	2	4156	133	1	0	G2	3996	128	1	0	1
		50	01.0	4F	4189	134	1	0	1	4169	133	1	0	G1	4009	128	1	0	1
				4W	4182	134	1	0	2	4162	133	1	0	G2	4002	128	1	0	2
				2	4894	126	1	0	1	4870	126	1	0	G1	4683	121	1	0	1
VPW2	18L	39	38.8	3	4956	128	1	0	2	4932	127	1	0	G2	4742	122	1	0	2
VI VV2	IOL	00	00.0	4F	4972	128	1	0	2	4948	128	1	0	G2	4758	123	1	0	2
				4W	4963	128	1	0	2	4939	127	1	0	G2	4749	122	1	0	2
				2	6325	120	1	0	1	6295	120	1	0	G1	6052	115	1	0	1
		50	52.6	3	6405	122	1	0	2	6374	121	1	0	G2	6129	117	1	0	2
			02.0	4F	6426	122	1	0	2	6395	122	1	0	G2	6149	117	1	0	2
				4W	6414	122	1	0	3	6384	121	1	0	G3	6138	117	1	0	3
				2	6865	114	1	0	2	6832	113	1	0	G2	6569	109	1	0	2
		60	60.4	3	6952	115	1	0	2	6919	115	1	0	G2	6652	110	1	0	2
			00.4	4F	6974	115	1	0	2	6941	115	1	0	G2	6674	110	1	0	2
				4W	6962	115	1	0	3	6929	115	1	0	G3	6662	110	1	0	3

Current ⁽ⁱ⁾

currentlighting.com/beacon © 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Submitted by Swaney Lighting
Job Name:



Job Name: VPW-2-1 AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT

Notes:

Type: WP-1

SLA24-59198

BE design . per	
VIPER	Wall

VPW1/VPW2/VPW3 LED WALLPACK

 DATE:
 LOCATION:

 TYPE:
 PROJECT:

CATALOG #:

PERFORMANCE DATA: STRIKE CONT'D

Description	# of	Nominal	System	Dist.	5K (5	000K N		L 70 CR	I)	4K (4	1000K N		L 70 CR	l)	ЗК (3000K N		L 70 CF	XI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	7284	135	1	0	2	7249	134	1	0	G2	6970	129	1	0	2
		55	63.1	3	7376	137	1	0	2	7341	136	1	0	G2	7058	131	1	0	2
		55	03.1	4F	7400	137	1	0	2	7364	137	1	0	G2	7081	131	1	0	2
				4W	7387	137	1	0	3	7351	136	1	0	G3	7069	131	1	0	3
				2	9788	126	2	0	2	9741	126	2	0	G2	9366	121	2	0	2
		80	77.6	3	9912	128	1	0	3	9864	127	1	0	G3	9485	122	1	0	3
		80	//.0	4F	9944	128	1	0	2	9896	128	1	0	G2	9516	123	1	0	2
VPW3	36L			4W	9926	128	1	0	3	9879	127	1	0	G3	9499	122	1	0	3
VEW3	JUL			2	12650	128	2	0	2	12589	127	2	0	G2	12105	122	2	0	2
		105	108.2	3	12810	130	2	0	3	12748	129	2	0	G3	12258	124	2	0	3
		100	100.2	4F	12851	130	1	0	3	12790	129	1	0	G3	12298	124	1	0	3
				4W	12829	130	2	0	3	12767	129	2	0	G3	12276	124	2	0	3
				2	13730	114	2	0	2	13664	113	2	0	G2	13138	109	2	0	2
		120	120.9	3	13904	115	2	0	3	13837	114	2	0	G3	13305	110	2	0	3
		120	120.0	4F	13949	115	1	0	3	13882	115	1	0	G3	13348	110	1	0	3
				4W	13924	115	2	0	4	13857	115	2	0	G4	13324	110	2	0	3

ELECTRICAL DATA: STRIKE

# OF LEDS			18L		
NOMINAL WATTAGE	25	30	39	50	60
SYSTEM POWER (W)	22.6	31.3	38.8	52.6	60.4
INPUT VOLTAGE (V)			CURRENT (Amps)		
120	0.21	0.26	0.32	0.44	0.50
208	0.12	0.15	0.19	0.25	0.29
240	0.10	0.13	0.16	0.22	0.25
277	0.09	O.11	0.14	0.19	0.22
347	0.07	0.09	O.11	0.15	0.17
480	0.05	0.07	0.08	O.11	0.13

# OF LEDS		36L							
NOMINAL WATTAGE	55	80	100	120					
SYSTEM POWER (W)	53.9	77.6	98.9	120.9					
INPUT VOLTAGE (V)		CURREN	T (Amps)						
120	0.45	0.65	0.82	1.01					
208	0.26	0.37	0.48	0.58					
240	0.22	0.32	0.41	0.50					
277	0.19	0.28	0.36	0.44					
347	0.16	0.22	0.29	0.35					
480	O.11	0.16	0.21	0.25					

Current @

currentlighting.com/beacon

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions. Page 7 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT

PROJECT:

UNV-DBT



SLA24-59198

BEACON design . performance . technology

DATE: LOCATION:

VIPER Wall

CATALOG #:

TYPE:

Notes:

VPW1/VPW2/VPW3 LED WALLPACK

ELECTRICAL D	ATA: MICROSTRIKE

# OF LEDS		24L							
NOMINAL WATTAGE	10	15	25						
SYSTEM POWER (W)	6.6	14.0	23.0						
INPUT VOLTAGE (V)		CURRENT (Amps)							
120	0.06	0.12	0.19						
208	0.03	0.07	O.11						
240	0.03	0.06	0.10						
277	0.02	0.05	0.08						
347	0.02	0.04	0.07						
480	0.01	0.03	0.05						

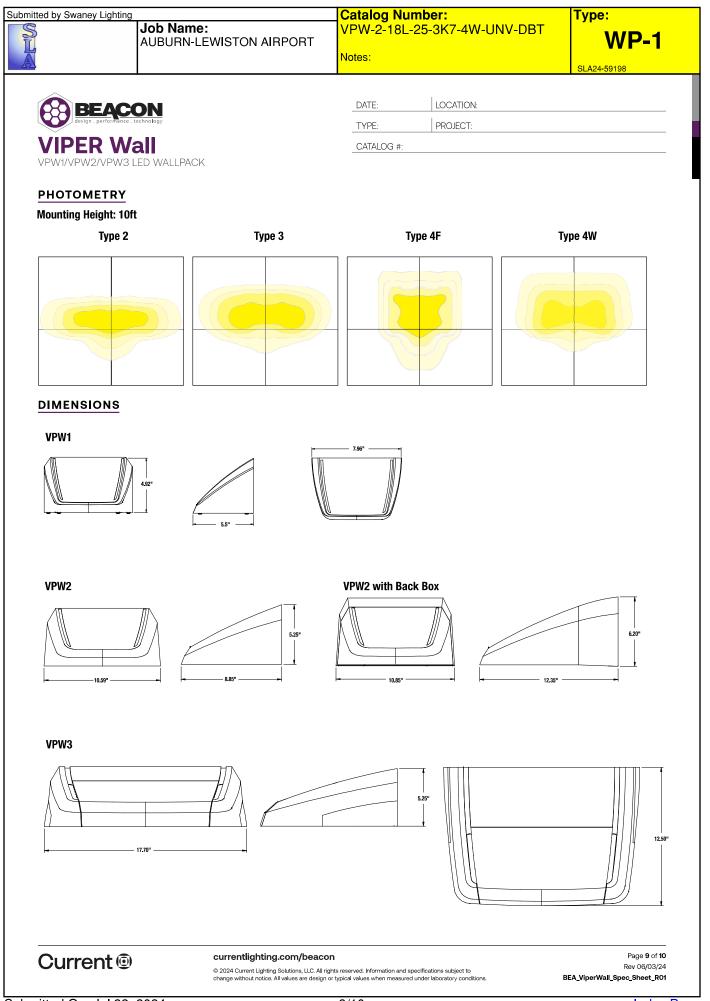
# OF LEDS			48L		
NOMINAL WATTAGE	15	20	30	35	45
SYSTEM POWER (W)	13.1	20.5	28.8	37.3	45.9
INPUT VOLTAGE (V)			CURRENT (Amps)		
120	O.11	0.17	0.24	0.31	0.38
208	0.06	0.10	0.14	0.18	0.22
240	0.05	0.09	0.12	0.16	0.19
277	0.05	0.07	0.10	0.13	0.17
347	0.04	0.06	0.08	O.11	0.13
480	0.03	0.04	0.06	0.08	0.10

# OF LEDS				80L			
NOMINAL WATTAGE	20	25	35	45	55	65	70
SYSTEM POWER (W)	19.4	26.7	34.2	41.7	50.6	58.3	63.5
INPUT VOLTAGE (V)				CURRENT (Amps)			
120	0.16	0.22	0.29	0.35	0.42	0.49	0.53
208	0.10	0.13	0.18	0.22	0.27	0.28	0.31
240	0.08	0.12	0.15	0.19	0.24	0.24	0.26
277	0.07	0.10	0.13	0.17	0.21	0.21	0.23
347	0.06	0.08	0.11	0.13	0.16	0.17	0.18
480	0.04	0.06	0.08	0.10	0.12	0.12	0.13

160L						
155						
158.3						
1.32						
0.76						
0.66						
0.57						
0.46						
0.33						
_						

Current 🗐

currentlighting.com/beacon © 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions. Page 8 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01



Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-2-18L-25-3K7-4W-UNV-DBT



SLA24-5919

Notes:



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VPW1/VPW2/VPW3 LED WALLPACK

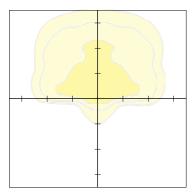
BATTERY OPTIONS & HOUSING SIZES

SIZE	OPTICS	OPTION	BATTERY WATTAGE	FIXTURE WATTAGES	HOUSING
VPW1			١	IO BATTERY OFFERED	
	Micro Strike	E	10W	20W, 25W, 35W	Standard
	Micro Strike	E	10W	45W, 55W, 65W, 70W	Not offered
10140	Micro Strike	EH	13W	20W, 25W, 35W, 45W, 55W, 65W, 70W	Housing with Backbox
VPW2	Strike	E	10W	15W, 20W, 25W, 35W, 39W	Standard
	Strike	E	10W	50W, 60W	Not offered
	Strike	EH	13W	15W, 20W, 25W, 30W, 39W, 50W, 60W	Housing with Backbox
	Micro Strike	E	10W	Not offered	
	Micro Strike	EH	13W	45W, 70W, 95W, 105W	Standard
VDWO	Micro Strike	EH	13W	135W, 155W	Not offered
VPW3	Strike	E	10W	Not offered	
	Strike	EH	13W	55W, 80W, 100W	Standard
	Strike	EH	13W	120W	Not offered

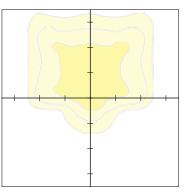
PHOTOMETRY - BATTERY

Mounting Height: 12ft Scale: 10ft

18L BATTERY PHOTOMETRY



80L BATTERY PHOTOMETRY



Current @

currentlighting.com/beacon
© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to
change without notice. All values are design or typical values when measured under laboratory conditions.

Page 10 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

AUBURN-LEWIST	ON AIRPORT	L-155-3K7-4W-UNV-DBT	WP-2
 Wised Control options including photo control, occupand intelligence[™], and LightGRID+. Battery Backup options available for emergency of Quick-mount adapter allows easy installation/mail 347V and 480V versions for industrial applications 	S distributions for lighting strial building mount aximizes target zone e, reducing light trespass sy sensing, NX Distributed ode compliance ntenance		
 CONTROL TECHNOLOGY CONTROL TECHNOLOGY CONTROL TECHNOLOGY CONSTRUCTION Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface Corrosion resistant, die-cast aluminum housing with powder coat paint finish Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating Potter Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance Z700K, 3000K, 3500K, 4000K and 5000K CCTs Zero uplight distributions LED optics provide IES type II, III and IV distributions. DMALLATION Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box) Designed for direct j-box mount. 	 ELECTRICAL 120V-277V universal voltage 50/60H; dimming drivers 347V input is available in most wattage 480V is available for 55W and above Ambient operating temperature -40°C 40°C Driver RoHS and IP66 10kV Surge Protector optional Drivers have greater than .90 power 1 and less than 20% Total Harmonic D Dual Driver option provides 2 drivers 1 luminaire, where Dual Power Feer provides two drivers which can be w independently as two sets of leads a extended from the luminaire. Both op can not be included in one same fixt Dimming drivers are standard. Select (Customer Dimming) for the dimming to be extended outside the fixture. CONTROLS Photo control, occupancy sensor and wireless available for complete on/of dimming control Button photocontrol is suitable for 120 operation NX Distributed Intelligence[™] available in fixture wireless control module, fea dimming and occupancy sensor 	lighting for the requergess lighting for the requerges light	kup provides emergenc ired 90 minute path of able for operating C to 40°C. d or sales representative mbinations may not ied depending on your with in fixture wireless ures dimming and and CSA 22.2#2500-24 backup options are pommission (CEC) Title 20 federal procurement ider the Buy 52.225–9) and Trade IR 52.225–1). See titons (link to https:// ihting.com/resources/

Current @

currentlighting.com/beacon

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions. Page 1 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01 ł

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-3-160L-155-3K7-4W-UNV-DBT



SLA24-5919



ORDERING GUIDE

CATALOG #

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

Notes:

VIPER Wall VPW1/VPW2/VPW3 LED WALLPACK

Example: VPW1-24L-10-3K7-2-UNV-BLS

Series # LEDs - Wattage CCT/CR Distribution Voltage Color VPW1 Viper Wall 1 BLT Black Matte Textured 24L-10 27K8 2700K, 80 CR FR JNV 1,000 Lumens Auto Front Row 70 CRI 120 120V Black Gloss Smooth SK7 BLS 24L-15 2,000 Lumens IES TYPE 2 2 Dark Bronze Matte 4K7 4000K, 70 CR 208 208V DBT 24L-25 3,000 Lumens IES TYPE 3 3 5K7 5000K, 70 CRI 240 240V Textured VPW2 Viper Wall 2 48L-15 2,000 Lumens 3000K, 80 CRI 4F IES TYPE 4 DBS Dark Bronze Gloss Smooth 3K8 277 277V 48L-20 3,000 Lumens Forward GTT Graphite Matte Textured 35K8 3500K, 80 CRI 347 347V 4W IES TYPE Light Grey Gloss Smooth LGS 48L-30 4,000 Lumens 4K8 4000K, 80 CRI 480 480V 4W LGT Light Grey Matte Textured 5K8 5000K, 80 CRI 48L-35 5.000 Lumens PSS Platinum Silver Smooth AP Phosphor 48L-45 6,000 Lumens WHT White Matte Textured Converted Amber 80L-20 3,000 Lumens WHS White Gloss Smooth 80L-25 4.000 Lumens VGT Verde Green Textured **Color Option** 80L-35 5.000 Lumens СС Custom Color 80L-45 6,000 Lumens 80L-55 7,000 Lumens 80L-65 8,000 Lumens 80L-70 8.500 Lumens 18L-25 3,000 Lumens, Strike Optics 18L-30 4,000 Lumens, Strike Optics 18L-39 4,750 Lumens, Strike Optics 18L-50 6,000 Lumens, Strike Optics 18L-60 6,500 Lumens, Strike Optics VPW3 Viper Wall 3 160L-45 7000 Lumens 160L-70 10.000 Lumens 160L-95 12,500 Lumens 160L-105 15,000 Lumens 160L-135 17,500 Lumens 160L-155 20,000 Lumens 36L-55 7,000 Lumens, Strike Optics 36L-80 9,500 Lumens, Strike Optics 36L-100 11,500 Lumens, Strike Optics 361-120 13,000 Lumens, Strike Optics Control Options Network^{3,7,11,13} Options Available with Micro Strike Optics only Not available with 480V in Size 1 and Size 2 NXWS12F NX Networked Wireless Enabled Integral NXSMP2-OMNI PIR Occupancy Sensor with F Fusing^{5,} Networked controls cannot be combined with other Automatic Dimming Photocell and Bluetooth Programming¹ Е Battery^{6,7,8} control options NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with NXWS16F Not available with VPW1 or with 2PF or 2DR options EH Battery with Heater^{6,7,8} Must specify voltage (VPW1 & VPW2: 120V, 277V or 347V; VPW3: 120V, 208V, 240V, 277V, 347V or 480V) Automatic Dimming Photocell and Bluetooth Programming⁶ cs Comfort Shield710 NX Networked Wireless Enabled Integral NXSMP2-OMNI-HM PIR Occupancy Sensor NXWS24F See page 10 for detail Battery configurations 10kA Surge Protector SP with Automatic Dimming Photocell and Bluetooth Programming Not available in VPW1 2PF Dual Power Feed^{2,7,8} NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with NXWS40F 2PF can't be combined with E or EH; 2DR can't be combined with E or EH in VPW2 Automatic Dimming Photocell and Bluetooth Programming 2DR Dual Driver^{2,7,8} Not avialable in VPW1 and VPW2 CD Customer Dimming¹² NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Not available with Micro Strike 24L and 48L. Not available with Strike 18L and 36L 10 DTS Dimming Transfer Switch7 Not available with 2PF WIR LightGRID+ In-Fixture Module⁹ Not available with Network Control options or Stand Alone Sensors. Can be ordered with PC Not available in 480V in VPW2, Only available in 480V in VPW3 in 80W, 100W, 120W, 135W and 155W 12 WIRSC LightGRID+ In-Fixture Moduel with BTS occupancy 13 Stand Alone Sensors7,11,13

Bluetooth® Programmable, PIR Occupancy/Daylight Sensor^{4,9} BTSO-12F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height¹⁴ Photo

BTS-14F

BTS-40F

PC

Button Photocontrol 120-277V

Current

Bluetooth® Programmable, PIR Occupancy/Daylight Sensor4

currentlighting.com/beacon © 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to

Page 2 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

NXWS12F and BTSO-12F are the only sensors available

14

in VPW2



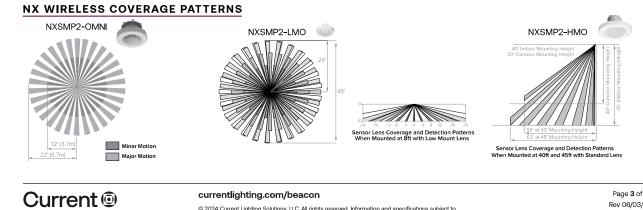
tted by	y Swaney Lighting			Catalog Nu	mber:	Type:				
		Job Name: AUBURN-LEWIS	TON AIRPORT	ON AIRPORT						
				DATE:	LOCATION:	·				
	BEAC	technology		TYPE:	PROJECT:					
VĬ	PER W	all		CATALOG #:						
VPW	/1/VPW2/VPW3	LED WALLPACK								
	Catalog Number WP-BB-XXX	Description Accessory for conduit entry ¹	Notes: 1 replace "xxx" with col 2 Not available with Mic	lor option cro Strike 24L and 48L or Sti	rike 18L and 36L					
	CS	Comfort Shield ²								
		NCTIONALITY					GCONTROLS ILEAPP			
			c	control Option Function ng Occupancy/ Daylight Motion Harvesting		P Sensor Components	ILE APP			

	Contro	ol Option Ordering			COL	uroi Opuo	n Functiona	anty				Contr	Control Option		
		ic & Description	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		ponents		
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	\checkmark	\checkmark	\checkmark	_	-	\checkmark	\checkmark	\checkmark	-	8	NXRM2-H		
NX Wireless	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO FIR Occupancy Sensor with Automatic Dimming Protocel and Bluetooth Programming	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	16ft	Ô	NXSMP2-LMO		
X	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Protocel and Bluetooth Programming	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	40ft	6	NXSMP2-HMO		
LightGRID+	WIR	LightGRID+ In-Fixture Module	\checkmark	-	\checkmark	_	_	\checkmark	\checkmark	Gateway	-		WIR		
	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O: PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	_	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	12ft	6	BTSMP-OMNI-O		
Independent	BTS-14F	Bluetooth ^e Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	_	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	14ft	Ô	BTSMP-LMO		
	BTS-40F	Bluetooth® Programmable, BTSMP-HMO FIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	-	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	40ft	6	BTSMP-HMO		

DEFAULT SETTINGS

	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
VA WIREIESS	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	"Passcode Factory Passcode: HubbN3T!"	Enabled
		1

	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
Alone	Occupancy Sensor Timeout	8 Minutes
Stand J	Occupied Dim Level	100%
ũ	Unoccupied Dim Level	0% (Off)
	Daylight Sensor	Disabled



currentlighting.com/beacon

© 2024 Current Lighting Solutions, LLC All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

Page **3** of **10** Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Ŷ

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-3-160L-155-3K7-4W-UNV-DBT

Notes:

CATALOG #:



SLA24-59198



DATE: LOCATION: TYPE: PROJECT:

VIPER Wall VPW1/VPW2/VPW3 LED WALLPACK

NX LIGHTING CONTROLS FREE APP

Lumen Multiplier

1.03

1.01

100

1.00

0.99

0.98

0.97

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings. N

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904 Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US



Google Play

LUMINAIRE AMBIENT PROJECTED LUMEN MAINTENANCE

TEMPERATURE FACTOR (LATF)

32°F

50°F

68°F

77°F

86°F

104°F

122°F

Ambient Temperature 0°C

10°C

20°C

25°C

30°C

40°C

50°C

		OPERATING	G HOURS
Ambient Temp.	0	25,000	TM-21-22 60,000
25°C / 77°F	1.00	0.91	0.83
40°C / 104°F	0.99	0.90	0.82

Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 °C (32-104 °F).

MULTIPLIER

Micr	o Strike Lu	ımen Mult	iplier	Sti	rike Lumer	Multiplier	
CCT	70 CRI	80 CRI	90 CRI	ССТ	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-	2700K	0.9	0.81	0.62
3000K	0.977	0.861	0.647	3000K	0.933	0.853	0.659
3500K	-	0.900	-	3500K	0.959	0.894	0.711
4000K	1	0.926	0.699	4000K	1	0.9	0.732
5000K	1	0.937	0.791	5000K	1	0.9	0.732
Monoo	chromatic	Amber Mı	ultiplier	Monoc	hromatic A	mber Mult	iplier
Amber		0.710		Amber	See A	mber Spec	<u>Sheet</u>

PERFORMANCE DATA: MICROSTRIKE

Description	# of	Nominal	System	Dist.	5K (5	5000K N		L 70 CR	I)	4K (4	1000K N		L 70 CR	I)	ЗК (3000K N		L 70 CF	RI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	888	134	0	0	0	883	134	0	0	0	850	129	0	0	0
		10	6.6	3	829	126	0	0	0	825	125	0	0	0	794	120	0	0	0
				4W	867	131	0	0	1	863	131	0	0	1	830	126	0	0	1
			2	1883	134	1	0	1	1873	134	1	0	1	1802	129	1	0	1	
VPW1	/PW1 24L	15	15 14	3	1759	126	1	0	1	1750	125	1	0	1	1683	120	0	0	1
				4W	1839	131	0	0	1	1830	131	0	0	1	1761	126	0	0	1
			2	3116	135	1	0	1	3100	135	1	0	1	2982	130	1	0	1	
		25	23.0	3	2910	127	1	0	1	2896	126	1	0	1	2785	121	1	0	1
				4W	3044	132	1	0	1	3029	132	1	0	1	2914	127	1	0	1

Current

currentlighting.com/beacon

Page **4** of **10** Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Submitted On: Jul 22, 2024

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to



Submitted by Swaney Lighting

BEACON

SILA

Job Name: AUBURN-LEWISTON AIRPORT Catalog Number: VPW-3-160L-155-3K7-4W-UNV-DBT

Notes:

SLA24-59198

WP-2

Type:

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

VIPER Wall VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: MICROSTRIKE CONT'D

# of LEDs	Nomina l Wattage	System Watts	Туре	t. 5K (5000K NOMINAL 70 CRI)				4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)					
				Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	(
			2	1866	142	1	0	1	1857	142	1	0	1	1786	136	1	0	1
	15	101	3	1743	133	1	0	1	1734	132	1	0	1	1668	127	0	0	
	15	13.1	4F	1832	140	0	0	1	1823	139	0	0	1	1754	134	0	0	
			4W	1823	139	0	0	1	1814	138	0	0	1	1745	133	0	0	
			2	2791	136	1	0	1	2777	135	1	0	1	2671	130	1	0	
	20	20.5	3	2606	127	1	0	1	2593	127	1	0	1	2495	122	1	0	
	20	20.5	4F	2740	134	1	0	1	2726	133	1	0	1	2622	128	1	0	
			4W	2726	133	1	0	1	2713	132	1	0	1	2610	127	1	0	
			2	3766	131	1	0	1	3747	130	1	0	1	3605	125	1	0	
181	30	28.8	3	3517	122	1	0	1	3500	122	1	0	1	3367	117	1	0	
401	30	20.0	4F	3697	128	1	0	1	3678	128	1	0	1	3539	123	1	0	
			4W	3679	128	1	0	1	3661	127	1	0	1	3522	122	1	0	
			2	4707	126	1	0	1	4684	126	1	0	1	4506	121	1	0	
	35	373	3	4396	118	1	0	1	4375	117	1	0	1	4208	113	1	0	
	30	57.5	4F	4621	124	1	0	1	4598	123	1	0	1	4423	119	1	0	
			4W	4599	123	1	0	2	4576	123	1	0	2	4402	118	1	0	
			2	5604	121	1	0	1	5576	121	1	0	1	5364	116	1	0	
	45	159	3	5234	114	1	0	2	5208	113	1	0	2	5010	109	1	0	
	40	40.0	4F	5501	119	1	0	2	5474	118	1	0	2	5266	114	1	0	
			4W	5475	116	1	0	2	5447	115	1	0	2	5240	111	1	0	
			2	2978	154	1	0	1	2963	153	1	0	1	2851	147	1	0	
	20	19.4	3	3028	156	1	0	1	3013	155	1	0	1	2898	149	1	0	
	20	10.4	4F	3039	157	1	0	1	3024	156	1	0	1	2909	150	1	0	
			4W	2968	153	1	0	1	2953	152	1	0	1	2841	146	1	0	
			2	3723	139	1	0	1	3704	139	1	0	1	3563	133	1	0	
	25 26.7	267	3	3785	142	1	0	1	3766	141	1	0	1	3623	136	1	0	
		20.7	4F	3799	142	1	0	1	3780	142	1	0	1	3636	136	1	0	
			4W	3710	139	1	0	1	3692	138	1	0	1	3551	133	1	0	
			2	4775	140	1	0	1	4751	139	1	0	1	4571	134	1	0	
	35	34.2	3	4855	142	1	0	1	4831	141	1	0	1	4647	136	1	0	
		54.2	4F	4872	142	1	0	1	4848	142	1	0	1	4664	136	1	0	
			4W	4759	139	1	0	1	4735	138	1	0	1	4555	133	1	0	
			2	6032	145	1	0	2	6002	144	1	0	2	5774	138	1	0	
801	45	417	3	6133	147	1	0	2	6102	146	1	0	2	5870	141	1	0	
			4F	6155	148	1	0	2	6124	147	1	0	2	5891	141	1	0	
			4W	6012	144	1	0	2	5982	143	1	0	2	5754	138	1	0	L
			2	6999	138	1	0	2	6964	138	1	0	2	6700	132	1	0	L
	55	50.6	3	7116	141	1	0	2	7081	140	1	0	2	6812	135	1	0	
			4F	7142	141	1	0	2	7106	140	1	0	2	6836	135	1	0	
			4W	6976	138	1	0	2	6941	137	1	0	2	6677	132	1	0	
			2	7910	136	2	0	2	7871	135	2	0	2	7572	130	1	0	L
	65	58.3	3	8042	138	1	0	2	8002	137	1	0	2	7698	132	1	0	L
		- 510	4F	8071	138	2	0	2	8031	138	2	0	2	7726	133	1	0	L
			4W	7884	135	1	0	2	7844	135	1	0	2	7546	129	1	0	L
			2	8506	134	2	0	2	8463	133	2	0	2	8142	128	2	0	L
	70	63.5	3	8648	136	1	0	2	8605	136	1	0	2	8278	130	1	0	L
		20.0	4F	8679	137	2	0	2	8636	136	2	0	2	8308	131	2	0	L
			4W	8477	133	1	0	2	8435	133	1	0	2	8114	128	1	0	
	48L 80L	35 45 20 25 35 80L 45 55	48L 30 28.8 35 37.3 45 45.9 45 45.9 20 19.4 25 26.7 35 34.2 35 34.2 45 41.7 55 50.6 65 58.3 70 63.5	48L 20 20.5 4F 4W 4W 30 28.8 3 35 37.3 4F 4W 3 4F 4W 4W 35 37.3 4F 4W 4W 45 45.9 46 4W 4W 2 3 45 45.9 4F 4W 2 45 49.6 40 4F 4W 2 3 4F <tr< td=""><td>48L 20 4F 2740 4W 2726 4W 2726 3 3617 4W 2697 4F 3697 4F 3697 4W 3679 3 3617 4F 3697 4W 3679 3 4396 4F 4621 4W 4599 3 5234 4F 4621 4W 4599 45 469 49 459 40 5475 4F 5601 4W 5475 3 3028 4F 3039 4W 2968 2 2978 3 3028 4F 3039 4W 2968 2 3723 3 3785 4F 3039 4W 2908 3 3785 4F 3703 3 4855 4F 4872 4W 4759 3 6133 4F 6155 4F 6155 4</td><td>204F27401344W27261334W272613333617122436971284W36791284W36791284W3679128335171224F369712833571224W3679128352341144F55011194054751164W54751164W54751164W54751164W2068153330281664F30391574W2068153423723139337851424371013933785142437101393485514244473094213934851424447309421393485142444713933613147444713444471344447134444713444471344413444134441344413444134</td><td>4812020.4F274013414W272613314W272613114W275613114W367712814F369712814F369712814W367912814W367912813343961814W459912314W459912314F462112414F462112414F560412114F56011914F56011914F56011914W547516414W547516414W296815314W296815314W296815314W371013914W371013914W371013914H437214214H437214214H437513814H601214414H601214414H601214414H601214414H601214414H601214414H601214414H6012<td>48.2044.27401341048.42761331048.33571221049.335771221044.36971281044.36971281044.36971281044.4691231044.45991231044.45991231044.45991231044.55011191044.55011191044.54751161044.3039157107237331391044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.37091391044.37091391044.34551421044.34551421044.45991381044.459913810</td></td></tr<> <td>48.202054F27401341014W27261331014W3766131101335771221014W36791281014W36791281014F369712810134396181014F46211241014W45991231024F6501191024F5501191024F5501191014W5475161014W29681531014W29681531014W29681531014W29681531014W29681531014W29681531014W29681531014W37101391014W37101391014H49721391014H49721391024H49721391024H497213910<td>2020.54F274013410127264W27261331012713335712210135004F366712810136014F366712810136613439618810148664W367912810146763439618810146864W367912310145763439618810145764F462112410145764F465912310145764F45991231015764F467124101205764F467124101205764518101205764518101205764518101303745222978154101463039157101303747302815610130374733378514210136664737991401476147333785<td>20204F274013410127281334W272613310127131324W36713110137471303351712210137471303357712810136701284W36971281013671127333439611810146844W45971281014684126344961181014576123444621241014576123424707128101457612344449123101557612344449123101557612344110254741184410130311510144330157101303215743302815710130341574333785142101376443302815710137644437013910<</td><td>20204f274013410127261331480A27261331012713132130AA36712210136001221480A367712810136601271480A36771281014684126148036791281014684126148036791281014684126133439618101468412613537334396181014588123145462112410145881231145459912310255441814556041191012655131454599123101265163145303215411012651631466501199101303315514748430391571013033155147330281561013064163147473039<td< td=""><td>9 1 1 1 0 1 2726 13 1 0 48. 1 0 1 2 3 3 1 0 1 373 13 1 0 48. 1 0 1 3 3 1 0 1 374 130 1 0 48. 1 3 1 0 1 3 12 1 0 1 368 12 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 3 1 0 1 3 1 1 0 1 3 3 1 1 1<</td> 1<</td<></td> <td< td=""><td>1224410121010144272613310131013101433512210133101331013101<td>10 20 4t 274 134 1 0 1 272 133 1 0 <t< td=""><td>48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <</td><td>44 </td><td>442311212101201201001001000<th0< td=""></th0<></td></t<></td></td></td<></td></td>	48L 20 4F 2740 4W 2726 4W 2726 3 3617 4W 2697 4F 3697 4F 3697 4W 3679 3 3617 4F 3697 4W 3679 3 4396 4F 4621 4W 4599 3 5234 4F 4621 4W 4599 45 469 49 459 40 5475 4F 5601 4W 5475 3 3028 4F 3039 4W 2968 2 2978 3 3028 4F 3039 4W 2968 2 3723 3 3785 4F 3039 4W 2908 3 3785 4F 3703 3 4855 4F 4872 4W 4759 3 6133 4F 6155 4F 6155 4	204F27401344W27261334W272613333617122436971284W36791284W36791284W3679128335171224F369712833571224W3679128352341144F55011194054751164W54751164W54751164W54751164W2068153330281664F30391574W2068153423723139337851424371013933785142437101393485514244473094213934851424447309421393485142444713933613147444713444471344447134444713444471344413444134441344413444134	4812020.4F274013414W272613314W272613114W275613114W367712814F369712814F369712814W367912814W367912813343961814W459912314W459912314F462112414F462112414F560412114F56011914F56011914F56011914W547516414W547516414W296815314W296815314W296815314W371013914W371013914W371013914H437214214H437214214H437513814H601214414H601214414H601214414H601214414H601214414H601214414H601214414H6012 <td>48.2044.27401341048.42761331048.33571221049.335771221044.36971281044.36971281044.36971281044.4691231044.45991231044.45991231044.45991231044.55011191044.55011191044.54751161044.3039157107237331391044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.37091391044.37091391044.34551421044.34551421044.45991381044.459913810</td>	48.2044.27401341048.42761331048.33571221049.335771221044.36971281044.36971281044.36971281044.4691231044.45991231044.45991231044.45991231044.55011191044.55011191044.54751161044.3039157107237331391044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.30391571044.37091391044.37091391044.34551421044.34551421044.45991381044.459913810	48.202054F27401341014W27261331014W3766131101335771221014W36791281014W36791281014F369712810134396181014F46211241014W45991231024F6501191024F5501191024F5501191014W5475161014W29681531014W29681531014W29681531014W29681531014W29681531014W29681531014W29681531014W37101391014W37101391014H49721391014H49721391024H49721391024H497213910 <td>2020.54F274013410127264W27261331012713335712210135004F366712810136014F366712810136613439618810148664W367912810146763439618810146864W367912310145763439618810145764F462112410145764F465912310145764F45991231015764F467124101205764F467124101205764518101205764518101205764518101303745222978154101463039157101303747302815610130374733378514210136664737991401476147333785<td>20204F274013410127281334W272613310127131324W36713110137471303351712210137471303357712810136701284W36971281013671127333439611810146844W45971281014684126344961181014576123444621241014576123424707128101457612344449123101557612344449123101557612344110254741184410130311510144330157101303215743302815710130341574333785142101376443302815710137644437013910<</td><td>20204f274013410127261331480A27261331012713132130AA36712210136001221480A367712810136601271480A36771281014684126148036791281014684126148036791281014684126133439618101468412613537334396181014588123145462112410145881231145459912310255441814556041191012655131454599123101265163145303215411012651631466501199101303315514748430391571013033155147330281561013064163147473039<td< td=""><td>9 1 1 1 0 1 2726 13 1 0 48. 1 0 1 2 3 3 1 0 1 373 13 1 0 48. 1 0 1 3 3 1 0 1 374 130 1 0 48. 1 3 1 0 1 3 12 1 0 1 368 12 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 3 1 0 1 3 1 1 0 1 3 3 1 1 1<</td> 1<</td<></td> <td< td=""><td>1224410121010144272613310131013101433512210133101331013101<td>10 20 4t 274 134 1 0 1 272 133 1 0 <t< td=""><td>48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <</td><td>44 </td><td>442311212101201201001001000<th0< td=""></th0<></td></t<></td></td></td<></td>	2020.54F274013410127264W27261331012713335712210135004F366712810136014F366712810136613439618810148664W367912810146763439618810146864W367912310145763439618810145764F462112410145764F465912310145764F45991231015764F467124101205764F467124101205764518101205764518101205764518101303745222978154101463039157101303747302815610130374733378514210136664737991401476147333785 <td>20204F274013410127281334W272613310127131324W36713110137471303351712210137471303357712810136701284W36971281013671127333439611810146844W45971281014684126344961181014576123444621241014576123424707128101457612344449123101557612344449123101557612344110254741184410130311510144330157101303215743302815710130341574333785142101376443302815710137644437013910<</td> <td>20204f274013410127261331480A27261331012713132130AA36712210136001221480A367712810136601271480A36771281014684126148036791281014684126148036791281014684126133439618101468412613537334396181014588123145462112410145881231145459912310255441814556041191012655131454599123101265163145303215411012651631466501199101303315514748430391571013033155147330281561013064163147473039<td< td=""><td>9 1 1 1 0 1 2726 13 1 0 48. 1 0 1 2 3 3 1 0 1 373 13 1 0 48. 1 0 1 3 3 1 0 1 374 130 1 0 48. 1 3 1 0 1 3 12 1 0 1 368 12 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 3 1 0 1 3 1 1 0 1 3 3 1 1 1<</td> 1<</td<></td> <td< td=""><td>1224410121010144272613310131013101433512210133101331013101<td>10 20 4t 274 134 1 0 1 272 133 1 0 <t< td=""><td>48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <</td><td>44 </td><td>442311212101201201001001000<th0< td=""></th0<></td></t<></td></td></td<>	20204F274013410127281334W272613310127131324W36713110137471303351712210137471303357712810136701284W36971281013671127333439611810146844W45971281014684126344961181014576123444621241014576123424707128101457612344449123101557612344449123101557612344110254741184410130311510144330157101303215743302815710130341574333785142101376443302815710137644437013910<	20204f274013410127261331480A27261331012713132130AA36712210136001221480A367712810136601271480A36771281014684126148036791281014684126148036791281014684126133439618101468412613537334396181014588123145462112410145881231145459912310255441814556041191012655131454599123101265163145303215411012651631466501199101303315514748430391571013033155147330281561013064163147473039 <td< td=""><td>9 1 1 1 0 1 2726 13 1 0 48. 1 0 1 2 3 3 1 0 1 373 13 1 0 48. 1 0 1 3 3 1 0 1 374 130 1 0 48. 1 3 1 0 1 3 12 1 0 1 368 12 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 3 1 0 1 3 1 1 0 1 3 3 1 1 1<</td> 1<</td<>	9 1 1 1 0 1 2726 13 1 0 48. 1 0 1 2 3 3 1 0 1 373 13 1 0 48. 1 0 1 3 3 1 0 1 374 130 1 0 48. 1 3 1 0 1 3 12 1 0 1 368 12 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 0 1 4684 1 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 4685 1 0 1 3 1 0 1 3 1 1 0 1 3 3 1 1 1<	1224410121010144272613310131013101433512210133101331013101 <td>10 20 4t 274 134 1 0 1 272 133 1 0 <t< td=""><td>48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <</td><td>44 </td><td>442311212101201201001001000<th0< td=""></th0<></td></t<></td>	10 20 4t 274 134 1 0 1 272 133 1 0 <t< td=""><td>48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <</td><td>44 </td><td>442311212101201201001001000<th0< td=""></th0<></td></t<>	48. 20 20 4F 27.40 134 1 0 1 27.28 133 1 0 1 0.27.31 132 1 0 1 27.31 132 1 0 <	44	442311212101201201001001000 <th0< td=""></th0<>

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number:

VPW-3-160L-155-3K7-4W-UNV-DBT



SLA24-59198



DATE: LOCATION: TYPE: PROJECT:

VIPER Wall

CATALOG #:

Notes:

VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: MICROSTRIKE CONT'D

Description	# of	Nominal	System	Dist.	5K (8	5000K N	IOMINA	L 70 CF	1)	4K (4	1000K N	IOMINA	L 70 CR	I)	ЗК (3000K N		L 70 CF	RI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	6702	145	1	0	2	6668	144	1	0	2	6415	139	1	0	2
		45	46.2	З	6814	147	1	0	2	6780	147	1	0	2	6522	141	1	0	2
		40	40.2	4F	6838	148	1	0	2	6804	147	1	0	2	6546	142	1	0	2
				4W	6679	145	1	0	2	6646	144	1	0	2	6393	138	1	0	2
				2	9550	140	2	0	2	9502	139	2	0	2	9141	134	2	0	2
		70	68.3	3	9710	142	2	0	2	9661	141	2	0	2	9294	136	2	0	2
			00.5	4F	9744	143	2	0	2	9696	142	2	0	2	9327	137	2	0	2
				4W	9518	139	2	0	2	9470	139	2	0	2	9111	133	2	0	2
				2	13202	145	2	0	2	13136	144	2	0	2	12637	139	2	0	2
		95	91	3	13423	148	2	0	2	13356	147	2	0	2	12849	141	2	0	2
		30		4F	13471	148	2	0	2	13404	147	2	0	2	12895	142	2	0	2
VPW3	160L			4W	13158	145	2	0	2	13092	144	2	0	2	12595	138	2	0	2
1 110				2	14073	132	2	0	2	14003	132	2	0	2	13471	127	2	0	2
		105	106.3	3	14309	135	2	0	2	14238	134	2	0	2	13697	129	2	0	2
			100.0	4F	14360	135	2	0	2	14289	134	2	0	2	13746	129	2	0	2
				4W	14026	132	2	0	3	13956	131	2	0	3	13426	126	2	0	2
				2	17223	128	3	0	3	17137	127	3	0	3	16486	122	3	0	3
		135	134.8	3	17511	130	2	0	3	17424	129	2	0	3	16762	124	2	0	3
			10-1.0	4F	17574	130	3	0	3	17487	130	3	0	3	16822	125	3	0	3
				4W	17165	127	2	0	3	17080	127	2	0	3	16431	122	2	0	3
				2	19716	125	3	0	3	19618	124	3	0	3	18872	119	3	0	3
		155	158.3	3	20046	127	3	0	3	19946	126	3	0	3	19188	121	3	0	3
			100.0	4F	20118	127	З	0	3	20018	126	3	0	3	19257	122	3	0	3
				4W	19650	124	3	0	3	19552	124	3	0	3	18809	119	3	0	3

PERFORMANCE DATA: STRIKE

Description	# of	Nominal	System	Dist.	5K (5	5000K N	IOMINA	L 70 CR	I)	4K (4	1000K N	IOMINA	L 70 CR	I)	3K (3	3000K N		L 70 CF	RI)
Description	LEDs	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
				2	3314	147	1	0	1	3298	146	1	0	G1	3171	140	1	0	1
	25	22.6	3	3356	148	1	0	1	3340	148	1	0	G1	3212	142	1	0	1	
		25	22.0	4F	3367	149	0	0	1	3351	148	0	0	G1	3222	143	0	0	1
				4W	3361	149	1	0	2	3345	148	1	0	G2	3216	142	1	0	2
				2	4124	132	1	0	1	4104	131	1	0	G1	3946	126	1	0	1
		30	31.3	3	4176	133	1	0	2	4156	133	1	0	G2	3996	128	1	0	1
		30	51.5	4F	4189	134	1	0	1	4169	133	1	0	G1	4009	128	1	0	1
				4W	4182	134	1	0	2	4162	133	1	0	G2	4002	128	1	0	2
VPW2 18L		39	39 38.8	2	4894	126	1	0	1	4870	126	1	0	G1	4683	121	1	0	
	18L			3	4956	128	1	0	2	4932	127	1	0	G2	4742	122	1	0	2
VEVVZ	IOL	38		4F	4972	128	1	0	2	4948	128	1	0	G2	4758	123	1	0	2
				4W	4963	128	1	0	2	4939	127	1	0	G2	4749	122	1	0	2
				2	6325	120	1	0	1	6295	120	1	0	G1	6052	115	1	0	
		50	52.6	3	6405	122	1	0	2	6374	121	1	0	G2	6129	117	1	0	2
		50	02.0	4F	6426	122	1	0	2	6395	122	1	0	G2	6149	117	1	0	2
				4W	6414	122	1	0	3	6384	121	1	0	G3	6138	117	1	0	3
				2	6865	114	1	0	2	6832	113	1	0	G2	6569	109	1	0	2
		60	60.4	3	6952	115	1	0	2	6919	115	1	0	G2	6652	110	1	0	2
		00	00.4	4F	6974	115	1	0	2	6941	115	1	0	G2	6674	110	1	0	2
				4W	6962	115	1	0	3	6929	115	1	0	G3	6662	110	1	0	3

Current ⁽ⁱ⁾

currentlighting.com/beacon © 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Submitted by Swaney Lighting
Job Name:



AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-3-160L-155-3K7-4W-UNV-DBT

LOCATION:

PROJECT:

Notes:

DATE:

TYPE:

CATALOG #:

Type: WP-2

SLA24-59198

	BEACON design . performance . technology
X / I E	

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: STRIKE CONT'D

Description	# of	Nominal	System	Dist.	5K (5	5000K N		L 70 CR	I)	4K (4	1000K N		L 70 CR	l)	ЗК (3000K N		L 70 CF	रा)																			
LEDs Wattag	Wattage	Watts	Туре	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G																				
				2	7284	135	1	0	2	7249	134	1	0	G2	6970	129	1	0	2																			
		55	63.1	3	7376	137	1	0	2	7341	136	1	0	G2	7058	131	1	0	2																			
		55	03.1	4F	7400	137	1	0	2	7364	137	1	0	G2	7081	131	1	0	2																			
				4W	7387	137	1	0	3	7351	136	1	0	G3	7069	131	1	0	3																			
				2	9788	126	2	0	2	9741	126	2	0	G2	9366	121	2	0	2																			
		80	776	3	9912	128	1	0	3	9864	127	1	0	G3	9485	122	1	0	3																			
	80	80	///.0	4F	9944	128	1	0	2	9896	128	1	0	G2	9516	123	1	0	2																			
VPW3	36L			4W	9926	128	1	0	3	9879	127	1	0	G3	9499	122	1	0	3																			
VF W3	301			2	12650	128	2	0	2	12589	127	2	0	G2	12105	122	2	0	2																			
		105	108.2	3	12810	130	2	0	3	12748	129	2	0	G3	12258	124	2	0	3																			
		100	100.2	4F	12851	130	1	0	3	12790	129	1	0	G3	12298	124	1	0	3																			
																							4W	12829	130	2	0	3	12767	129	2	0	G3	12276	124	2	0	3
				2	13730	114	2	0	2	13664	113	2	0	G2	13138	109	2	0	2																			
	100	120	120.9	3	13904	115	2	0	3	13837	114	2	0	G3	13305	110	2	0	3																			
		120	120.9	4F	13949	115	1	0	3	13882	115	1	0	G3	13348	110	1	0	3																			
				4W	13924	115	2	0	4	13857	115	2	0	G4	13324	110	2	0	3																			

ELECTRICAL DATA: STRIKE

# OF LEDS			18L		
NOMINAL WATTAGE	25	30	39	50	60
SYSTEM POWER (W)	22.6	31.3	38.8	52.6	60.4
INPUT VOLTAGE (V)			CURRENT (Amps)		
120	0.21	0.26	0.32	0.44	0.50
208	0.12	0.15	0.19	0.25	0.29
240	0.10	0.13	0.16	0.22	0.25
277	0.09	O.11	0.14	0.19	0.22
347	0.07	0.09	O.11	0.15	0.17
480	0.05	0.07	0.08	O.11	0.13

# OF LEDS		36L									
NOMINAL WATTAGE	55	80	100	120							
SYSTEM POWER (W)	53.9	77.6	98.9	120.9							
INPUT VOLTAGE (V)		CURRENT (Amps)									
120	0.45	0.65	0.82	1.01							
208	0.26	0.37	0.48	0.58							
240	0.22	0.32	0.41	0.50							
277	0.19	0.28	0.36	0.44							
347	0.16	0.22	0.29	0.35							
480	O.11	0.16	0.21	0.25							

Current 🗐

currentlighting.com/beacon

© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions. Page 7 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number:

VPW-3-160L-155-3K7-4W-UNV-DBT

PROJECT:



SLA24-59198

BEACON

DATE: LOCATION:

VIPER Wall

CATALOG #:

TYPE:

Notes:

VPW1/VPW2/VPW3 LED WALLPACK

ELECTRICAL DATA: MICROSTRIKE

# OF LEDS		24L						
NOMINAL WATTAGE	10	15	25					
SYSTEM POWER (W)	6.6	14.0	23.0					
INPUT VOLTAGE (V)		CURRENT (Amps)						
120	0.06	0.12	0.19					
208	0.03	0.07	0.11					
240	0.03	0.06	0.10					
277	0.02	0.05	0.08					
347	0.02	0.04	0.07					
480	0.01	0.03	0.05					

# OF LEDS		48L										
NOMINAL WATTAGE	15	20	30	35	45							
SYSTEM POWER (W)	13.1	20.5	28.8	37.3	45.9							
INPUT VOLTAGE (V)			CURRENT (Amps)									
120	O.11	0.17	0.24	0.31	0.38							
208	0.06	0.10	0.14	0.18	0.22							
240	0.05	0.09	0.12	0.16	0.19							
277	0.05	0.07	0.10	0.13	0.17							
347	0.04	0.06	0.08	O.11	0.13							
480	0.03	0.04	0.06	0.08	0.10							

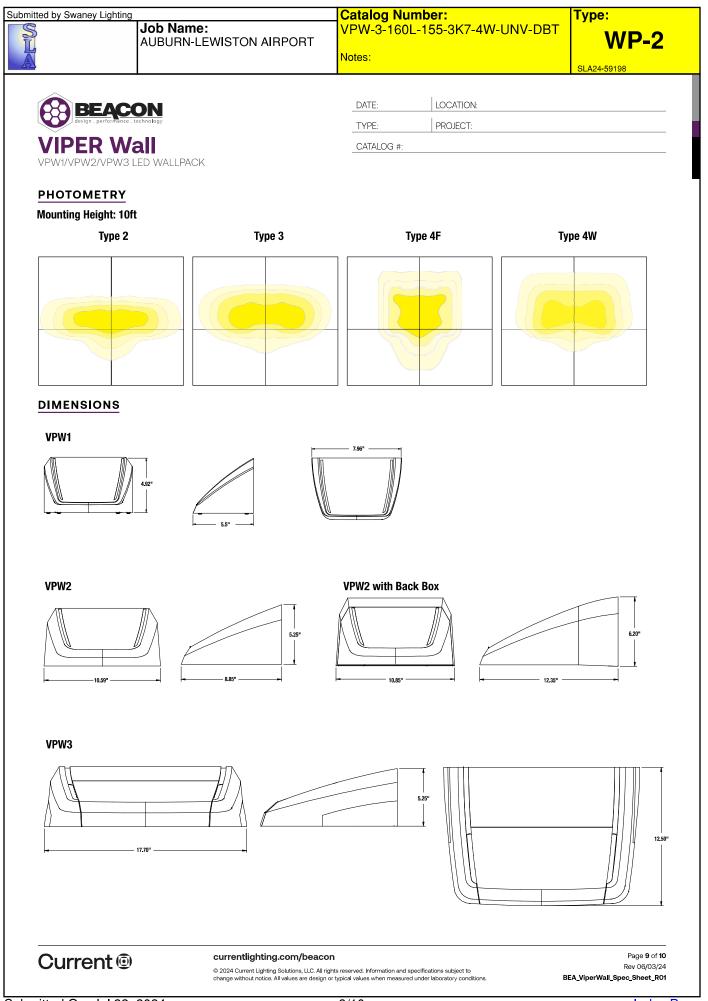
# OF LEDS				80L			
NOMINAL WATTAGE	20	25	35	45	55	65	70
SYSTEM POWER (W)	19.4	26.7	34.2	41.7	50.6	58.3	63.5
INPUT VOLTAGE (V)				CURRENT (Amps)			
120	0.16	0.22	0.29	0.35	0.42	0.49	0.53
208	0.10	0.13	0.18	0.22	0.27	0.28	0.31
240	0.08	0.12	0.15	0.19	0.24	0.24	0.26
277	0.07	0.10	0.13	0.17	0.21	0.21	0.23
347	0.06	0.08	0.11	0.13	0.16	0.17	0.18
480	0.04	0.06	0.08	0.10	0.12	0.12	0.13

160L									
155									
158.3									
1.32									
0.76									
0.66									
0.57									
0.46									
0.33									
_									

Current

currentlighting.com/beacon © 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

Page **8** of **10** Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01



Job Name: AUBURN-LEWISTON AIRPORT

Catalog Number: VPW-3-160L-155-3K7-4W-UNV-DBT

Type: WP-2

SLA24-59198

BEACON Jesign performance technology VIPER Wall

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #	

VPW1/VPW2/VPW3 LED WALLPACK

BATTERY OPTIONS & HOUSING SIZES

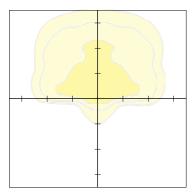
SIZE	OPTICS	OPTION	BATTERY WATTAGE	FIXTURE WATTAGES	HOUSING
VPW1			١	NO BATTERY OFFERED	
	Micro Strike	E	10W	20W, 25W, 35W	Standard
	Micro Strike	E	10W	45W, 55W, 65W, 70W	Not offered
10140	Micro Strike	EH	13W	20W, 25W, 35W, 45W, 55W, 65W, 70W	Housing with Backbox
VPW2	Strike	E	10W	15W, 20W, 25W, 35W, 39W	Standard
	Strike	E	10W	50W, 60W	Not offered
	Strike	EH	13W	15W, 20W, 25W, 30W, 39W, 50W, 60W	Housing with Backbox
	Micro Strike	E	10W	Not offered	
	Micro Strike	EH	13W	45W, 70W, 95W, 105W	Standard
VDWO	Micro Strike	EH	13W	135W, 155W	Not offered
VPW3	Strike	E	10W	Not offered	
	Strike	EH	13W	55W, 80W, 100W	Standard
	Strike	EH	13W	120W	Not offered

Notes:

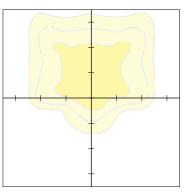
PHOTOMETRY - BATTERY

Mounting Height: 12ft Scale: 10ft

18L BATTERY PHOTOMETRY



80L BATTERY PHOTOMETRY



Current 🗐

currentlighting.com/beacon
© 2024 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to
change without notice. All values are design or typical values when measured under laboratory conditions.

Page 10 of 10 Rev 06/03/24 BEA_ViperWall_Spec_Sheet_R01

Section 10 Utilities

SECTION 10: UTILITIES

<u>Water</u> service and wastewater disposal to the new hangars will occur by extension of available municipal water service. Water service capacity and ability are being coordinated with the Auburn Water and Sewerage Districts. A copy of the letter of inquiry to the District is provided in this section.

<u>Electrical and communications</u> services will be extended to the proposed hangars, as shown on the appended site plans. The installation will be coordinated with respective companies, as necessary, to provide suitable connections in compliance with applicable standards and regulations.

<u>Gas</u>: The applicant intends to utilize propane gas for Phase I (Hangar 1). The overall project is located adjacent to an existing natural gas main in Aviation Avenue. Provision has been made for gas service connections for the remaining three hangars if desired. Reference is made to the appended Grading and Utilities Plan showing the proposed natural and propane gas service locations.





August 06, 2024 230887

Micahel Broadbent, Superintendent Matt Waite, Assistant Superintendent Auburn Water and Sewerage Districts PO Box 414 Auburn, ME 04212-0414

Email submittal: <u>mbroadbent@awsd.org</u> <u>mwaite@awsd.org</u>

Request for Water and Sewer Letters of Ability/Capacity Auburn-Lewiston Municipal Airport Four (4) Proposed Hangars Location: Adjacent to the Existing Structure at Flight Line Drive and Aviation Avenue Intersection

Dear Michael and Matt:

Sebago Technics, Inc. has been retained to prepare plans and permit applications for the phased construction of four (4) new 6,544 S.F. hangars at the Auburn-Lewiston Municipal Airport. The hangars will be constructed adjacent to the existing hangar at the intersection of Flight Line Drive and Aviation Avenue, as shown on the enclosed plans.

The applicant proposes an extension of the existing water service to serve each building. More specifically, the applicant proposes a 1.5" meter for a 1.5" diameter domestic water service to each building. We note that fire suppression lines to each building will need to be sized by the mechanical engineer or mechincal contractor.

Each building will include a sewer service for 1 restroom and a proposed oil water separator for the hangar floor drains. The restrooms will not be open to the public however each restroom is being analyzed as a "Public Restroom" per the State of Maine Subsurface Wastewater Disposal Rules, Chapter 241 because this is the closest facility type. An additional 50 GPD has been added for each hangar for the anticipated water depand for washing the planes. The anticipated sewer flows from the hangars is as follows:

4 toilets x 325 GPD/toilet = 1,300 GPD 4 hangars x 50 GPD = 200 GPD

We are requesting a letter of capacity for the Site Plan application for water services and 1,500 GPD of sanitary sewer service. Upon your review of this letter and attachments, please let us know if you require additional information in this regard. Thank you for your consideration.

Sincerely, SEBAGO TECHNICS, INC.

Junk S. Humll

Jake Hunnewell, El Civil Engineer

enc.



Section 11

Waivers

SECTION 11: WAIVERS

The applicant respectfully requests a full waiver from landscaping requirements and standards. The request is based on the location and use requiring clear sightlines. Mature vegetation is hazardous to operations and aircraft storage.

Division 15-Industrial District

Sec. 60-579-Dimensional Regulations

g. Landscaping

2. The perimeter of a principal building, except for entrances and loading doors, shall be landscaped in an amount equal to 20% of the building footprint. Emphasis shall be given to the front and sides of the building.

4. Side and rear lot lines between non-residential uses shall be planted with an evergreen tree line planted in staggered rows having the base of the trees not more than 10 feet apart. The minimum width of the buffer shall be 30 feet.

5. Landscaping is considered to be vegetative treatment with trees, shrubs and, flowering plants and grass and/or bark mulch. Grass only is not deemed to satisfy this requirement. Evergreen trees shall be used as required in subsections (3)g3 and (3)g4 of this section Trees shall be a minimum of six feet at the time of planting. Where possible, existing trees shall be preserved, building shall be oriented with respect to natural landscape feature, topography and natural drainage areas.

Section 12

Stormwater



CIVIL ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE

STORMWATER MANAGEMENT REPORT

For

AUBURN-LEWISTON MUNICIPAL AIRPORT HANGARS AUBURN, ME

Prepared for:

Bill Fielding 420 US Route One Scarborough, ME 04074

Prepared by:

Sebago Technics, Inc. 75 John Roberts Rd, Suite 4A South Portland, ME 04106

August, 2024

<u>Contents</u>

1.	Introduction	. 1
2.	Existing Conditions	. 1
3.	Soils	. 1
4.	Proposed Site Improvements	. 2
5.	Existing Conditions Model	. 2
6.	Proposed Conditions Model	. 2
7.	Stormwater Management	. 3
В	asic Standard - Chapter 500, Section 4(B)	. 3
G	General Standard - Chapter 500, Section 4(C)	. 3
F	looding Standard - Chapter 500, Section 4(F)	. 3
F	lydroCAD Stormwater Analysis	. 4
8.	Summary	. 5

Appendices

Appendix 1:	Stormwater Quality Calculations
Appendix 2A:	Hydrologic Modeling– Existing Conditions (HydroCAD) Summary
Appendix 2B:	Hydrologic Modeling – Proposed Conditions (HydroCAD) Summary
Appendix 2C:	Hydrologic Modeling – Proposed Conditions (HydroCAD) Freeboard Report
Appendix 3:	Inspection, Maintenance and Housekeeping Plan
Appendix 4:	Subsurface Investigations
Appendix 5:	Stormwater Management Plans

STORMWATER MANAGEMENT REPORT AUBURN-LEWISON MUNICIPAL AIRPORT HANGARS AUBURN, ME

1. Introduction

This Stormwater Management Report has been prepared to present analyses performed to address the potential impacts associated with the project due to proposed modification in stormwater runoff characteristics and land cover changes. The stormwater management controls that are outlined in this report have been designed to suit the proposed development and to comply with applicable regulatory requirements.

2. Existing Conditions

The project site is located in Auburn at the west side of the Auburn-Lewiston Municipal Airport, directly adjacent to Flightline Drive. The parcel containing the airport is approximately 345 acres in size and is bounded by Hotel Road to the east, Kittyhawk Avenue to the south, Flightline Drive to the southwest, and Lewiston Junction Road to the northwest.

Slopes on the site generally range from 1% to 15%, sloping down from the large paved airplane parking area to the southeast to the drainage ditch and culvert under Flightline Drive to the northwest.

The site is tributary to Davis Brook and Little Androscoggin River. These are not listed in Chapter 502 of the Maine Department of Environmental Protection (MDEP) regulations as Urban Impaired Streams. The proposed development area of the site is not located in an identified flood zone per the FEMA Flood Insurance Rate Map for the City of Auburn, community panel number 23001C0316E.

3. <u>Soils</u>

Soil characteristics were obtained from the United States Department of Agriculture and Natural Resources Conservation Service's (NRCS) Web Soil Survey. The Hydrologic Soil Groups (HSG) are classified by Technical Release TR-55 of the Soil Conservation Service as follows:

Soil Map Symbol	Soil Name	Slope (%)	HSG
AaB	Adams Loamy Sand	0-3	А
Md	Made Land, Loamy Materials	8-15	A/D
Wa	Walpole	0-3	A/D

A copy of the Class medium Intensity Soil Survey is included as Appendix 4.

4. Proposed Site Improvements

The proposed development will consist of four (4) airplane hangars each with a footprint of 6,544 S.F. Each building will consist of a paved area with enough space for three vehicles. Additionally, the site will include a paved taxilane that is 110' wide for airplane traffic to and from the hangars. The project will result in the creation of 1.21 acres of non-vegetated area and 1.51 acres of developed area.

5. Existing Conditions Model

The existing conditions watershed plan consists of one subcatchment labeled 1S in the HydroCAD model. One location was identified as a Point of Analyses (POA) for comparing peak runoff rates.

POA-1 is located in the northwesterly corner of the project area at the outlet of an existing 18" cross culvert that crosses beneath Flight Line Drive. Runoff from the project area drains across the existing grassed field and to an existing drainage ditch that connects to a depressed area (pond node 1P) that then drains through the 18" cross culvert. Based upon the upstream ditch, the 30" discharge to the ditch, and the 18" outfall pipe under Flight Line Drive it appears that this depressed area was created as part of the stormwater system for the airport. Subcatchment 1S contributes runoff to this study point with an overall runoff area of approximately 14.68 acres. POA-1 and the associated drainage area are tributary to Davis Brook and Little Androscoggin River.

6. Proposed Conditions Model

The proposed conditions watershed area consists of the same overall area as the existing conditions plan, however, the existing conditions subcatchment has been broken into two smaller watersheds as a result of the proposed development.

POA-1: Proposed conditions subcatchment 1.1S represents most of the area outside of the proposed development consisting of the existing aircraft tiedown area, an existing airplane hangar, existing gravel parking area, existing grassed areas, and a small portion of the proposed taxilane. Subcatchment 1.1S directly drains to the depressed area 1P that has been modified through proposed grading to accommodate the installation of the gravel wetland. Subcatchment 1.2S represents most of the proposed project area including the 4 hangars, taxilane, gravel wetland, and associated grassed areas. Subcatchment 1.2S drains directly to the proposed gravel wetland (pond node 2P) before draining to the adjacent low point 1P. The overall tributary area associated with POA-1 is 14.68 acres.

The Best Management Practice (gravel wetland) has been designed and sized in accordance with DEP BMP standards contained within Chapter 500 and the BMP Manual. Sizing calculations can be found in Appendix 1.

7. Stormwater Management

Basic Standard - Chapter 500, Section 4(B)

Since the project will disturb more than one (1) acre of land area, MDEP Basic Standards apply, requiring that grading or other construction activities on the site do not impede or otherwise alter drainage ways to have an unreasonable adverse impact. We have avoided adverse impacts by providing an Erosion & Sedimentation Control Plan, and an Inspection, Maintenance and Housekeeping Plan (Appendix 3) to be implemented during construction and post-construction stabilization of the site. These construction requirements have been developed following Best Management Practice guidelines.

General Standard - Chapter 500, Section 4(C)

The project will not create more than one (1) acre of impervious surface, however the project site is within the existing Airport SLODA permit and any additional development is required to meet the MDEP General Standards, which require a project's stormwater management system to include treatment measures that will mitigate for the increased frequency and duration of channel erosive flows due to runoff from smaller storms, provide for effective treatment of pollutants in stormwater, and mitigate potential temperature impacts. The General Standards require treatment of no less than 95% of the site's created impervious area and no less than 80% of the site's created developed area (landscaped area and impervious area combined). To mitigate the changes in hydrologic patterns due to the development of this project, a gravel wetland has been implemented into the stormwater management infrastructure.

BMP sizing and treatment calculations are provided as Appendix 1. Note the proposed hangars are to have non-asphalt roofs which only need to be treated for thermal impact and channel protection only (Chapter 500 Section 4.C.5.f). The non-asphalt roof area has been removed from the gravel wetland footprint sizing calculation, however, the gravel wetland has been oversized to help mitigate against peak rates in larger storms.

Through the use of the aforementioned BMP 134.24% of the new impervious area requiring treatment impervious and 105.74% of the new developed area requiring treatment will be receiving treatment. This meets the requirements for the Maine DEP General Standards.

Flooding Standard - Chapter 500, Section 4(F)

The project will not create more than three (3) acres of impervious surface, however the project site is within the existing Airport SLODA permit and any additional development is required to meet the MDEP Flooding Standards. The Flooding Standard requires a project's stormwater management system detain, retain, or result in the infiltration of stormwater from 24-hour storms of the 2, 10, and 25-year frequencies such that the peak flows of stormwater prior to

undertaking the project. As such, a runoff evaluation was performed using the methodology outlined in the USDA Soil Conservation Service's "Urban Hydrology for Small Watersheds - Technical Release #55 (TR-55)". HydroCAD computer software was utilized to perform the calculations.

HydroCAD Stormwater Analysis

Runoff curve numbers were determined for each of the watersheds by measuring the area of each hydrologic soil group within each type of land cover. The type of land cover was determined based on survey data, field reconnaissance and aerial photography. Times of concentration were determined from site topographic maps in accordance with SCS procedures.

The 24-hour rainfall values utilized in the hydrologic model were obtained from Appendix H of MDEP's Chapter 500: Stormwater Management (effective date August 2015). Rainfall values for York County are listed in the table below.

Storm Frequency Pre Androscog	
2-year	3.0
10-year	4.3
25-year	5.4

The following table presents the results of the peak runoff calculations at the point of analysis for the existing and proposed conditions.

	Pea	ak Runoff Rate Summary Tak	ble
Analysis Point	Storm Event	Existing Conditions (cfs)	Proposed Conditions (cfs)
	2-year	7.8	7.4
POA-1	10-year	9.6	9.2
	25-year	10.7	10.6

The HydroCAD Data output sheets from this analysis are appended to this report (Appendix 2) along with the Stormwater Management Plans (Appendix 5). The model predicts that the peak runoff rates in the post-development condition at the Point of Analysis is at or below pre-development runoff rates for the 2, 10, and 25-year storm events with implementation of the proposed stormwater management practices.

8. Summary

The proposed development has been designed to manage stormwater runoff through Best Management Practices approved by MDEP. The proposed stormwater BMP provides treatment to 134.24% (95% required) of the impervious area requiring treatment, and 105.74% (80% required) of the total developed area requiring treatment. Runoff discharging from the site will be at or below pre-development conditions for the 2, 10, and 25-year storm events at the Point of Analysis. Additionally, erosion and sedimentation controls along with associated maintenance and housekeeping procedures have been outlined to prevent unreasonable impacts on the site and to the surrounding environment.

Prepared by:

SEBAGO TECHNICS, INC.

Junk S. Humll

Jake S. Hunnewell, El Civil Engineer

JSH

Val

Robert A. McSorley, P.E. Senior Project Manager

RAM



Robert A. McSorley, P.E. Maine PE No. 8588 August 8, 2024

Appendix 1

Stormwater Quality Calculations

Table 1: MDEP GENERAL STANDARD CALCULATIONS

qof

		EXISTING ONSITE		EXISTING ONSITE	NEW ONSITE	NET NEW	NET EXISTING		IMPERVIOUS		DEVELOPED	
		IMPERVIOUS AREA	NEW ONSITE	LANDSCAPED AREA	LANDSCAPED	DEVELOPED	DEVELOPED	TREATMENT	AREA	LANDSCAPED	AREA	TREATMENT
AREA ID	WATERSHED SIZE		IMPERVIOUS AREA	TO REMAIN	AREA	AREA	AREAS	PROVIDED?	TREATED	AREA TREATED	TREATED	BMP
	(S.F.)	(S.F.)	(S.F.)	(S.F.)	(S.F.)	(S.F.)	(S.F.)		(S.F.)	(S.F.)	(S.F.)	
1.1	543,475	309,315	4,365	229,795	0	4,365	539,110	NO	0	0	0	
1.2	96,060	14,960	52,755	19,365	8,800	61,555	34,325	YES	41,540	28,165	69,705	GW
TOTAL (S.F.)	639,535	324,275	57,120	249,160	8,800	65,920	573,435		41,540	28,165	69,705	

105.74%	% OF AREA RECEIVING TREATMENT	134.24%	% OF IMPERVIOUS AREA RECEIVING TREATMENT
69,705	TOTAL AREA RECEIVING TREATMENT (S.F.)	41,540	TOTAL IMPERVIOUS AREA RECEIVING TREATMENT (S.F.)
65,920	TOTAL NEW DEVELOPED AREA (S.F.)	30,945	TOTAL NEW IMPERVIOUS AREA REQUIRING TREATMENT (S.F.)

*Hangar roofs are proposed to be non-asphalt (26,175 S.F. total area) Area is counted in new impervious area but removed from area requiring treatment.

SEBAGO TECHNICS, INC.

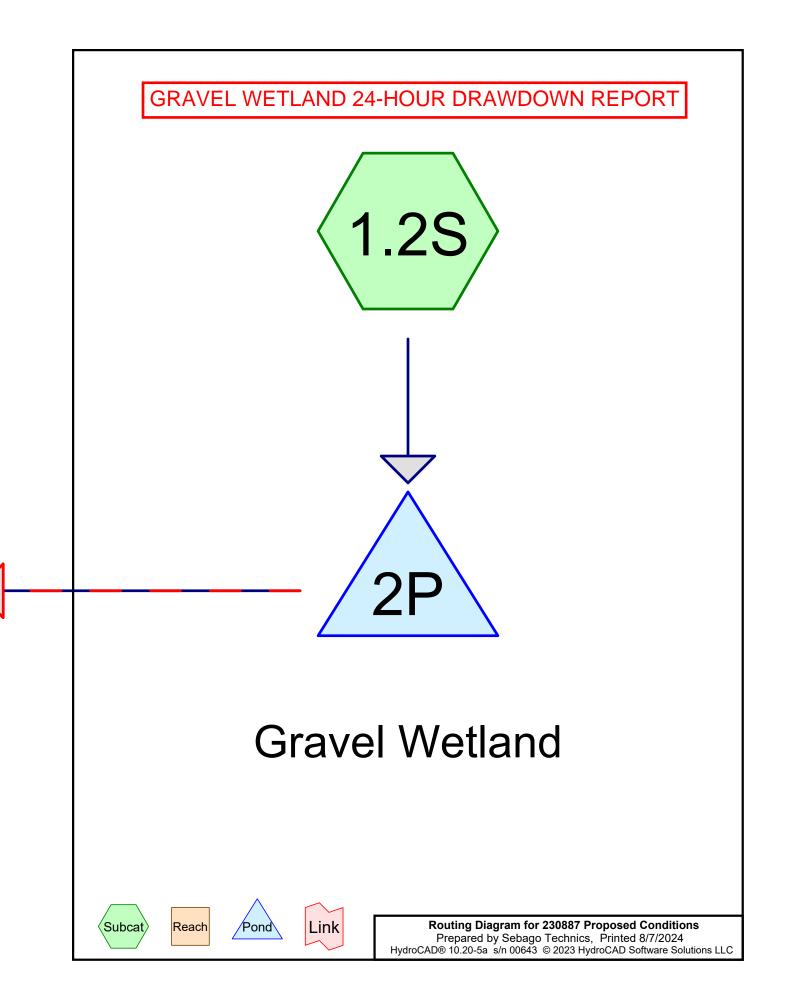
		75 Johr	n Roberts Roa	d Suite 4A			SHEET NO.	1			OF	1	
South Portland, Maine 04106							CALCULATED BY				DATE	3/2/2	017
Tel. (207) 200-2100							FILE NAME				PRNT DATE	8/5/2	024
					GRAVEL WET	LAND							
Task:		Calculate	water qua	ality volume p	per MDEP chap	oter 500 reg	ulations						
Refere	ences	1. Maine	DEP Chap	ter 500, Sect	ion 4.C.(3)(b)								
			"must de	tain a runoff	volume equal	to 1.0 inch t	imes						
					npervious area			e subcatchr	nent's land	scaped are	ea"		
		2. Maine	DEP Best	Managemen	t Practices Sto	rmwater Ma	nual, Secti	on 7.4					
		a.		_	ist be capable				ty volume e	each."			
		b.	-		le or discharge						volume"		
		с.			sent 5% of imp								
<u>Tribu</u> t	ary to G	ravel Wetl	and	GW									
	Landsca	ped Area		28,165.00	SF								
		-											
	Impervi	ous Area		41,540.00	SF								
				,	-								
Minim	num Surf	ace Area											
	Require	d	(2% X Lan	dscaped + 5	%" X Impervio	us)							
			(2707120										
	Total La	ndscaped	Area	28,165.00	SF	Area	563.3	SF					
	Total La	indscaped	71100	20,103.00		7.11.00	505.5	51					
	Total In	pervious	Area	41,540.00	SF	Area	2,077.0	SF					
	rotar m	ipervious	li cu	11,5 10.00		7.11.00	2,077.0	51					
			Requir	ed Minimum	n Surface Area		2,640.3	SF					
			nequi				2,010.0	51					
				Provideo	l Surface Area		3,075.0	SF					
Treatr	nent Vol	ume		TTOVIACE			3,073.0	51					
incati		unic											
	Require	d	(0 /1" X La	ndscaned + '	1.0" X Impervio	(2116							
	nequire	u	(0.4 X La	inuscapeu · .		5037							
	Landsca	ped Area		28,165.00	SF	Volume	938.8						
	Lanusca			20,105.00	51	Volume	550.0						
	Imnervi	ous Area		41,540.00	SF	Volume	3,461.7						
	mpervi			+1,0+0.00	51	Volume	3,401.7						
			Tr	eatment Vol	ume Required		4,400.5	CF	0.101	AF	Elev. 246.	50 to	248 00
							-, - 00.J		0.101	731	LICV. 240.	55 10	270.00
		Mir	imum Tre	atment Cell	Volume (45%)		1,980.2	CF	0.045	AF			
		IVIII					1,500.2		0.070	7.11			
			Provided	Treatment V	olume (Bay 1)		2,240.0	CF	FIev 246 5	0 to 248.00			
			TOVICED		oranie (bay 1)		2,240.0		LICV. 240.0	0 10 240.00			
			Provided	Treatmont V	olume (Bay 2)		3,425.0	CF	Elov 246 5	0 to 248.00			
			riovided	ireatment V	orunne (bdy Z)		3,423.0	UF	LIEV. 240.5	יט וט ∠48.00			
		N.4:-		orobou" Colly	Volume (10%)		440.1	CF					
		IVIII		Jiebay Cell			440.1						
					1								

470.0

CF

JOB

Provided Treatment Volume (Forebay)



Area Listing (selected nodes)

Area	CN	Description
(sq-ft)		(subcatchment-numbers)
15,750	39	>75% Grass cover, Good, HSG A (1.2S)
12,595	80	>75% Grass cover, Good, HSG D (1.2S)
14,960	98	Existing Pavement (1.2S)
26,580	98	New Pavement (1.2S)
26,175	98	Roof Area (1.2S)
96,060	86	TOTAL AREA

Time span=0.00-60.00 hrs, dt=0.01 hrs, 6001 points Runoff by SCS TR-20 method, UH=SCS, Weighted-Q Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Runoff Area=96,060 sf 70.49% Impervious Runoff Depth=0.56"

Tc=6.0 min CN=WQ Runoff=1.4 cfs 4,493 cf

Pond 2P: Gravel Wetland

Subcatchment1.2S:

Peak Elev=246.96' Storage=2,336 cf Inflow=1.4 cfs 4,493 cf Primary=0.1 cfs 4,489 cf Secondary=0.0 cfs 0 cf Outflow=0.1 cfs 4,489 cf

Total Runoff Area = 96,060 sf Runoff Volume = 4,493 cf Average Runoff Depth = 0.56" 29.51% Pervious = 28,345 sf 70.49% Impervious = 67,715 sf

Summary for Subcatchment 1.2S:

Runoff = 1.4 cfs @ 12.09 hrs, Volume= 4,493 cf, Depth= 0.56" Routed to Pond 2P : Gravel Wetland

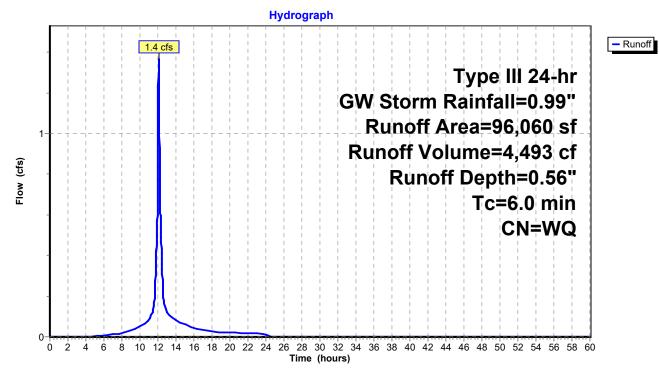
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr GW Storm Rainfall=0.99"

	Area (sf)	CN	Description
	15,750	39	>75% Grass cover, Good, HSG A
	12,595	80	>75% Grass cover, Good, HSG D
*	26,175	98	Roof Area
*	26,580	98	New Pavement
*	14,960	98	Existing Pavement
	96,060		Weighted Average
	28,345		29.51% Pervious Area
	67,715		70.49% Impervious Area
	Tc Length	Slop	
(n	nin) (feet)	(ft/	t) (ft/sec) (cfs)

(min)	(feet)	(ft/ft)	(ft/sec)	
6.0				

Direct Entry,

Subcatchment 1.2S:



Summary for Pond 2P: Gravel Wetland

Inflow Are	a =	96,060 sf,	70.49% lm	pervious,	Inflow Depth = 0).56"	for GW Storm event
Inflow	=	1.4 cfs @	12.09 hrs,	Volume=	4,493 cf		
Outflow	=	0.1 cfs @	13.76 hrs,	Volume=	4,489 cf,	Atte	n= 94%, Lag= 100.4 min
Primary	=	0.1 cfs @	13.76 hrs,	Volume=	4,489 cf	1	
Routed	to Pond 1	IP:					
Secondar	y =	0.0 cfs @	0.00 hrs,	Volume=	0 cf	<u> </u>	NFLOW VOLUME EQUAL TO WATER QUALITY /OLUME (TREATMENT VOLUME REQUIRED)
Routed	to Pond 1	IP:				N	NOTED ON THE GRAVEL WETLAND SIZING TABLE

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 246.96' @ 13.76 hrs Surf.Area= 7,064 sf Storage= 2,336 cf

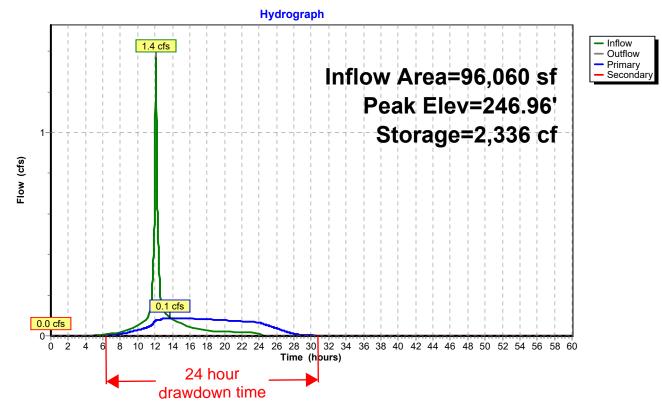
Plug-Flow detention time= 296.5 min calculated for 4,489 cf (100% of inflow) Center-of-Mass det. time= 295.9 min (1,087.2 - 791.3)

Volume	Invert	Avail.Stora	ige Storag	e Description	
#1	246.50'	20,369	cf Custor	m Stage Data (P	rismatic)Listed below (Recalc)
#2	245.83'	617			rismatic)Listed below (Recalc)
			2,056 0	of Overall x 30.09	% Voids
		20,986	cf Total A	vailable Storage	
Flavesti				Ourse Otherse	
Elevatio		rf.Area	Inc.Store	Cum.Store	
(fee	/		cubic-feet)	(cubic-feet)	
246.5		3,405	0	0	
247.0		4,040	1,861	1,861	
248.0		5,470	4,755	6,616	
249.0		6,820	6,145	12,761	
250.0	00	8,395	7,608	20,369	
Elevatio	on Su	rf.Area	Inc.Store	Cum.Store	
(fee	et)	(sq-ft) (e	cubic-feet)	(cubic-feet)	
245.8	33	3,069	0	0	
246.5	50	3,069	2,056	2,056	
Device	Routing	Invert	Outlet Devic	es	
#1	Primary	245.80'	12.0" Roun	d Outfall Pipe	
	, ,				neadwall, Ke= 0.500
					245.50' S= 0.0115 '/' Cc= 0.900
			n= 0.012 Co	prrugated PP, sm	ooth interior, Flow Area= 0.79 sf
#2	Device 1				0.600 Limited to weir flow at low heads
#3	Device 1	246.50'	4.3' long x	0.5' breadth Bro	ad-Crested Rectangular Weir
			Head (feet)	0.20 0.40 0.60	0.80 1.00
			Coef. (Englis	sh) 2.80 2.92 3.	08 3.30 3.32
#4	Device 3	248.00'	4.0" Ŵ x 4.0	" H Vert. Orifice	/Grate C= 0.600
			Limited to w	eir flow at low hea	ads
#5	Secondary				nergency Spillway
					0.80 1.00 1.20 1.40 1.60 1.80 2.00
				.50 4.00 4.50 5	
					70 2.68 2.68 2.67 2.65 2.65 2.65
		:	2.65 2.66 2	.66 2.67 2.69 2	.72 2.76 2.83

Primary OutFlow Max=0.1 cfs @ 13.76 hrs HW=246.96' TW=245.69' (Dynamic Tailwater) **1=Outfall Pipe** (Passes 0.1 cfs of 3.1 cfs potential flow) -2=Orifice/Grate (Orifice Controls 0.1 cfs @ 4.96 fps) 3=Broad-Crested Rectangular Weir (Passes 0.0 cfs of 4.0 cfs potential flow)

4=Orifice/Grate (Controls 0.0 cfs)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=245.83' TW=245.25' (Dynamic Tailwater) 5=Emergency Spillway (Controls 0.0 cfs)

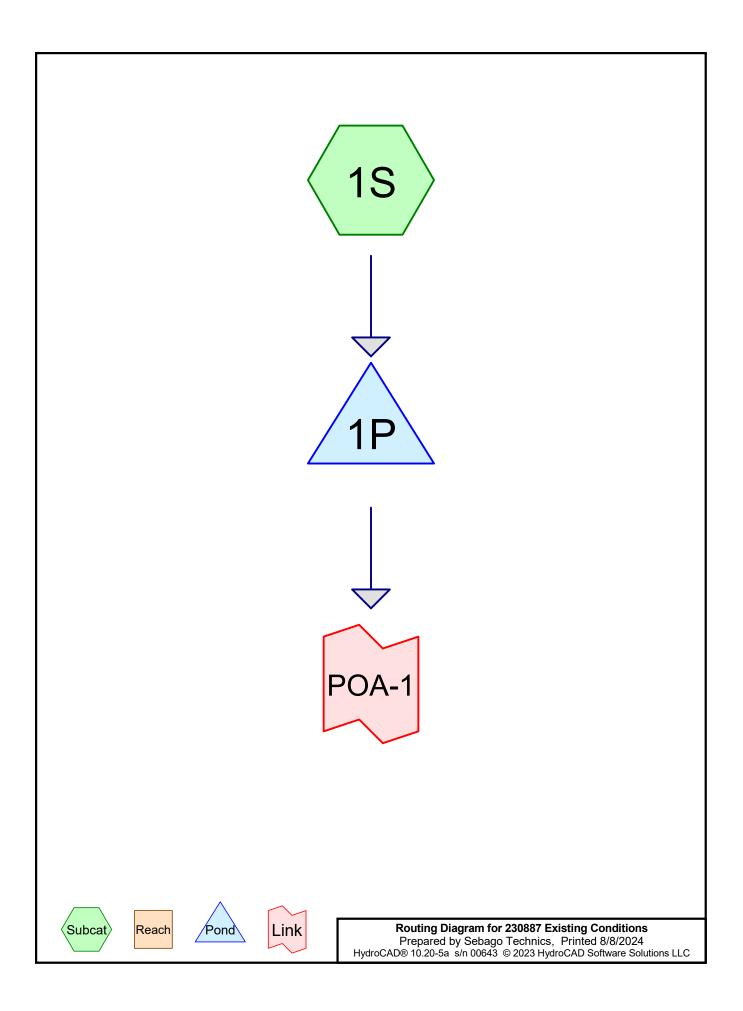


Pond 2P: Gravel Wetland

Page 6

Appendix 2A

Existing Conditions HydroCAD Summary



Area Listing (selected nodes)

Area	CN	Description
(sq-ft)		(subcatchment-numbers)
165,200	39	>75% Grass cover, Good, HSG A (1S)
149,985	80	>75% Grass cover, Good, HSG D (1S)
29,545	96	Gravel (1S)
294,805	98	Impervious Area (1S)
639,535	78	TOTAL AREA

Summary for Subcatchment 1S:

Runoff = 41.4 cfs @ 12.18 hrs, Volume= 183,488 cf, Depth= 3.44" Routed to Pond 1P :

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-YR Rainfall=5.40"

_	A	rea (sf)	CN D	escription							
*	2	94,805	98 Ir	98 Impervious Area							
	1	65,200				bod, HSG A					
		49,985		75% Gras	s cover, Go	ood, HSG D					
*		29,545	96 G	Gravel							
	6	39,535	V	Veighted A	verage						
	3	44,730	5	3.90% Per	vious Area						
	2	94,805	4	6.10% Imp	pervious Ar	ea					
	_										
	Tc	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	7.9	85	0.0680	0.18		Sheet Flow, A to B					
						Grass: Dense n= 0.240 P2= 3.00"					
	4.2	446	0.0140	1.77		Shallow Concentrated Flow, B to C					
						Grassed Waterway Kv= 15.0 fps					
	1.5	140	0.0110	1.57		Shallow Concentrated Flow, C to D					
_						Grassed Waterway Kv= 15.0 fps					
	13.6	671	Total								

Summary for Pond 1P:

Inflow Area =		639,535 sf,	46.10% Impervious,	Inflow Depth = 3.44" for 25-YR event
Inflow	=	41.4 cfs @	12.18 hrs, Volume=	183,488 cf
Outflow	=	10.7 cfs @	12.64 hrs, Volume=	183,438 cf, Atten= 74%, Lag= 27.8 min
Primary	=	10.7 cfs @	12.64 hrs, Volume=	183,438 cf
Routed	I to Link	POA-1 :		

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 248.55' @ 12.64 hrs Surf.Area= 33,800 sf Storage= 55,677 cf

Plug-Flow detention time= 54.6 min calculated for 183,407 cf (100% of inflow) Center-of-Mass det. time= 54.6 min (830.4 - 775.8)

Volume	Invert	Avail.Storage	Storage	Description	
#1	245.25'	72,319 cf	Custor	n Stage Data (Pri	smatic) Listed below (Recalc)
Elevation (feet)	Surf.A (sc	· · · ·	c.Store ic-feet)	Cum.Store (cubic-feet)	
245.25		000	0	0	
246.00	,	321	4,245	4,245	
247.00 248.00	17,2 26,8		12,792 22,069	17,037 39,105	
249.00	39,5		33,214	72,319	

Device	Routing	Invert	Outlet Devices						
#1	Primary		18.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 245.26' / 244.50' S= 0.0088 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf						
Drimon: $O(t)$									

Primary OutFlow Max=10.7 cfs @ 12.64 hrs HW=248.55' TW=0.00' (Dynamic Tailwater) **1=Culvert** (Inlet Controls 10.7 cfs @ 6.05 fps)

Summary for Link POA-1:

Inflow Area	a =	639,535 sf,	46.10% Impervious,	Inflow Depth = 3.44"	for 25-YR event
Inflow	=	10.7 cfs @	12.64 hrs, Volume=	183,438 cf	
Primary	=	10.7 cfs @	12.64 hrs, Volume=	183,438 cf, Atte	n= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

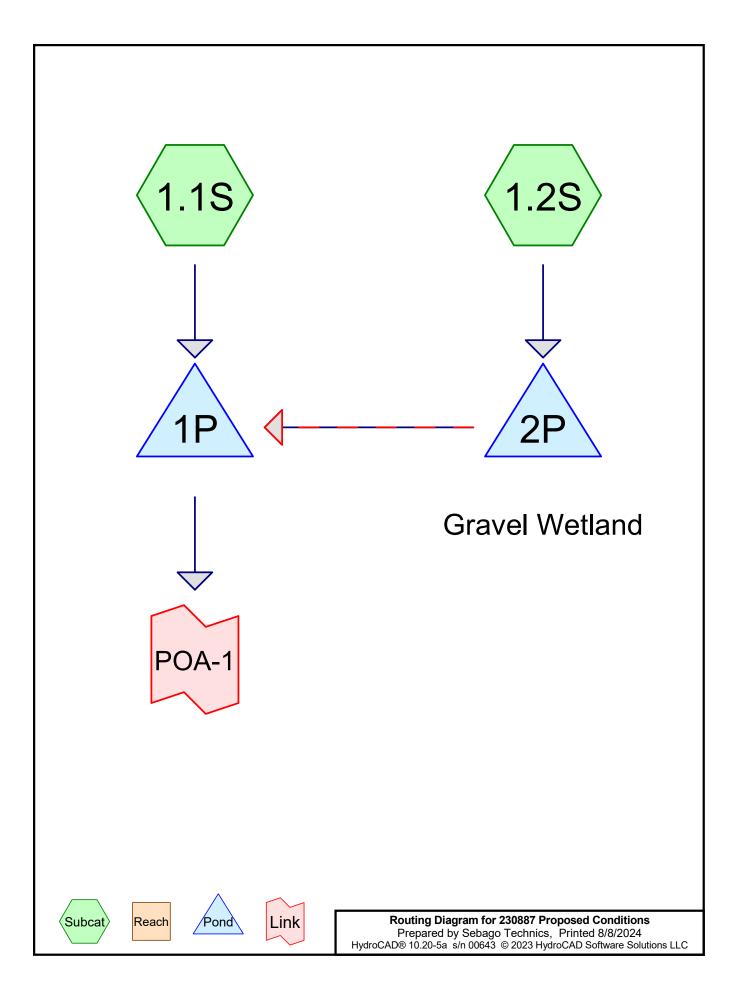
230887 Existing Conditions Prepared by Sebago Technics HydroCAD® 10.20-5a s/n 00643 © 2023 Hydrod	Type III 24-hr 2-YR Rainfall=3.00"Printed 8/8/2024CAD Software Solutions LLCPage 5
Runoff by SCS TR	0.00 hrs, dt=0.01 hrs, 6001 points 20 method, UH=SCS, Weighted-Q nethod - Pond routing by Dyn-Stor-Ind method
	unoff Area=639,535 sf 46.10% Impervious Runoff Depth=1.69" _ength=671' Tc=13.6 min CN=WQ Runoff=20.9 cfs 89,915 cf
	Peak Elev=247.35' Storage=23,662 cf Inflow=20.9 cfs 89,915 cf Culvert n=0.012 L=86.0' S=0.0088 '/' Outflow=7.8 cfs 89,865 cf
Link POA-1:	Inflow=7.8 cfs 89,865 cf Primary=7.8 cfs 89,865 cf
	Runoff Volume = 89,915 cf Average Runoff Depth = 1.69" % Pervious = 344,730 sf 46.10% Impervious = 294,805 sf

230887 Existing Conditions Prepared by Sebago Technics HydroCAD® 10.20-5a s/n 00643 © 2023 Hyd	Type III 24-hr 10-YR Rainfall=4.30"Printed 8/8/2024roCAD Software Solutions LLCPage 6		
Runoff by SCS 1	0-60.00 hrs, dt=0.01 hrs, 6001 points R-20 method, UH=SCS, Weighted-Q d method . Pond routing by Dyn-Stor-Ind method		
Subcatchment 1S: Flov	Runoff Area=639,535 sf 46.10% Impervious Runoff Depth=2.61" v Length=671' Tc=13.6 min CN=WQ Runoff=31.9 cfs 139,072 cf		
Pond 1P: 18.0" Round	Peak Elev=248.03' Storage=39,987 cf Inflow=31.9 cfs 139,072 cf Culvert n=0.012 L=86.0' S=0.0088 '/' Outflow=9.6 cfs 139,021 cf		
Link POA-1:	Inflow=9.6 cfs 139,021 cf Primary=9.6 cfs 139,021 cf		
Total Runoff Area = 639,535 sf Runoff Volume = 139,072 cf Average Runoff Depth = 2.61"			

53.90% Pervious = 344,730 sf 46.10% Impervious = 294,805 sf

Appendix 2B

Proposed Conditions HydroCAD Summary



Area Listing (selected nodes)

Area	CN	Description
(sq-ft)		(subcatchment-numbers)
121,910	39	>75% Grass cover, Good, HSG A (1.1S, 1.2S)
136,230	80	>75% Grass cover, Good, HSG D (1.1S, 1.2S)
14,960	98	Existing Pavement (1.2S)
29,545	96	Gravel (1.1S)
284,135	98	Impervious Area (1.1S)
26,580	98	New Pavement (1.2S)
26,175	98	Roof Area (1.2S)
639,535	83	TOTAL AREA

Summary for Subcatchment 1.1S:

Runoff = 37.6 cfs @ 12.19 hrs, Volume= 170,356 cf, Depth= 3.76" Routed to Pond 1P :

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-YR Rainfall=5.40"

_	A	rea (sf)	CN E	Description		
	1	06,160	39 >	75% Gras	s cover, Go	bod, HSG A
	1	23,635	80 >	75% Gras	s cover, Go	bod, HSG D
*	2	84,135	98 li	mpervious	Area	
*		29,545	96 0	Gravel		
543,475 Weighted Average						
	2	59,340	4	7.72% Per	vious Area	
	2	84,135	5	2.28% Imp	ervious Ar	ea
	_					
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	7.4	82	0.0750	0.18		Sheet Flow, A-B
						Grass: Dense n= 0.240 P2= 3.00"
	0.0	6	0.3330	4.04		Shallow Concentrated Flow, B-C
						Short Grass Pasture Kv= 7.0 fps
	7.2	645	0.0100	1.50		Shallow Concentrated Flow, C-D
						Grassed Waterway Kv= 15.0 fps
	14.6	733	Total			

Summary for Subcatchment 1.2S:

Runoff = 9.3 cfs @ 12.08 hrs, Volume= 32,916 cf, Depth= 4.11" Routed to Pond 2P : Gravel Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-YR Rainfall=5.40"

	Α	rea (sf)	CN	Description			
		15,750	39	>75% Gras	s cover, Go	ood, HSG A	
		12,595	80	>75% Gras	s cover, Go	ood, HSG D	
*		26,175	98	Roof Area			
*		26,580	98	New Paven	nent		
*		14,960	98	Existing Pavement			
		96,060		Weighted Average			
		28,345		29.51% Pe	rvious Area		
		67,715		70.49% lmp	pervious Ar	ea	
(I	Tc min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description	
	6.0					Direct Entry,	

Summary for Pond 1P:

 Inflow Area =
 639,535 sf, 55.02% Impervious, Inflow Depth =
 3.81" for 25-YR event

 Inflow =
 38.2 cfs @
 12.19 hrs, Volume=
 203,261 cf

 Outflow =
 10.6 cfs @
 12.69 hrs, Volume=
 203,176 cf, Atten= 72%, Lag= 29.8 min

 Primary =
 10.6 cfs @
 12.69 hrs, Volume=
 203,176 cf

 Routed to Link POA-1 :
 10.6 cfs
 12.69 hrs, Volume=

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 248.48' @ 12.69 hrs Surf.Area= 30,421 sf Storage= 54,042 cf

Plug-Flow detention time= 54.8 min calculated for 203,176 cf (100% of inflow) Center-of-Mass det. time= 53.9 min (893.2 - 839.3)

Volume	Inv	ert Avail.S	Storage	Storage	Description	
#1	245.	25' 71	,079 cf	Custom	Stage Data (Pri	smatic) Listed below (Recalc)
Elevatio (fee 245.2 246.0 247.0 248.0 249.0	t) 25 00 00 00	Surf.Area (sq-ft) 3,000 7,850 19,780 25,455 35,700	(cubio 1 2	.Store <u>o-feet)</u> 0 4,069 3,815 2,618 60,578	Cum.Store (cubic-feet) 0 4,069 17,884 40,501 71,079	
Device	Routing	Inve	ert Outle	et Device	s	
#1	Primary	245.2	L= 8 Inlet	/ Outlet I	P, projecting, no nvert= 245.26' / 2	headwall, Ke= 0.900 244.50' S= 0.0088 '/' Cc= 0.900 poth interior, Flow Area= 1.77 sf

Primary OutFlow Max=10.6 cfs @ 12.69 hrs HW=248.48' TW=0.00' (Dynamic Tailwater) **1=Culvert** (Inlet Controls 10.6 cfs @ 5.98 fps)

Summary for Pond 2P: Gravel Wetland

Inflow Area = 96,060 sf, 70.49% Impervious, Inflow Depth = 4.11" for 25-YR event 32,916 cf Inflow 9.3 cfs @ 12.08 hrs, Volume= = 2.1 cfs @ 12.47 hrs, Volume= Outflow = 32,905 cf, Atten= 77%, Lag= 23.4 min 0.7 cfs @ 12.34 hrs, Volume= 30,054 cf Primary = Routed to Pond 1P: 1.5 cfs @ 12.48 hrs, Volume= Secondary = 2,851 cf Routed to Pond 1P :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 249.51' @ 12.48 hrs Surf.Area= 10,688 sf Storage= 17,041 cf

Plug-Flow detention time= 423.3 min calculated for 32,900 cf (100% of inflow) Center-of-Mass det. time= 423.3 min (1,180.3 - 756.9)

230887 Proposed Conditions

Prepared by Sebago Technics

HydroCAD® 10.20-5a s/n 00643 © 2023 HydroCAD Software Solutions LLC

Volume	Inv	Invert Avail.Stor		e Storag	e Description		
#1	246.5	50'	20,369 c	of Custom Stage Data (Prismatic) Listed below (Recalc)			
#2	245.8	33'	617 c	f Custor	n Stage Data (Pr	ismatic) Listed below (Recalc)	
					of Overall x 30.00		
			20.986 c	f Total A	vailable Storage		
			,				
Elevatio	on	Surf.Area	I	nc.Store	Cum.Store		
(fee	et)	(sq-ft)	(cu	bic-feet)	(cubic-feet)		
246.5	50	3,405		0	0		
247.0		,		1,861	1,861		
248.0	00	5,470		4,755	6,616		
249.0	,			6,145	12,761		
	250.00 8,395			7,608	20,369		
		,		,	,		
Elevatio	on	Surf.Area	1	nc.Store	Cum.Store		
(fee	et)	(sq-ft)	(cu	bic-feet)	(cubic-feet)		
245.8		3,069		0			
246.5		3,069		2,056	2,056		
		0,000		_,	_,		
Device	Routing	Ir	ivert Oi	utlet Devic	es		
#1	Primary	245	5.80' 12	.0" Roun	d Outfall Pipe		
	-		L=	26.0' CF	PP, square edge l	headwall, Ke= 0.500	
			In	et / Outlet	Invert= 245.80' /	245.50' S= 0.0115 '/' Cc= 0.900	
			-	0 0 1 2 0	arrugated DD am	acth interior Flow Areas 0.70 of	

			Inlet / Outlet Invert= 245.80' / 245.50' S= 0.0115 '/' Cc= 0.900
			n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	245.83'	1.8" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	246.50'	4.3' long x 0.5' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00
			Coef. (English) 2.80 2.92 3.08 3.30 3.32
#4	Device 3	248.00'	4.0" W x 4.0" H Vert. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	249.35'	10.0' long x 6.0' breadth Emergency Spillway
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65
			2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=0.7 cfs @ 12.34 hrs HW=249.45' TW=248.11' (Dynamic Tailwater) -1=Outfall Pipe (Passes 0.7 cfs of 4.4 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.1 cfs @ 5.58 fps)

3=Broad-Crested Rectangular Weir (Passes 0.6 cfs of 59.4 cfs potential flow)

4=Orifice/Grate (Orifice Controls 0.6 cfs @ 5.42 fps)

Secondary OutFlow Max=1.5 cfs @ 12.48 hrs HW=249.51' TW=248.37' (Dynamic Tailwater) 5=Emergency Spillway (Weir Controls 1.5 cfs @ 0.94 fps)

Summary for Link POA-1:

Inflow Area	a =	639,535 sf,	55.02% Impervious,	Inflow Depth > 3.81"	for 25-YR event
Inflow	=	10.6 cfs @	12.69 hrs, Volume=	203,176 cf	
Primary	=	10.6 cfs @	12.69 hrs, Volume=	203,176 cf, Atte	en= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs

230887 Proposed Condi Prepared by Sebago Tech HydroCAD® 10.20-5a s/n 0064		Type III 24-hr 2-YR Rainfall=3.00" Printed 8/8/2024 LC Page 7
Ru	me span=0.00-60.00 hrs, dt=0.01 hrs, 6 noff by SCS TR-20 method, UH=SCS, v by Dyn-Stor-Ind method , Pond routing	Weighted-Q
Subcatchment 1.1S:		52.28% Impervious Runoff Depth=1.87" in CN=WQ Runoff=19.2 cfs 84,709 cf
Subcatchment 1.2S:		70.49% Impervious Runoff Depth=2.12" min CN=WQ Runoff=4.9 cfs 16,933 cf
Pond 1P:		e=22,395 cf Inflow=19.3 cfs 101,633 cf S=0.0088 '/' Outflow=7.4 cfs 101,556 cf
Pond 2P: Gravel Wetland		orage=9,582 cf Inflow=4.9 cfs 16,933 cf =0.0 cfs 0 cf Outflow=0.4 cfs 16,925 cf
Link POA-1:		Inflow=7.4 cfs 101,556 cf Primary=7.4 cfs 101,556 cf

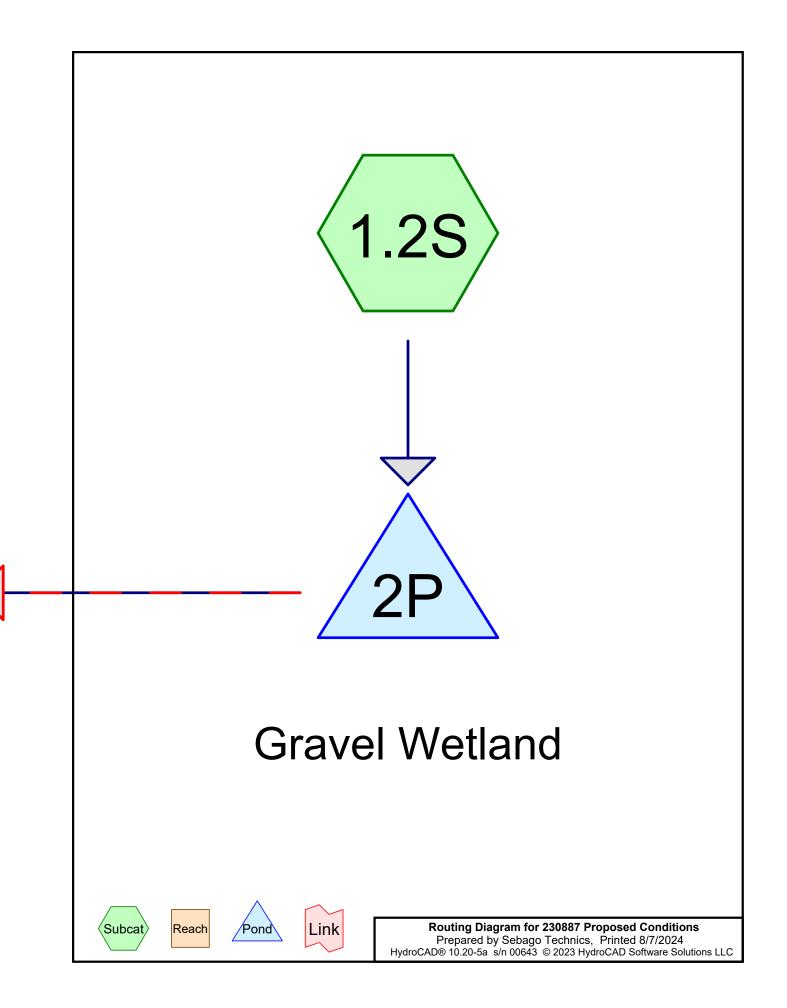
Total Runoff Area = 639,535 sf Runoff Volume = 101,642 cf Average Runoff Depth = 1.91" 44.98% Pervious = 287,685 sf 55.02% Impervious = 351,850 sf

	nics 3 © 2023 HydroCAD Software Solutions	S LLC	<i>10-YR Rainfall=4.30"</i> Printed 8/8/2024 Page 8	
Ru	me span=0.00-60.00 hrs, dt=0.01 hrs, noff by SCS TR-20 method, UH=SCS, by Dyn-Stor-Ind method - Pond routin	, Weighted-Q	d method	
Reach routing L		g by byn-Stor-In		
Subcatchment 1.1S:	Runoff Area=543,475 sf Flow Length=733' Tc=14.6 m	•	ous Runoff Depth=2.87" noff=29.1 cfs 130,023 cf	
Subcatchment 1.2S:			ous Runoff Depth=3.18" Runoff=7.3 cfs 25,448 cf	
Pond 1P:	Peak Elev=247.90' Stora 18.0" Round Culvert n=0.012 L=86.0'	•		
Pond 2P: Gravel Wetland	Peak Elev=249.11' Sto Primary=0.6 cfs 25,439 cf Secondar	-	Inflow=7.3 cfs 25,448 cf utflow=0.6 cfs 25,439 cf	
Link POA-1:			nflow=9.2 cfs 155,379 cf mary=9.2 cfs 155,379 cf	
Total Punoff Area = 620 525 cf. Punoff Valuma = 155 471 cf. Avarage Punoff Donth = 2 02"				

Total Runoff Area = 639,535 sf Runoff Volume = 155,471 cf Average Runoff Depth = 2.92" 44.98% Pervious = 287,685 sf 55.02% Impervious = 351,850 sf

Appendix 2C

Hydrologic Modeling Freeboard Report



Summary for Subcatchment 1.2S:

Runoff = 9.3 cfs @ 12.08 hrs, Volume= 32,916 cf, Depth= 4.11" Routed to Pond 2P : Gravel Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Type III 24-hr 25-YR Rainfall=5.40"

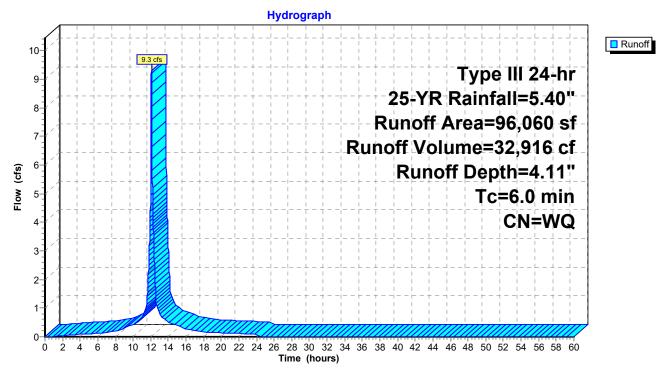
	Area (sf)	CN	Description					
	15,750	39	>75% Grass cover, Good, HSG A					
	12,595	80	>75% Grass cover, Good, HSG D					
*	26,175	98	Roof Area					
*	26,580	98	New Pavement					
*	14,960	98	Existing Pavement					
	96,060		Weighted Average					
	28,345		29.51% Pervious Area					
	67,715		70.49% Impervious Area					
	Tc Length	Slo	be Velocity Capacity Description					

(min) (feet) (ft/ft) (ft/sec) (cfs)									,		
	((min)) ((feet)) ((ft/ft)) (ft/sec) ((cfs)	

6.0

Direct Entry,

Subcatchment 1.2S:



Summary for Pond 2P: Gravel Wetland

Inflow Area = 96,060 sf, 70.49% Impervious, Inflow Depth = 4.11" for 25-YR event Inflow = 9.3 cfs @ 12.08 hrs, Volume= 32,916 cf 3.5 cfs @ 12.32 hrs, Volume= Outflow 17,054 cf, Atten= 62%, Lag= 14.2 min = Primary = 0.0 cfs @ 0.00 hrs, Volume= 0 cf Routed to Pond 1P : Secondary = 3.5 cfs @ 12.32 hrs, Volume= 17,054 cf Routed to Pond 1P :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.01 hrs Peak Elev= 249.63' @ 12.32 hrs Surf.Area= 10,876 sf Storage= 17,964 cf

Plug-Flow detention time= 269.8 min calculated for 17,051 cf (52% of inflow) Center-of-Mass det. time= 143.3 min (900.3 - 756.9)

Volume	Invert	Avail.Stora	age Storage Description						
#1	246.50'	20,369							
#2	245.83'	617							
				of Overall x 30.09					
		20,986	6 cf Total A						
Elevatio	n Su	rf.Area	Inc.Store	Cum.Store					
(fee			cubic-feet)	(cubic-feet)					
246.5	/	3,405	0	0					
240.0		4,040	1,861	1,861					
248.0		5,470	4,755	6,616					
249.0		6,820	6,145	12,761					
250.0		8,395	7,608	20,369					
		-)	,	-)					
Elevatio	on Su	rf.Area	Inc.Store	Cum.Store					
(fee	et)	(sq-ft) (cubic-feet)	(cubic-feet)					
245.8	33	3,069	0	0					
246.5	50	3,069	2,056	2,056					
Device	Routing	Invert	Outlet Devices						
#1	Primary	245.80'	12.0" Roun	d Outfall Pipe X	0.00				
	2				neadwall, Ke= 0.500				
			Inlet / Outlet	Invert= 245.80' /	245.50' S= 0.0115 '/' Cc= 0.900				
					ooth interior, Flow Area= 0.79 sf				
#2	Device 1		1.8" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads						
#3	Device 1		4.3' long x 0.5' breadth Broad-Crested Rectangular Weir						
				0.20 0.40 0.60					
	During			sh) 2.80 2.92 3.					
#4	Device 3		4.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads						
#5	Secondary								
#5	Secondary	249.55	Head (feet)		0.80 1.00 1.20 1.40 1.60 1.80 2.00				
				0.20 0.40 0.00 0.50 4.00 4.50 5					
					70 2.68 2.68 2.67 2.65 2.65 2.65				
				.66 2.67 2.69 2					

Primary OutFlow Max=0.0 cfs @ 0.00 hrs HW=245.83' TW=245.25' (Dynamic Tailwater)

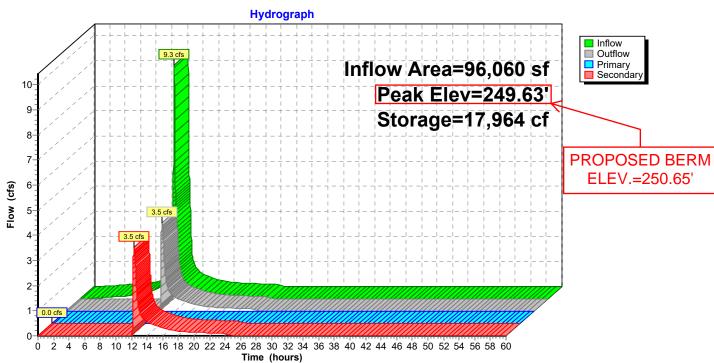
1=Outfall Pipe (Controls 0.0 cfs)

2=Orifice/Grate (Controls 0.0 cfs)

-3=Broad-Crested Rectangular Weir(Controls 0.0 cfs)

4=Orifice/Grate (Controls 0.0 cfs)

Secondary OutFlow Max=3.5 cfs @ 12.32 hrs HW=249.63' TW=247.86' (Dynamic Tailwater) 5=Emergency Spillway (Weir Controls 3.5 cfs @ 1.28 fps)



Pond 2P: Gravel Wetland

Appendix 3

Inspection, Maintenance and Housekeeping Plan



INSPECTION, MAINTENANCE, AND HOUSEKEEPING PLAN

For: Auburn-Lewiston Municipal Airport Hangars Auburn, Maine

> By: Sebago Technics, Inc. 75 John Roberts Road, Suite 4A South Portland, Maine

Introduction

The following plan outlines the anticipated inspection and maintenance procedures for the erosion and sedimentation control measures as well as stormwater management facilities for the project. This plan also outlines several housekeeping requirements that shall be followed during and after construction. These procedures shall be followed in order to ensure the intended function of the designed measures and to prevent unreasonably adverse impacts to the surrounding environment.

The procedures outlined in this Inspection, Maintenance and Housekeeping Plan are provided as an overview of the anticipated practices to be used on this site. In some instances, additional measures may be required due to unexpected conditions. For additional detail on any of the erosion and sedimentation control measures or stormwater management devices to be utilized on this project, refer to the most recently revised edition of the "Maine Erosion and Sedimentation Control BMP" manual and/or the "Stormwater Management for Maine: Best Management Practices" manual as published by the Maine Department of Environmental Protection (MDEP).

During Construction

- 1. **Inspection:** During the construction process, it is the Contractor's responsibility to comply with the inspection and maintenance procedures outlined in this section. These responsibilities include inspecting disturbed and impervious areas, erosion control measures, materials storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site. These areas shall be inspected at least once a week as well as before and after a storm event (0.5" of rainfall), and prior to completing permanent stabilization measures. A person with knowledge of erosion and stormwater control, including the standards and conditions in any applicable permits, shall conduct the inspections.
- 2. **Maintenance:** All measures shall be maintained in an effective operating condition until areas are permanently stabilized. If Best Management Practices (BMPs) need to be maintained or modified, additional BMPs are necessary, or other corrective action is needed, implementation must be completed within 7 calendar days and prior to any storm event (0.5" of rainfall).
- 3. **Documentation:** A log summarizing the inspections and any corrective action taken must be maintained on-site. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, material storage areas, and vehicle access points to the site. Major observations must include BMPs that need maintenance, BMPs that failed

to operate as designed or proved inadequate for a particular location, and locations where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken. The log must be made accessible to the appropriate regulatory agency upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

4. **Specific Inspection and Maintenance Tasks:** The following is a list of erosion control and stormwater management measures and the specific inspection and maintenance tasks to be performed during construction.

A. <u>Sediment Barriers:</u>

- Hay bale barriers, silt fences, and filter berms shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
- If the fabric on a silt fence or filter barrier should decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, it shall be replaced.
- Sediment deposits should be removed after each storm event (0.5" of rainfall). They must be removed before deposits reach approximately one-half the height of the barrier.
- Filter berms shall be reshaped as needed.
- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required should be dressed to conform to the existing grade, prepared, and seeded.

B. <u>Stone Check Dams:</u>

- Inspect the center of the dam to make sure it is lower than the edges. Erosion caused by high flows around the edges of the dam must be corrected.
- Sediment accumulation shall be removed prior to reaching half of the original design height.
- Areas beneath stone check dams must be seeded and mulched upon removal.

C. <u>Riprap Materials:</u>

- Once a riprap installation has been completed, it should require very little maintenance. It shall, however, be inspected periodically to determine if high flows have caused scour beneath the riprap or dislodged any of the stone.
- D. <u>Erosion Control Blankets:</u>
 - Inspect these reinforced areas semi-annually and after significant rainfall events for slumping, sliding, seepage, and scour. Pay close attention to unreinforced areas adjacent to the erosion control blankets, which may experience accelerated erosion.
 - Review all applicable inspection and maintenance procedures recommended by the specific blanket manufacturer. These tasks shall be included in addition to the requirements of this plan.

E. <u>Stabilized Construction Entrances/Exits:</u>

- The exit shall be maintained in a condition that will prevent tracking of sediment onto public rights-of-way.
- When the control pad becomes ineffective, the stone shall be removed along with the collected soil material. The entrance should then be reconstructed.
- Areas that have received mud-tracking or sediment deposits shall be swept or washed. Washing shall be done on an area stabilized with aggregate, which drains into an approved sediment-trapping device (not into storm drains, ditches, or waterways).

F. <u>Temporary Seed and Mulch:</u>

- Mulched areas should be inspected after rain events to check for rill erosion.
- If less than 90% of the soil surface is covered by mulch, additional mulch shall be applied in bare areas.
- In applications where seeding and mulch have been applied in conjunction with erosion control blankets, the blankets must be inspected after rain events for dislocation or undercutting.
- Mulch shall continue to be reapplied until 95% of the soil surface has established temporary vegetative cover.
- G. <u>Stabilized Temporary Drainage Swales:</u>
 - Sediment accumulation in the swale shall be removed once the cross section of the swale is reduced by 25%.
 - The swales shall be inspected after rainfall events. Any evidence of sloughing of the side slopes or channel erosion shall be repaired and corrective action should be taken to prevent reoccurrence of the problem.
 - In addition to the stabilized lining of the channel (i.e. erosion control blankets), stone check dams may be needed to further reduce channel velocity.
- 5. **Housekeeping:** The following general performance standards apply to the proposed project.
 - A. <u>Spill prevention</u>: Controls must be used to prevent pollutants from being discharged from materials on-site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
 - B. <u>Groundwater protection</u>: During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors, accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.

- C. <u>Fugitive sediment and dust</u>: Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control.
- D. <u>Debris and other materials</u>: Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.
- E. <u>Trench or foundation dewatering</u>: Trench dewatering is the removal of water from trenches, foundations, cofferdams, ponds, and other areas within the construction area that retain water after excavation. In most cases, the collected water is heavily silted and hinders correct and safe construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved.

Post-Construction

- 1. **Inspection:** After construction, it is the responsibility of the owner or assigned heirs to comply with the inspection and maintenance procedures outlined in this section. All measures must be maintained in effective operating condition. The owner shall inspect and maintain the BMPs, including but not limited to any parking areas, catch basins, drainage swales, detention basins and ponds, pipes and related structures, in accordance with all municipal and state inspection, cleaning and maintenance requirements of the approved post-construction stormwater management plan.
- 2. **Specific Inspection and Maintenance Tasks:** The following is a list of permanent erosion control and stormwater management measures and the inspection and maintenance tasks to be performed after construction. If the BMP requires maintenance, repair or replacement to function as intended by the approved post-construction stormwater management plan, the owner or operator of the BMP shall take corrective action(s) to address the deficiency or deficiencies as soon as possible after the deficiency is discovered and shall provide a record of the deficiency and corrective action(s) to the local municipality in the annual report.
 - A. <u>Vegetated Areas:</u>
 - Inspect vegetated areas, particularly slopes and embankments, early in the growing season or after heavy rains (>0.5") to identify active or potential erosion problems.
 - Replant bare areas or areas with sparse growth. Where rill erosion is evident, armor the area with an appropriate lining or divert the erosive flows to on-site areas able to withstand the concentrated flows.
 - B. <u>Ditches, Swales and Other Open Channels:</u>
 - Inspect ditches, swales, level spreaders and other open stormwater channels in the spring, in the late fall, and after heavy rains to remove any obstructions to flow. Remove accumulated sediments and debris, remove woody vegetative

growth that could obstruct flow, and repair any erosion of the ditch lining.

- Vegetated ditches must be mowed at least annually or otherwise maintained to control the growth of woody vegetation and maintain flow capacity.
- Any woody vegetation growing through riprap linings must also be removed. Repair any slumping side slopes as soon as practicable.
- If the ditch has a riprap lining, replace riprap in areas where any underlying filter fabric or underdrain gravel is showing through the stone or where stones have dislodged.
- C. <u>Culverts:</u>
 - Inspect culverts in the spring, in the late fall, and after heavy rains (>0.5") to remove any obstructions to flow.
 - Remove accumulated sediments and debris at the inlet, at the outlet, and within the conduit.
 - Inspect and repair any erosion damage at the culvert's inlet and outlet.

D. <u>Removal of Winter Sand:</u>

- Clear accumulations of winter sand in parking lots and along roadways at least once a year, preferably in the spring.
- Accumulations on pavement may be removed by pavement sweeping.
- Accumulations of sand along road shoulders may be removed by grading excess sand to the pavement edge and removing it manually or by a front-end loader or other acceptable method.
- E. <u>Catch Basins</u>:
 - Inspect and, if required, clean-out catch basins at least once a year, preferably in early spring.
 - Clean out must include the removal and legal disposal of accumulated sediments and debris at the bottom of the basin, at any inlet grates, at any inflow channels to the basin, and at any pipes between basins.
- F. <u>Gravel Wetland:</u>
 - During the first year, the basin shall be inspected semi-annually and following major storm events.
 - Debris and sediment buildup shall be removed from the forebay and basin as needed. Any bare area or erosion rills shall be repaired with new filter media or sandy loam then seeded and mulched. Maintaining good vegetative cover will minimize clogging with fine sediments and if ponding exceeds 48 hours, the top of the filter bed must be rototilled to reestablish the soil's filtration capacity.
 - The gravel wetland should be inspected after every major storm in the first year to be sure it is functioning properly. Thereafter, the filter should be inspected at least once every six months to ensure that it is draining within 48 hours following a 0.5" storm or greater. Following storms that fill the system and overflow is observed, the soil filter should drain in no less than 24 to 48 hours. If the system drains too fast, an orifice may need to be added on the underdrain

outlet or, if already present, may need to be modified.

- Sediment Removal: Sediment and plant debris should be removed from the pretreatment structure at least annually.
- Check and clean the risers if there is evidence of standing water, discolored water or accumulated sediments in the cells.
- Removal any decaying vegetation, litter, and debris that may be found.
- Check for foreign species. Particular care must be used to avoid the unintended introduction of invasive species such as purple loosestrife (Lythrum salicaria) and common reed (Phragmites australis). It is recommended that a qualified wetland biologist be consulted when these are found in the area of the gravel wetland.
- Plant biomass shall be harvested annually.
- G. <u>Outlet Control Structures:</u>
 - Inspect outlet structures two times per year (preferably in spring and fall) to ensure that the outlet structures are working in their intended fashion and that they are free of debris.
 - Clean structures when sediment depths reach 12 inches from invert of outlet.
 - At a minimum, remove floating debris and hydrocarbons at the time of the inspection.
- H. <u>Roof Drip Edges:</u>
 - These structures may not be paved over or altered in anyway. No gutter may be installed on the roof line.
 - Debris and sediment buildup shall be removed as needed. Any bare area or erosion rills shall be repaired with new stone.
 - See inspection log within Attachment 1 of this document for the inspection requirements of this BMP.

3. Documentation:

- A. The owner or operator of a BMP or a qualified post-construction stormwater inspector hired by that person, shall, as required by the local municipality, provide a completed and signed certification on a form provided by the local municipality, certifying that the person has inspected the BMP(s) and that they are adequately maintained and functioning as intended by the approved post-construction stormwater management plan, or that they required maintenance or repair, including the record of the deficiency and corrective action(s) taken.
- B. A log summarizing the inspections and any corrective action taken must be maintained. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of controls. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken. The log must be made accessible to the appropriate regulatory agency upon request. A sample "Stormwater Inspection and Maintenance Form" has been included as Attachment 1 of this Inspection, Maintenance, and Housekeeping Plan.
- 4. Duration of Maintenance: Perform maintenance as described and required for any associated permits unless and until the system is formally accepted by a municipality or quasi-municipal district, or is placed under the jurisdiction of a legally created association that will be responsible for the maintenance of the system. If a municipality or quasi-municipal district chooses to accept a stormwater management system, or a component of a stormwater system, it must provide a letter to the MDEP stating that it assumes responsibility for the system. The letter must specify the components of the system for which the municipality or district will assume responsibility, and that the municipality or district agrees to maintain those components of the system in compliance with MDEP standards. Upon such assumption of responsibility, and approval by the MDEP, the municipality, quasi-municipal district, or association becomes a copermittee for this purpose only and must comply with all terms and conditions of the permit.

ATTACHMENT 1 – STORMWATER INSPECTION AND MAINTENANCE LOG

Auburn-Lewiston Municipal Airport Hangars Auburn, Maine

This log is intended to accompany the Inspection, Maintenance, and Housekeeping Plan for the Hangar Development. The following items shall be checked, cleaned, and maintained on a regular basis as specified in the Maintenance Plan and as described in the sections below. This log shall be kept on file for a minimum of five (5) years and shall be available for review by the City of Auburn and the Maine DEP. Qualified personnel familiar with the drainage systems and soils shall perform all inspections. A copy of the construction and post-construction maintenance logs are provided.

General Site

BMP Owner: Compa	Inspection Date Current Weather te / Amount Last Precip y conducting inspection ompany Mailing Address Company Phone # Inspector Name Inspector Email	r:
Project Location: Project Location: Project Location: Dropert Loca	Current Weather te / Amount Last Precip y conducting inspection ompany Mailing Address Company Phone # Inspector Name Inspector Email	r: : : : : : : : : : : : : :
BMP Owner: Compain Dwner Mailing Address: Compain Dwner Mailing Address: Compain Dwner Phone #: Compain Dwner Email: Compain Site Element Suggested Maintenance (recm'd frequency) //egetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Clear accumulated winter sand (annually) Remove obstructions/debris/sediment (monthly) Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Remove sediment/debris from sump Mow vegetated ditches (annually)	te / Amount Last Precip y conducting inspection ompany Mailing Address Company Phone # Inspector Name Inspector Email	2:
BMP Owner: Comparing Address: Dwner Mailing Address: Image: Comparing Address: Dwner Phone #: Image: Comparing Address: Dwner Email: Image: Comparing Address: Site Element Suggested Maintenance (recm'd frequency) Vegetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump	y conducting inspection ompany Mailing Address Company Phone # Inspector Name Inspector Email	n: :s :s :: :: ::
Owner Mailing Address:	Company Mailing Address Company Phone # Inspector Name Inspector Email	ss *: 2: 1:
Owner Mailing Address:	Company Mailing Address Company Phone # Inspector Name Inspector Email	ss *: 2: 1:
Owner Phone #:	Company Phone # Inspector Name Inspector Email	#: 2: 1:
Dwner Email:	Inspector Name	2: :
Site Element Suggested Maintenance (recm'd frequency) /egetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Remove sediment/debris from sump Remove sediment/debris from sump	Inspector Email	1:
Vegetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Remove sediment ditches (annually)		
Vegetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Remove sediment ditches (annually)	Observations	Inspection Notes/Recommended Action
Vegetated Areas Inspect Slopes/Embankments for erosion (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Remove woody vegetation (annually) Remove sediment ditches (annually)	Observations	Inspection Notes/Recommended Action
Vegetated Areas (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Remove obstructions/debris/sediment (monthly) Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
Vegetated Areas (annually) Replant bare areas or areas of sparse growth (annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Remove obstructions/debris/sediment (monthly) Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
(annually) Paved Surfaces Clear accumulated winter sand (annually) Remove sediment along edges of parking and within low spots/pockets (annually) Ditches/Swales Remove obstructions/debris/sediment (monthly) Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
Remove sediment along edges of parking and within low spots/pockets (annually) Remove obstructions/debris/sediment (monthly) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
and within low spots/pockets (annually) Remove obstructions/debris/sediment (monthly) Ditches/Swales Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
Ditches/Swales (monthly) Inspect for erosion/repair as needed (annually) Inspect for erosion/repair as needed (annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
(annually) Remove woody vegetation (annually) Mow vegetated ditches (annually) Remove sediment/debris from sump		
Mow vegetated ditches (annually) Remove sediment/debris from sump		
Remove sediment/debris from sump		
Remove sediment/debris from inlet/outlet Culverts aprons (annually)		
Inspect inlet/outlet aprons for erosion, repair as needed (annually)		
Inspect, repair as needed, riprap aprons for dislodged/sparse coverage (annually)		
Pipe Outlets Remove sediment/debris from outlet aprons (annually)		
Inspect outlet aprons for erosion, repair as needed (annually)		
Inspect, repair as needed, riprap aprons for dislodged/sparse coverage (annually)		
Additional Notes/Observations:		

Gravel Wetland

INSPECTION MAINTENANCE AND HOUSEKEEPING FORM						
General Information						
Project Name:		Inspection Date:				
Project Location:		Current Weather:				
		Date / Amount Last Precip:				
BMP Owner:		Company conducting inspection:				
Owner Mailing Address:		Company Mailing Address				
Owner Phone #:		Company Phone #:				
Owner Email:		Inspector Name:				
		Inspector Email:				
BMP Element	Suggested Maintenance (recm'd frequency)	Observations	have action Notes /Pacommonded Action			
BIMP Element	Trequency	Observations	Inspection Notes/Recommended Action			
Forebay/Pretreatment	Sediment/Debris Removal (Twice Annually)					
	Inspect for bare areas or rill erosion (Twice Annually)					
Outlet Control Structure	Sediment Depth (Twice Annually)					
Riser Pipes	Floatables/Debris (Twice Annually) Review for signs of erosion, sediment accumulation or discolored water (> 0.5" rain, Twice Annually)					
Discharge Pipe	Ground Stabilized (>0.5" rain, Twice Annually)					
Emergency Spillway	Review for signs of erosion (Twice Annually)					
	Review for signs of discharge (>0.5" rain, Twice Annually)					
Embankments	Review for signs of erosion (Twice Annually)					
Treatment Cells	Review for dense root mat establishment (>0.5" rain, Twice Annually)					
	Review for decaying vegetation, litter and debris (Twice Annually) Confirm system drains in 24-48 hours for					
	water quality volume (>0.5" rain, Twice Annually)					
Additional Notes/Observatic	ins:					

Roof Drip Edge Filter

INSPECTION MAINTENANCE AND HOUSEKEEPING FORM						
General Information						
Project Name:		Inspection Date:				
Project Location:		Current Weather:				
		Date / Amount Last Precip:				
BMP Owner:		Company conducting inspection:				
Owner Mailing Address:		Company Mailing Address				
Owner Phone #:		Company Phone #:				
Owner Email:		Inspector Name:				
		Inspector Email:				
BMP Element	Suggested Maintenance (recm'd frequency)	Observations	Inspection Notes/Recommended Action			
Pretreatment	Sediment/Debris Removal (Annually)					
	Inspect for bare areas or rill erosion (Annually)					
Downstream Structure	Sediment Depth (Annually)					
	Floatables/Debris (Annually)					
Discharge Pipe	Ground Stabilized (>1" rain, Annually)					
Embankments	Review for signs of erosion (Twice Annually)					
Stone	Trim overgrown vegetation with string trimmer (annually) Review trench for evidence of vehicular					
	traffic or storage of snow within footprint (annually)					
	Confirm no excessive ponding of water (annually)					
Additional Notes/Observatio	ns:					

Appendix 4

Subsurface Investigations



United States Department of Agriculture

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Androscoggin and Sagadahoc Counties, Maine



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

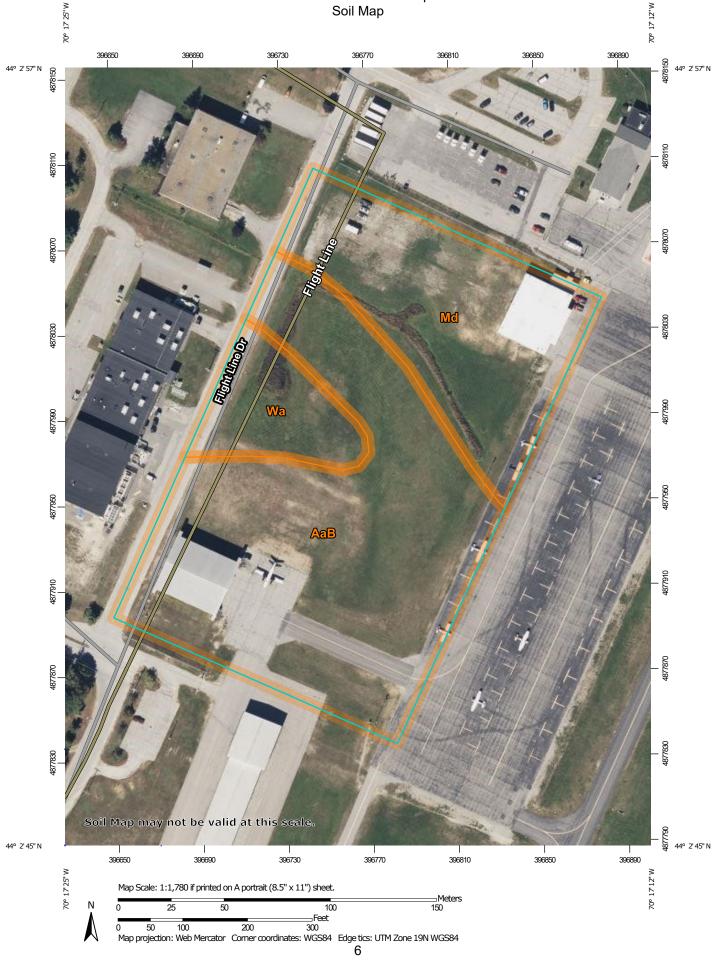
Contents

Preface	2
Soil Map	
Soil Map	
Legend	
Map Unit Legend	9
Map Unit Descriptions	9
Androscoggin and Sagadahoc Counties, Maine	
AaB—Adams loamy sand, 0 to 8 percent slopes	. 11
Md—Made land, loamy materials	.12
Wa—Walpole fine sandy loam	. 12

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
АаВ	Adams loamy sand, 0 to 8 percent slopes	5.0	60.0%
Md	Made land, loamy materials	2.5	30.1%
Wa	Walpole fine sandy loam	0.8	9.9%
Totals for Area of Interest		8.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Androscoggin and Sagadahoc Counties, Maine

AaB—Adams loamy sand, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2wqn9 Elevation: 10 to 2,000 feet Mean annual precipitation: 31 to 95 inches Mean annual air temperature: 27 to 52 degrees F Frost-free period: 90 to 160 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Adams and similar soils: 85 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Adams

Setting

Landform: Outwash terraces Landform position (two-dimensional): Summit, backslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy glaciofluvial deposits

Typical profile

Ap - 0 to 7 inches: loamy sand *Bs - 7 to 21 inches:* sand *BC - 21 to 27 inches:* sand *C - 27 to 65 inches:* sand

Properties and qualities

Slope: 0 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (1.42 to 14.17 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: A Ecological site: F144BY601ME - Dry Sand Hydric soil rating: No

Md—Made land, loamy materials

Map Unit Composition

Made land: 91 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Made Land

Typical profile

H1 - 0 to 60 inches: very gravelly sandy loam

Properties and qualities

Slope: 0 to 35 percent
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very high (0.06 to 20.00 in/hr)
Depth to water table: About 24 to 72 inches
Available water supply, 0 to 60 inches: Moderate (about 6.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Ecological site: F144BY501ME - Loamy Slope (Northern Hardwoods) Hydric soil rating: No

Wa—Walpole fine sandy loam

Map Unit Setting

National map unit symbol: 9kfq Elevation: 0 to 540 feet Mean annual precipitation: 47 to 49 inches Mean annual air temperature: 45 degrees F Frost-free period: 150 to 160 days Farmland classification: Not prime farmland

Map Unit Composition

Walpole and similar soils: 85 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Walpole

Setting

Landform: Outwash plains Landform position (three-dimensional): Talf Down-slope shape: Concave Across-slope shape: Concave Parent material: Sandy glaciofluvial deposits

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 15 inches: loamy sand

H3 - 15 to 60 inches: sand

Properties and qualities

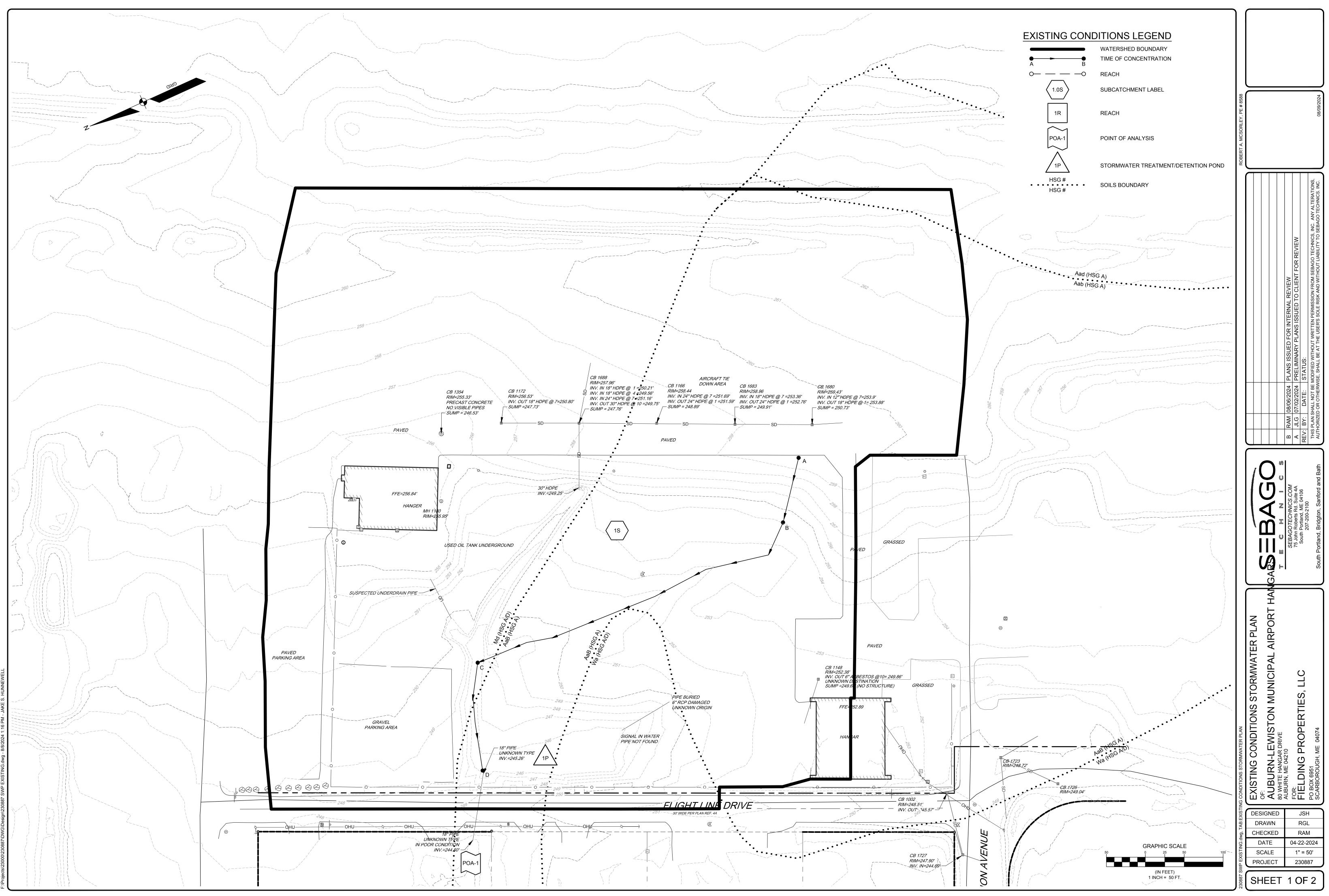
Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.3 inches)

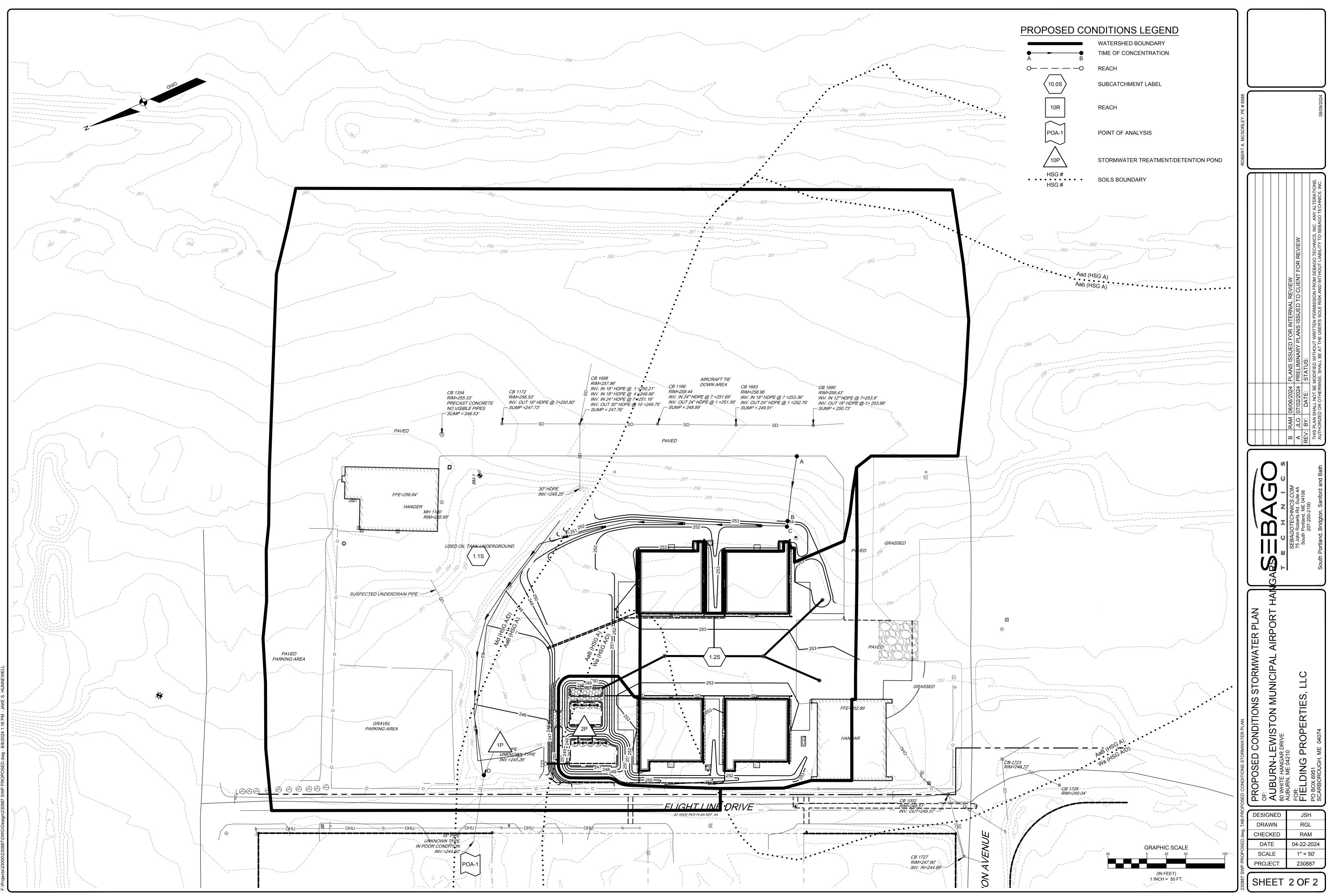
Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 4w Hydrologic Soil Group: A/D Ecological site: F144BY303ME - Acidic Swamp Hydric soil rating: Yes

Appendix 5

Stormwater Management Plans





Page 165 of 186

Section 13

Resources and Other Reviews

- Maine DEP a.
- Maine Historic Preservation Commission b.
 - Maine Natural Areas Program c.
- Maine Department of Inland Fisheries & Wildlife d.
 - Wetland Field Review Report e.
- FAA Notice of Proposed Construction or Alteration f.

SECTION 13: RESOURCES AND OTHER REVIEWS

- a. We note that the project is part of an approved <u>Maine Department of Environmental Protection (MDEP) Site Location of Development project</u> (L-6634-39-A-X, June 25, 1980) that was subject to agency review and comment when permitted initially. The City of Auburn has delegated review of site and stormwater projects. MDEP will review a <u>Maine Construction General Permit Notice of Intent (MCGP</u>) for the additional impervious area proposed for the overall hangar project concurrently with the municipal review. MGCP is automatically accepted 14 days after submittal, and municipalities receive notice of acceptance directly from MDEP.
- b. A letter of inquiry was sent to the <u>Maine Historic Preservation Commission (MHPC)</u> requesting site review and determination that the project will not affect structures or sites of historic, architectural, or archaeological significance as defined by the the National Historic Preservation Act. The response dated June 5, 2024, concludes that the project will not affect historic properties as defined by Section 106 of the National Historic Preservation Act, and further consultation is not required unless additional resources are discovered during project implementation. The response letter is enclosed in this section.
- **c.** The <u>Maine Natural Areas Program (MNAP)</u> was contacted regarding a record of the presence or absence of rare or unique botanical features on the project site. The response letter dated May 14, 2024, states that there are no rare botanical features documented within the project site, and based on the information in their files, the landscape context of the hangar project, there is a low probability that rare or significant botanical features occur at this project location. Reference is made to the enclosed MNAP response in this section.
- **d.** The <u>Maine Department of Inland Fisheries and Wildlife (MDIFW)</u> also received a site review request on behalf of the applicant, which is included in this section. The response dated August 8, 2024, indicates that essential or significant wildlife habitats and fisheries habitats will not be directly affected by the project. MDIFW also indicates that minimal impact to the documented Inland sandpiper is anticipated. Reference is made to the enclosed MDIFW response.
- e. A <u>Wetland Field Review Report</u> prepared by Cole Peters, Professional Wetland Scientist of Sebago Technics, Inc., dated August 7, 2024, is enclosed in this section. The memo concludes that the proposed hangar project area is not subject to freshwater wetland regulatory jurisdiction.
- **f.** A Federal Aviation Administration (FAA) <u>Notice of Proposed Construction or Alteration</u> (Form 7460-1) will be reviewed concurrently with the local review.



May 16, 2024 230887



Mr. Kirk F. Mohney, Director, and State Historic Preservation Officer Maine Historic Preservation Commission 65 State House Station Augusta, Maine 04333

Email submittal: mhpcprojectreview@maine.gov

Site Improvements: Auburn-Lewiston Municipal Airport Hangars Aviation Avenue Auburn, Maine 04210 Tax Map 143/Lot 7

Dear Mr. Mohney:

On behalf of our client, Sebago Technics respectfully requests a site-specific review for the proposed site improvements at the Auburn-Lewiston Municipal Airport in the City of Auburn. The applicant intends to construct four (4) new 6,400 square-foot (overall 25,600 SF) hangers in close proximity to the existing hangar at the intersection of Flight Line Drive and Aviation Avenue. The site is located adjacent to the Lewiston Junction Road/Kittyhawk Avenue commercial development area. Residential development is not located in close proximity to the proposed hangar development area interior to the overall airport parcel. Throughout the years, the site has been improved with structures, including lease space, stormwater management features, and airport-associated development and infrastructure. Other proposed improvements include extending utilities to the proposed new buildings, additional impervious areas, and stormwater management features. The hangar project will be privately funded without federal nexus.

A Maine DEP Site Location of Development Approval is associated with the overall airport, and MHPC has subsequent projects on the overall property since approval in 1980. We understand that MHPC has reviewed numerous projects since the initial approval order #L-6634-39-A-X in June 1980. We know Phase I and Phase II archaeological work was performed on the airport property in the past, and the Native American archaeological site, 23.39 ME, was identified at that time.

We ask that you please review the available material at your earliest convenience and let me know your findings. If you have any questions or require additional information, please do not hesitate to contact me at snichols@sebagotechnics.com or directly by phone at (207) 200-2120. I look forward to hearing from you.

Sincerely, SEBAGO TECHNICS, INC.

Atyanii Clichols

Stefanie Nichols Permitting Specialist/Project Coordinator

enc. Location Map, Aerial Image

Based on the information submitted, I have concluded that there will be no historic properties affected by the proposed undertaking, as defined by Section 106 of the National Historic Preservation Act. Consequently, pursuant to 36 CFR 800.4(d)(1), no further Section 106 consultation is required unless additional resources are discovered during project 'mplementation pursuant to 36 CFR 800.13.

Kirk F. Mohney, State Historic Preservation Officer Maine Aistoric Preservation Commission

Sawyer Engineering & Surveying • Titcomb Associates • Corner Post Land Surveying 75 John Roberts Road - Suite 4A, South Portland, ME 04106 • sebagotechnics.com • 207.200.2100

Best Places to Work In 90 E^{68 of 186}



STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

177 STATE HOUSE STATION AUGUSTA, MAINE 04333

Amanda E. Beal Commissioner

JANET T. MILLS GOVERNOR

May 14, 2024

Stefanie Nichols Sebago Technics 75 John Roberts Road, Suite 4A South Portland, ME 04106

Via email: snichols@sebagotechnics.com

Re: Rare and exemplary botanical features in proximity to: #230887, Auburn-Lewiston Municipal Airport Hangars, Aviation Avenue, Auburn, Maine

Dear Stefanie Nichols:

I have searched the Maine Natural Areas Program's Biological and Conservation Data System files in response to your request received May 14, 2024 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Auburn, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. Based on the information in our files and the landscape context of this project, there is a low probability that rare or significant botanical features occur at this project location.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

The Maine Natural Areas Program (MNAP) is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. MNAP welcomes coordination with individuals or organizations proposing environmental alteration or conducting environmental assessments. If, however, data provided by MNAP are to be published in any form, the Program should be informed at the outset and credited as the source.



PHONE: (207) 287-8044 WWW.MAINE.GOV/DACF/MNAP Letter to Sebago Technics Comments RE: Airport Hangars, Auburn May 14, 2024 Page 2 of 2

The Maine Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using MNAP in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Lisa St. Hilaire

Lisa St. Hilaire | Information Manager | Maine Natural Areas Program 207-287-8044 | <u>lisa.st.hilaire@maine.gov</u>



STATE OF MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE 353 WATER STREET 41 STATE HOUSE STATION AUGUSTA ME 04333-0041



August 08, 2024

Stefanie Nichols Sebago Technics 75 John Roberts Road, Suite 1A Portland, ME 04101

RE: Information Request - Auburn, Auburn-Lewiston Airport Project (ERID 2789)

Dear Stefanie:

Per your request, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information sources for known locations of Endangered, Threatened, and Special Concern (Rare) species; designated Essential and Significant Wildlife Habitats; inland fisheries and aquatic habitats; and other protected natural resource concerns within the vicinity of the *Auburn, Auburn-Lewiston Airport* project, pursuant to MDIFW's authority.

Our Department has not mapped any Essential or Significant Wildlife Habitats or inland fisheries habitats that would be directly affected by your project.

ENDANGERED, THREATENED, AND SPECIAL CONCERN SPECIES

Upland Sandpiper

Upland sandpipers, a State Threatened species, have been historically documented in the vicinity of the project area. However, based on the project location, minimal impacts are anticipated.

This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance, we recommend additional consultation with the municipality, and other state resource and regulatory agencies including the Maine Natural Areas Program and Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance. For information on federally listed species, contact the U.S. Fish and Wildlife Service's Maine Field Office (207-469-7300, mainefieldoffice@fws.gov).

Letter to Stefanie Nichols, Sebago Technics Comments RE: Auburn, Auburn-Lewiston Airport August 08, 2024

Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,

cifwith

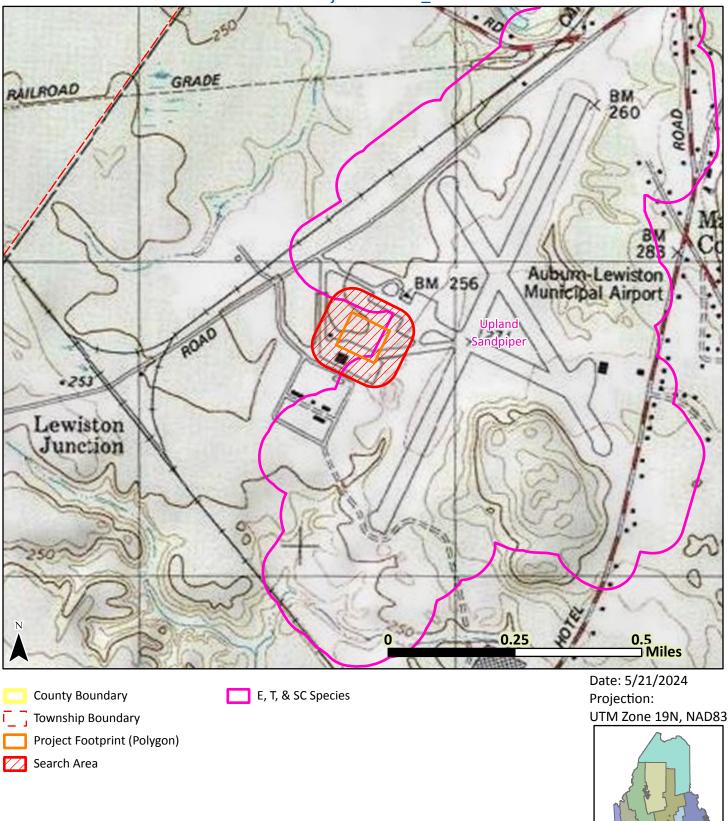
Ciara Wentworth Resource Biologist



Maine Department of Inland Fisheries and Wildlife Project Area Review of Fish and Wildlife Observations and Priority Habitats

Auburn, Auburn-Lewiston Airport project

Project ID 2789_9428





Field Review Report

To: Robert McSorley, P.E., Project Manager

From: Cole Peters, PWS

Date: August 7, 2024



Project: 230887 – Auburn-Lewiston Airport Hangers, Auburn

On August 1, 2024, I conducted a field review at the Auburn-Lewiston Airport in the area where four new hangers are to constructed between Fight Line Drive and the aircraft tie down area to the east (Figure 1). The purpose of the field review was to determine whether jurisdictional freshwater wetlands occur in the area that receives drainage from a 30-inch HDPE outfall from a catch basin network for the tie down area (Photos 1 and 2) and adjoining airfield, that then discharges through an 18-inch pipe to the opposite side (west) of Flight Drive (Photos 3, 4).

Herbaceous vegetation including narrow-leaf cattail (*Typha angustifolia*), wool grass (*Scirpus cyperinus*), jewel weed (*Impatiens capensis*), and beaked sedge (*Carex utriculata*), along with occasional scattered meadowsweet (*Spirea latifolia*), and small willow (*Salix* spp.) shrubs and invasive purple loosestrife (*Lythrum salicaria*) occur along the drainage ditch and throughout an unmown area along Flight Line Drive where surrounding slopes have been graded to direct surface drainage toward the 18-inch culvert. These plant species are hydrophytes adapted to wet conditions and can therefore be indicative of wetlands. However, many of these plants, particularly cattail, establish from small windblown seeds that can readily colonize bare soil in damp areas. Based on the uniformity of surrounding slopes graded or sculpted toward the culvert under Flight Line Drive, which is substantially smaller in diameter than the outfall that discharges tarmac drainage into the excavated ditch, the flat broader area to the south that adjoins the ditch appears to have been constructed to detain surface flow for drainage management and has been opportunistically colonized by wetland vegetation. As a result of this origin, role, location, and distance upstream of other wetlands the ditch and related drainage management in the area reviewed would not be subject to freshwater wetland regulatory jurisdiction.





Photograph 1: Westward from aircraft tie down area where the tarmac is drained by a network of catch basins that outfall into a ditch leading to culvert (arrow) crossing under Flight Line Drive.



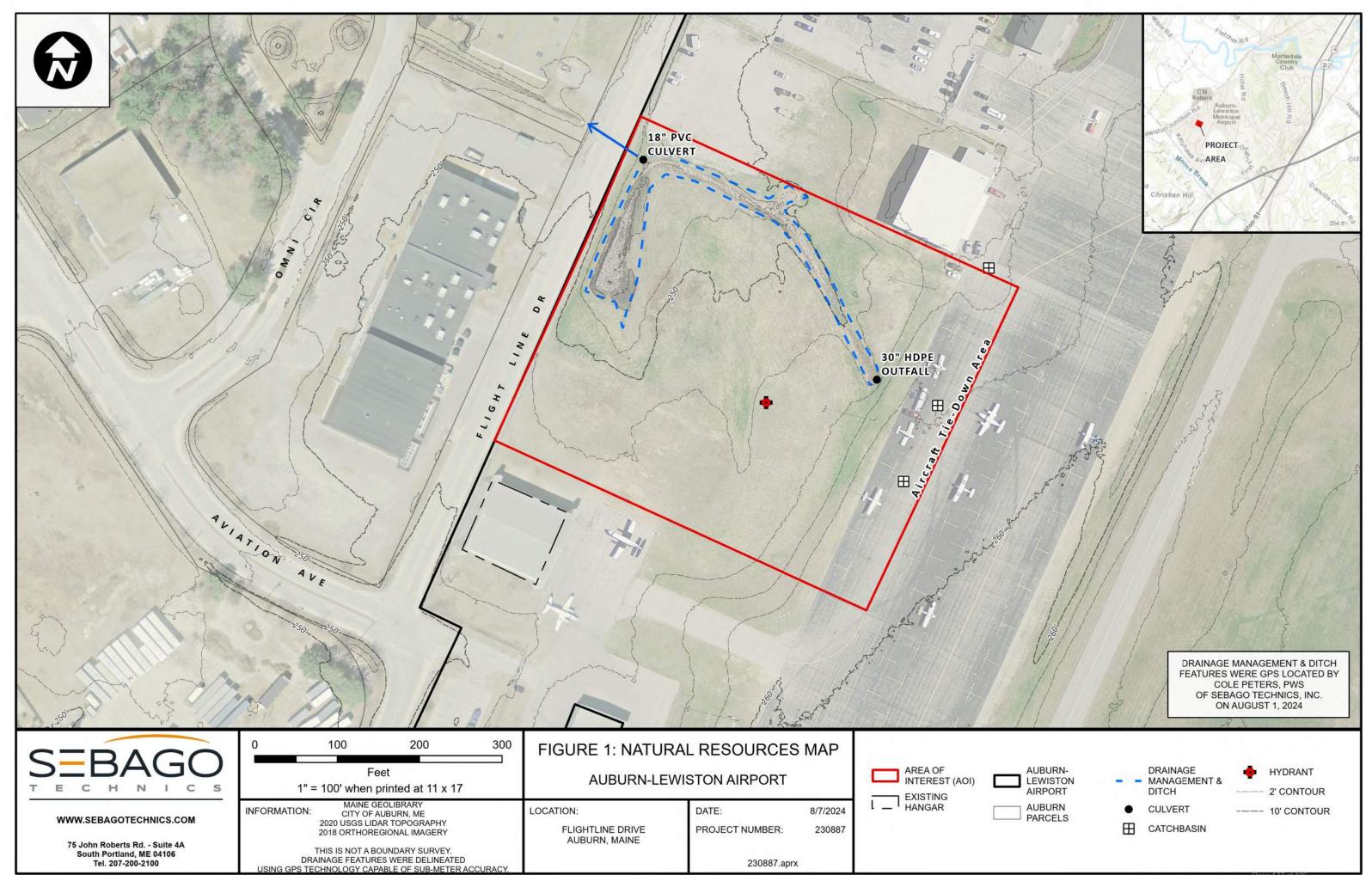
Photograph 2: Downstream view from 30" HDPE culvert catch basin outfall along the drainage ditch leading to an 18" culvert beneath Flight Line Drive.



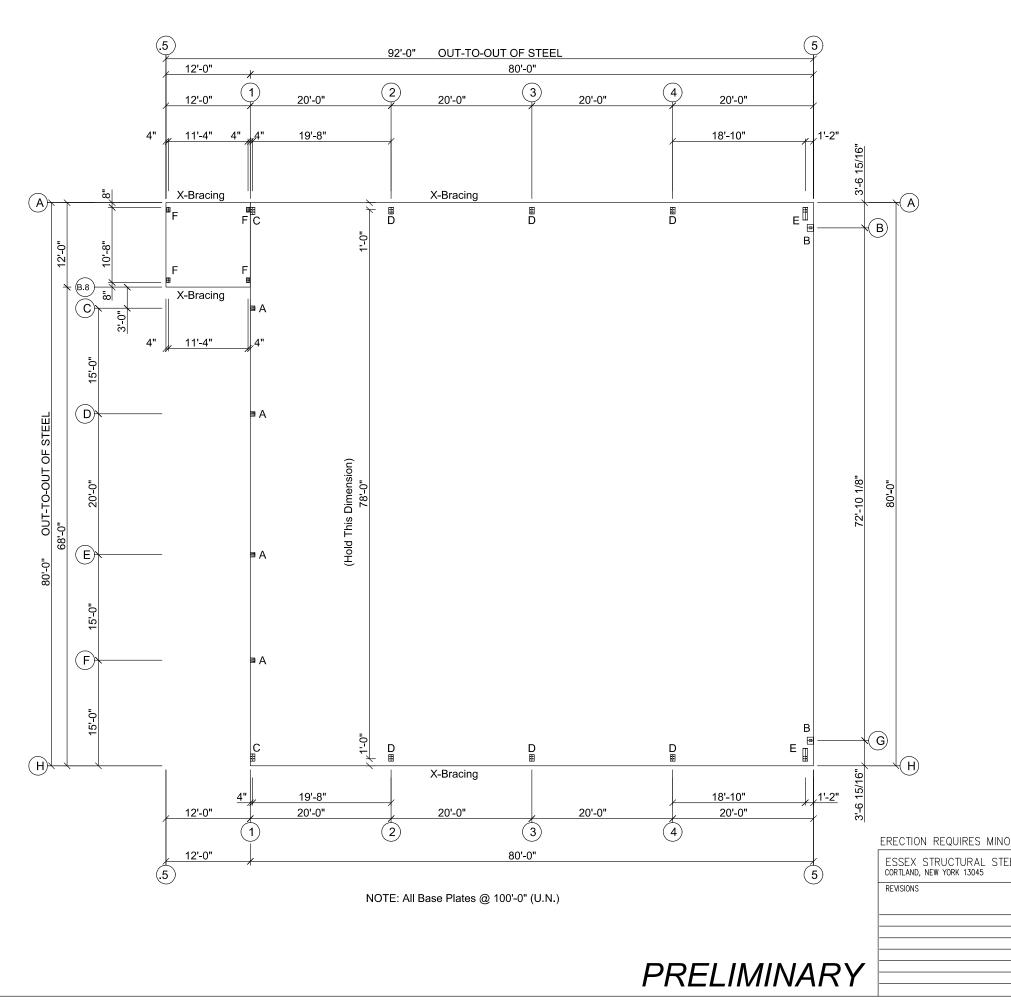
Photograph 3: Southward view where the drainage ditch flows into an 18" culvert under Flight Line Drive. Surrounding slopes have been graded toward the culvert to also capture drainage from the south.



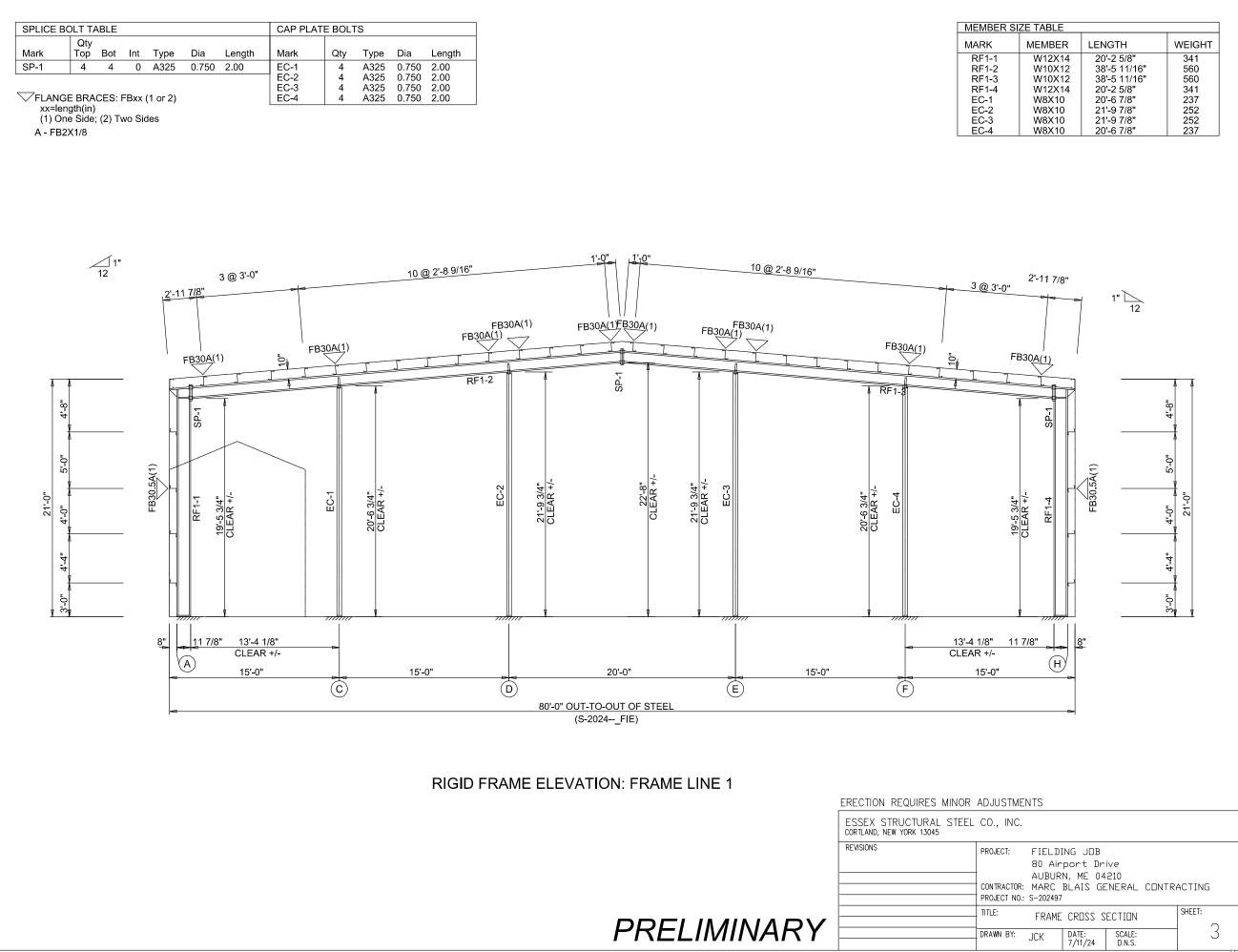
Photograph 4: Northeast overview of the area along Flight Line Drive where surrounding slopes have been graded toward the 18" culvert to capture drainage from the south.



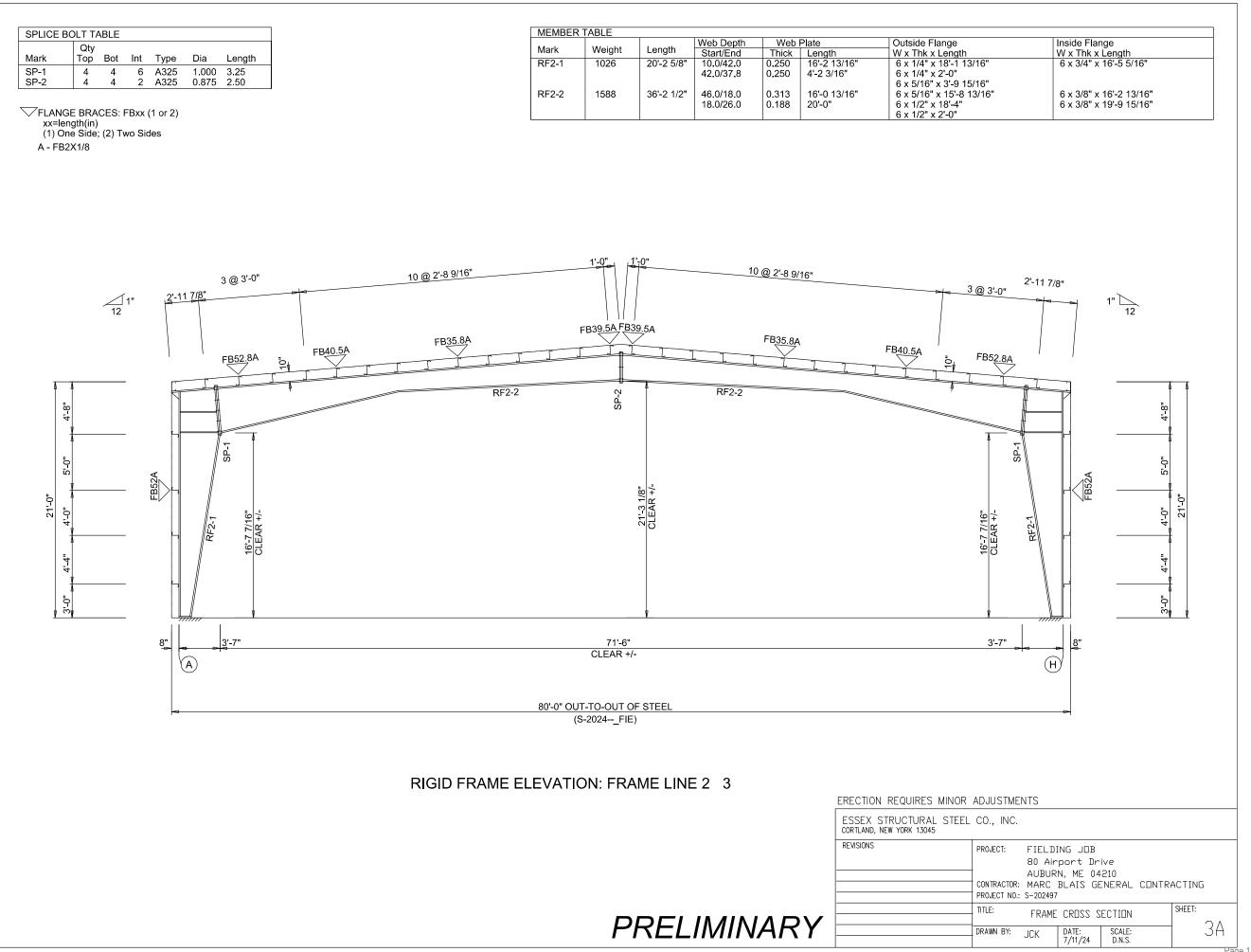
APPENDIX

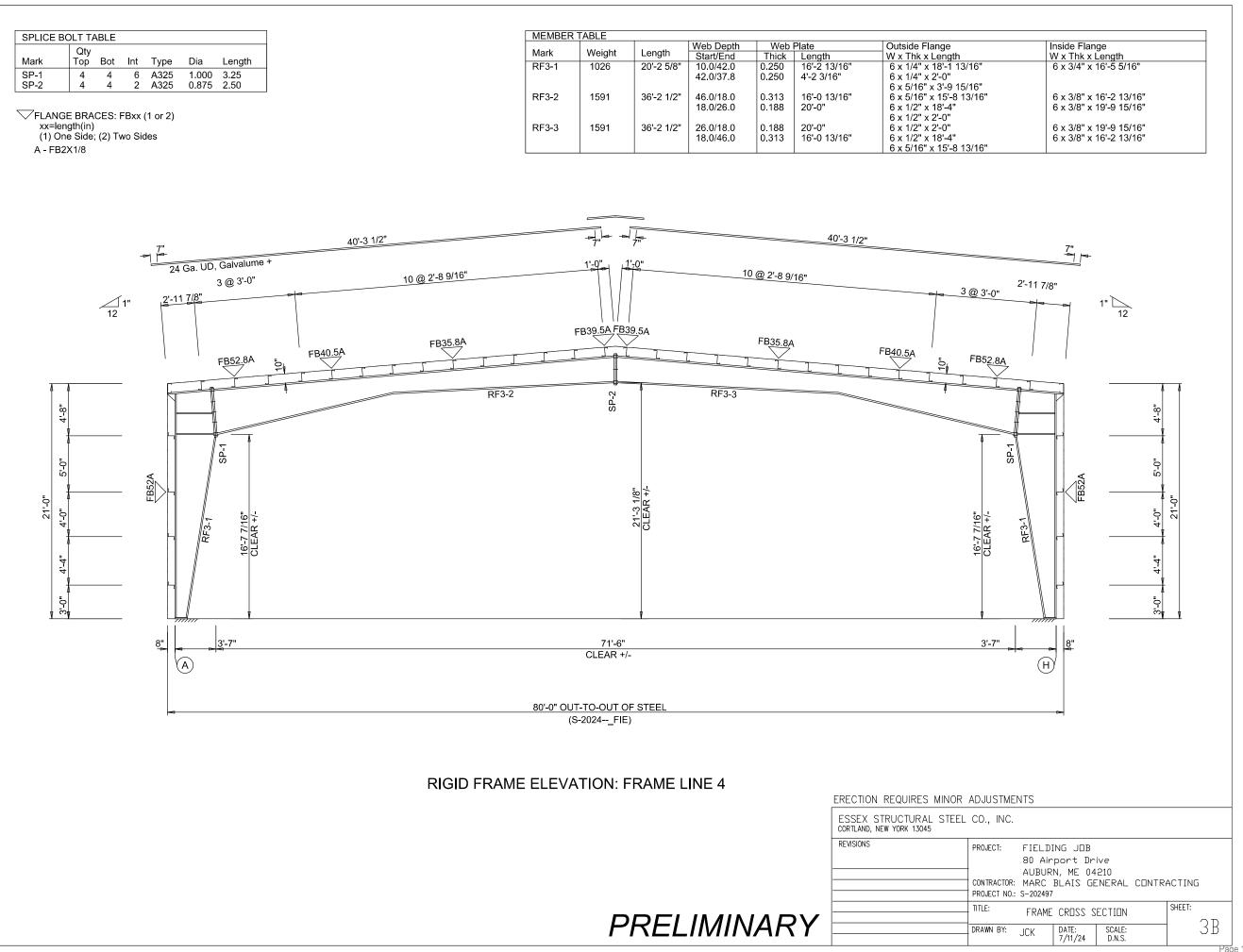


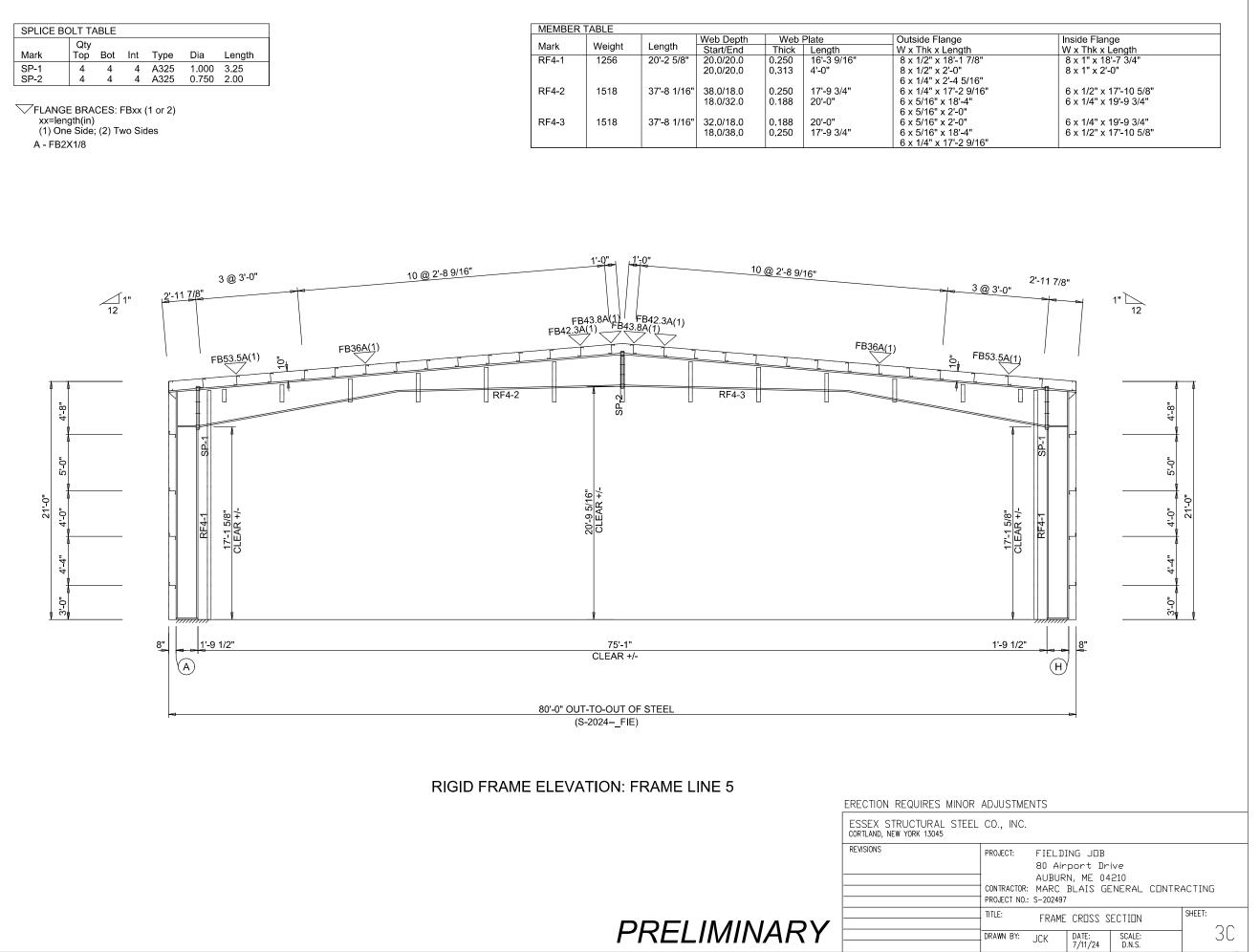
R	ADJUSTME	NTS						
EL	CO., INC.							
	PROJECT:			h e				
			port Dr N, ME 04					
	CONTRACTOR: MARC BLAIS GENERAL CONTRACTING							
	PROJECT NO .:	S-202497						
_	TITLE:	ANCHO	R BOLT L	AYDUT		SHEET:	4	
	DRAWN BY:	JCK	DATE: 7/11/24	SCALE: D.N.S.			1	
	1						Dee	o 170 of 1

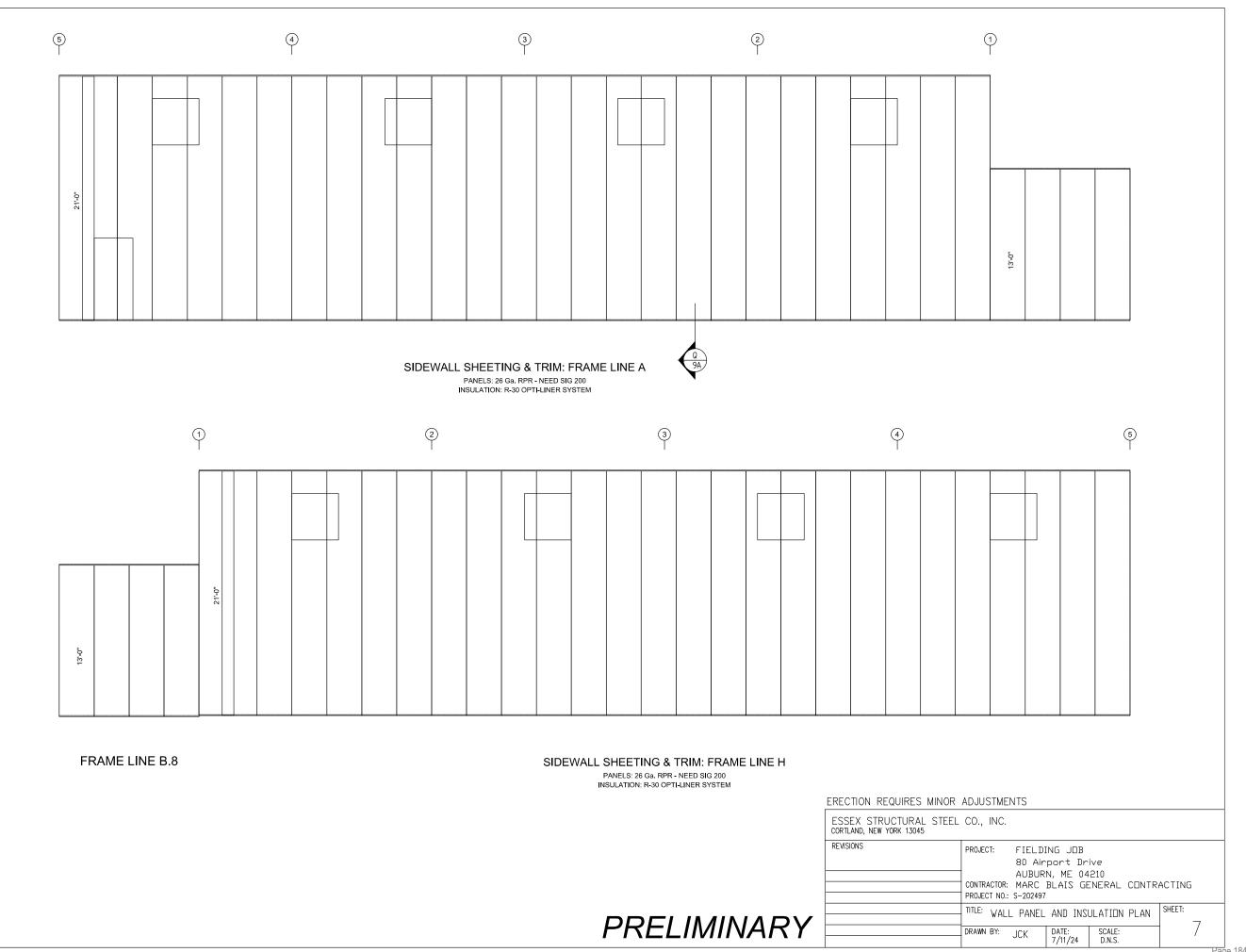


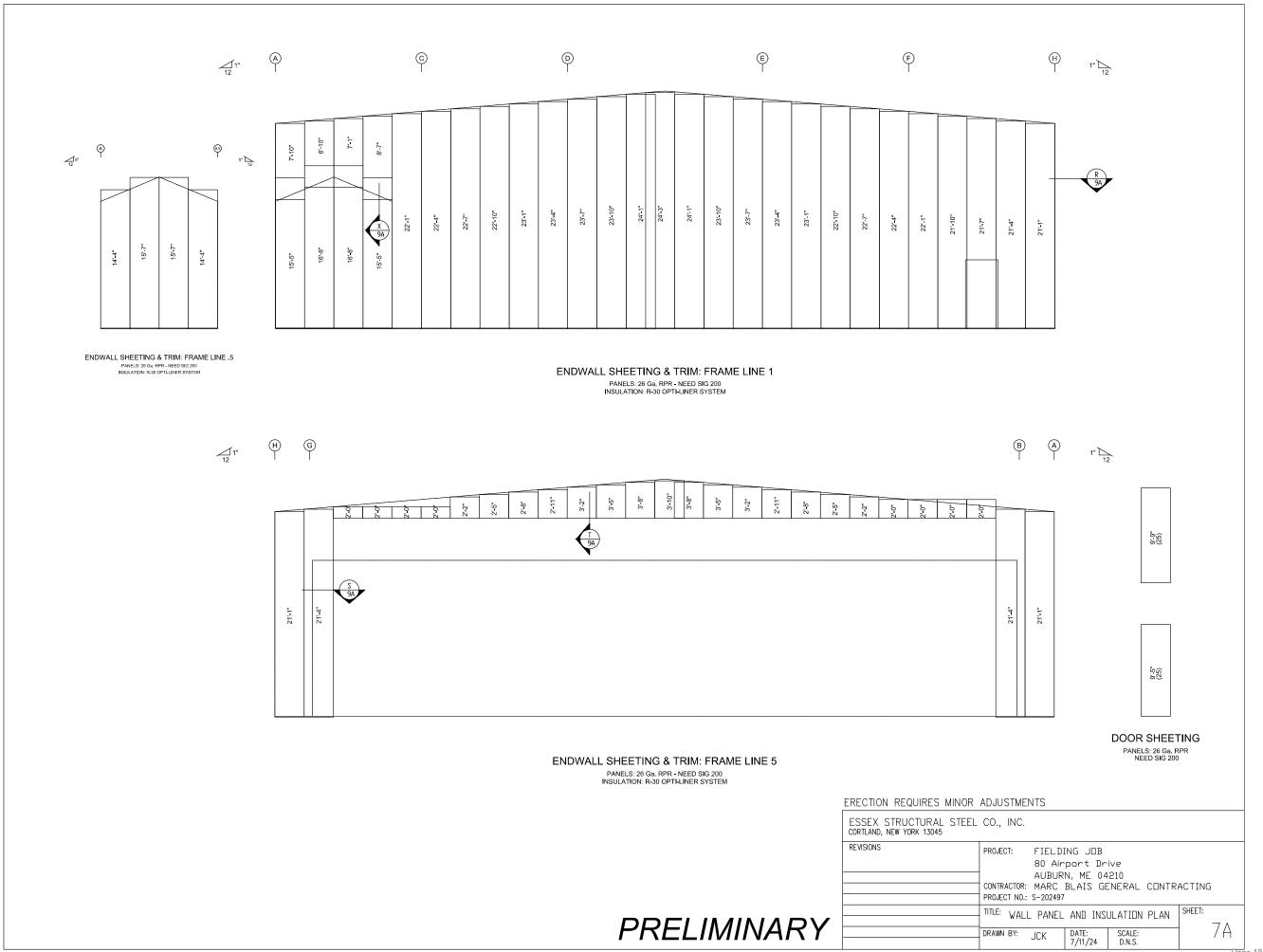
IEMBER SIZE TABLE						
<i>I</i> ARK	MEMBER	LENGTH	WEIGHT			
RF1-1	W12X14	20'-2 5/8"	341			
RF1-2	W10X12	38'-5 11/16"	560			
RF1-3	W10X12	38'-5 11/16"	560			
RF1-4	W12X14	20'-2 5/8"	341			
EC-1	W8X10	20'-6 7/8"	237			
EC-2	W8X10	21'-9 7/8"	252			
EC-3	W8X10	21'-9 7/8"	252			
EC-4	W8X10	20'-6 7/8"	237			

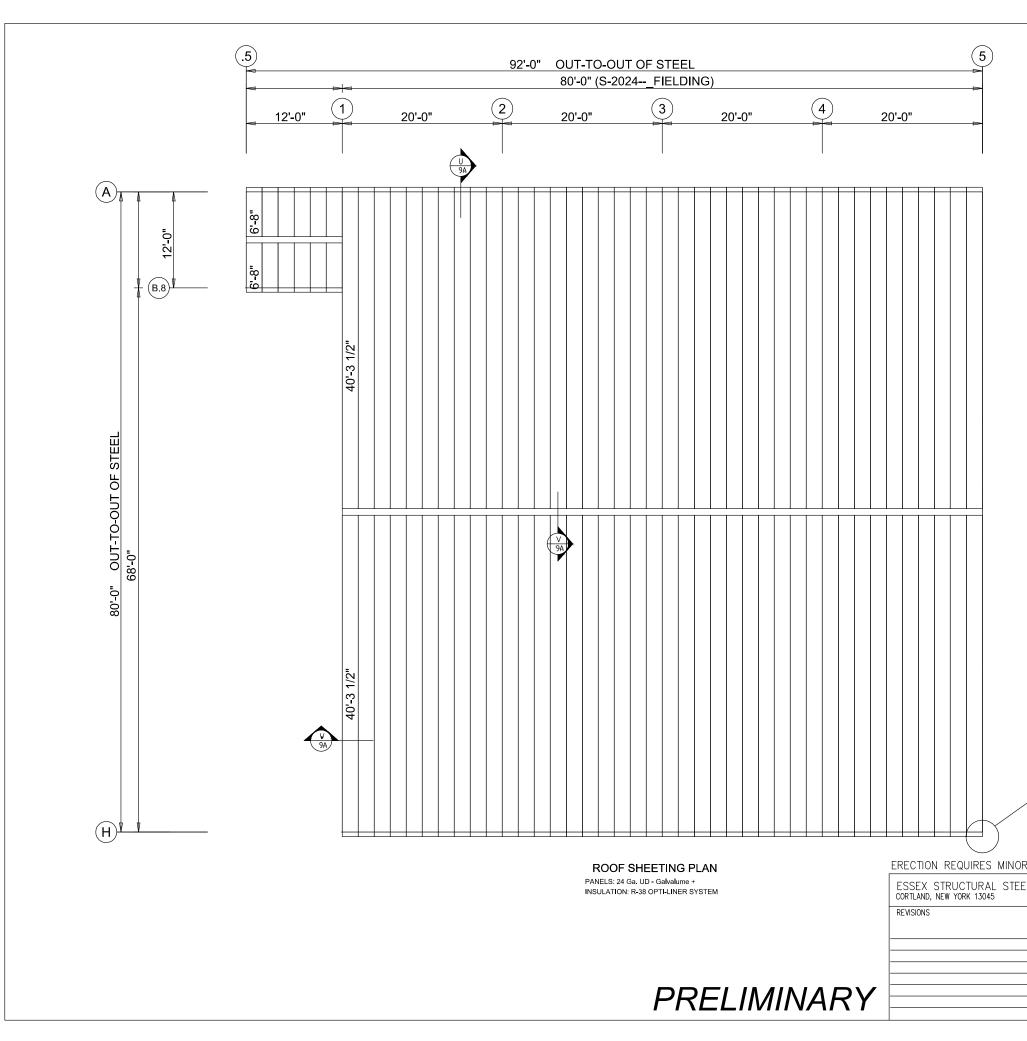












Y 9A R ADJUSTMENTS				
AD0031WILWIS				-
EL CO., INC.				
PROJECT: FIELDING JOB 80 Airport Drive AUBURN, ME 04210 CONTRACTOR: MARC BLAIS GENERAL CONTRACTING PROJECT NO.: S-202497				
TITLE: ROOF PANEL 4	AND INSU	LATION PLAN	SHEET:	
DRAWN BY: JCK	DATE: 7/11/24	SCALE: D.N.S.	8	100