

# Mulino State Airport

## Waterline Improvement Project



# Mulino State Airport

An aerial photograph of the Mulino State Airport. The image shows a long, narrow runway and taxiway system. To the right of the runway, there are several hangars and other airport buildings. The surrounding area is a mix of green fields and some residential or commercial buildings. The sky is clear and blue.

- Site has been in aviation use since 1949
- The airport was privately owned until acquired for public use in 1988
- Home to 62 based aircraft, in 47 leased hangars and 16 tie-down spaces
- Master Plan forecasts demand for 34 additional based aircraft, requiring 36 new hangars over the next 12 years
- **No hangar development on airport until access to fire suppression is improved**

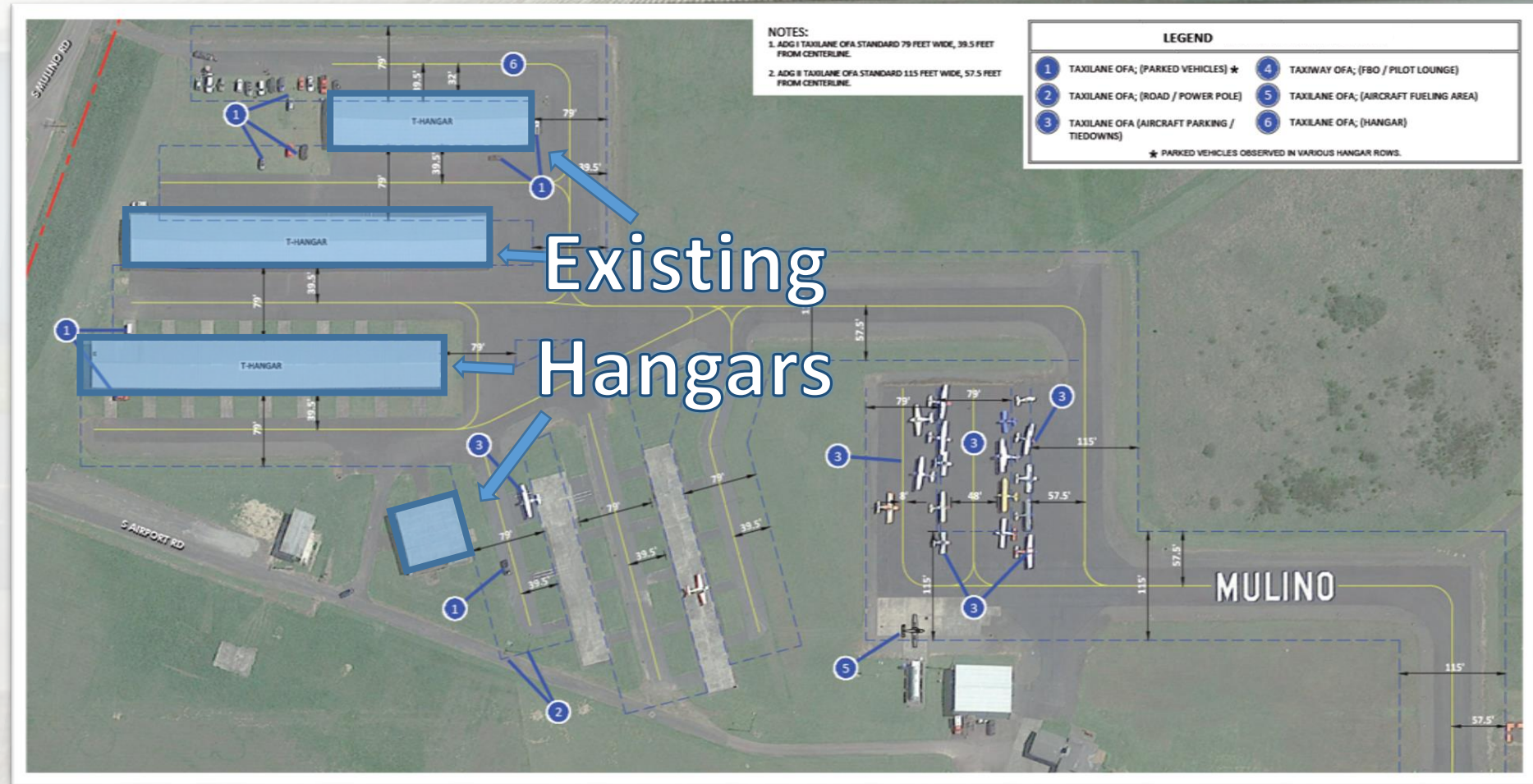
# Mulino State Airport

- Tourism and Commerce
  - On-airport businesses:
    - Fixed Base Operator (FBO)
      - Fuel Sales
      - Commercial Hangar Storage
      - Flight Training
    - Aircraft Maintenance
    - Skydiving
  - Home to Mulino Chapter of the Oregon Pilots Association
  - Master Plan projects the need for future aviation businesses with forecasted growth



# Current Conditions

- 47 Hangars and 16 Tie-Down spaces serving 62 Based Aircraft



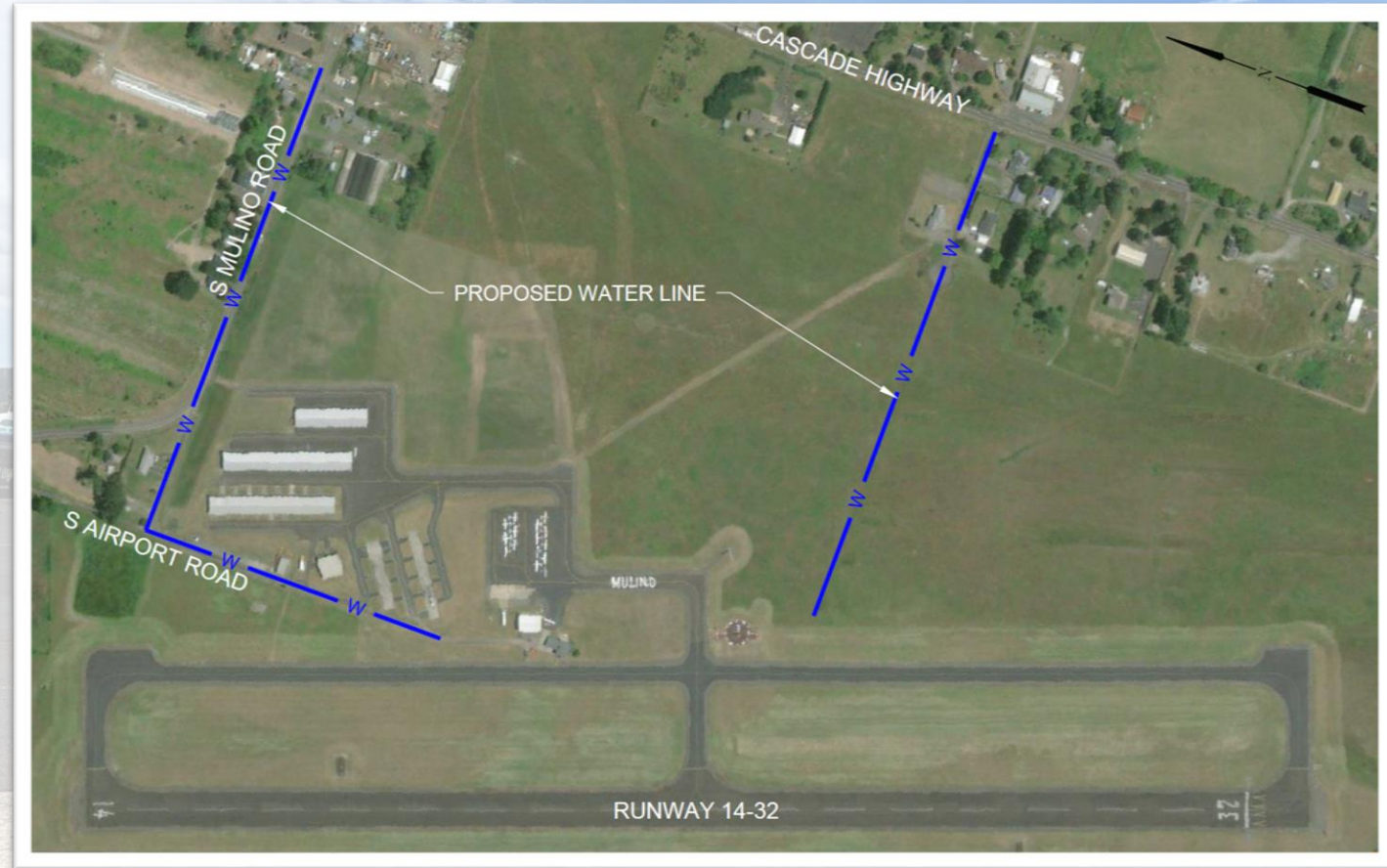
# Current Conditions

- No new development can occur without waterline improvements
- Waitlist for hangar space at Mulino



# Project Scope

- Replace approximately 4,000LF of undersized waterline with 8" ductile iron water main
- Construct 8 new fire hydrants, and reconnect 16 private services
- Useful life will exceed 20 years (over 100 years expected)



# Cost Estimate

- Grant Request:  
\$722,634.91
- Applicant Match:  
\$340,063.49
  - 32%
- Total Estimate:  
\$1,062,698.40
  - With \$42,245.50 Contingency

## Exhibit 1: OPCC



## MULINO STATE AIRPORT WATERLINE CONSTRUCTION ESTIMATE

Estimate Level: 100%  
 Project No: 40097.081.01  
 Prepared By: MST/RDV/RW  
 Date: 8/18/21

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
<b>PART 00200 - TEMPORARY FEATURES AND APPURTENANCES</b>					
1	Mobilization (00210)	LS	1	\$ 50,000.00	\$ 50,000.00
2	Work Zone Traffic Control (00225)	LS	1	\$ 30,000.00	\$ 30,000.00
3	Erosion and Sediment Control (00280)	LS	1	\$ 5,000.00	\$ 5,000.00
<b>PART 00300 - ROADWORK</b>					
4	Construction Survey Work (00305)	LS	1	\$ 16,000.00	\$ 16,000.00
5	Asphalt Pavement Saw Cutting (00310)	LF	2640	\$ 5.00	\$ 13,200.00
6	Removal of Surfacing (00310)	SY	1300	\$ 10.00	\$ 13,000.00
<b>PART 00400 - DRAINAGE AND SEWERS</b>					
7	Trench Foundation (00405)	Ton	20	\$ 50.00	\$ 1,000.00
8	Field Exploration (00495)	LS	1	\$ 10,000.00	\$ 10,000.00
<b>PART 00600 - BASES</b>					
9	Cold Plane Pavement Removal - 0-2 inches Deep (00620)	SF	380	\$ 10.00	\$ 3,800.00
<b>PART 00700 - WEARING SURFACES</b>					
10	Level 3, 1/2-inch ACP (00744)	TON	350	\$ 170.00	\$ 59,500.00
<b>PART 00800- PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES</b>					
11	Hydrant Bollards (00815)	EA	16	\$ 500.00	\$ 8,000.00
12	Longitudinal Pavement Markings - Paint (00860)	LF	3,000	\$ 4.00	\$ 12,000.00
13	Thermoplastic, Extruded, Surface Profiled (00865)	LF	170	\$ 10.00	\$ 1,700.00
<b>PART 01000 - RIGHT OF WAY DEVELOPMENT AND CONTROL</b>					
14	Permanent Seeding - Mix No. 2 (01030)	SY	1,000	\$ 5.00	\$ 5,000.00
15	Mailbox Supports (01070)	EA	1	\$ 500.00	\$ 500.00
<b>PART 01100 - WATER SUPPLY SYSTEMS</b>					
15	Ductile Iron Pipe Bend, 8-inch (01140)	EA	4	\$ 750.00	\$ 3,000.00
16	Ductile Iron Pipe Tee, 8-inch (01140)	EA	9	\$ 1,000.00	\$ 9,000.00
17	8-inch Connection to Existing 8-inch Main (01140)	EA	3	\$ 3,000.00	\$ 9,000.00
18	6-Inch Class 52 DI Restrained Joint Water Main & Class A Backfill (01140)	LF	201	\$ 120.00	\$ 24,120.00
19	6-Inch Class 52 DI Restrained Joint Water Main & Class B Backfill (01140)	LF	52	\$ 125.00	\$ 6,500.00
20	8-inch Class 52 DI Restrained Joint Water Main & Class A Backfill (01140)	LF	2285	\$ 110.00	\$ 251,350.00
21	8-inch Class 52 DI Restrained Joint Water Main & Class B Backfill (01140)	LF	1646	\$ 115.00	\$ 189,290.00
22	8-inch Tapping Sleeve and 8-inch Valve Assembly (01150)	EA	1	\$ 8,000.00	\$ 8,000.00
23	8-inch Gate Valve (01150)	EA	6	\$ 1,750.00	\$ 10,500.00
24	6-inch Gate Valve (01150)	EA	9	\$ 1,500.00	\$ 13,500.00
25	8-inch Combination Air Release Valve/Air Vacuum Valve Assembly (01150)	EA	3	\$ 2,250.00	\$ 6,750.00
26	Hydrant Assemblies (01160)	EA	8	\$ 6,000.00	\$ 48,000.00
27	Remove and Salvage Existing Hydrant (01160)	EA	4	\$ 500.00	\$ 2,000.00
28	Reconnect Existing Water Services, 3/4-inch (01170)	EA	16	\$ 750.00	\$ 12,000.00
29	3/4-inch Copper Water Service Line (01170)	LF	710	\$ 30.00	\$ 21,300.00
30	Reconnect Existing Water Services, 1-1/2-inch (01170)	EA	1	\$ 900.00	\$ 900.00
31	1-1/2 - inch Copper Water Service Line (01170)	LF	20	\$ 50.00	\$ 1,000.00
<b>CONSTRUCTION TOTAL</b>					<b>\$ 844,910.00</b>
ESTIMATE CONTINGENCY (5%)					\$ 42,245.50
<b>CONSTRUCTION TOTAL WITH CONTINGENCY</b>					<b>\$ 887,155.50</b>

# Project Timeline

- 7 month total project time
- Once awarded the grant:
  - Planning and scoping – Completed
  - Project Design – Completed
  - Advertise for Bids – by December 2022
  - Construction Award – by February 2023
  - Permitting Applications – by May 2023
  - Project Construction – May through September 2023
  - Project Closeout – September 2023





A blue and white Cessna airplane is parked on an asphalt runway. The aircraft features a blue upper fuselage with white stripes and a white lower fuselage. The propeller is covered with a white protective cap. The background shows a grassy field, trees, and a blue sky with scattered white clouds. A white text box with a blue border is overlaid on the image, containing the word "Questions?".

Questions?