Chicagoland Glider Council Webinar Series

Chicago Glider Club's Home-Built Visual Approach Slope Indicator (VASI)

Speaker: Don Kroesch

April 18, 2022

Chicagoland Glider Council Webinar Series

Speaker: Don Kroesch

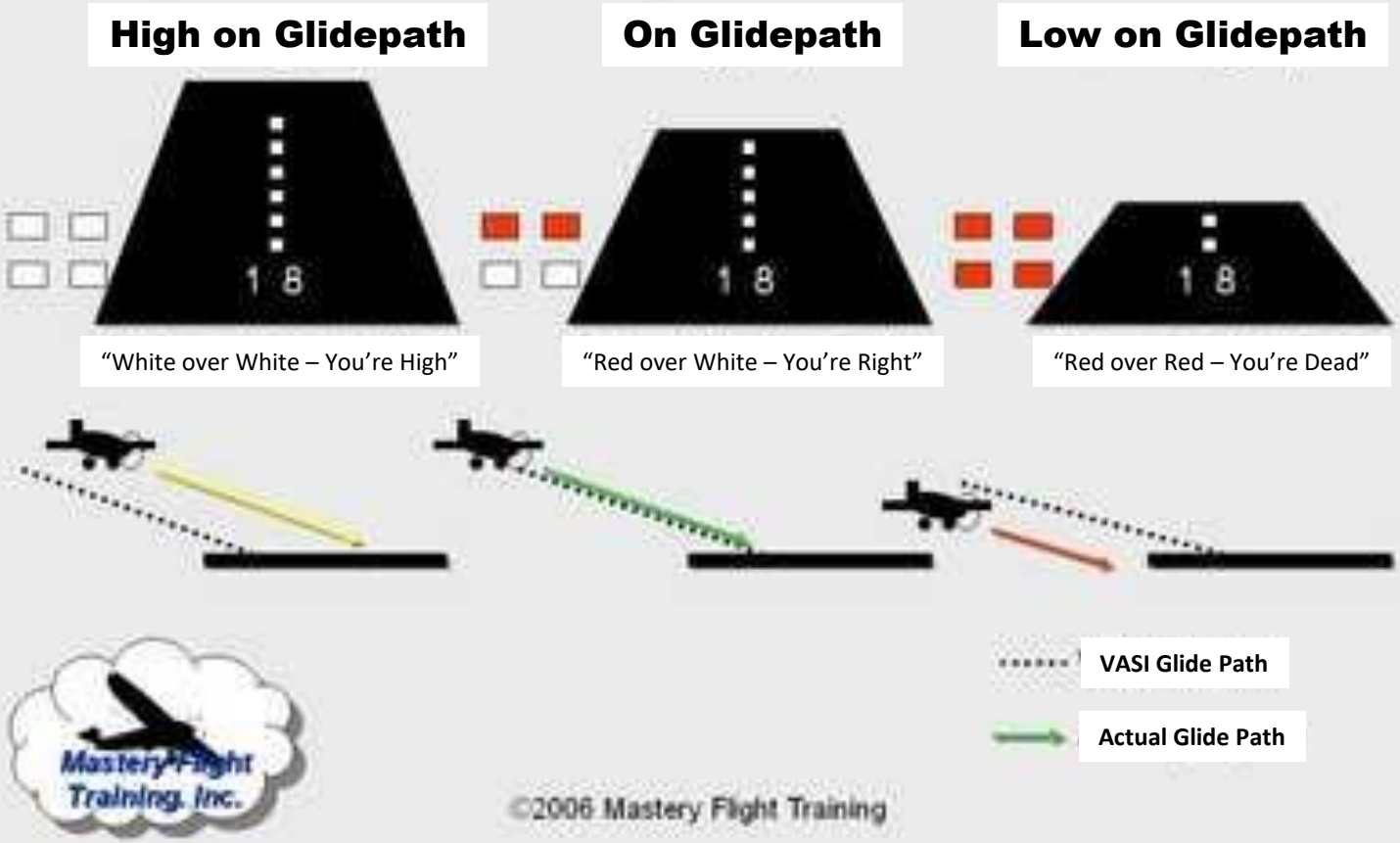
1968 - Joined the SSA
1969 - First glider flight then solo 17 flights later
1972 - Private Pilot Certificate - SEL - Glider
1974 - A&P Mechanics Certificate
1400 hrs. in Gliders
Gliders previously owned: Pegasus 101 , Lak17b FES
Currently flying a Genesis 2
Joined the Chicago Glider Club in 1987
25 years on the CGC Board of Directors

April 18, 2022

Chicago Glider Club – Minooka, IL - IL59
Elev: 590 ft - Runway 09-27 – 2000 ft


Chicago Glider Club – Minooka, IL - IL59
Elev: 590 ft - Runway 09-27 – 2000 ft
North
E. Condor Ct
Bell Road

Two-Bar VASI


High on Glidepath
On Glidepath
Low on Glidepath
1 8
1 8
1 8
"White over White – You're High"
"Red over White – You're Right"
"Red over Red – You're Dead"
VASI Glide Path
Actual Glide Path
Mastery Flight Training, Inc.
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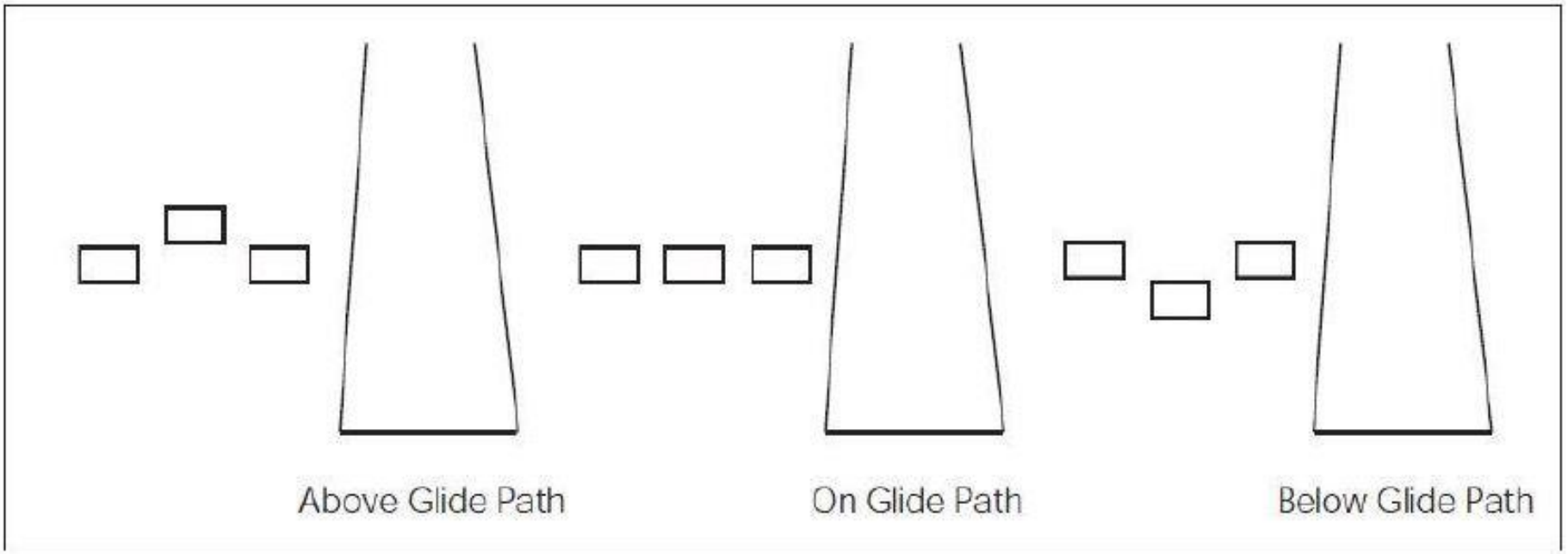
1. *FIG 2-1-8*
Alignment of Elements



2. **Pulsating Systems.** Pulsating visual approach slope indicators normally consist of a single light unit projecting a two-color visual approach path into the final approach area of the runway upon which the indicator is installed. The on glide path indication may be a steady white light or alternating RED and WHITE light. The slightly below glide path indication is a steady red light. If the aircraft descends further below the glide path, the red light starts to pulsate. The above glide path indication is a pulsating white light. The pulsating rate increases as the aircraft gets further above or below the desired glide slope. The useful range of the system is about four miles during the day and up to ten miles at night. (See FIG 2-1-7.)
3. **Alignment of Elements Systems.** Alignment of elements systems are installed on some small general aviation airports and are a low-cost system consisting of painted plywood panels, normally black and white or fluorescent orange. Some of these systems are lighted for night use. The useful range of these systems is approximately three-quarter miles. To use the system the pilot positions the aircraft so the elements are in alignment. The glide path indications are shown in FIG 2-1-8.

(12)

DOT/FAA/CT-84/11

Marking and Lighting of Unpaved Runways - Inservice Testing

Victor F. Dosch
Guy S. Brown

March 1984

US Department of Transportation
Federal Aviation Administration
Technical Center
Atlantic City Airport, N.J. 08405

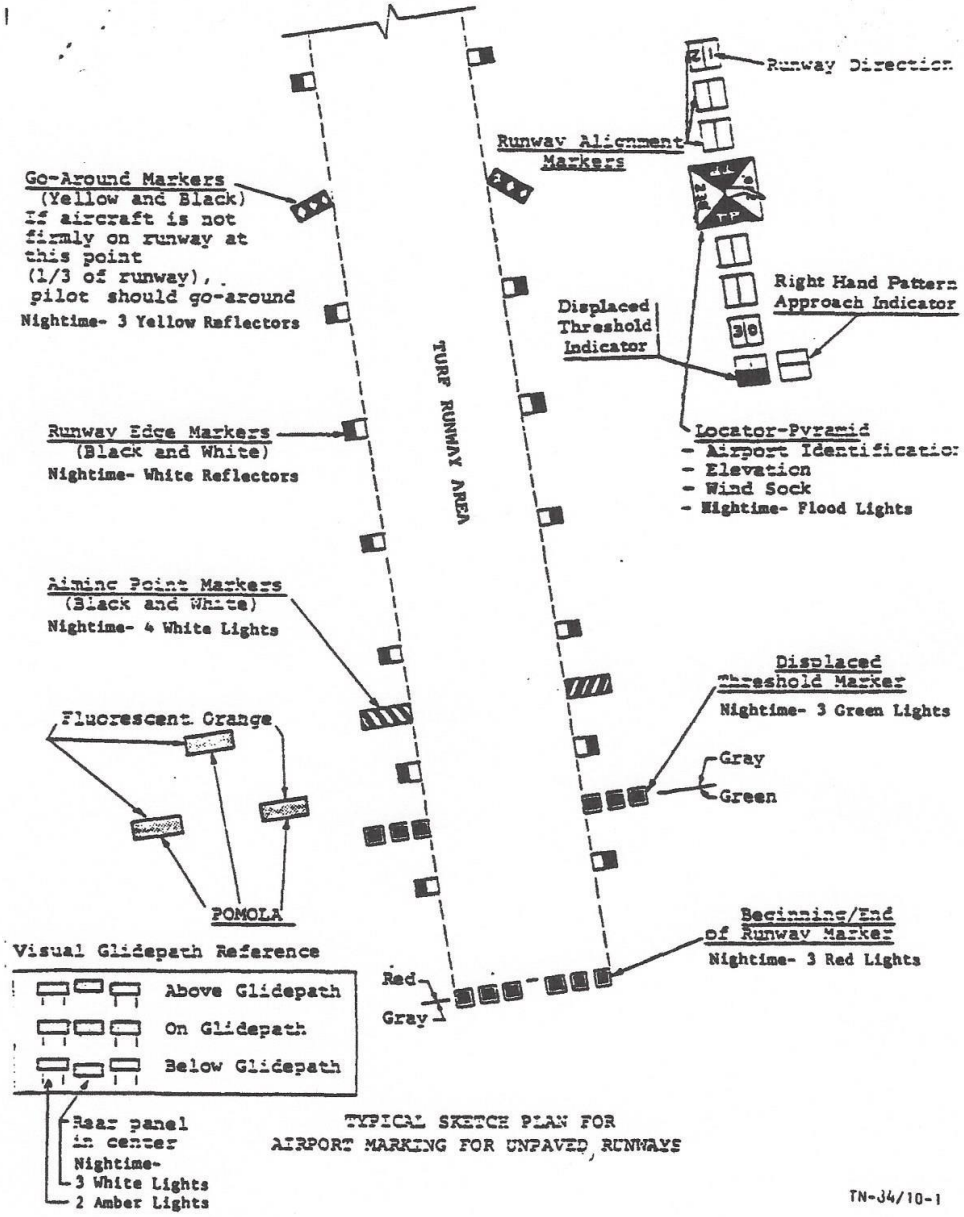
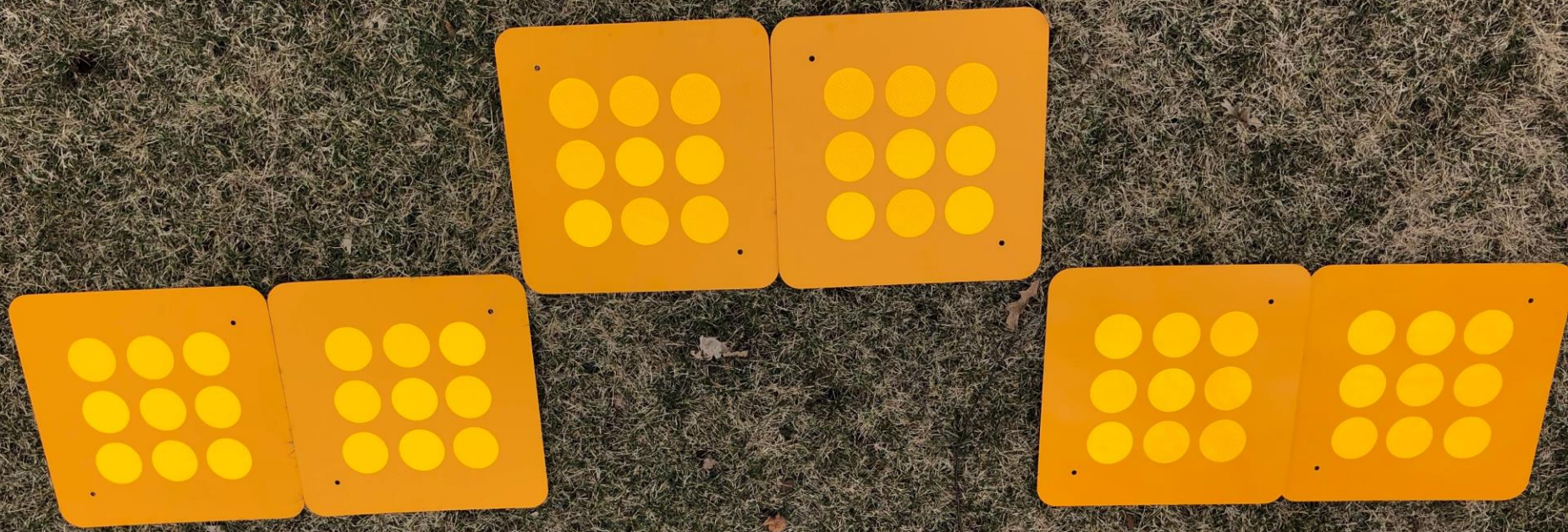
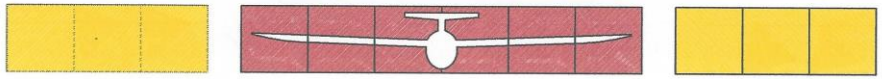


FIGURE A-1. TYPICAL SKETCH PLAN FOR AIRPORT MARKING FOR UNPAVED RUNWAYS



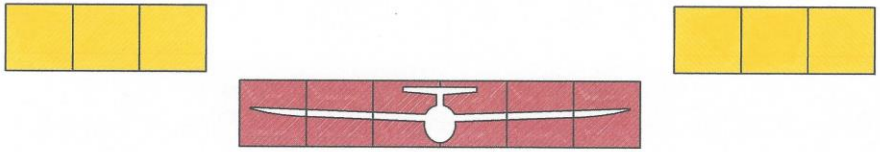
CHICAGO GLIDER CLUB VASI (2020 VERSION)

ON GLIDE PATH

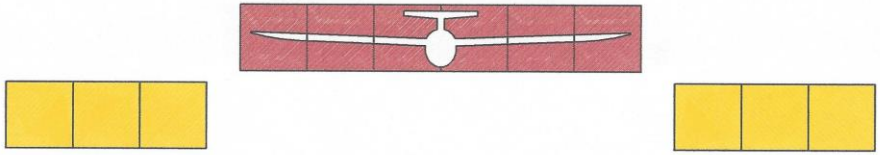


THE GOAL IS TO HAVE ALL AIRCRAFT CROSSING BELL ROAD WHEN LANDING ON 09 AT 50 FEET OR ABOVE.

BELOW GLIDE PATH

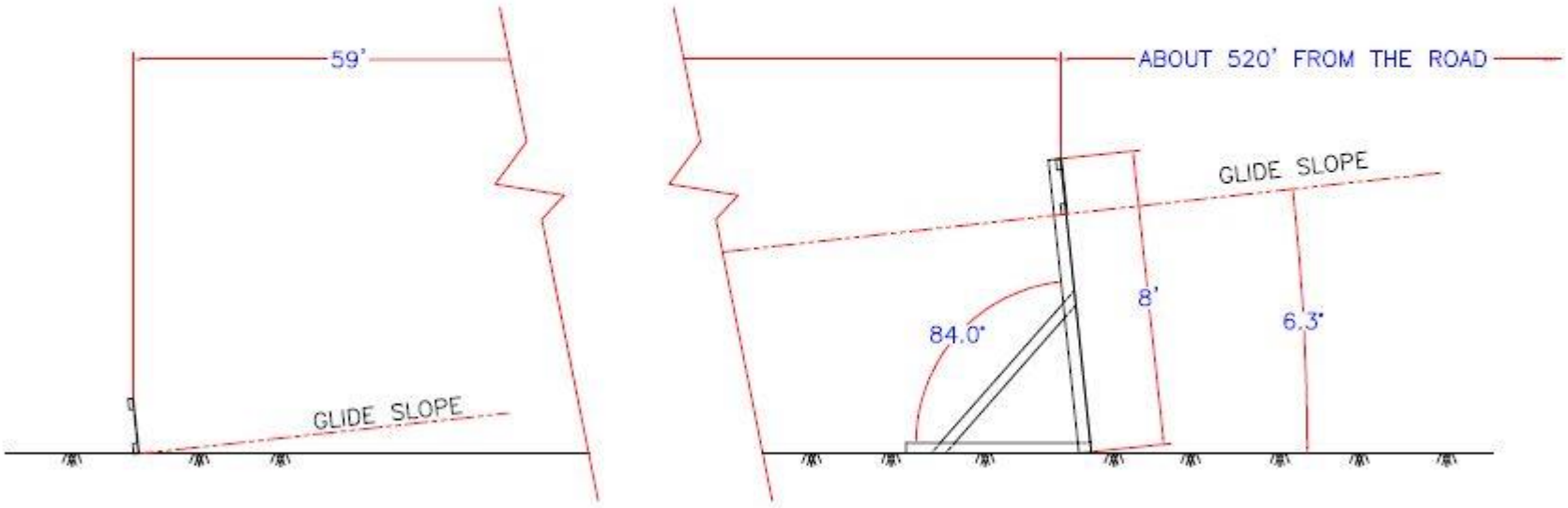


ABOVE GLIDE PATH



CGC PROOF OF CONCEPT VASI

V VISUAL A APPROACH S SLOPE I INDICATOR



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Questions And Answers

April 18, 2022