



Advisory Circular

Subject: Standards for Airport Sign Systems

Date: Draft

AC No: 150/5340-18G

Initiated by: AAS-100

Change:

1 1 **Purpose.**

2 This Advisory Circular (AC) contains the Federal Aviation Administration (FAA)
3 standards for the siting and installation of signs on airport runways and taxiways.

4 2 **Cancellation.**

5 This AC cancels AC 150/5340-18F, *Standards for Airport Sign Systems*, dated August
6 16, 2010.

7 3 **Background.**

8 This AC incorporates mandatory hold signs that reflect changed standards for the
9 Precision Obstacle Free Zone (POFZ) and Category (CAT II/III) operations. These
10 changes correspond to revisions to AC 150/5300-13, *Airport Design*, that change the
11 Precision Object Free Area (POFA) to the POFZ and incorporate new separation
12 standards for taxiways that are used for parallel runways during certain low visibility
13 operations.

14 The Federal Aviation Administration (FAA) also has revised low visibility operation
15 procedures; these revised procedures require that the POFZ be clear when an aircraft on
16 a vertically guided final approach is within 2 nautical miles of the runway threshold and
17 the reported ceiling is below 250 feet (75 m) and/or visibility less than a $\frac{3}{4}$ statute mile
18 (runway visual range below 4,000 feet (1 km)). If the POFZ is not clear, the minimum
19 authorized height above touchdown (HAT) and visibility are 250 feet and a $\frac{3}{4}$ statute
20 mile respectively. The POFZ is considered clear even if the wing of the aircraft holding
21 on a taxiway penetrates the POFZ; however, neither the fuselage nor the tail may
22 infringe on the POFZ (see the most recent versions of AC 150/5300-13 and FAA Order
23 8260.3, *United States Standard for Terminal Instrument Procedures*).

24 The FAA is revising Terminal Instrument Procedures (TERPS) standards for the
25 separation distance between a runway equipped for CAT II/III operations and the
26 parallel taxiway that requires aircraft to hold, in certain circumstances, at a location
27 other than the runway holding position.

28 Accordingly, the FAA has developed sign standards to assist airport operators in
29 designating (1) the POFZ holding position in those instances where a taxiway, holding
30 apron, or other movement area would result in an aircraft fuselage or tail penetrating,
31 and (2) the alternative holding position on a taxiway during CAT II/III operations
32 necessary to maintain adequate aircraft separation. The FAA has made a corresponding
33 change to marking standards contained in AC 150/5340-1, *Standards for Airport*
34 *Markings*.

35 Figures throughout this AC also have been revised to reflect changes made to the most
36 recent version of AC 150/5345-44, *Specification for Runway and Taxiway Signs*, and in
37 some cases, several sign illustrations have been combined into a single figure.

38 4 **Application.**

39 The use of these standards is the only method of complying with requirements for
40 signing runways and taxiways at airports certificated under Title 14 Code of Federal
41 Regulations, Part 139, *Certification of Airports*. The FAA recommends the guidelines
42 and standards in this Advisory Circular for other airports. In general, the use of this AC
43 is not mandatory for other than Part 139 airports. However, use of this AC is
44 mandatory for all projects funded with federal grant monies through the Airport
45 Improvement Program (AIP) and with revenue from the Passenger Facility Charges
46 (PFC) Program. See Grant Assurance No. 34, *Policies, Standards, and Specifications*,
47 and PFC Assurance No. 9, *Standard and Specifications*.

48 5 **Principal Changes.**

49 This AC contains the following principal changes:

- 50 1. Replaced paragraph 1.4, *Developing Taxiway Designations*, with requirements from
51 Engineering Brief No. 89, *Taxiway Nomenclature Convention*.
- 52 2. Figure 2-3 is redrawn to include a new holding position for runway
53 approach/departure sign.
- 54 3. Figure 2-4 is redrawn to include a new holding position for runway
55 approach/departure sign and associated surface marking. Figure 2-5 is added to
56 show enlarged detail.
- 57 4. Figure 2-16 is redrawn for better clarity and detail.
- 58 5. New Holding Position Sign for Runway Approach/Departure Areas in conjunction
59 with the Pattern B marking are introduced (paragraph 1.5.4, Figure 2-4, and Figure
60 2-5). See FAA Technical Report DOT/FAA/TC-16/26, *Evaluation of Enhanced*
61 *Visual Cues for Runway Approach and Runway Safety Areas*, April 2016.
- 62 6. The compliance date for the new signage and appropriate markings will be two
63 years from the date of the AC being issued.

64 Hyperlinks (allowing the reader to access documents located on the internet and to
65 maneuver within this document) are provided throughout this document and are
66 identified with underlined text. When navigating within this document, return to the
67 previously viewed page by pressing the “ALT” and “ ←” keys simultaneously.

68 Figures in this document are schematic representations and are not to scale. For clarity,
69 minimal airport markings are shown on figures.

70 **6 Feedback on this AC.**

71 If you have suggestions for improving this AC, you may use the Advisory Circular
72 Feedback form at the end of this AC.

73 **John R. Dermody**
74 **Director of Airport Safety and Standards**

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GLOSSARY OF SIGN TYPES

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The following are the main categories and brief descriptions of sign types:

Sign Type	Brief Description
Boundary Signs	Boundary signs are used to identify the location of the boundary of the Runway Safety Area (RSA) /Obstacle Free Zones (OFZ) or ILS critical area for a pilot exiting the runway. The sign has a black inscription on a yellow background. See Figure 2-4 and Figure 2-11 , details a and b.
Destination Signs	A destination signs has a black inscription on a yellow background and always contain an arrow. These signs indicate the general direction to a remote location. See Figure 2-13 , details b through d.
Direction Signs	A direction sign has a black inscription on a yellow background and always contain arrows. The signs indicate directions of taxiways leading out of an intersection. The signs may also be used to indicate a taxiway exit from a runway. See Figure 2-13 , detail a.
Information Signs	These signs are installed on the airside of an airport and provide information other than mandatory holding positions, taxiway guidance, and runway distance remaining signs. An information sign has a black inscription on a yellow background.
Location Signs	These signs identify the taxiway or runway upon which the aircraft is located. The sign has a yellow inscription with a yellow border on a black background. The yellow border must be set in from inner edge of the sign to yield a continuous black margin. See Figure 2-10 , details a and b.
Mandatory Instruction Signs	A mandatory instruction sign has a white inscription (legend) with a black outline on a red background. They denote taxiway/runway intersections, runway/runway intersections, Instrument Landing System (ILS) critical areas, POFZ boundaries, runway approach/ departure areas, CAT II/III operations areas, military landing zones, and no entry areas. See Figure 2-3 , details a through e.
Runway Distance Remaining Signs	Runway distance remaining signs are used to provide distance remaining information to pilots during takeoff and landing operations. The sign has a white numeral inscription on a black background. See Figure 2-22 .
Taxiway Ending Marker	This marker sign indicates that a taxiway does not continue beyond an intersection. See Figure 2-13 , detail e.
Vehicle Roadway Signs	These are signs located on the airfield and are intended solely for vehicle operators. See Figure 2-16 .

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CHAPTER 1. RUNWAY AND TAXIWAY GUIDANCE SIGNS

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1.1 General.

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A properly designed and standardized taxiway guidance sign system is essential for the safe and efficient operation of aircraft and ground vehicles on the airport movement area. It should:

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1.1.1 Provide the ability to easily determine the designation of any pavement on which the aircraft is located.

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1.1.2 Readily identify routes toward a desired destination.

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1.1.3 Indicate mandatory holding positions, including holding positions used to maintain aircraft separation during low-visibility weather operations.

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1.1.4 Identify boundaries for approach/**departure** areas, Instrument Landing System (ILS) critical areas, the POFZ, and RSA /OFZ.

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1.2 Planning.

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Users of this Advisory Circular (AC) should recognize that the functional layout of each airport is different. Although two airports may have similar runway and taxiway configurations, the number of signs needed to provide the pilot with the necessary taxiway guidance information may differ. This difference can be attributed to several factors such as ground traffic patterns, the presence of an airport traffic control tower, the location of terminals, fixed-base operators and other facilities, the number of aircraft operations, and types of operators. In view of the differences in each airport's functional layout, the airport operator should work with the Federal Aviation Administration (FAA) to ensure that a runway and taxiway guidance sign system is developed and installed using the standards of this AC whenever practicable. The airport operator should consult with airport users during the development of the sign system. **In addition, at Part 139 airports, the airport operator should coordinate proposed changes to the Airport Signage Plan with the Regional FAA Airport Certification Safety Office as an update to the Airport Certification Manual (ACM) prior to installation of new signage.**

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1.3 Components of a Sign System.

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Overall safety is enhanced by a standardized system of signs at all airports. Paragraphs 1.5, 1.6, 1.7, 1.8, and 1.10 contain standards for different types of **runway and** taxiway guidance signs and along with paragraphs 1.13, 1.14, 1.15, and 1.17, provide information on their installation. Figures included in this chapter, as well as Appendix A show graphic depictions of these signs and common applications. The location and types of signs that should be installed as part of a runway and taxiway guidance sign system at a particular airport will vary depending upon functional layouts

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174 as discussed in paragraph [1.2](#). To decide where signs should be installed as part of this
175 system at a particular airport, the following guidelines apply:

176 1.3.1 Install a holding position sign and taxiway location sign at the holding position on any
177 taxiway that provides access to a runway.

178 1.3.2 When it is necessary to protect a navigational signal, airspace, or the RSA/OFZ, install
179 a holding position sign on any taxiway at the boundary of the ILS critical area, the
180 POFZ, or the runway approach/[departure](#) area and, as appropriate, at the CAT II/III
181 operations holding position.

182 1.3.3 Install a holding position sign on any runway that intersects with another runway.

183 1.3.4 Install a sign array consisting of taxiway direction signs prior to each taxiway/taxiway
184 intersection if an aircraft would normally be expected to turn or to hold short of the
185 intersection. The direction signs in the array should include a sign panel (taxiway
186 designation and an arrow) for each taxiway where an aircraft would be expected to turn
187 or hold short. A taxiway location sign should be included as part of the sign array
188 unless it is determined to be unnecessary. If an aircraft normally would not be expected
189 to turn or to hold short of the intersection, the sign array is not needed unless the
190 absence of guidance would cause confusion.

191 1.3.5 Install a runway exit sign along each runway for each normally used runway exit.

192 1.3.6 At uncontrolled airports (i.e., airports without an operating air traffic control tower),
193 consider whether it is preferable to substitute destination signs for the signs described in
194 paragraphs [1.3.4](#) and [1.3.5](#).

195 1.3.7 Install standard highway stop or yield signs on vehicle roadways at the intersection of
196 each roadway with a runway or taxiway. See [paragraph 1.11](#) for additional details
197 about the signs and their locations.

198 1.3.8 Install additional signs on the airfield where they are necessary to eliminate confusion
199 or provide confirmation. For example, it may be necessary to install a taxiway location
200 sign at the entrance to a taxiway from an apron area where several entrances exist.
201 Similarly, on runway exit taxiways where air traffic control regularly requests pilots to
202 report clear of the runway or where an aircraft is regularly required to stop after clearing
203 the runway, it may be beneficial to install a RSA/OFZ boundary sign to assist the pilot
204 in making this report. At complex intersections or intersections along low visibility
205 routes, it may be beneficial to install location signs on the far side of the intersection so
206 the pilot can confirm that the correct turn has been made.

207 1.4 **Developing Taxiway Designations.**

208 [The FAA recommends using the guidelines and standards in this section when](#)
209 [developing or revising an airport signage plan, an airport layout plan and for all new](#)

- 210 development projects. Until such development or revision, existing taxiways not
211 conforming to the guidance below do not need be changed.
- 212 The first step in designing a taxiway guidance sign system is to develop a simple and
213 logical method for designating taxiways. The following general guidelines should be
214 followed:
- 215 1.4.1 Keep it simple and logical.
- 216 1.4.2 Use letters of the alphabet for designating taxiways. For optimization purposes, start
217 taxiway designation at one end of the airport and continue to the opposite end, e.g., west
218 to east or north to south (see [Figure 2-2](#)).
- 219 1.4.3 A single alphabet letter (for example, A, B..., Z) must be utilized first for designating
220 taxiways. Note that parallel taxiways to a runway must use single alphabet
221 designations. A parallel taxiway is defined as a taxiway parallel to a runway that is
222 either the full length or a partial length of the runway.
- 223 1.4.3.1 Numbers by themselves, and the letters “T” and “O” must not be used
224 because they could be mistaken for a runway number.
- 225 1.4.3.2 The letter “X” must not be used because a sign with an “X” could be
226 misconstrued as indicating a closed taxiway or runway.
- 227 1.4.4 After all available single alphabetic letters have been utilized, then designate taxiways
228 with double-same alphabet letters (for example, AA, BB, ..., ZZ). Double-different
229 alphabet letters (e.g., AB, CD, ..., ZW) taxiway designations are not allowed.
- 230 1.4.5 After all available single and double same-alphabet letters have been utilized, use two-
231 character alphanumeric designations such as “A1.” (See [Figure 2-2](#).) Use a single digit
232 numeric character from 1 to 9. (See paragraph [1.4.6](#) for the use of two-digit
233 designators). Also, alphanumeric letters followed by a numeric character should not be
234 followed by an alphabetic character.
- 235 1.4.5.1 For stub taxiways at large airports with numerous taxiways, use
236 alphanumeric designations (“A1”, “A2”, “A3”, etc.). A stub taxiway is
237 defined as a taxiway that connects a runway to a parallel taxiway or a
238 taxiway to an adjacent apron area. In such instances, the stub taxiways are
239 designated as “A1”, “A2”, “A3”, etc. to promote positive location
240 identification and reduce the risk of runway incursions.
- 241 1.4.5.2 For a runway with a parallel taxiway, the entrance and exit taxiways
242 located at the ends and along the runway must use alphanumeric
243 designators and follow an increasing, sequentially numbered pattern from
244 one runway end to the other runway end, such as A1, A2, ..., A5.
- 245 1.4.5.3 For a runway with parallel taxiways on opposite sides of the runway,
246 entrance taxiways at the same runway end must use their respective

- 247 parallel taxiway's single alphabet designation with the addition of a
 248 numeric designation, such as A1 and B1. In this situation, the numeric
 249 designation on opposite sides of the runway can be the same or different,
 250 (for example, A1 and B1, or A1 and B5).
- 251 1.4.5.4 For busy or high-traffic crossing taxiways, make the taxiway designator
 252 on each side of the runway be the same. The airport operator, in
 253 consultation with the local Air Traffic Control Tower (if present),
 254 determines which taxiways constitute busy or high traffic taxiways. For
 255 all other taxiways that connect to or cross a runway, make the taxiway
 256 designations on each side of the runway different.
- 257 1.4.5.5 Number and letter combinations should not result in confusion with
 258 runway designations. For example, if an airport has a runway "4L," do
 259 not use a taxiway designation of "L4".
- 260 1.4.6 When all available two-character alphanumeric names have been used, three-character
 261 alphanumeric names such as A12, A11, etc. can be used. However, the use of these
 262 three-character alphanumeric designators is not recommended unless the total number
 263 of entrance, stub, by-pass, crossing, and exit taxiways for a runway or apron (terminal)
 264 exceeds nine.
- 265 1.4.7 Designate all separate, distinct taxiway segments.
- 266 1.4.8 Ensure no separate, distinct taxiway has the same designation as any other taxiway.
- 267 1.4.9 Do not change taxiway designations if there is no significant change in direction of the
 268 taxiing route. However, when the overall system design indicates a need, such a change
 269 can be made and appropriately signed; make such changes only at intersections. See
 270 Figure 2-14, details c and d.
- 271 1.4.10 Avoid designating taxiways that have same names as aprons, terminal ramps, or other
 272 parking areas, especially taxiways entering an apron or ramp area.
- 273 1.4.11 Do not designate taxiways by referencing a direction of travel or a physical object. This
 274 includes the use of terms such as "inner," "outer," "parallel," and "bridges." Such
 275 informal nicknames or abbreviations are not used on taxiway guidance signs. Apply a
 276 logical progression into the airfield environment when designating inner and outer taxi
 277 routes around a terminal. For example, designate an inner taxiway as "A", an outer
 278 taxiway as "B", etc.
- 279 1.5 **Mandatory Instruction Signs.**
 280 Mandatory instruction signs have white inscription with a black outline on a red
 281 background. They denote taxiway/runway intersections, runway/runway intersections,
 282 Instrument Landing System (ILS) critical areas, POFZ boundaries, runway
 283 approach/**departure** areas, CAT II/III operations areas, military landing zones, and no
 284 entry areas. At controlled airports (i.e., airports with an operating air traffic control

285 tower), vehicles and aircraft are required to hold at these signs unless cleared by air
286 traffic control. At uncontrolled airports, vehicles and aircraft may proceed beyond these
287 signs only after appropriate precautions are taken. Arrows are not used on these signs
288 except as discussed in paragraph 1.5.1.

289 1.5.1 Holding Position Sign for Taxiway/Runway Intersections.

290 The inscription on a holding position sign at a taxiway/runway intersection is the
291 runway number(s), such as “15-33”, per Figure 2-3, detail a. The runway numbers are
292 separated by a dash, and their arrangement indicates the direction to the corresponding
293 runway threshold. For example, “15-33” indicates that the threshold for runway “15” is
294 to the left and the threshold for runway “33” is to the right. The sign at each runway
295 end contains the inscription only for the takeoff runway, while all other signs contain
296 both runway designation numbers. However, both runway designation numbers should
297 be used on signs at runway ends where there is an operational need, such as where a
298 taxiway crosses the runway at the runway end. Application examples for holding
299 position signs are shown in Figure 2-4. Holding position signs are **required for**
300 **taxiway/runway intersections and** installed in-line with the holding position marking..
301 Arrows are used on holding position signs only if necessary to clarify the orientation of
302 runways at the intersection of a taxiway with more than one runway (see Figure 2-6).
303 Note that in Figure 2-6, detail b, the holding position signs have both runway numbers
304 to avoid confusion about the runway direction. In some geometrical configurations of
305 runways and taxiways, it is necessary to install holding position signs on both sides of
306 the taxiway. These configurations include:

307 1.5.1.1 Taxiways that are 150 feet or greater in width (see Figure 2-4).

308 1.5.1.2 Taxiways where the painted holding position markings extend across an
309 adjacent holding bay as shown in Figure 2-7, detail a.

310 1.5.1.3 Taxiways where the painted holding position markings do not extend
311 straight across the taxiway, as shown in Figure 2-7, detail c.

312 1.5.1.4 Taxiways where the painted holding position markings are located a short
313 distance from an intersection with another taxiway. In this situation, the
314 pilot turning onto the taxiway would have difficulty seeing the holding
315 position sign on the left. This commonly occurs when the separation
316 distance between the runway and the parallel taxiway is less than standard
317 and the holding position markings are located near the edge of the parallel
318 taxiway (see Figure 2-7 detail b). Because of cockpit visibility limitations,
319 pilots of some aircraft making a left turn from the parallel taxiway onto
320 the connecting taxiway would have difficulty seeing a sign on the left. In
321 this situation, it may be necessary to install the sign on an angle (canted)
322 in accordance with **paragraph 1.13.16**.

323 1.5.2 Holding Position Sign for Runway/Runway Intersections.

324 Holding position signs are used to identify runway/runway intersections and are
325 identical to the signs used for taxiway/runway intersections.

326 1.5.2.1 For runways that are 150 feet (45 meters) or less in width, only one sign is
327 required on the left side of the runway to identify a runway/runway
328 intersection. The sign must be installed per the locations in AC 150/5300-
329 13A, Airport Design, Table 3-5. (Use the “Runway Centerline to
330 Holdline” item in the table to determine the holding position sign
331 location.)

332 1.5.2.2 For runways that are more than 150 feet (45 meters) in width, the holding
333 position signs must be used on both sides of the runway to identify an
334 intersecting runway. The sign location is the same as that required in
335 paragraph 1.5.2.1.

336 1.5.2.3 For runways of any width that are used for land and hold short operations
337 (LAHSO), signs on both sides of the runway and associated painted
338 marking are required (see). The sign location is the same as that required
339 in paragraph 1.5.2.1.

340 1.5.2.4 If a runway is normally used as taxiway, whether or not aircraft go
341 through a runway/runway intersection, then both holding position signs
342 and associated painted marking are required (see Figure 2-8).

343 1.5.3 Holding Position Sign for ILS Critical Areas/POFZ Boundary.

344 The inscription on a sign to indicate either the holding position for the ILS Critical Area
345 or the POFZ boundary is the same — the abbreviation “ILS” (see Figure 2-3, detail b).
346 If a microwave landing system (MLS) is available and has a more demanding critical
347 area boundary than the ILS or POFZ, the inscription on the sign is MLS. Holding
348 position signs are installed in-line with the associated painted marking.

349 1.5.3.1 Where the distance between the runway holding position marking and the
350 holding position marking for an ILS critical area is 50 feet or less, one
351 holding position sign and marking may be installed, provided it will not
352 affect capacity. In such cases, the airport operator may use the runway
353 holding position sign and marking to delineate both the boundary of the
354 RSA and the ILS critical area. In this instance, the runway holding
355 position sign and marking is located at the boundary that is the farthest
356 from the runway edge (see Figure 2-9).

357 1.5.3.2 If a runway, taxiway, holding apron, or any movement area would result
358 in an aircraft fuselage or tail penetrating the POFZ, install one holding
359 position sign and marking to delineate the ILS critical area and the POFZ.
360 **Runways with a displaced threshold and CAT I or better minima must**
361 **exercise caution as POFZ penetrations could occur on the parallel taxiway.**

362 This holding position sign and marking is located at the more conservative
 363 boundary of these two areas (see [Figure 2-4](#)). In this instance, the ILS
 364 critical area/POFZ boundary holding position sign and marking cannot be
 365 replaced with, or used in lieu of, a runway holding position sign or
 366 marking.

367 1.5.3.3 The **airport sponsor will** designate the ILS (or MLS) critical area and
 368 POFZ boundaries **for review and concurrence by the responsible FAA**
 369 **Airports office**. The holding position sign for the ILS critical area or
 370 POFZ boundary is located on both sides of the taxiway when the holding
 371 position marking for the ILS critical area or POFZ boundary is located in
 372 the geometrical configurations described in paragraphs [1.5.1.1](#) through
 373 [1.5.1.4](#).

374 1.5.4 Holding Position Sign for Runway Approach/Departure Areas.

375 The inscription on a sign for a runway approach/**departure** area is the associated **and**
 376 **complete** runway designation followed by a dash and the abbreviation
 377 “**##APCH-##DEP**” (see [Figure 2-3](#), **detail c**, and [Figure 2-4](#) for examples). The sign is
 378 installed on taxiways located in approach/**departure** areas where an aircraft on a taxiway
 379 would either **enter** or penetrate the airspace required for the approach or departure
 380 runway (including clearway). **This holding position sign is** installed in-line with the
 381 associated painted marking. This sign is not installed on runways (see **note 2 below**).
 382 **Where the distance between holding position markings for an ILS critical area and**
 383 **approach/departure area is 50 feet or less, the ILS holding position sign can be co-**
 384 **located with approach/departure holding position sign. In this instance, the sign and the**
 385 **associated marking is located at the boundary that is the farthest from the runway edge.**
 386 **(See [Figure 2-4](#) for example.) For approved End Around Taxiways (EATs),**
 387 **approach/departure signs are not required as aircraft are permitted to taxi without**
 388 **approval from ATC.**

389 **Note 1:** Consult with local air traffic personnel to ensure minimal impact to taxiing
 390 aircraft flow and capacity.

391 **Note 2:** The approach/hold sign may be installed on a runway for purpose such as snow
 392 removal operator’s situational awareness.

393 1.5.5 Holding Position Sign for CAT II/III Operations.

394 The inscription on a holding position sign for CAT II/III operations is the associated
 395 runway designation followed by a dash and the abbreviation “CAT II/III” for Category
 396 II/III operations (see [Figure 2-3](#), **detail d**). The sign is installed on a taxiway that is
 397 parallel to a runway used during CAT II/III operations to indicate where aircraft are to
 398 hold during CAT II/III operations to ensure proper aircraft separation. The regional
 399 FAA Airports office will determine the holding position location for CAT II/III
 400 operations for the airport operator. The holding position sign for CAT II/III operations
 401 is located on both sides of the taxiway when the holding position marking for CAT

402 II/III operations is located in the geometrical configurations described in paragraphs
403 1.5.1.1 through 1.5.1.4.

404 1.5.6 Holding Position Sign for Military Landing Zones.

405 The inscription on a holding position sign located at the intersection of a taxiway or
406 designated runway and a military landing zone/assault strip that does not have a runway
407 designation is: "MIL LZ". The sign should be collocated with a taxiway location sign
408 and runway holding position markings. See AC 150/5300-13A, paragraph 315a, Table
409 3-5, for the location of the sign. The MIL LZ sign has been coordinated with the
410 Department of Defense FAA Liaison Detachment and Air Traffic Control Flight
411 Procedures.

412 1.5.7 No Entry Sign.

413 This sign indicates that entry into a particular area is prohibited to aircraft and is
414 installed on the left side as seen by the pilot approaching the prohibited area. In some
415 pavement configurations, it may be necessary to install the sign on both the left and
416 right sides. The sign should be located adjacent to the pavement where entry is
417 prohibited rather than prior to the intersection. The sign inscription is shown in Figure
418 2-3, detail e.

419 **Note:** For a taxiway that is used only as an exit from a runway, it is permissible to
420 install a No Entry Sign. However, this sign may never be installed in lieu of the
421 runway/taxiway holding position sign. The sign should be installed on the taxiway
422 prior to the holding position sign.

423 1.6 **Location Signs.**

424 Location signs identify the taxiway or runway upon which the aircraft is located. A
425 location sign has a yellow inscription with a yellow border on a black background. The
426 yellow border must be set in from the inner edge of the sign to yield a continuous black
427 margin. The location sign does not contain arrows. Location signs include the
428 following:

429 1.6.1 Taxiway Location Sign.

430 This sign identifies the taxiway on which an aircraft is located. A typical sign is shown
431 in Figure 2-10, detail a.

432 1.6.2 Runway Location Sign.

433 This sign is installed on runways where the proximity of two runways could create
434 confusion, as shown in Figure 2-6, detail b. This sign also is installed on runways at
435 runway/taxiway intersections used for intersection takeoffs. A typical sign is shown in
436 Figure 2-10, detail b. This sign is located to clearly identify the runways for pilots and
437 only contains the runway designation for the one runway end.

438 1.7 **Boundary Signs.**

439 These signs are used to identify the boundary of the RSA/OFZ or ILS critical area for a
440 pilot exiting the runway.

441 1.7.1 RSA/OFZ and Runway Approach/Departure Boundary Sign.

442 This sign identifies the boundary of the RSA/OFZ or the runway approach/departure
443 area for pilots who are exiting these areas. It has a black inscription that depicts the
444 holding position marking on a yellow background, as shown in [Figure 2-11, detail a](#).
445 The sign is typically used only at controlled airports at the request of the airport traffic
446 control tower and is located on taxiways where the controller commonly asks the pilot
447 to report “clear of the runway” or where an aircraft is regularly required to stop upon
448 exiting the runway – see [Figure 2-4](#) for examples. The pilot can use the sign as a guide
449 in deciding when to report back to the controller. Consequently, the sign would not
450 normally be installed at every runway exit or on taxiways having green/yellow color-
451 coded centerline lights. However, this sign may be useful in areas where the centerline
452 lights could be obscured by snow or ice.

453 1.7.2 ILS Critical Area/POFZ Boundary and CAT II/III Operations Sign.

454 This sign identifies either the boundary of the ILS critical area, or the POFZ, or the
455 holding position for CAT II/III operations. The sign has a black inscription that depicts
456 the ILS holding position marking on a yellow background, per [Figure 2-11, detail b](#).
457 This sign is used at controlled airports on taxiways where the controller commonly asks
458 pilots to report, “clear of the ILS critical area” when exiting these areas. The pilot can
459 use the sign as a guide in deciding when to report back to the controller. This sign
460 would not normally be installed on taxiways having green/yellow color-coded
461 centerline lights but may be desirable in areas where the centerline lights could be
462 obscured by snow or ice. This sign is installed only on the reverse side of an ILS,
463 POFZ, or CAT II/III operations holding position sign (see [Figure 2-4](#) for examples).

464 1.8 **Direction Signs.**

465 These signs indicate directions of other taxiways leading out of an intersection. The
466 signs have black inscriptions on a yellow background and always contain arrows. The
467 arrows should be oriented to approximate the direction of turn. Generally, orienting the
468 arrows in increments of 22.5 degrees (0, 22.5, 45, 67.5, and 90 degrees) should be
469 sufficient for most signs. Direction signs are not to be collocated with holding position
470 signs or boundary signs or installed between the holding position marking and the
471 runway. **When there is inadequate space between the holding position marking and an
472 intersecting taxiway, locate the direction signs on the far side of the intersecting
473 taxiway.** Signs used to indicate the direction of taxiways on the opposite side of a
474 runway are located on the opposite side of the runway.

475 1.8.1 **Taxiway Direction Sign.**

476 A typical taxiway direction sign is shown in [Figure 2-13, detail a](#). Application
477 examples are shown in [Figure 2-14](#), [Figure 2-15](#), and [Appendix A, Figure A-1, Figure](#)
478 [A-2](#), and [Figure A-3](#).

479 1.8.2 **Runway Exit Sign.**

480 A typical runway exit sign is shown in [Figure 2-13, detail a](#), and application examples
481 are shown in [Appendix A, Figure A-1, Figure A-2](#), and [Figure A-3](#). Signs for runway
482 exits are located prior to the runway/taxiway intersection on the side and in the direction
483 to which the aircraft is expected to exit. “Bracketing” a runway exit sign (where a sign
484 is placed before and after the exit) is not permitted. A runway exit sign should never
485 have more than one arrow for each taxiway designation shown on the sign.

486 1.8.2.1 If a taxiway crosses a runway and an aircraft can be expected to exit on
487 either side, then exit signs are located on both sides of the runway.

488 1.8.2.2 For taxiways that are intended only to be used as exits from the runway in
489 one direction, such as taxiways located near the end of the runway or
490 intersecting the runway at an acute angle, the signs should be installed
491 only for the runway direction in which they are intended to be used (see
492 [Appendix A](#)).

493 1.8.2.3 When two acute-angle taxiways (i.e., high speed exits) are intended to be
494 used in opposite directions and intersect the runway at a common point,
495 the exit signs are located prior to each runway exit rather than in the area
496 between the two exits (see [Appendix A, Figure A-1, Taxiways D and E](#)).

497 1.9 **Taxiway Ending Marker.**

498 A taxiway ending marker sign indicates that a taxiway does not continue beyond an
499 intersection. The sign is a frangible retroreflective barrier installed on the far side of an
500 intersection if the normal visual cues, such as marking and lighting, are inadequate (see
501 [Figure 2-12](#) and [Figure 2-13, detail e](#)). See [AC 150/5345-44, Specification for Runway](#)
502 [and Taxiway Signs](#), for stripe dimensions and additional information.

503 1.10 **Destination Signs.**

504 A destination sign has a black inscription on a yellow background and always contains
505 an arrow. This sign indicates the general direction to a remote location. At many larger
506 airports, taxiway routing is a dynamic process, dependent on many variables, including
507 airfield construction and runway use. In such cases, destination signs may provide
508 information that conflicts with air traffic control direction. Therefore, use destination
509 signs at such airports only in cases of remote locations and/or where taxiway location
510 signs and direction signs alone would not adequately guide a pilot to the desired
511 destination. Destination signs are more beneficial at uncontrolled airports. Signs
512 indicating two different directions to the same destination should not be installed so

513 they are visible from the same point because the conflicting routing information can
514 create confusion.

515 1.10.1 Outbound Destination Sign.

516 Outbound destination signs identify directions to takeoff runways. These routes usually
517 begin at the entrance to a taxiway from an apron area. The inscription is the runway
518 number plus an arrow indicating the direction (see [Figure 2-13, detail b](#)). More than
519 one runway number, separated by a dot, may be shown where the taxiing route is
520 common to both runways (see [Figure 2-13, detail c](#)). The outbound destination sign
521 should always direct the pilot to the beginning of a takeoff runway.

522 1.10.2 Inbound Destination Sign.

523 Major destination areas are usually shown on inbound destination signs. For example,
524 at many airports, signs indicating the route to the apron may be adequate; whereas, at
525 other airports, it may be necessary to make a distinction between passenger aprons,
526 cargo aprons, and military aprons or between aprons in different locations on the
527 airport, such as the north apron, east apron, etc. Sign inscriptions should be consistent;
528 do not use two different inscriptions for the same area (e.g. RAMP and APRON). At
529 points closer to the major destination areas, more detailed destination signs should be
530 provided to indicate specific areas that are designated for parking service, passenger
531 handling, military aircraft, etc. (see [Figure 2-13, detail d](#), for a typical sign). The
532 inscription on destination signs should contain a minimum of three letters, selected so
533 that there is no confusion with other taxiway guidance signs. Common names and
534 abbreviations used for inbound destinations are:

- 535 • **APRON** - general parking, servicing, and loading areas
- 536 • **RAMP** - synonymous with APRON
- 537 • **FUEL** - areas where aircraft are fueled or serviced
- 538 • **TERM** - gate positions at which aircraft are loaded or unloaded
- 539 • **CIVIL** - areas set aside for civil aircraft
- 540 • **MIL** - areas set aside for military aircraft
- 541 • **PAX** - areas set aside for passenger handling
- 542 • **CARGO** - areas set aside for cargo handling
- 543 • **INTL** - areas set aside for handling international flights
- 544 • **FBO** - fixed-base operator

- 545 **1.11 Vehicle Roadway Signs.**
- 546 1.11.1 Install standard highway stop signs (see [Figure 2-17](#)) on vehicle roadways at the
 547 intersection of each roadway with a runway or taxiway. At airports **with Air Traffic**
 548 **Control Towers**, unless there is a letter of agreement with the air traffic control allowing
 549 drivers to cross taxiways without clearance, install “DO NOT PROCEED CONTACT
 550 ATC” signs (see [Figure 2-19](#)) on vehicle roadways instructing the driver not to proceed
 551 without clearance from air traffic control.
- 552 1.11.2 For an airport with more than one runway, where vehicle service roads enter or intersect
 553 a runway, a standard retroreflective runway holding position sign L-858R, Size 1, Style
 554 4, (see [AC 150/5345-44](#) for additional information about unlighted mandatory
 555 instruction signs) should be installed to help vehicle operators maintain their situational
 556 awareness when approaching runways and provide a visual reference to aid in
 557 identifying them. The holding position sign **should** be installed separately **from** the
 558 STOP and DO NOT PROCEED signs. For the holding position sign, the runway
 559 designations must be arranged to indicate the direction to the corresponding runway
 560 threshold. See [Figure 2-16](#) for an example of a typical installation of stop, holding
 561 position, and information signs.
- 562 1.11.2.1 The holding position sign should be **located outboard of the STOP sign**. It
 563 **should be** installed **at** a minimum of 2 feet (0.6 m) from the outermost
 564 edge of the STOP sign.
- 565 1.11.2.2 The holding position sign long dimension must be level.
- 566 1.11.2.3 The holding position sign must use a minimum of two support legs
 567 (additional support legs may be necessary for signs using wide characters)
 568 to provide adequate stability in windy conditions.
- 569 1.11.2.4 The holding position sign maximum height must not exceed 30 inches (0.9
 570 meter) above grade (measured from the top edge of the sign to grade).
- 571 1.11.3 All signs installed on the roadway near a runway must be installed outside the runway
 572 safety area (RSA) and not intrude into the **obstacle** free zone (OFZ) surfaces. See Table
 573 3-5 of [AC 150/5300-13A](#) for RSA and OFZ surfaces and dimensions.
- 574 1.11.4 All signs located in the taxiway area must be installed outside the **Taxiway Object Free**
 575 **Area (TOFA)**. See [AC 150/5300-13A](#), Table 4-1, for **TOFA** dimensional standards.
- 576 1.11.4.1 To increase vehicle driver situational awareness, a type L-858Y, size 1,
 577 style 4, taxiway **direction** sign may be installed with the STOP/DO NOT
 578 PROCEED CONTACT ATC sign at locations where a vehicle service
 579 road intersects a taxiway.
- 580 1.11.4.2 The taxiway **direction** sign should be installed as a separate assembly
 581 located a minimum of 2 feet (0.6 m) outboard from the outermost edge of
 582 the STOP sign. The sign height must be no greater than 30 inches (0.9

583 meter) above grade (measured from the top edge of the sign to grade).
 584 Two support legs must be used at all installations to provide adequate sign
 585 stability in windy conditions.

586 1.11.5 Where vehicle **service roads enter or intersect an ILS critical area or a POFZ, an ILS**
 587 **holding position sign L-858R, Size 1, Style 4, (see [AC 150/5345-44](#) for additional**
 588 **information about unlighted mandatory instruction signs) should be installed to help**
 589 **vehicle operators maintain their situational awareness when approaching these areas.**

590 1.11.6 Aircraft clearance requirements and jet blast may preclude the use of the signs shown in
 591 [Figure 2-16](#) on roadways that are located on the apron or other parts of the air
 592 operations area.

593 1.11.7 Where possible, signs located on the airfield that are intended solely for vehicle
 594 operators should conform to the standards in the Federal Highway Administration
 595 (FHWA) publication Manual on Uniform Traffic Control Devices (MUTCD) for Streets
 596 and Highways. The manual is available at <https://mutcd.fhwa.dot.gov>. The sign
 597 location, size, and installation criteria may have to be varied from the manual so that
 598 they do not conflict with the airfield environment (e.g., wing tip clearances). See [Figure](#)
 599 [2-16](#), [Figure 2-17](#), [Figure 2-18](#), and [Figure 2-19](#) for vehicle roadway sign dimensions.

600 1.12 **Information Signs.**

601 Information signs are signs that are installed on the airside of an airport, other than
 602 mandatory instruction signs, taxiway guidance signs (as described in this chapter) and
 603 runway distance remaining signs (described in [Chapter 2](#), paragraph [2.2](#)). An
 604 information sign has a black inscription on a yellow background, and provide adequate
 605 clearance to aircraft. Examples of information signs are: noise abatement procedures,
 606 crossing vehicle roadways, or other specialized information. These signs need not be
 607 lighted, and the size and message of the inscription is at the discretion of the airport
 608 operator; however, they should be retro-reflective and mounted on frangible couplings
 609 per paragraph [1.17](#)). In addition, care should be taken to ensure that information signs
 610 do not take on the appearance of a taxiway direction or destination sign.

611 1.12.1 VOR Receiver Checkpoint Sign.

612 This sign has an overall mounting height of not less than 24 inches (61 cm) and not
 613 more than 30 inches (76.2 cm). It is located as nearly as practicable on an extension of
 614 the VOR Receiver Checkpoint Marking diameter line and faced perpendicularly to the
 615 line-of-sight of the viewer in the circle.

616 1.12.1.1 The inscription on the sign shows the facility identification, channel, radial
 617 selected (published) for the check, and the plotted distance from the
 618 antenna (when applicable).

619 1.12.1.2 The station identification and course numerals are at least 7 inches (17.8
 620 cm) high and the other letters and numerals at least 3 inches (7.6 cm) high.

621 1.12.1.3 The sign is installed in accordance with the height and distance standards
 622 in Table 1-1. An example of this sign is shown in Figure A-4. (See AC
 623 150/5340-1, *Standards for Airport Markings*, paragraph 37, for more
 624 details about the VOR Receiver Checkpoint Markings.)

625 1.13 General Signing Conventions.

626 1.13.1 Unless otherwise stated, signs are always placed on the left side of the taxiway as seen
 627 by the pilot of the approaching aircraft (see exceptions in paragraph 1.13.2). If signs are
 628 installed on both sides of the taxiway at the same location, the sign faces are identical,
 629 except for holding position signs, as explained in paragraph 1.13.4, where the taxiway
 630 location signs are located outboard of the runway holding position sign. There is also
 631 an exception for runway exits, where an RSA/OFZ boundary sign is installed on the
 632 right side of the exit taxiway and if a taxiway direction sign is needed, then a taxiway
 633 direction sign maybe installed on the left side. Signs are not installed between the
 634 taxiway/runway holding position sign and the runway.

635 1.13.2 Signs may be located on the right side of the taxiway when necessary to meet clearance
 636 requirements or where it is impractical to install them on the left side because of terrain
 637 or conflicts with other objects.

638 1.13.3 Some signs may be installed on the back side of other signs, although it may result in
 639 the sign being on the right side of the taxiway. Signs that may be installed in this
 640 manner include:

641 1.13.3.1 RSA/OFZ and runway approach/**departure** area boundary signs (see Figure
 642 2-11, **detail a**), which may be installed on the back of taxiway/runway
 643 intersection holding position sign and runway approach/**departure** area
 644 holding position sign (see Figure 2-4).

645 1.13.3.2 ILS critical area boundary signs (see Figure 2-11, **detail b**), which may be
 646 installed on the back of ILS critical area holding position signs (see Figure
 647 2-3, **detail b**, and Figure 2-4).

648 1.13.3.3 Taxiway location signs, which may be installed on the back of direction
 649 signs when they are installed on the far side of an intersection.

650 **Note:** Location signs installed in this manner do not negate the need for
 651 location signs installed on the left of the runway holding position sign
 652 prior to the intersection.

653 1.13.3.4 Taxiway location signs, which may be installed on the back of holding
 654 position signs (see Figure 2-4, Taxiways A and B).

655 1.13.3.5 Destination signs, which may be installed on the back of direction signs on
 656 the far side of intersections when the destination referred to is straight
 657 ahead (see Appendix A, Figure A-1).

- 658 1.13.4 Taxiway location signs installed in conjunction with holding position signs for
659 taxiway/runway intersections are installed outboard of the holding position sign (see
660 Figure 2-4, Taxiway B).
- 661 1.13.5 Location signs are normally included as part of a direction sign array, which is located
662 prior to the taxiway intersection. Except for intersections of only two taxiways (see
663 paragraph 1.13.8), the location sign is placed in the array so the designations for all
664 turns to the left are located to the left of the location sign; the designations for all turns
665 to the right or straight ahead, when required (see paragraph 1.13.7), are located to the
666 right of the location sign (see Figure 2-14).
- 667 1.13.6 When more than one taxiway direction sign is installed at the same location, the
668 designations of the intersecting taxiways and their respective arrows are arranged left to
669 right in a clockwise manner, starting from the taxiway or runway on which the aircraft
670 is located (see Figure 2-14).
- 671 1.13.7 All direction signs have arrows. Arrows on signs are oriented to the approximate
672 direction of the turn. Except as noted in paragraph 1.13.8, each designation appearing
673 in an array of direction signs is accompanied by only one arrow. A direction sign with
674 an arrow indicating that a taxiway continues straight ahead (25 degrees or less change in
675 alignment at the intersection) is not normally needed. Where the intersection alignment
676 changes more than 25 degrees, a sign with an arrow approximating the direction of the
677 taxiway is used (see Figure 2-14, detail b). If the taxiway continues straight ahead (25
678 degrees or less change in alignment) and the designation of the taxiway changes at the
679 intersection, then a direction sign with an arrow is used (see Figure 2-14, detail d).
- 680 1.13.8 When a taxiway intersection comprises only two crossing taxiways, it is permissible to
681 use a double arrow direction sign in place of separate direction sign panels (see Figure
682 2-14, detail a). In this case, the location sign panel is on the left side of the sign array.
683 For this type of installation, the taxiway that the pilot is on may not change designation
684 or alignment (more than 25 degrees) on the other side of the intersection (see Figure
685 2-14, details b and c).
- 686 1.13.9 In some cases, location signs may not be needed in conjunction with direction signs (see
687 Figure 2-15). In analyzing the need for a location sign, all information concerning the
688 intersection must be considered. This would include but is not limited to:
- 689 • Complexity of the intersection layout.
 - 690 • Distance from the last location sign.
 - 691 • Complexity of prior intersections.
 - 692 • Traffic flow patterns through the intersection.
 - 693 • Visibility conditions under which the intersection is used.
- 694 1.13.10 Destination signs are usually installed in advance of intersections prior to turns.
695 However, they may also be installed on the far side of an intersection when the taxiway
696 route continues ahead and the destination sign is installed on the back of another sign,

- 697 as shown in [Figure A-1](#) for east bound traffic on Taxiway Bravo approaching Taxiway
698 Charlie. Destination signs usually are not collocated with other signs because it could
699 result in abnormally long signs.
- 700 1.13.11 Information signs are not collocated with mandatory instruction, location, direction, or
701 destination signs.
- 702 1.13.12 Each designation and its associated arrow included in an array of direction signs or
703 destination signs are delineated from the other designations in the array by a black
704 vertical border. When it is appropriate, a location sign may be used to provide this
705 delineation (see [Figure 2-15](#)).
- 706 1.13.13 On a sign face, a dot means “and.” It is used on signs where one arrow is common to
707 two designations. For example, if the routes to two different runway ends involve the
708 same taxiways, the runway numbers appearing on an outbound destination sign would
709 be separated by a dot; the directional arrow on the sign face would be applicable to both
710 runway ends. See [Figure 2-13](#), [detail c](#).
- 711 1.13.14 A dash is used only with mandatory instruction signs. On these signs, a dash is used to
712 separate the designations for opposite ends of the same runway (for example: 18-36) or
713 to separate the runway designation from the abbreviation “APCH” or “DEP” on holding
714 position signs for runway approach/[departure](#) areas. See [Figure 2-3](#).
- 715 1.13.15 When replacing sign panels due to damage or changing message elements, the entire
716 message element should be replaced. This will avoid panel-to-panel color changes that
717 may be distracting to pilots. See [AC 150/5345-44](#) for additional information about
718 replacement sign panels.
- 719 1.13.16 A sign may be “canted” or angled towards the pilot’s line of vision when necessary to
720 improve its visibility. This situation is illustrated in [Figure 2-7](#), [detail b](#) where a pilot
721 would have difficulty seeing the sign on the left due to its proximity to the edge of the
722 parallel taxiway. The face of a canted sign should be oriented so that it is perpendicular
723 to the aircraft fuselage of the airplane with the longest wheelbase. The back of a canted
724 sign is not available for use because it may not be visible to pilots.
- 725 1.13.17 When using two separate signs in an array, do not separate message elements between
726 the two signs. For example, do not locate the arrow for a sign panel on a separate sign
727 in the array. To extend an existing sign (i.e., physically increase its length by adding
728 modules to it) all of the following requirements must be met:
- 729 • The existing sign must meet the all the requirements in [AC 150/5345-44](#).
 - 730 • The length of the sign (existing plus extension) cannot exceed the maximum overall
731 length limitations per [AC 150/5345-44](#).
 - 732 • Unless the extension involves the addition of only a location sign, the sign face
733 (existing plus extension) must be per [AC 150/5345-44](#) for legend, borders, arrows,
734 spacing, and color.

- 735 • The extension must meet the electrical and frangibility requirements in AC
736 150/5345-44.
- 737 • The separation between individual sign housings meets the requirements in AC
738 150/5345-44.

739 1.14 **Sign Size and Location.**

740 Signs are to be manufactured and installed in accordance with the current version of AC
741 150/5345-44.

742 1.14.1 Sign Size.

743 Three sizes (heights) of signs are available (see Table 1-1).

744 1.14.2 Choosing a Sign Size.

745 The choice of a particular size must take into account several factors, such as
746 effectiveness, aircraft clearance, jet blast, and snow removal operations. Normally, the
747 larger the sign and the closer it is located to the runway or taxiway edge, the more
748 effective it is. However, aircraft clearance requirements and jet blast effects require
749 smaller signs when located near the pavement edges, while effectiveness requires larger
750 signs when located at further distances. Also, the effects of snow removal operations on
751 the signs should be considered in the choice of sign size and location.

752 1.14.3 Sign Clearances.

753 The sign used must provide 12 inches (30 cm) of clearance between the top of the sign
754 and any part of the most critical aircraft using, or expected to use, the airport when the
755 aircraft's wheels are at the defined pavement edge. All signs in an array, e.g., a
756 runway/taxiway holding position sign array consisting of a runway holding position
757 sign and a taxiway location sign, are the same size and same height.

758 1.14.4 Runway Holding Position Sign Locations.

759 The distances shown in AC 150/5300-13A, paragraph 315a, Runway Holding Position
760 (hold line), and Table 3-5, are used in determining the location of runway holding
761 position signs. Holding position signs are located in-line with the holding position
762 markings; a tolerance of up to 10 feet (3m) farther away from runway centerline than
763 the holding position marking is allowed. Also, use Table 1-1 below to determine the
764 distance of runway signs from the pavement edge.

765 1.14.5 Taxiway Sign Locations.

766 The distances used in determining the sign locations at intersecting taxiways are shown
767 in Table 4-1, Item "Taxiway Centerline to Fixed or Movable Object," of AC 150/5300-
768 13A. Use the values for the largest airplane design group serving the airport. For signs

769 installed at holding positions, the signs are in-line with the holding position markings; a
 770 tolerance of up to 10 feet (3 m) farther away from runway centerline than the holding
 771 position marking is allowed. Where there is no operational need for taxiway holding
 772 position markings (at taxiway/taxiway intersections), the signs may be installed in the
 773 area from the taxiway point of tangency to the location where holding position
 774 markings would be installed (see [AC 150/5300-13](#) for additional marking location
 775 information). However, locating the signs where the holding position marking would
 776 be installed avoids the need to relocate the signs if the operational need for a taxiway
 777 holding position develops in the future. Also, use [Table 1-1](#) below to determine the
 778 distance of taxiway signs from the taxiway edge.

779 **Table 1-1. Sign Heights and Location Distances for Taxiway Guidance Signs**

Sign Size	Legend Height [inches (cm)]	Legend Panel Height [inches (cm)]	Installed (max.)* [inches (cm)]	Perpendicular distance from defined pavement edge to near side of sign [feet (m)]
1	12 (30)	18 (46)	30 (76)	10-20 (3-6)
2	15 (38)	24 (61)	36 (91)	20-35 (6-10.5)
3	18 (46)	30 (76)	42 (107)	35-60 (10.5-18)

780 **Note:** * The height referred to in this column is the distance from top of the sign to
 781 grade measured at the side of the sign that is nearest to the applicable runway, taxiway,
 782 or apron. In accordance with paragraph [1.14](#), this height should be reduced, if
 783 necessary, to provide the required 12-inch clearance between the top of the sign and the
 784 critical aircraft.

785 1.15 Sign Operation.

786 Holding position signs for runways, ILS critical areas, approach/**departure** areas, and
 787 their associated taxiway location signs are illuminated when the associated runway
 788 lights are illuminated. **The holding position sign must be illuminated at these locations**
 789 **when the runway lights are not illuminated.** Runway exit signs are illuminated when
 790 the associated runway lights are illuminated. Other taxiway guidance signs are
 791 illuminated when the associated taxiway lights are illuminated. Lighted signs are
 792 installed with a power source that will ensure consistent illumination and eliminate
 793 varying illumination when runway/taxiway lights are activated at all brightness steps.
 794 For additional information about power sources required to illuminate signs, see [AC](#)
 795 [150/5345-44](#).

796 1.16 Painted Signs on Pavement.

797 Where signs cannot be installed and/or there is a need for additional guidance,
 798 directional guidance or location information may be painted on the pavement. See [AC](#)
 799 [150/5340-1](#) for additional information and requirements for adding painted signs on
 800 pavement.

801 1.17 **Installation.**

802 The signs are mounted on a concrete slab, concrete pedestals, or angle iron stakes so the
803 top of the sign is level. The concrete edges or stakes may not protrude above grade.
804 Signs are oriented so that the face is perpendicular to the centerline of the taxiway or
805 runway. For special situations where visibility would be improved, single-sided signs
806 may be canted. Power to the signs is provided through breakaway cable connectors
807 installed within the frangible coupling portion of the sign's mounting legs. Auxiliary
808 equipment, such as isolation transformers or series circuit power adapter units, is
809 installed below ground level in an L-867 light base. *See [AC 150/5340-30](#), [Design and](#)
810 [Installation Details for Airport Visual Aids](#), for installation details.*

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812

CHAPTER 2. RUNWAY DISTANCE REMAINING SIGNS813 2.1 **General.**

814 Runway distance remaining signs are used to provide distance remaining information to
815 pilots during takeoff and landing operations. Declared distances do not affect the
816 location of runway distance remaining signs. **Runway distance remaining signs per the
817 standards of this chapter are intended to serve runways with frequent turbojet aircraft
818 operations at commercial service airports.**

819 2.2 **Description.**820 2.2.1 Runway Distance Remaining Sign.

821 The signs are located along the side(s) of the runway, and the inscription is a white
822 numeral on a black background, as shown in Figure 2-20 to indicate the runway
823 distance remaining in increments of 1,000 feet.

824 2.2.2 One-Half Distance Remaining Sign.

825 The sign inscription is a white 1/2 numeral on a black background per Figure 2-21. The
826 one-half distance remaining sign is only used in the take-off direction on unpaved
827 runways less than 3000 feet in length where both ends of the runway are not readily
828 visible. The sign identifies the point on the runway where one-half the takeoff distance
829 remains. The one-half distance remaining sign must not be used in combination with
830 runway distance remaining signs.

831 2.3 **Configuration.**

832 2.3.1 The runway distance remaining signs may be configured by any of three different
833 methods, as shown in Figure 2-22 and as described below. Displaced threshold areas
834 that are used for takeoffs and/or rollout are treated as part of the runway for purposes of
835 locating the signs. The method chosen should be based on cost considerations and
836 adaptability to the specific airport configuration. When using the preferred method or
837 alternate method #2 for runway lengths that are not an exact multiple of 1,000 feet, one-
838 half of the excess distance is added to the distance of each sign from each runway end.
839 For example, for a runway length of 6,500 feet, the excess distance is 500 feet and the
840 location of the last sign on each runway end is 1,000 feet plus 1/2(500) or 1,250 feet. If
841 a sign cannot be installed at its standard location, a tolerance of **±50 feet (1200 ft to
842 1300 ft, for the example in Figure 2-22)** is allowed for that sign, **although no sign be
843 located closer than 1000ft from the runway end.** The sign should be omitted if it cannot
844 be installed within this tolerance.

- 845 2.3.1.1 **Preferred Method.**
846 The most economical installation consists of double-faced signs located on
847 only one side of the runway. Where this method is used, the signs should
848 be placed on the left side of the runway as viewed from the most often
849 used direction. However, the signs may all be placed on the right side of
850 the runway where necessary because of runway/taxiway separation
851 distances or conflicts between intersecting runways or taxiways.
- 852 2.3.1.2 **Alternate Method #1.**
853 This method uses single-faced signs installed on both sides of the runway.
854 The advantage of this method is that the runway distance remaining can be
855 more accurately reflected in cases where the runway length is not an exact
856 multiple of 1,000 feet.
- 857 2.3.1.3 **Alternate Method #2.**
858 This method uses double-faced signs installed on both sides of the runway.
859 The advantage of this method is that if a sign on one side of the runway is
860 removed because of clearance conflict, the information will still be
861 displayed on the other side of the runway.
- 862 2.3.2 The one-half runway distance remaining sign is installed on the left side of the most
863 used runway direction for takeoff operations only. The location of the sign must mark
864 the midpoint of the runway total length. The sign is located from 10 to 15 feet (3 to 4.6
865 m) from the runway edge and ± 30 feet (9.1 m) from the runway midpoint.
- 866 2.4 **Sign Operation.**
867 The sign system is designed so signs are illuminated at all times when the runway edge
868 lights are illuminated.
- 869 2.5 **Size and Location.**
870 Signs are to be manufactured in accordance with the provisions of AC 150/5345-44.
871 There are 2 types of runway distance remaining sign, size 4 signs (48-inch sign face
872 with a 40-inch legend) or size 5 (30-inch sign face with a 25-inch legend). All signs on
873 one runway are the same size. There is only one size available for the one-half distance
874 remaining sign: size 5 (30-inch sign face with a 25-inch legend). The choice of a size
875 should take into account several factors such as effectiveness, aircraft clearance, and jet
876 blast. Normally, the larger the sign and the closer it is located to the runway or taxiway
877 edge, the more effective it is. However, aircraft clearance requirements and jet blast
878 effects require smaller signs when located near the pavement edges. Also, the effects of
879 snow removal operations on the signs should be considered in the choice of sign size
880 and location. The sign must provide 12 inches of clearance between the top of the sign

881 and any part of the most critical aircraft using, or expected to use, the airport when the
882 aircraft wheels are at the pavement edge.

883 2.6 **Installation.**

884 The signs are located with respect to the runway as shown in Table 2-1 and installed in
885 accordance with paragraph 1.17.

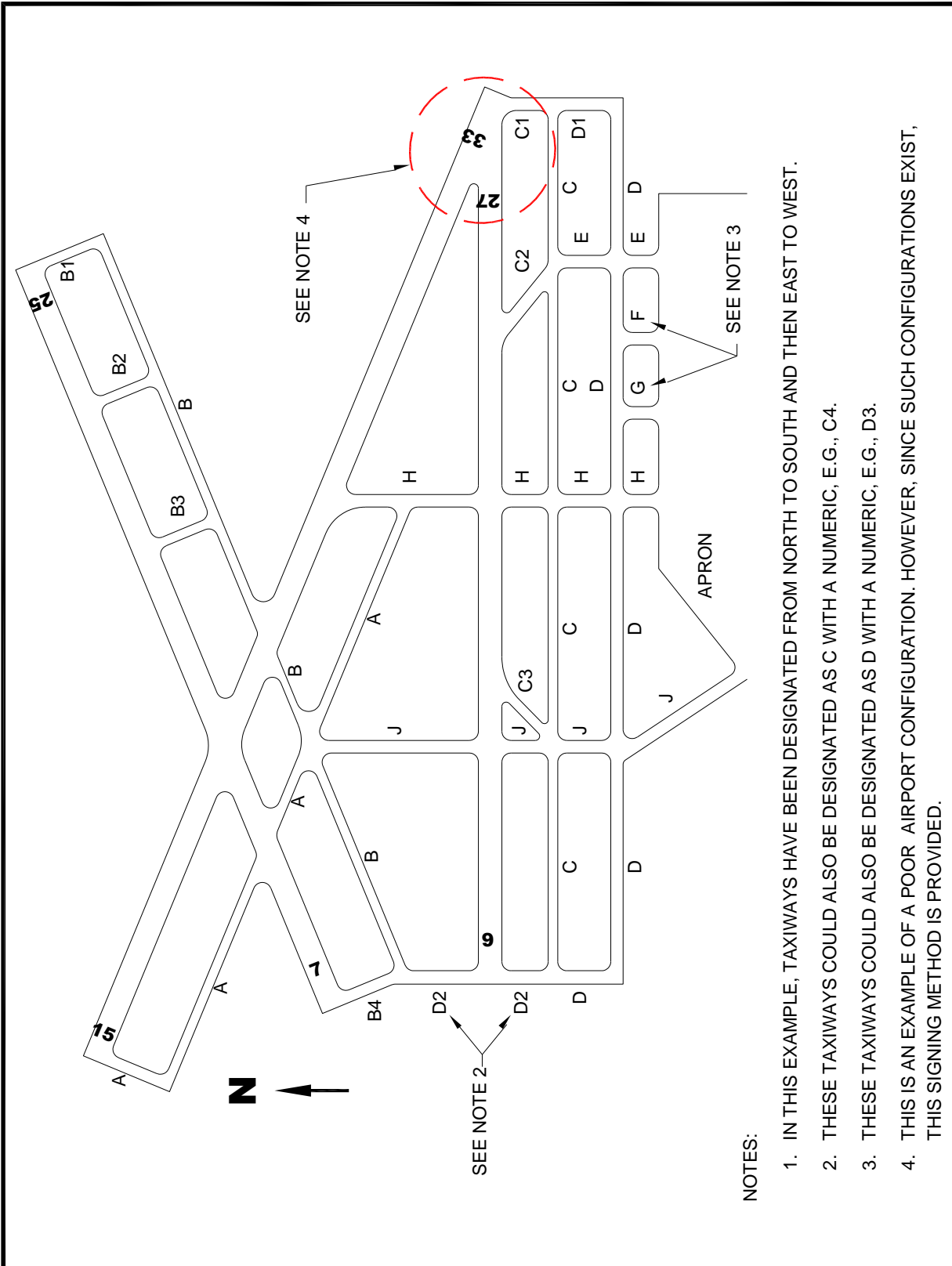
886 **Table 2-1. Sign Heights and Location Distances for Runway Distance Remaining**
887 **Signs**

Sign Size	Legend Height [inches (cm)]	Legend Panel Height [inches (cm)]	Installed (max.) * [inches (cm)]	Perpendicular Distance from defined runway pavement edge to the near side of the sign [feet (m)]
4	40 (100)	48 (120)	60 (152)	50-75 (15-22.5)
5	25 (64)	30 (76)	42 (107)	20-35 (6-10.5)

888 **Note:** * The height referred to in this column is the distance from top of the sign to
889 grade measured at the side of the sign that is nearest to the applicable runway. In
890 accordance with paragraph 1.14, this height should be reduced, if necessary, to provide
891 the required 12-inch clearance between the top of the sign and the critical aircraft.

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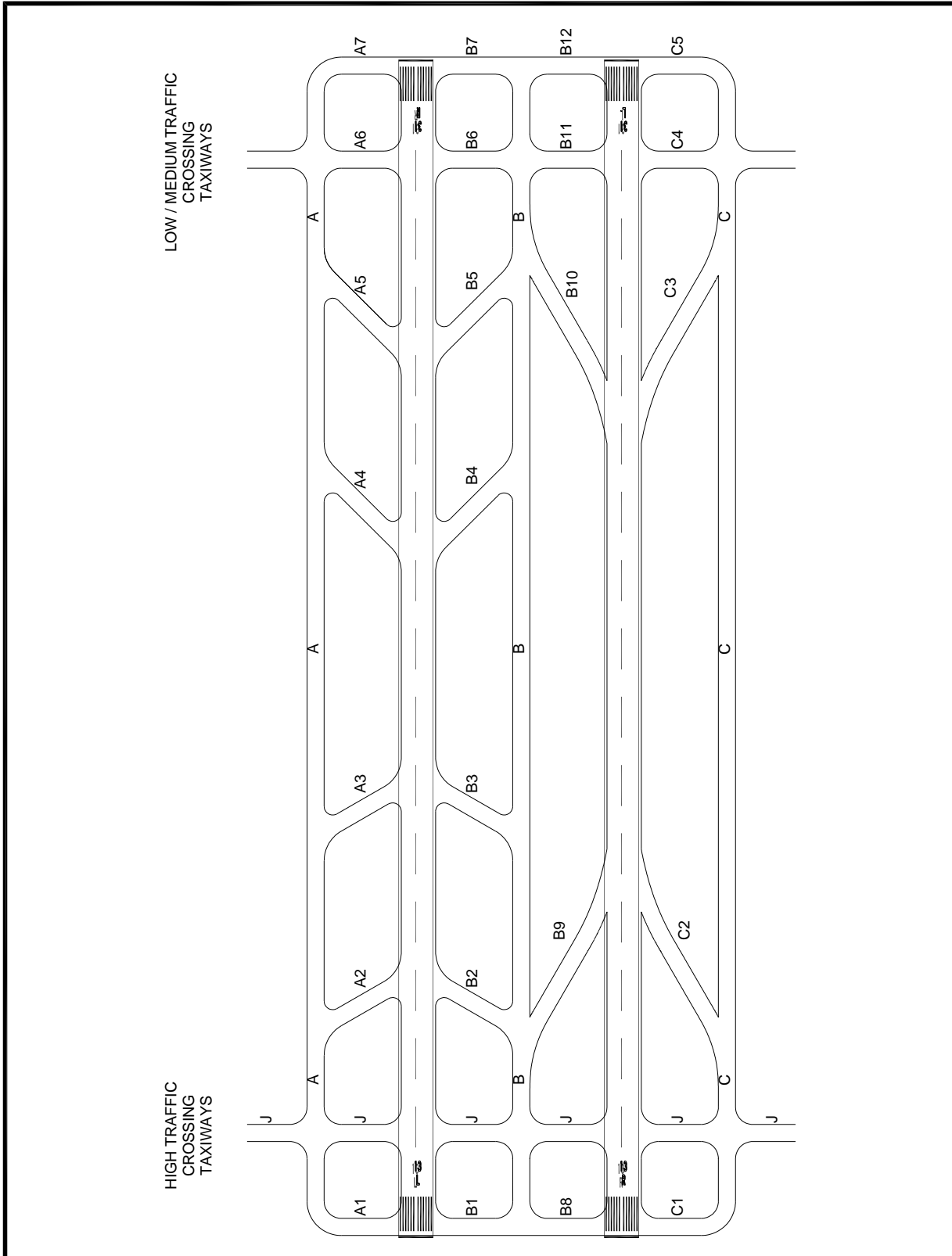
Figure 2-1. Example of Taxiway Designations.



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Figure 2-2. Typical Signage Layout.



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Figure 2-3. Examples of Mandatory Instruction Signs.



(a) Holding Position Sign



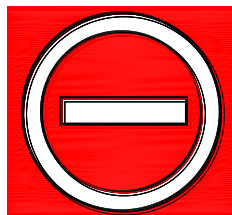
(b) ILS Holding Position Sign



(c) Holding Position Sign for Approach/Departure Areas



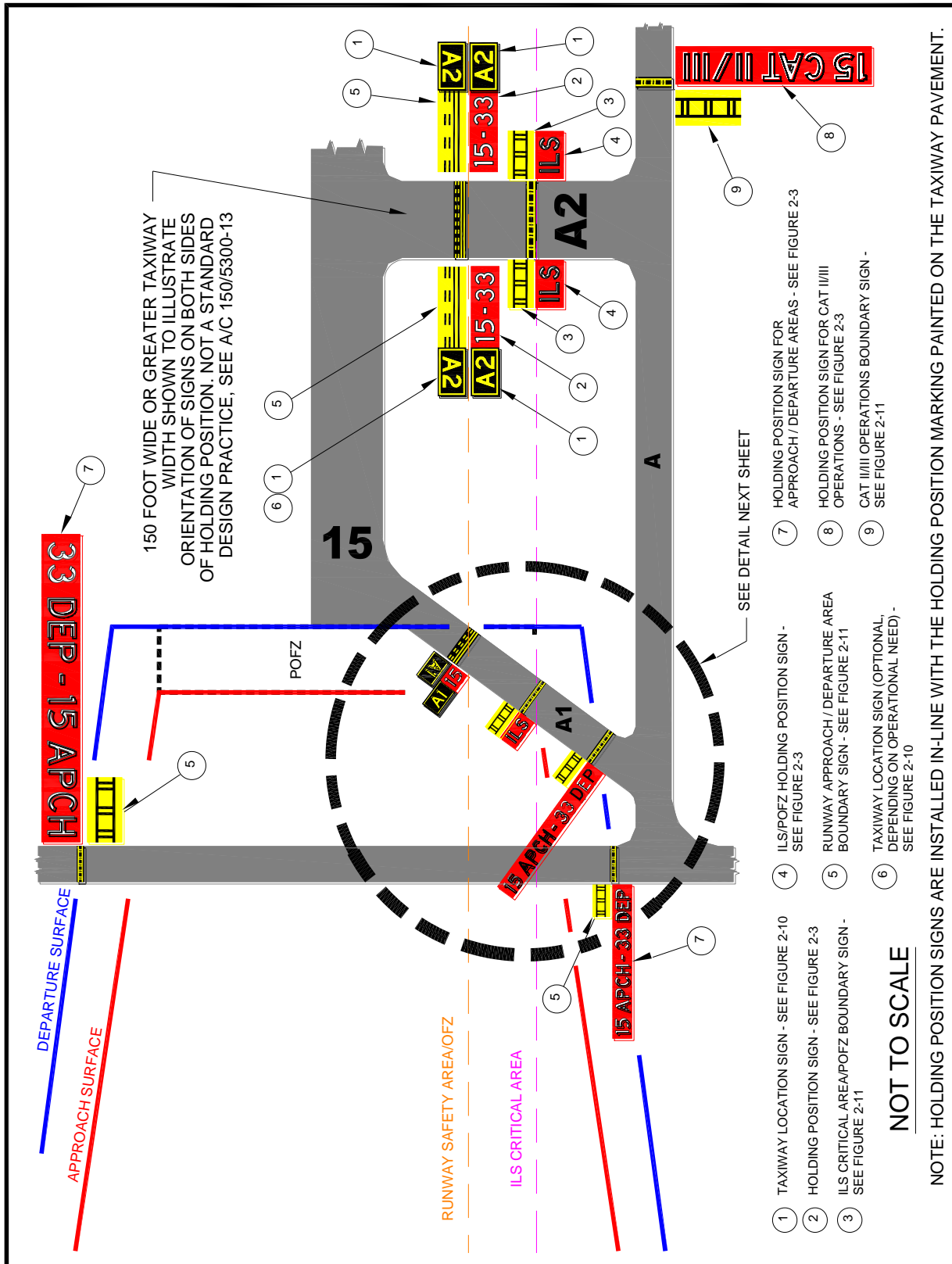
(d) Holding Position Sign for CAT II/III Operations



(e) No Entry Sign

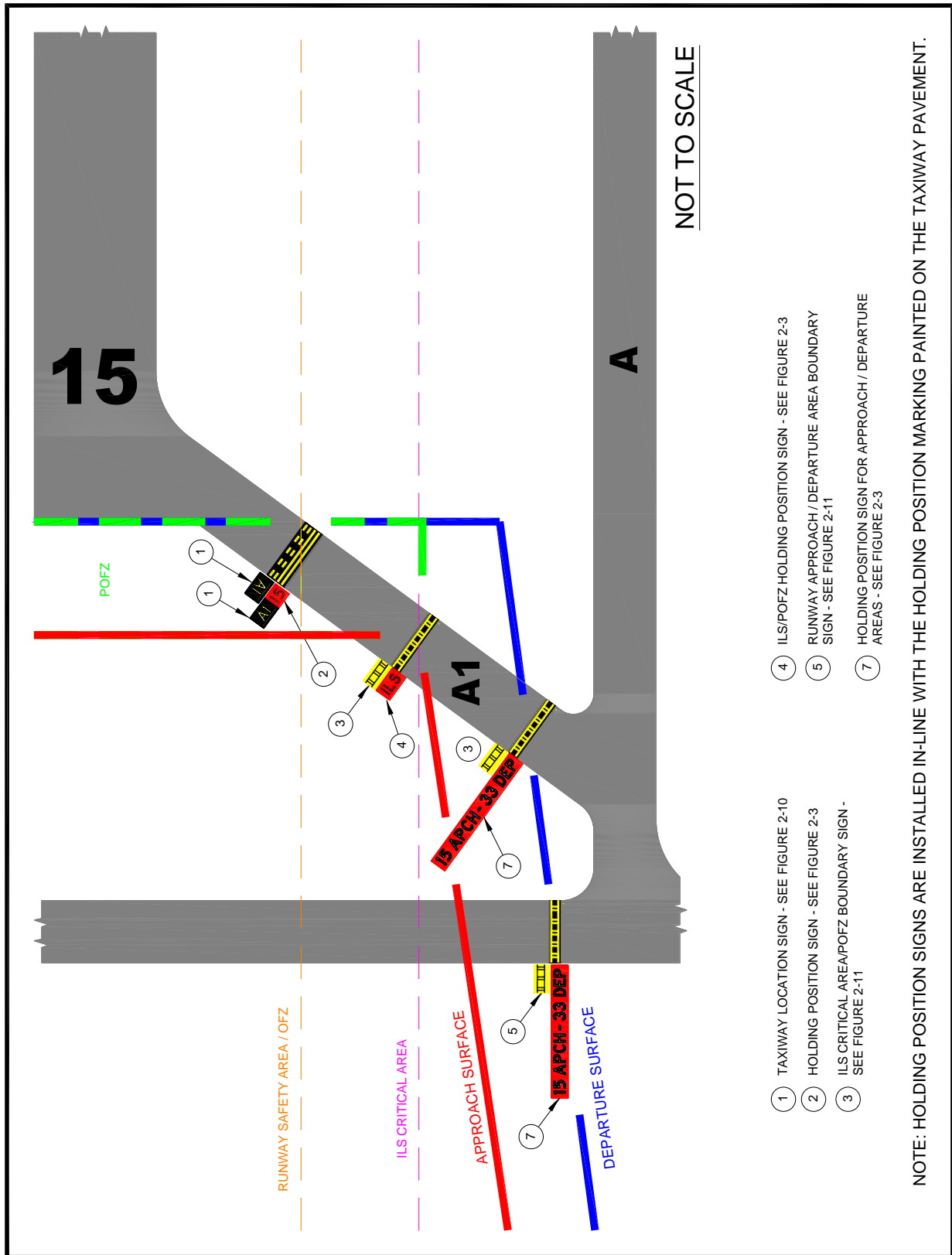
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Figure 2-4. Application Examples for Holding Position Signs.



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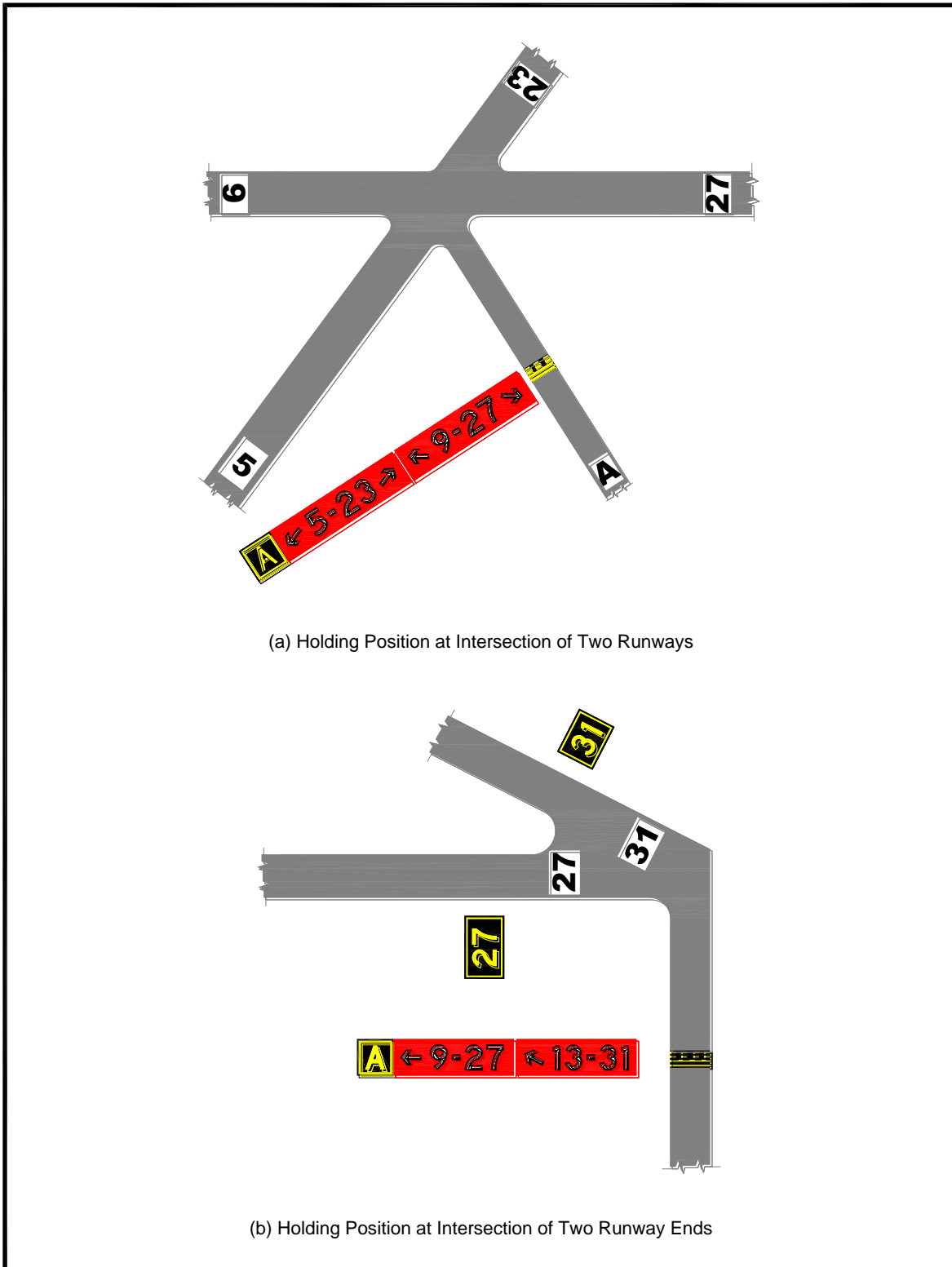
Figure 2-5. Application Examples for Holding Position Signs Detail.



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Figure 2-6. Runway Location Signs and Arrows on Holding Position Signs.



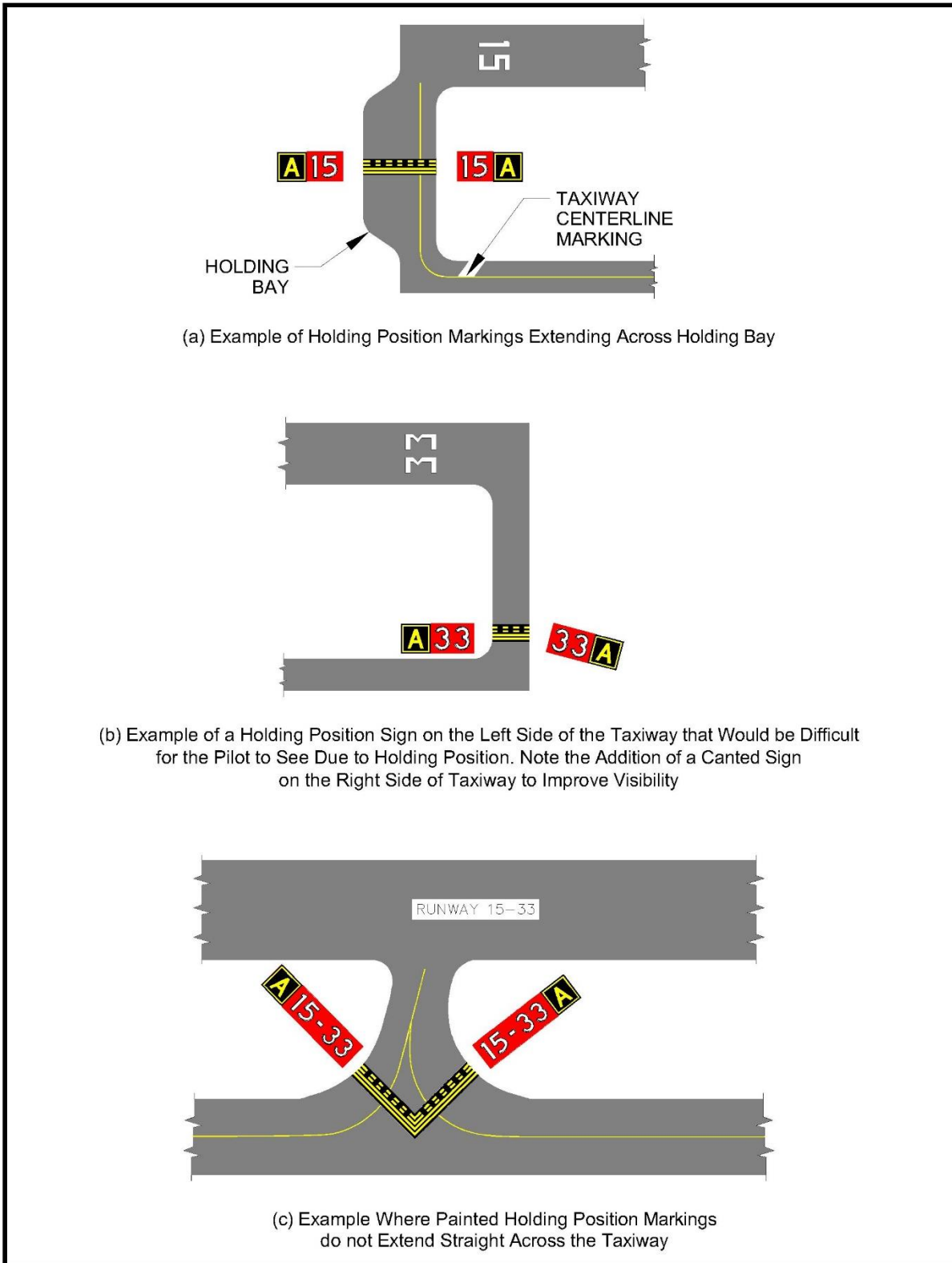
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Note: Non-standard configuration shown.

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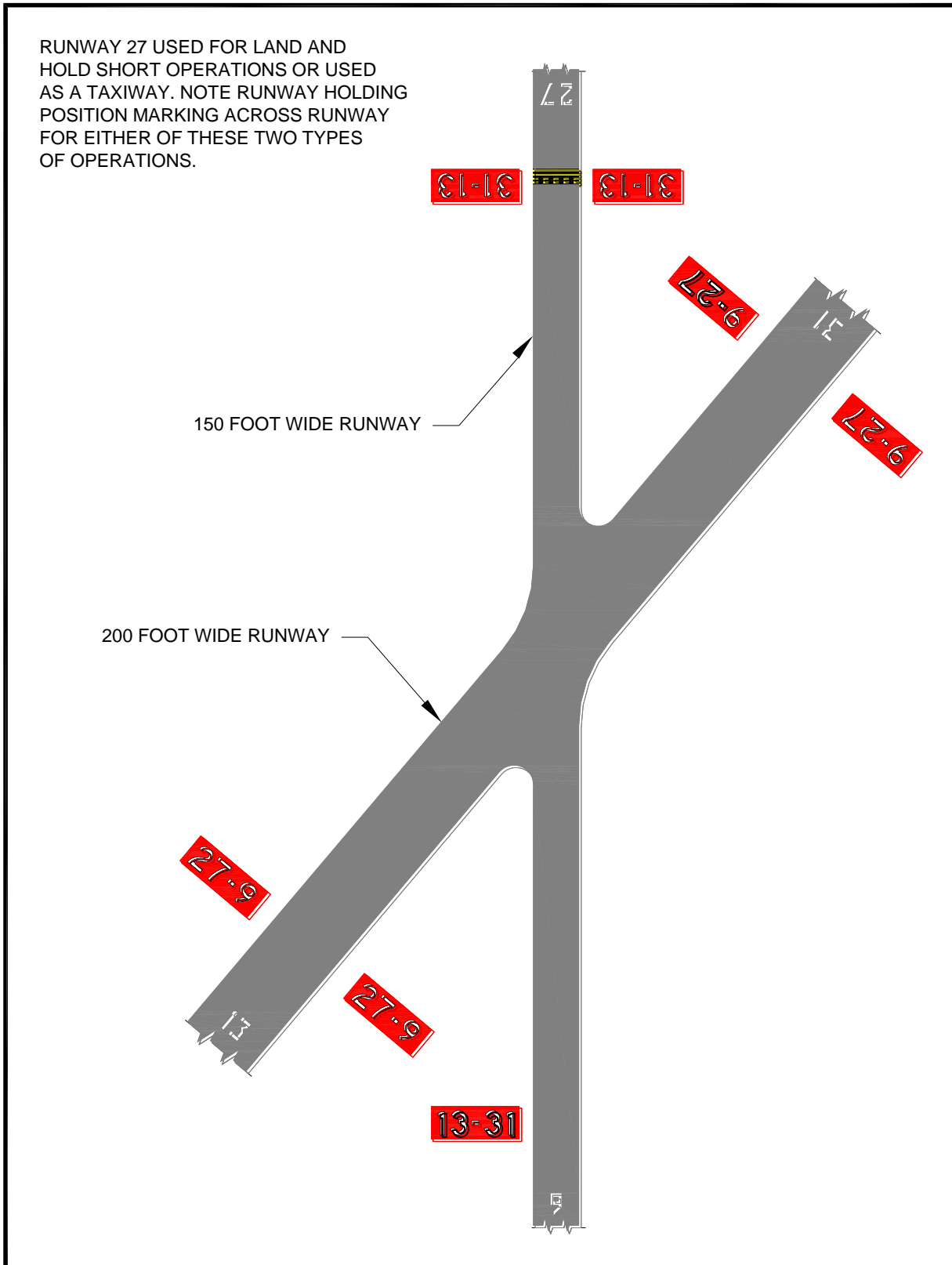
Figure 2-7. Examples of Siting Holding Position Signs for Non-Typical Conditions.



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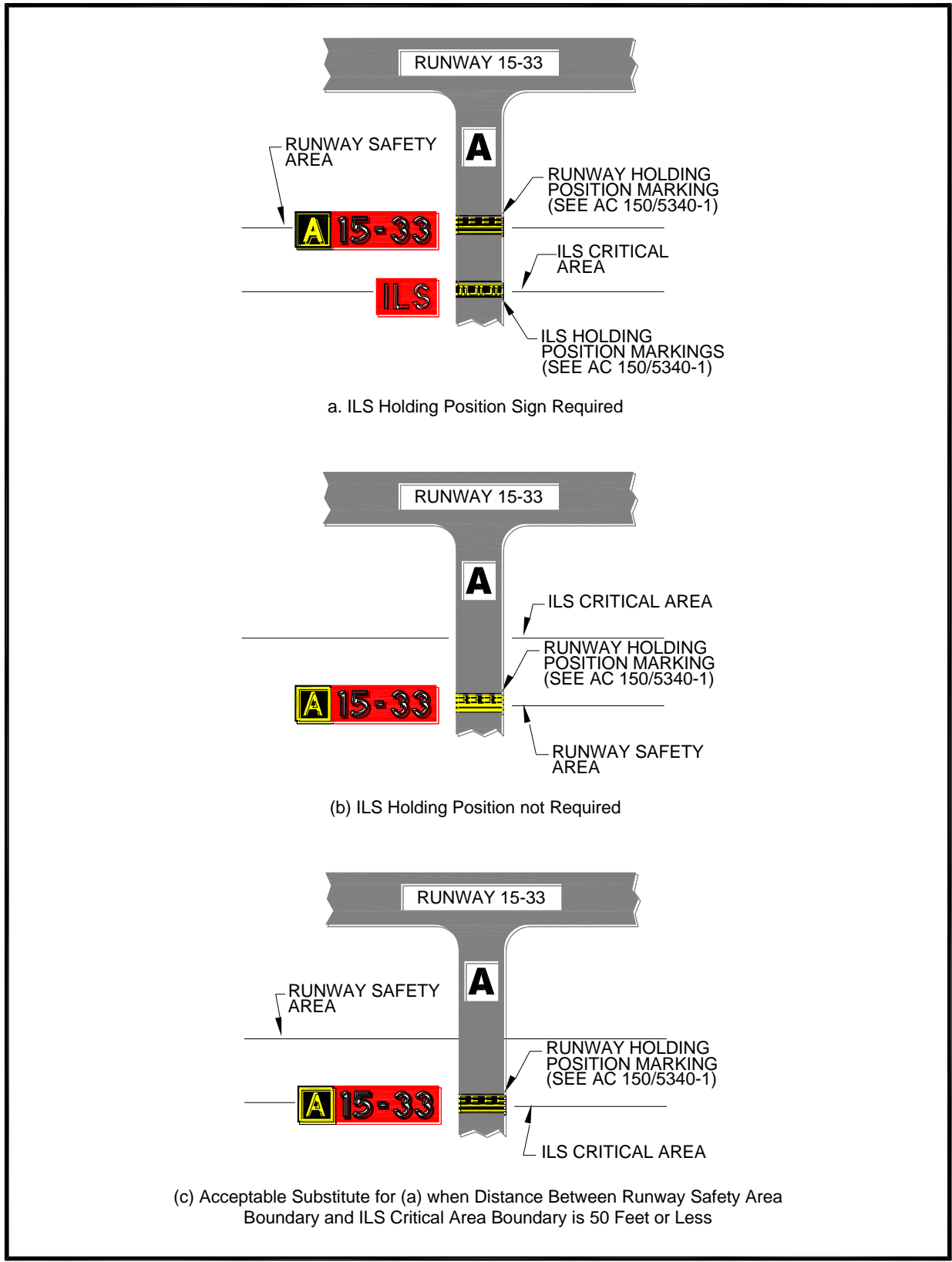
Figure 2-8. Examples of Holding Position Signs at Runway/Runway Intersections.



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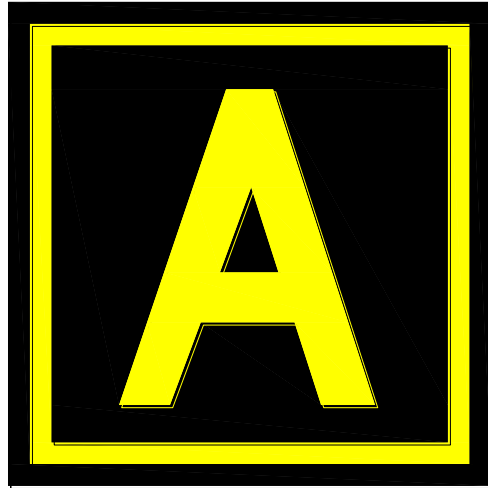
Figure 2-9. Sign Applications for ILS Critical Areas.



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Figure 2-10. Examples of Location Signs.



(a) Taxiway Location Sign

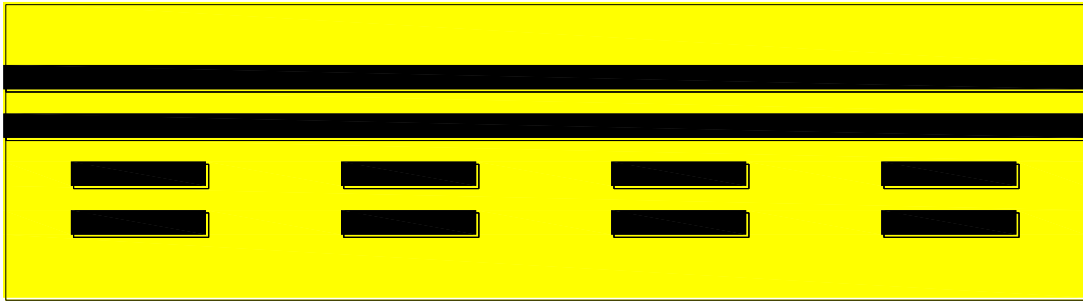


(b) Runway Location Sign

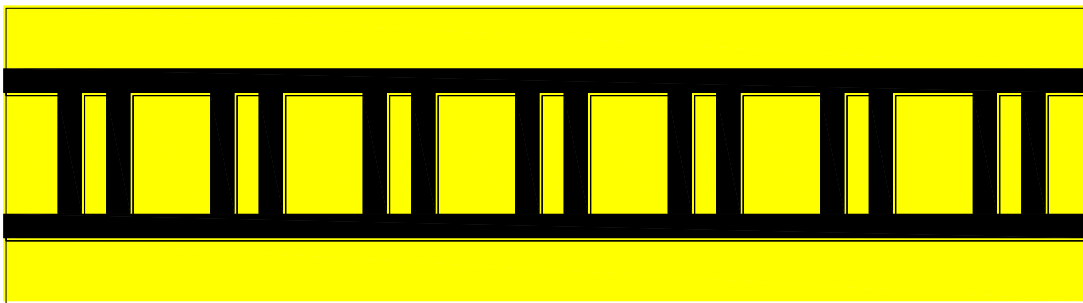
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Figure 2-11. Examples of Boundary Signs.



(a) Boundary sign for RSA/OFZ and Runway Approach Area

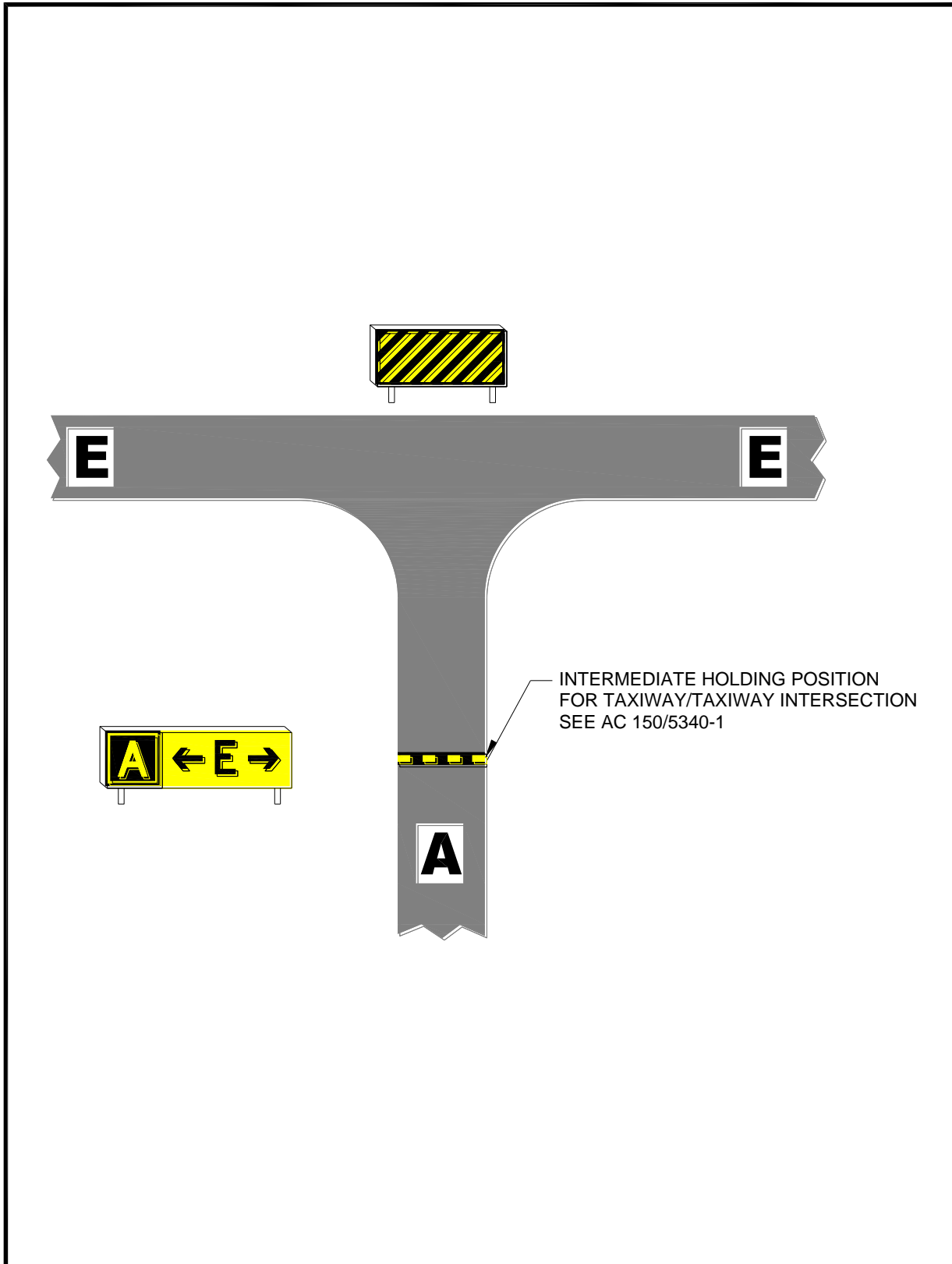


(b) ILS Critical Area/POFZ Boundary / CAT II/III Operations and Runway Approach / Departure Area

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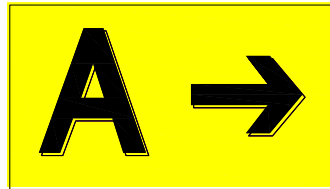
Figure 2-12. Taxiway Ending Marker.



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Figure 2-13. Examples of Direction Signs, Destination Signs, and Taxiway Ending Marker.



(a) Direction/Runway Exit Sign



(b) Typical Outbound Destination Sign



(c) Outbound Destination Sign to Different Runways



(d) Inbound Destination Sign

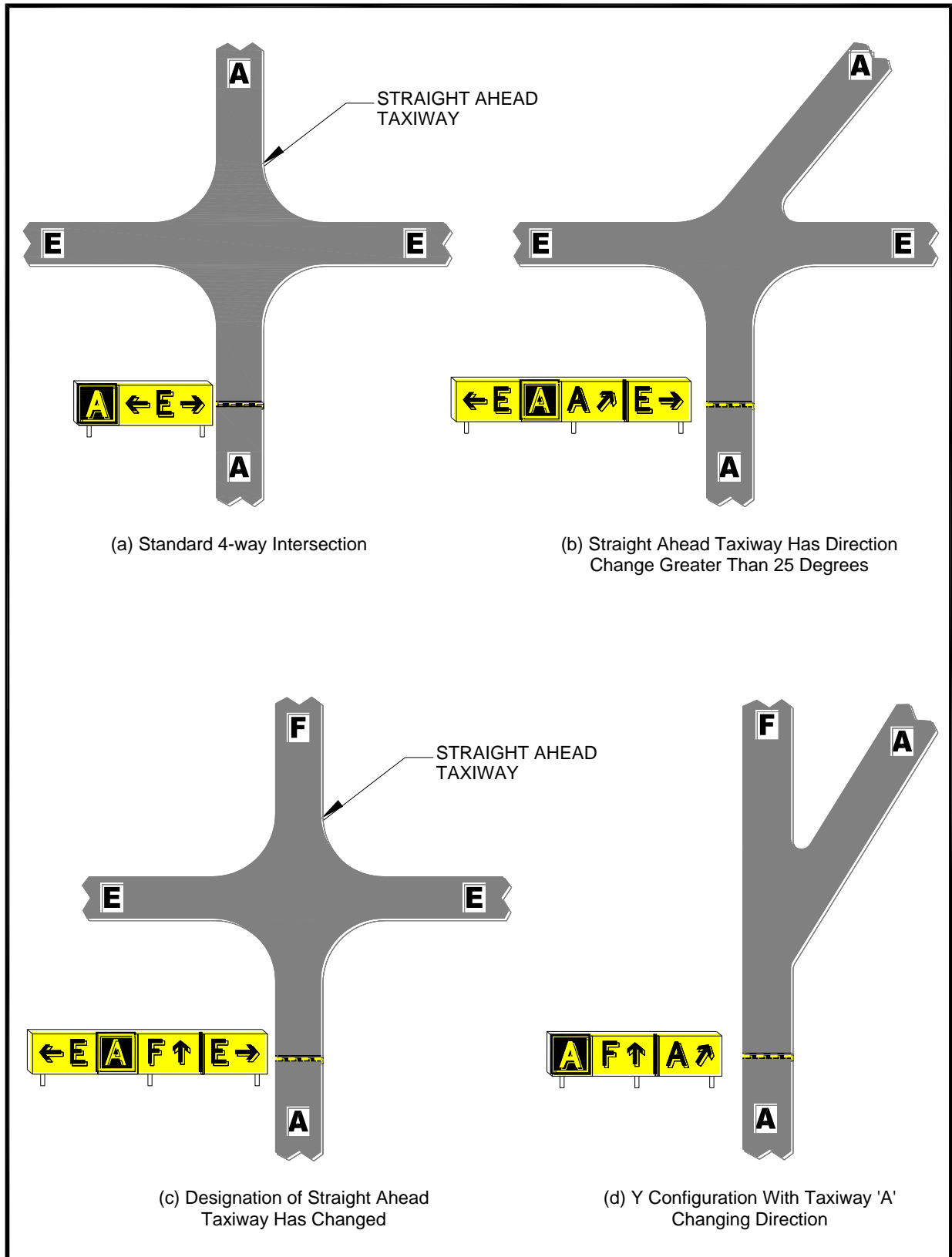


(e) Taxiway Ending Marker

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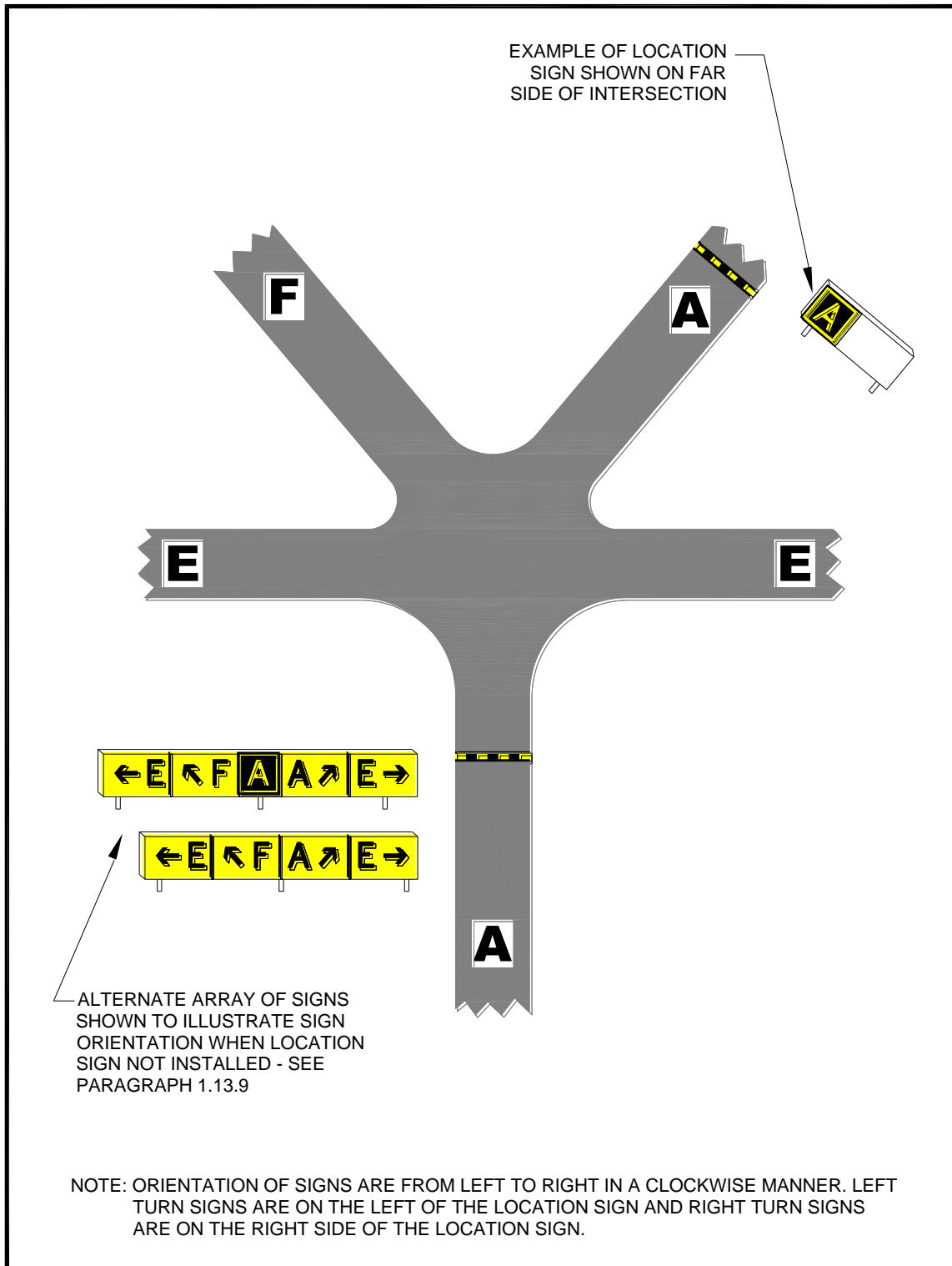
Figure 2-14. Examples of Signs at a Taxiway/Taxiway Intersection.



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Figure 2-15. Examples of Signs at an Existing Complex Taxiway/Taxiway Intersection.



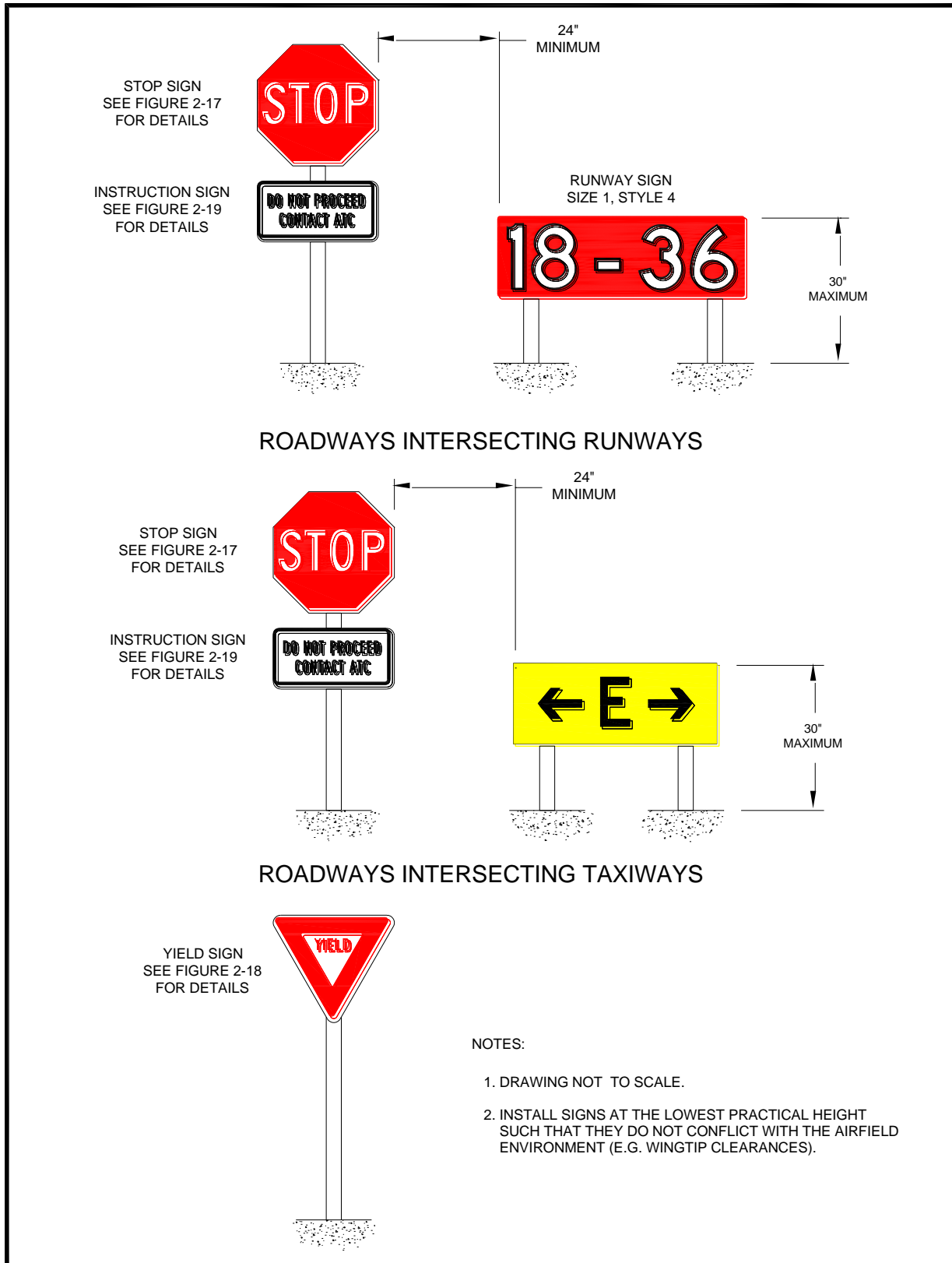
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Note: This is a non-standard configuration, not recommended for new construction.

927

Figure 2-16. STOP and YIELD Sign Assemblies.



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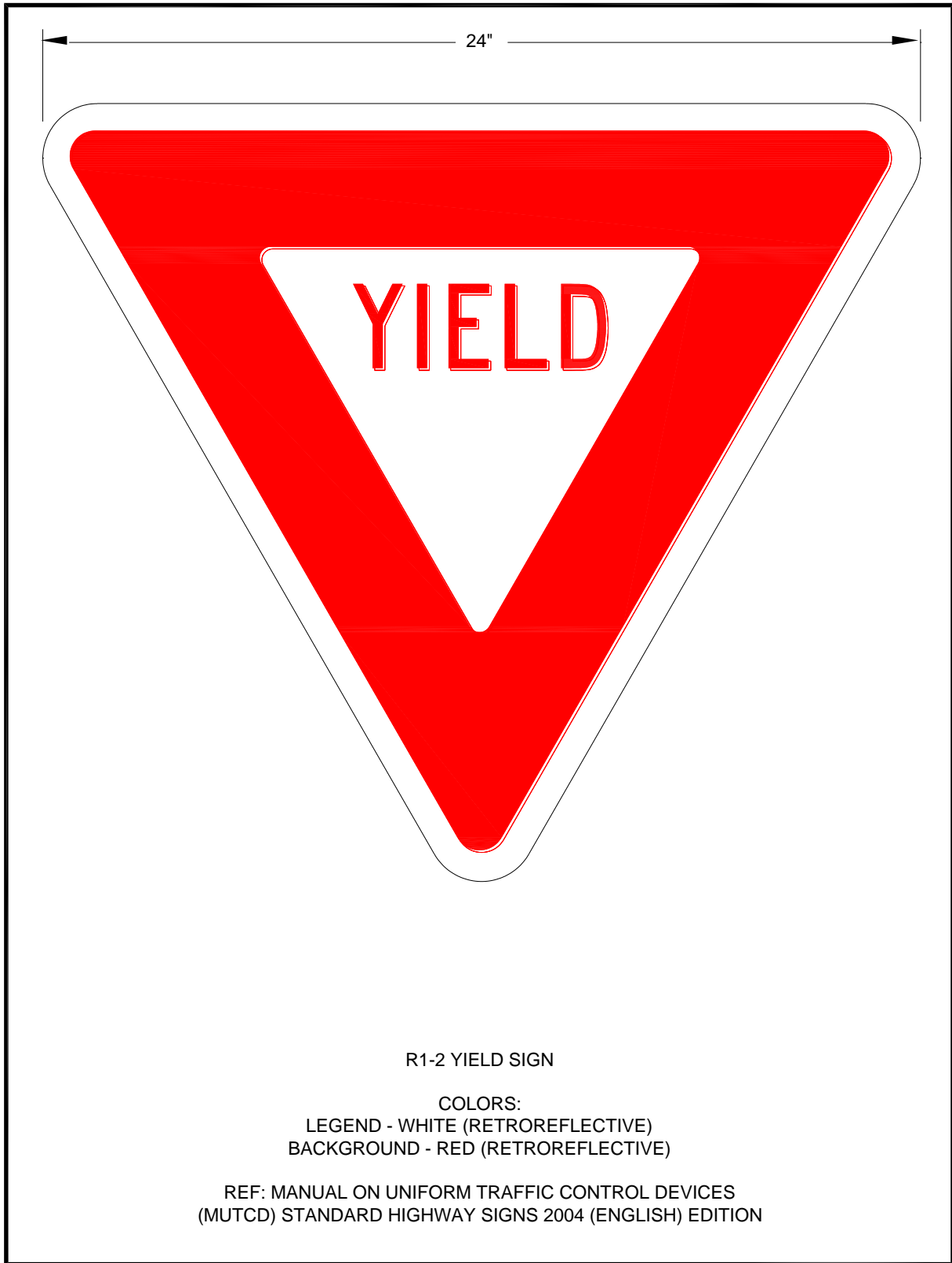
Figure 2-17. STOP Sign.



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Figure 2-18. YIELD Sign.



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Figure 2-19. DO NOT PROCEED Sign Detail.



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Figure 2-20. Runway Distance Remaining Sign.

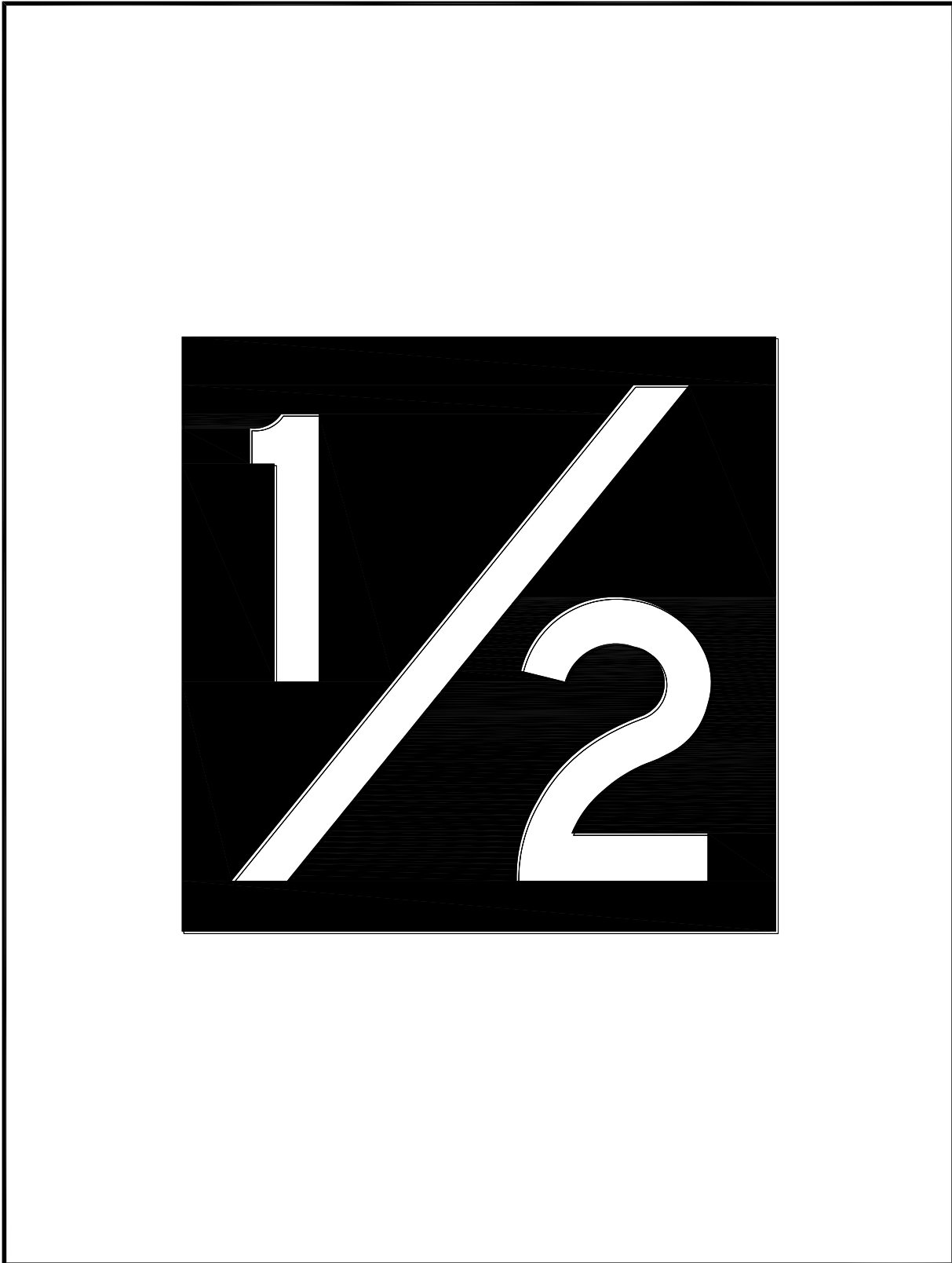


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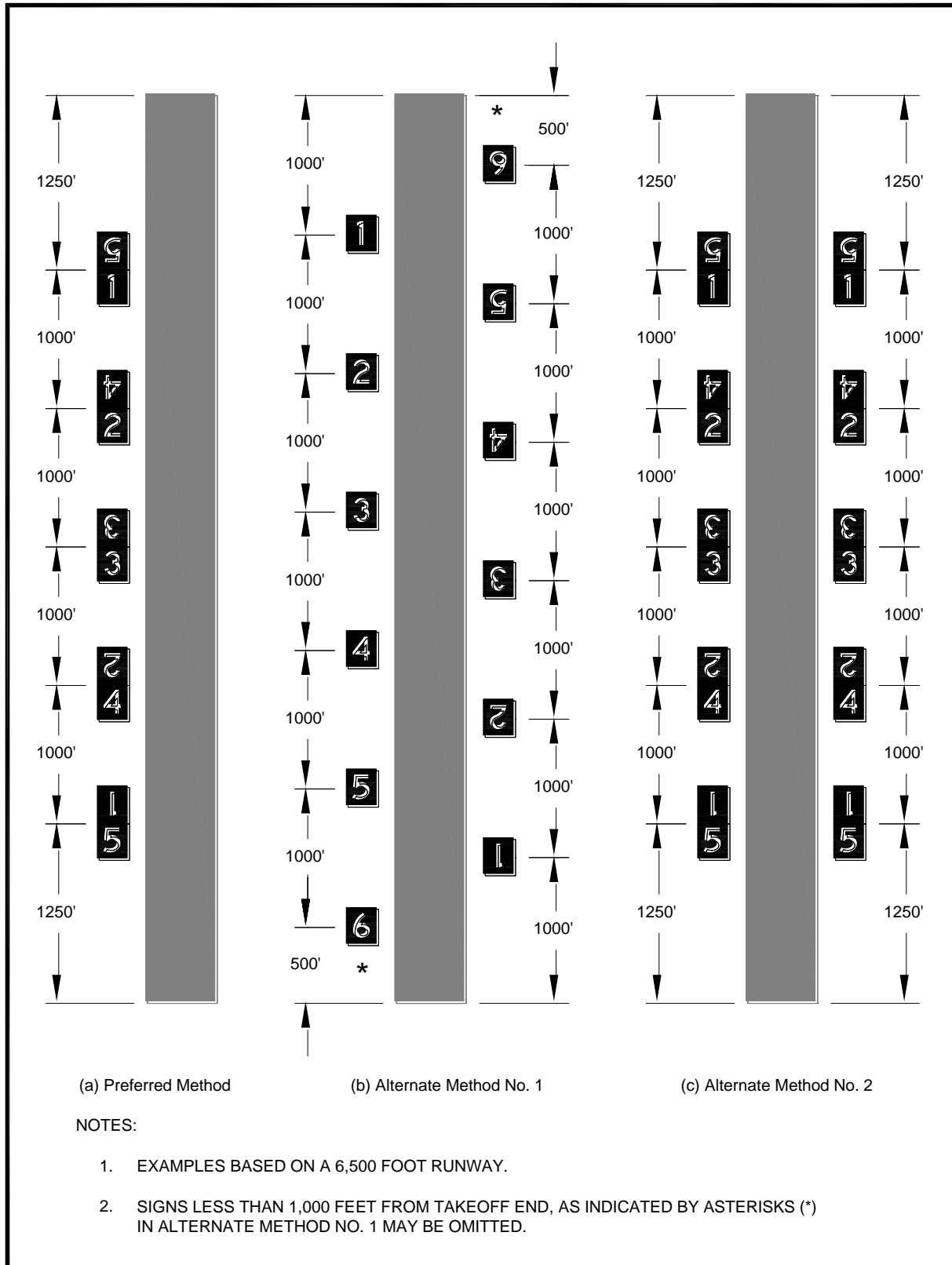
Figure 2-21. One-Half Distance Remaining Sign.

938



939

Figure 2-22. Runway Distance Remaining Sign Configurations.



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Appendix A. AIRPORT SIGNING EXAMPLES944 A.1 **General.**

945 This appendix depicts examples of signs that might be installed on various airport
946 configurations. To understand why some signs are included in this system while others
947 are omitted, it is important to understand the functional layout of each of these airports.
948 For this reason, this section provides a brief description of the airport with each
949 example as well as a brief rationale on why certain signs were installed or omitted. The
950 intent of these examples is to illustrate that the types and locations of the signs included
951 in an airfield sign system reflect a determination made by the airport operator in
952 consultation with the users and the FAA.

953 A.2 **Example 1—Complex Airport.**

954 Figure A-1 depicts a taxiway guidance sign system for a portion of a complex airport. |
955 The airport serves both domestic and international air carriers, as well as general
956 aviation, and is controlled. The apron area shown at the south of this figure is for air
957 carriers, with the international terminal being located on the eastern end of the apron.
958 The two high-speed exits (Taxiways D and E) have centerline lights. All the other
959 taxiways have edge lights. General aviation aircraft also commonly use this
960 intersection for intersection departures. Taxiway holding position markings are shown
961 on the taxiways where a pilot would normally be requested by air traffic control to hold
962 because of traffic on an intersecting taxiway. The airport is in a southern state where it
963 rarely snows. With this background, the signs included in this system are as follows:

964 A.2.1 Holding position signs along with taxiway location signs are installed on all taxiways
965 that intersect the runway.

966 A.2.2 Taxiway B passes through the ILS critical area. Because the critical area is not within
967 the area protected by the standard runway holding position marking, an ILS holding
968 position sign is also necessary on this taxiway.

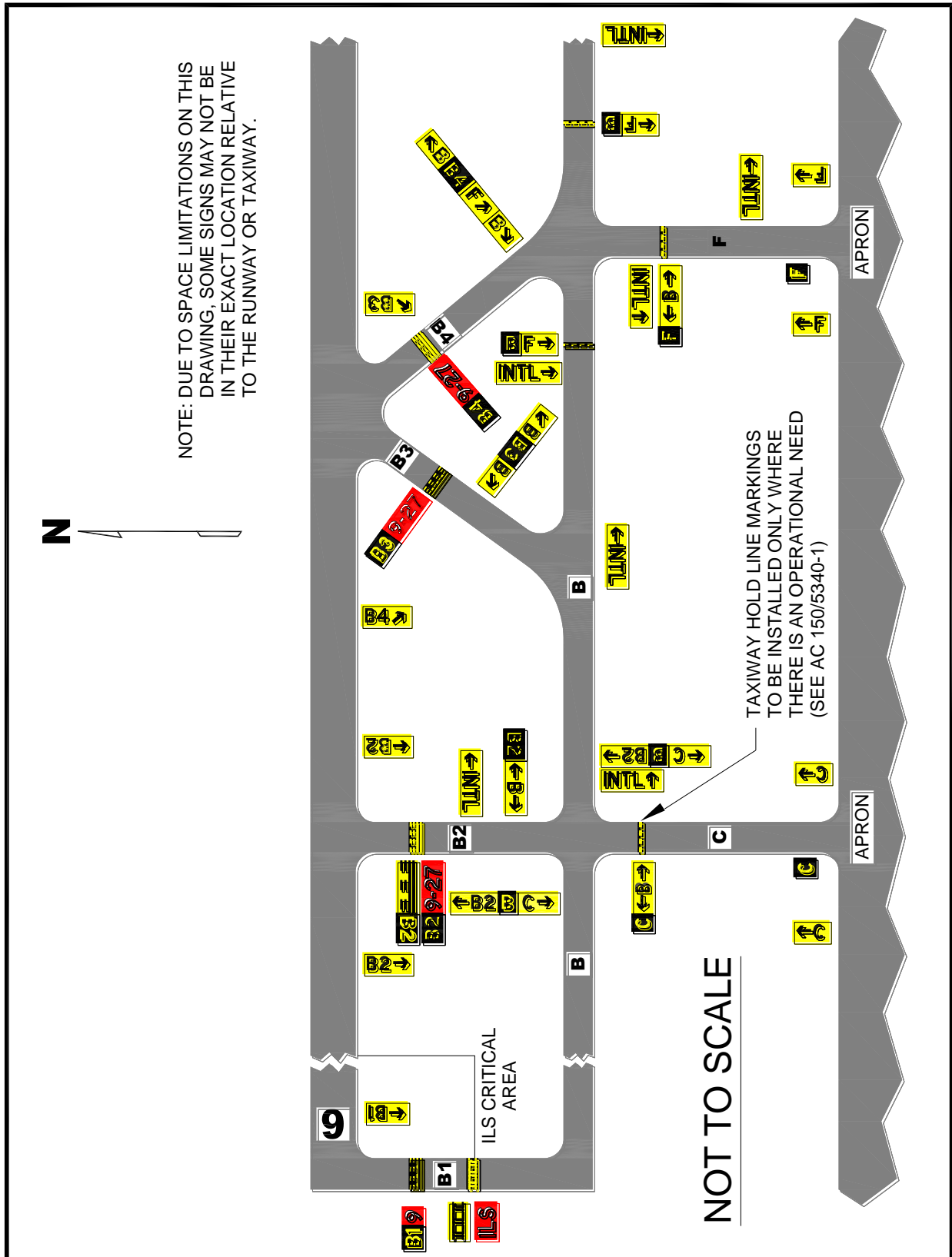
969 A.2.3 On Runway 9, exit signs are shown for Taxiways C and E, because aircraft using
970 Runway 9 would normally use these taxiways as exits. On Runway 27, exit signs are
971 shown for Taxiways B, C and D because aircraft using Runway 27 would normally use
972 these taxiways as exits. The exit signs for Taxiways D and E are installed in
973 accordance with the guidance provided in paragraphs 1.8.2.2 and 1.8.2.3.

974 A.2.4 Taxiways D and E are both high-speed exits that are equipped with centerline lights.
975 Since the lights on these taxiways are color coded (green/yellow), RSA/OFZ boundary
976 signs are not needed even though air traffic control commonly asks pilots to report
977 when they are clear of the runway. Also, because an aircraft would not normally use
978 these taxiways as an entrance to the runway, it is not necessary to install direction signs
979 on Taxiway B.

- 980 A.2.5 Pilots that use Taxiway C as an exit are commonly asked by air traffic control to report
981 when they are clear of the runway. To assist these pilots in judging when their aircraft
982 is clear of the runway, a RSA/OFZ boundary sign has been installed on the back of the
983 holding position sign on Taxiway C.
- 984 A.2.6 Pilots exiting the runway on Taxiway B during instrument meteorological conditions
985 are asked to report when they are clear of the ILS critical area. Since this taxiway is not
986 equipped with color coded (green/yellow) centerline lights, an ILS critical area
987 boundary sign is included on the back of the ILS holding position sign to identify the
988 perimeter of the critical area.
- 989 A.2.7 As illustrated at the intersection of Taxiways B, E, and F, taxiway direction signs are
990 placed only at the intersections for the taxiways on which a pilot would normally turn.
- 991 A.2.8 On Taxiway B, direction signs are provided only for Taxiway F because an aircraft
992 would not be expected to turn onto Taxiway E.
- 993 A.2.9 On Taxiway E, direction signs are provided for both Taxiways B and F because an
994 aircraft could be expected to turn onto any of these taxiways.
- 995 A.2.10 On Taxiway F, a direction sign is provided only for Taxiway B because an aircraft
996 would not normally proceed from Taxiway F onto Taxiway E.
- 997 A.2.11 Aircraft departing the apron on Taxiways C and F arrive at these taxiways from various
998 directions depending upon their gate positions. Some aircraft approach these taxiways
999 by taxiing along the edge of the apron, while others approach these taxiways straight on.
1000 Direction signs have been placed on the edge of the apron for the former case while
1001 location signs have been installed on these taxiways for the latter case.
- 1002 A.2.12 In the past, the airport has had problems with international airline pilots becoming lost
1003 as they taxied to the international terminal. For this reason, the air traffic control tower
1004 developed a preferred routing for these pilots. The airport operator has decided to
1005 install destination signs to indicate this preferred routing in addition to the taxiway
1006 direction signs. At the intersection of Taxiways B and C and the intersection of
1007 Taxiways B, E and F, destination signs that indicate the direction of the international
1008 terminal are located on the far side of the intersection on the right side of the taxiway.
1009 This is permissible in accordance with the signing conventions provided in paragraph
1010 1.13.3.5. The destination sign at the intersection of Taxiways B and D is located on the
1011 far side of the intersection even though it indicates a turn. This is permissible in
1012 accordance with the signing conventions provided in paragraph 1.13.10 because
1013 Taxiway D ends at this intersection. Taxiway direction signs also are provided on
1014 Taxiway D prior to the intersection.

1015

Figure A-1. Signing Example for a Complex Airport.



1016

1017 A.3 **Example 2—Airport with Two Intersecting Runways.**
1018 Figure A-2 shows an airport with two intersecting runways. The main runway, 9-27, is
1019 8,500 feet in length, while the crosswind runway, 18-36, is 5,000 feet in length. The air
1020 carriers use only Runway 9-27, while the commuters and general aviation use both
1021 runways. The air carrier and commuter terminal is on the south side of the airport, and
1022 all general aviation facilities are located on the north side. The airport has an air traffic
1023 control tower. When general aviation aircraft are landing on Runway 9, air traffic
1024 control will often ask them to hold short of Runway 18-36 so it can be used for a
1025 general aviation departure.

1026 With this background, the signs included in this system are as follows:

1027 A.3.1 Holding position signs along with taxiway location signs are installed on all taxiways
1028 that intersect the runways. Though it is possible to cross the runway at the thresholds
1029 for Runway 27 and Runway 36, a sign with only one runway designation is installed at
1030 each of the runway holding positions located on these taxiways. Since air traffic control
1031 does not use these taxiways to cross the runways, there is not an operational need to
1032 have two runway destinations on these signs (see paragraph 1.5.1).

1033 A.3.2 Holding position signs have been installed at the intersection of the two runways.
1034 Because Runway 9 is used for “land and hold short” operations, two signs are installed
1035 at its intersection with Runway 18-36.

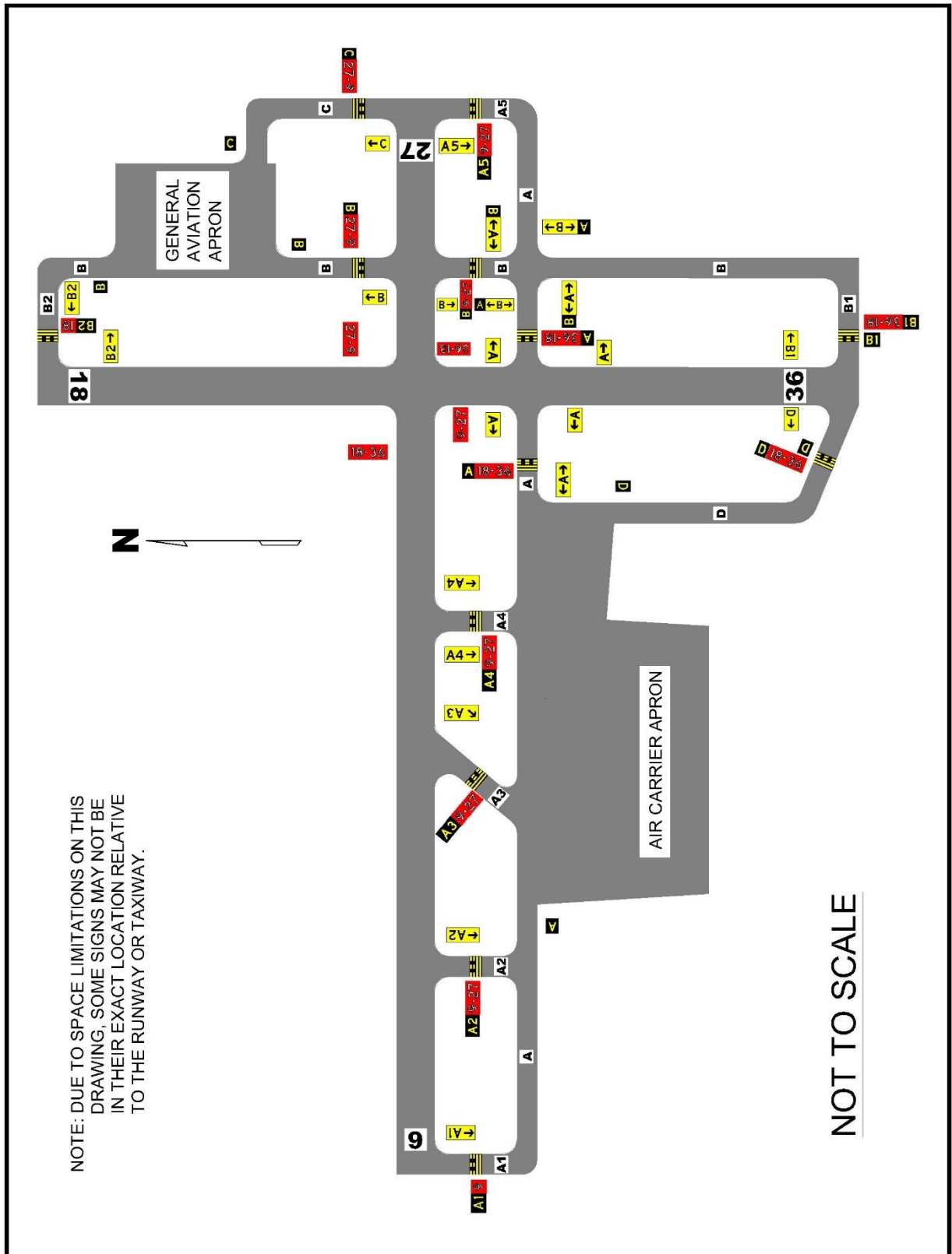
1036 A.3.3 Exit signs are installed for the taxiways where aircraft normally exit. For Runway 9,
1037 exit signs have been installed at Taxiways D, F, G, and A. Because Taxiway F crosses
1038 this runway, it is necessary to install an exit sign on both the left and right side of the
1039 runway. For Runway 27, exit signs are installed on Taxiways A, B, C, and D. Exit
1040 signs are installed on Runways 18 and 36 at Taxiway A as well as at the runway ends.

1041 A.3.4 Because of the straightforward layout of this airport, the airport operator, in conjunction
1042 with the users and the FAA, determined that taxiway direction signs were only needed
1043 at two intersections. This airport's configuration requires the majority of the aircraft to
1044 taxi through or turn at the intersection of Taxiways A and F. For this reason, direction
1045 signs and the associated location sign were installed on each leg of this intersection. A
1046 direction sign was also installed on Taxiway E at its intersection with Taxiway A.
1047 Because the left side of Taxiway E is contiguous with the air carrier apron at this point,
1048 the sign is installed on the right side of Taxiway E.

1049 A.3.5 A location sign is installed on Taxiway A where it leaves the west side of the air carrier
1050 apron. A similar sign is not included on the east side because the location sign installed
1051 with the runway holding position sign is sufficient to provide location information to
1052 the pilot. A location sign is installed on Taxiway E where it leaves the air carrier apron.
1053 Location signs have also been installed on Taxiways F and G where they leave the
1054 general aviation apron.
1055 There was no need to install RSA/OFFZ boundary signs on this airport.

1056

Figure A-2. Signing Example for an Airport with Two Intersecting Runways.



1057

1058 A.4 **Example 3—Airport with a Single Runway.**
1059 Figure A-3 involves an airport with a single runway and parallel taxiway. The runway
1060 is 4,500 feet in length. The airport is uncontrolled. The apron serves both general
1061 aviation and the scheduled commuter.

1062 With this background, the signs included in this system are as follows:

1063 A.4.1 Holding position signs along with taxiway location signs are installed on all taxiways
1064 that intersect the runway.

1065 A.4.2 Exit signs have been installed for both runway directions at Taxiways B and D as well
1066 as at the end of each runway for Taxiway A.

1067 A.4.3 Direction signs for Taxiway A have been installed at the intersections of Taxiways B,
1068 C, and D. Direction signs for Taxiway C have also been installed on Taxiway A.

1069 **Note:** Since this airport is uncontrolled, an analysis might have concluded that it was
1070 advantageous to install destination signs in lieu of direction signs.

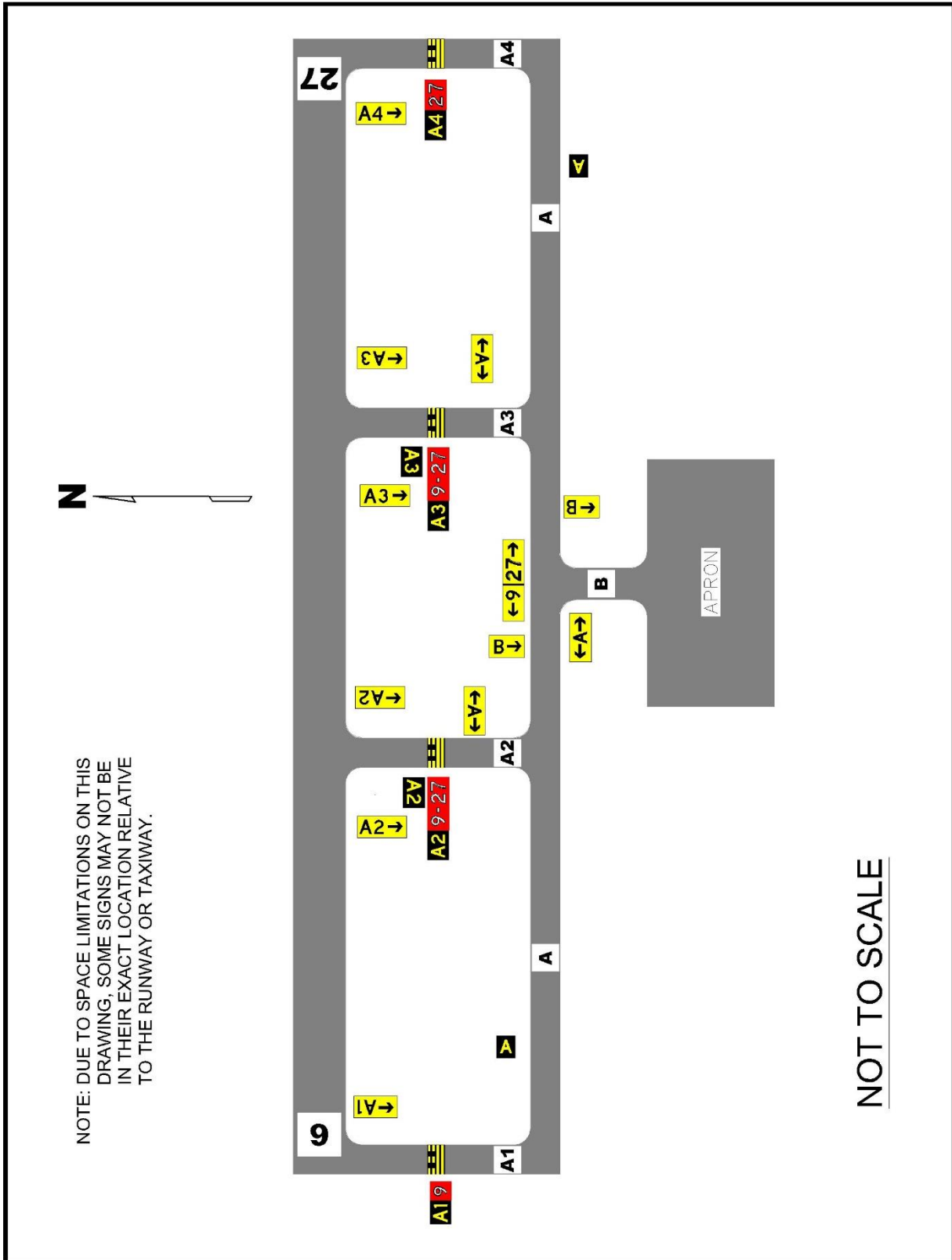
1071 Location signs have not been installed as part of the direction sign arrays, because in the
1072 case of Taxiways B and D, location signs were installed on the back of the runway
1073 holding position array. For the intersection of Taxiways A and C, it was determined by
1074 the airport operator in conjunction with the users and the FAA, that location signs were
1075 not needed because this location should be obvious to the pilot. This determination was
1076 based on the relatively simple configuration of this airport and that there is only one
1077 parallel taxiway and one apron with a single taxiway providing access to it.

1078 A.4.4 Location signs have been placed along Taxiway A for aircraft taxiing from the runway
1079 ends toward the terminal.

1080 A.4.5 An outbound destination sign for the runway ends has also been placed at the
1081 intersection of -Taxiways A and C. Because this is a “T” intersection and direction
1082 signs are provided prior to the intersection, it is permissible to install this sign on the far
1083 side of the intersection (see paragraph 1.13.10). On the face of this sign, the runway
1084 numbers are separated by a vertical border rather than a dash because this is a
1085 destination sign. In this case, each runway designation and its associated arrow is
1086 considered to be a separate panel and, therefore, separated by a black vertical border
1087 (see paragraph 1.13.12).

1088

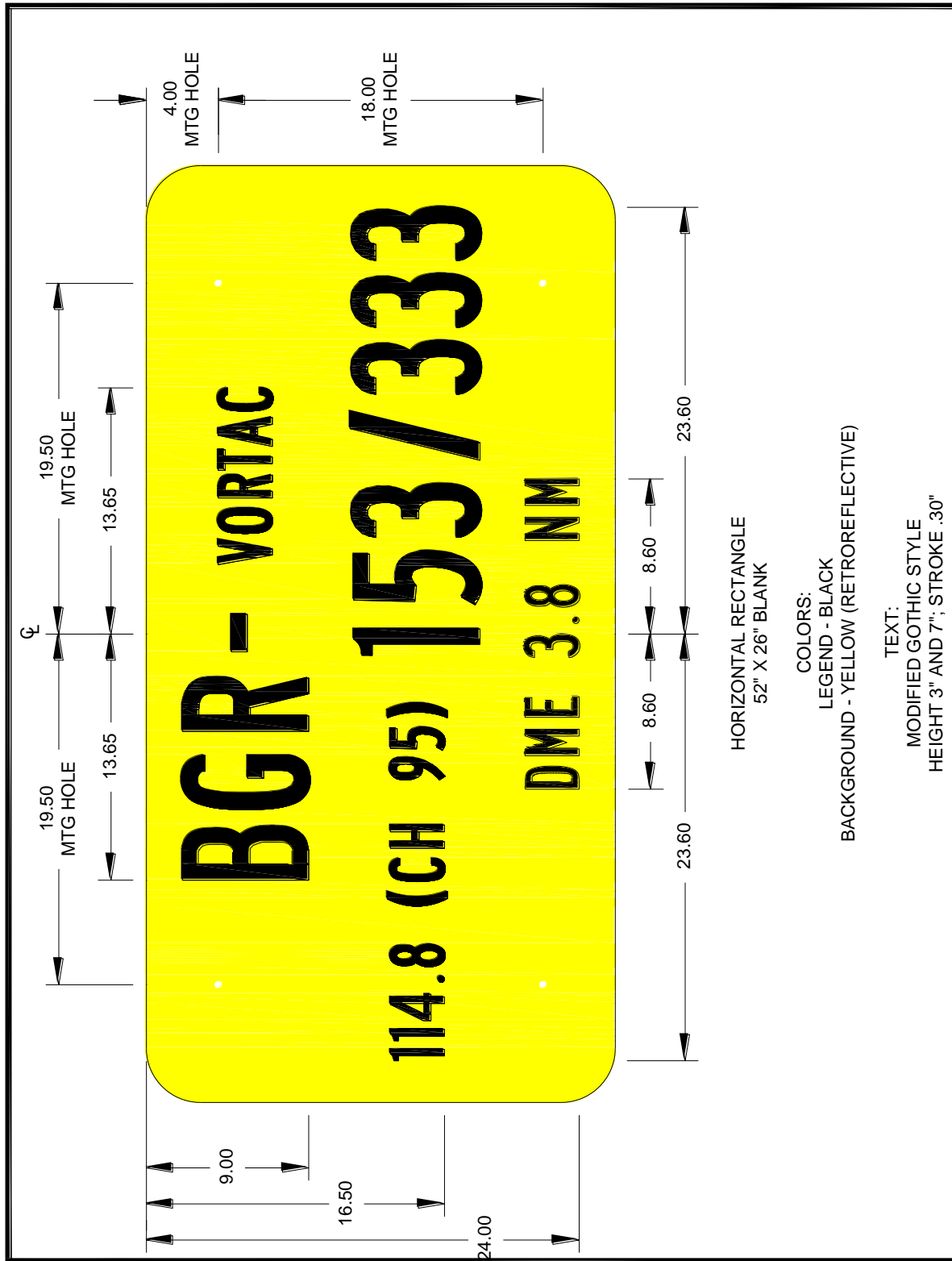
Figure A-3. Signing Examples for an Airport with a Single Runway.



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Figure A-4. VOR Receiver Checkpoint Sign.



1091

Advisory Circular Feedback

If you find an error in this AC, have recommendations for improving it, or have suggestions for new items/subjects to be added, you may let us know by (1) mailing this form to Manager, Airport Engineering Division, Federal Aviation Administration ATTN: AAS-100, 800 Independence Avenue SW, Washington DC 20591 or (2) faxing it to the attention of the Office of Airport Safety and Standards at (202) 267-5383.

Subject: AC 150/5340-18G

Date: _____

Please check all appropriate line items:

An error (procedural or typographical) has been noted in paragraph _____ on page _____.

Recommend paragraph _____ on page _____ be changed as follows:

In a future change to this AC, please cover the following subject:
(Briefly describe what you want added.)

Other comments:

I would like to discuss the above. Please contact me at (phone number, email address).

Submitted by: _____

Date: _____

