



NOTRA

2015 OFFICIAL Rules and Regulations

Part 2: NOTRA Approved Tracks and Set-Up Procedures

Revised: Jan 2015

(with rule changes thru 2014 as voted by member clubs)

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Chapter 9

APPROVED NOTRA TRACKS AND SET-UP PROCEDURES

At the present time NOTRA has approved 12 tracks plus the usage of Greyhound tracks for Official Racing. Each will be described in a separate section of this chapter.

9.1 PRE RACE PLANNING

To plan the setup of the track, it is recommended that a map, to scale, be prepared of the field being used. This map should show all permanent hazards that must be avoided in the areas that the racers will be running (such as trees or baseball backstops). It should show the dimensions of the field and also the dimensions for locating the starting points for the track layout. An experienced crew of 5 people can erect any of the approved tracks in less than 2 hours. If the track can be measured and marked out before the day of the race, or if permanent markings of the track are installed, setup time on race day should be less than 1 hour.

9.1.1 Measuring Cable

Prior to setting up the track on race day, it is advisable to construct a measuring cable with several fixed measurements marked by 1.5 inch rings in the cable. The rings will allow the cable to be staked down at the starting point while the desired arc is marked on the field. This cable should have rings at the following locations (all measurements are from the beginning of the cable):

- #1 Zero (beginning of cable)
- #2 4 meters (13 feet)
- #3 39 meters (128 feet)
- #4 43.7 meters (143 feet)

9.1.2 Equipment Needed

Inner fence stakes (3' painted white)
 150 for 220 & 270 U-val
 200 for 300 Tri-val
 250 for 350 Oval
 300 for 440 Oval

10 lengths of rebar (2-3')

100' steel measuring tape

Measuring wheel (12 inch or larger)

Measuring cable (see 9.1.1 above)

80° angle template (1/4" plywood) for setting stake tilt in the bends

Spray can of white paint for finish line

Surveyor ribbon to string two layers between fence post. (Preferably half white and half red or orange)

 500 yards for 220 U-val
 600 yards for 270 U-val
 700 yards for 300 Tri-val
 800 yards for 350 Oval
 900 yards for 440 Oval

Post driver, hammer

Pulleys and spikes

 Drag Lure Pulleys
 6 for 220 U-val
 8 for 270 U-val
 8 for 300 Tri-val
 10 for 350 Oval
 10 for 440 Oval

 Continuous Loop Pulleys
 9 for 220 U-val
 10 for 270 U-val
 11 for 300 Tri-val
 16 for 350 Oval
 16 for 440 Oval

Starting Box

Lures, Lure Machine, Battery, and spares

Racing Jackets

Record sheets for
 Placing Judges
 Foul Judges
 Scorekeeper

Scoreboard

Loudspeaker

Timers (Optional)

9.2 220 METER DRAG LURE TRACK

The layout of the 220 Meter Drag Lure track is shown in Figure 9.2.

Minimum Field Size: 414' X 295' (126 m X 90 m)
Track Circumference: 722' (220 m) - 1 meter from inner fence
710' (216 m) on inner fence

9.2.1 Locating the Track

Before starting to construct the track the base line AC on Figure 9.2 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot the area being used.

9.2.2 Locating the Construction Points

Once the general location of the AC line is established, install rebar poles at points A, B (151 feet from A), and C (79 feet from B). The total length of AC is 230 feet. Now that the line AC is established, locate the radius reducing rebar poles per the sketch in figure 9.2. Using the measuring cable, put the 43.7 m ring on rebar D and layout the AH line perpendicular to the AC line; measure 31.3 m or 103' and place a rail post at both H. In like manner locate the BJ line; place rail post at J.

9.2.3 Locating the CG Fence Line

From point C swing a 180' arc in the area where point G will be located. Using the measuring cable with the 43.7 meter ring on D, swing an arc in the area of point G. Where the two arcs intersect is the exact location of point G.

9.2.4 Locating the Starting Box

Starting at point C, measure 27 feet along line CG, to locate point F (the corner of the Starting Box).

9.2.5 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the curves should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight.

Using the measuring cable with the 43.7 meter ring on rebar D, start at point G swing the arc to point H, placing fence post every 8 feet.

Construct the 1st straight from point F to G and install fence post every 8 ft.

Construct the final straight from point H to point J and install fence post every 8 feet. Note that this length is approximate and may have to be lengthened when the actual track distance is measured and the finish line is located.

Remove the rebar at points A, B, and C.

9.2.6 Locating the Finish line

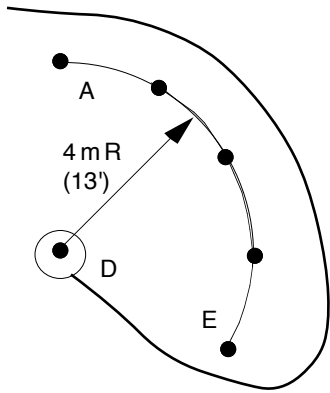
Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point F). The track distance one meter out from the fence is 220 meters, or 241 yards, or 722

feet. (If measured at the fence, the track distance is 216.3 meters, or 237 yards, or 710 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.2.7 Locating the Pulleys

All pulleys are located out from the fence 18 feet; except P5 which should be 5 feet from fence line.

220 Meter Drag Lure		
FROM	TO	DISTANCE
Point G	P1	60'
P1	P2	108
P2	P3	115'
Point H	P4	54'
Point J	P5	Approx 131'



Radius reducing detail

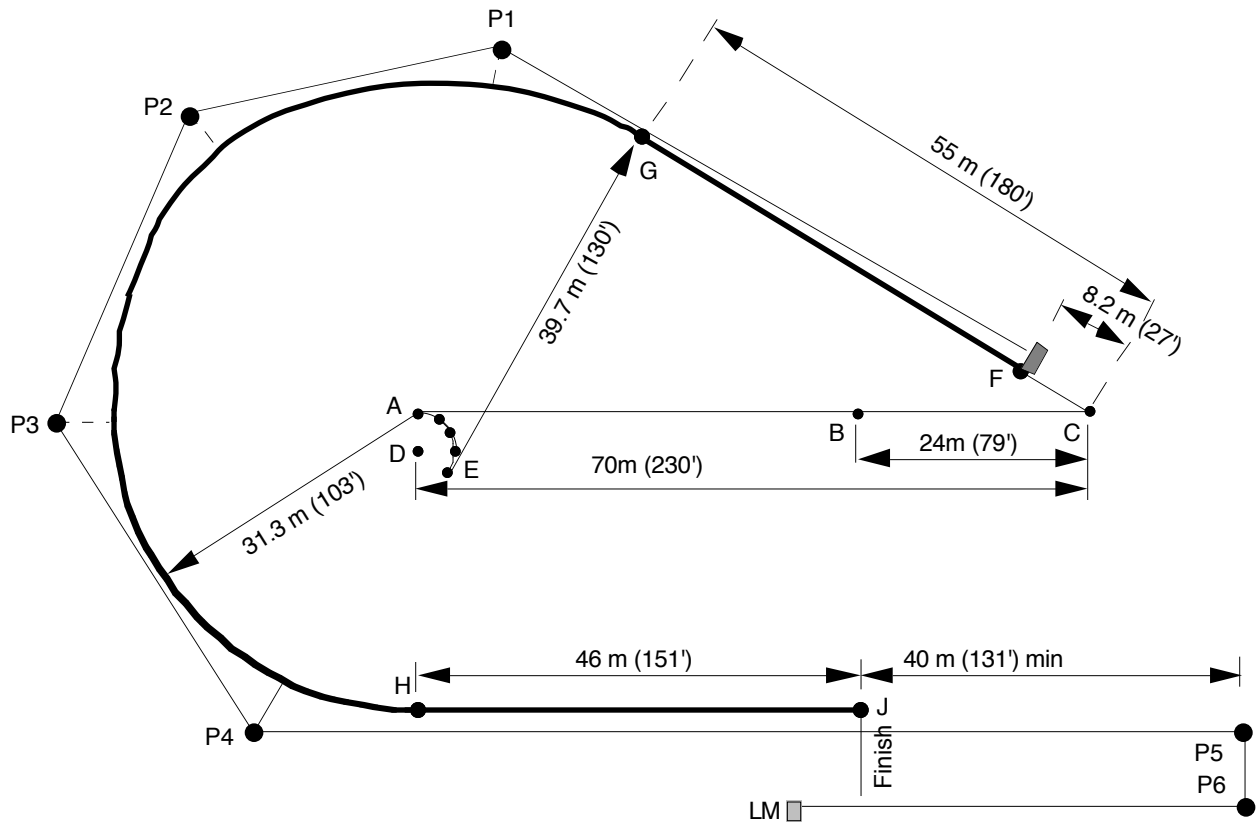


FIGURE 9.2 220 METER TRACK – DRAG LURE

9.3 270 YARD / 246 METER DRAG LURE TRACK

The layout of the 270 Yard or 246 Meter Basic track is shown in Figure 9.3.

Minimum Field Size: 400' X 340' (122 m X 104 m)
Track Circumference: 810' (247 m) - 1 m from inner fence
798' (243 m) (798 Feet) on inner fence

9.3.1 Locating the Track

Before starting to construct the track the base line A-B on Figure 9.3 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot the area being used.

9.3.2 Locating the Construction Points

Once the general location of the A-B line is established, install rebar poles at points A, B (120 feet from A), C (143 feet from B), and D (143 feet from C). Using the measuring cable, put the 43.7 m ring on rebar C and construct the BD half circle. Continue on past p[point D to point E; this arc is approximately 45 degrees (at the rail this arc will measure 109'). Note that this track does not require radius reduction.

9.3.3 Locating the Starting Box

Starting at point E, measure 120 feet lining up with the end of the D to E, to locate point F (the corner of the Starting Box).

9.3.4 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight up.

Finally install the final straight fence from point I to the Finish Line through point J. This fence should be approximately 141 feet.

Remove the rebar at points A, B, C, and D.

9.3.5 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point F). The track distance one meter out from the fence is 246 meters, or 270 yards, or 810 feet. (If measured at the fence, the track distance is 242 meters, or 266 yards, or 798 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.3.6 Locating the Pulleys

Pulleys 1 and 2 are 15 feet from the fence; and the rest are located out from the fence 18 feet.

270 Yard / 246 M Drag Lure		
FROM	TO	DISTANCE
Point E	P1	63'
Point D	P2	20'
P2	P3	110'
P3	P4	110'
P4	P5	110'
P5	P6	110'
FINISH LINE	P7	Approx 150'
P7	P8	Approx 30'

9.3.7 300 YARD / 275 METER DRAG LURE TRACK (ALTERNATIVE)

Follow the layout outlined in Section 9.3 270 YARD/246 M DRAG LURE TRACK with the following modifications:

The distance between Point A and Point B must measure 210 feet (approximately 194 m) for a total track distance of 300 yards (approx. 275 meters).

Pulley P8 is located appropriately for the revised distance.

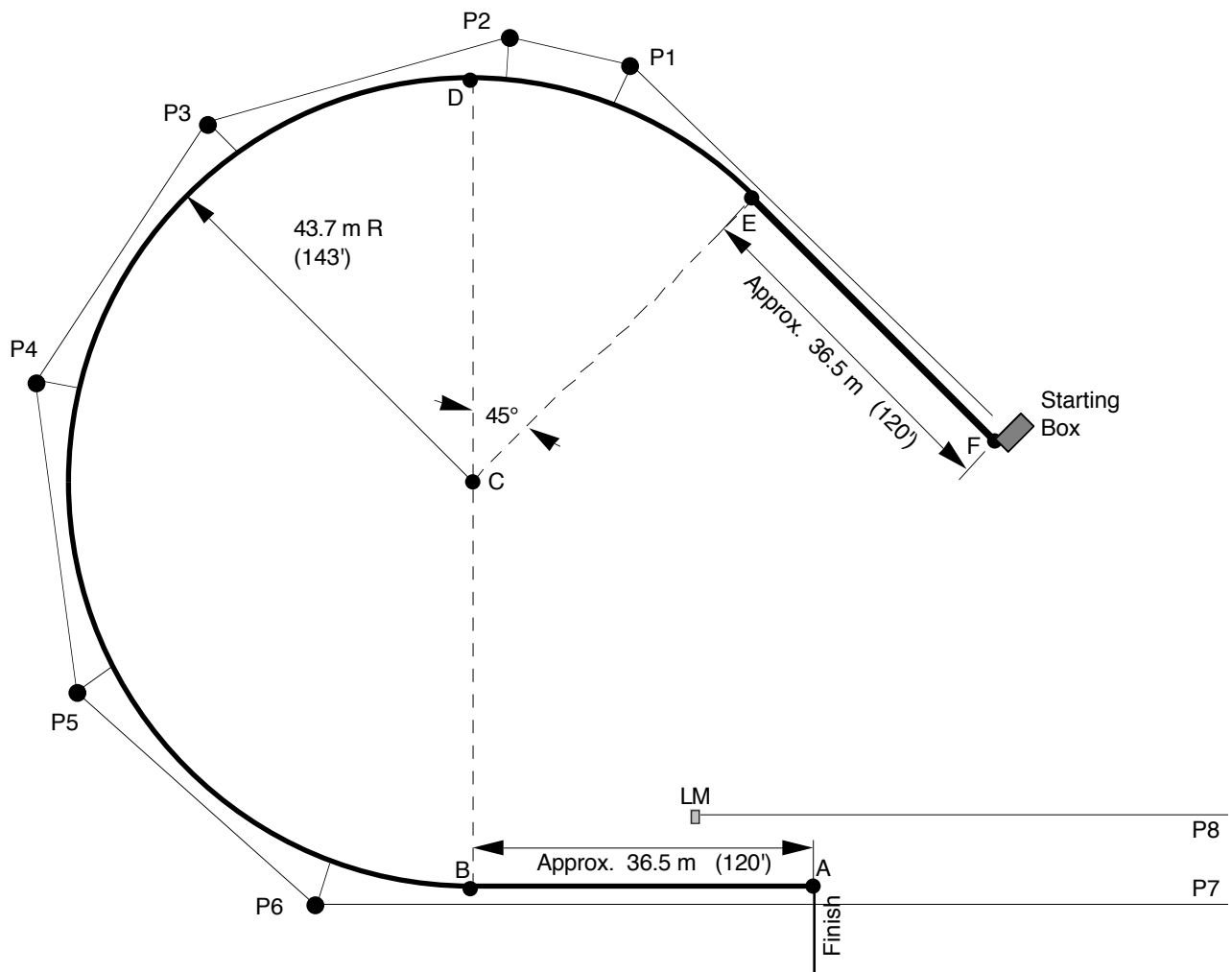


FIGURE 9.3 270 YARD / 246 METER TRACK – DRAG LURE

9.4 300 YARD / 275 METER DRAG LURE TRACK

The layout of the 300 Yard or 275 Meter Drag Lure track is shown in Figure 9.4.

Minimum Field Size: 500' X 320' (198 m X 153 m)
Track Circumference: 900' (275 m) - 1 m from inner fence
886' (270 m) on inner fence

9.4.1 Locating the Track

Before starting to construct the track the base line A-D on Figure 9.4 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot of the area being used.

9.4.2 Locating the Construction Points

Once the general location of the A-D line is established, install rebar poles at points A, B (25 feet from A), C (150 feet from B), and D (80 feet from C). The total length of A to D is 255 feet. Using the measuring cable, put the 39 m ring on rebar D and construct the FDI line perpendicular to the AD line; place a rail post at both F and I. In like manner locate the GCJ line; place rail post at G and J. Note that this track does not require radius reduction.

9.4.3 Locating the Starting Box

Starting at point A, measure 43 feet perpendicular to the AD line, to locate point E (the corner of the Starting Box).

9.4.4 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight up.

Starting at point E construct the fence from E to H passing through point B. Point H is 130 feet from point E.

Using the Measuring Cable, place the 39 meter ring on point C and using the zero ring construct the arc HG.

Construct a straight fence 80 feet long between points G and F.

Using the Measuring Cable, place the 39 meter ring on point D and using the zero ring construct the semi circle FI.

Finally install the final straight fence from point I to the Finish Line through point J. This fence should be approximately 141 feet.

Remove the rebar at points A, B, C, and D.

9.4.5 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point E). The track distance one meter out from the fence is 275 meters, or 300 yards, or 900 feet. (If measured at the fence, the track distance is 270 meters, or 295 yards, or 886 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.4.6 Locating the Pulleys

Pulleys 1 and 2 are 15 feet from the fence; and the rest are located out from the fence 18 feet.

300 Yard / 275 M Drag Lure		
FROM	TO	DISTANCE
Point H	P1	67'
P1	P2	31'
Point F	P3	67'
P3	P4	107'
P4	P5	107'
P5	P6	107'
P6	P7	Approx 390'
P7	P8	Approx 30'

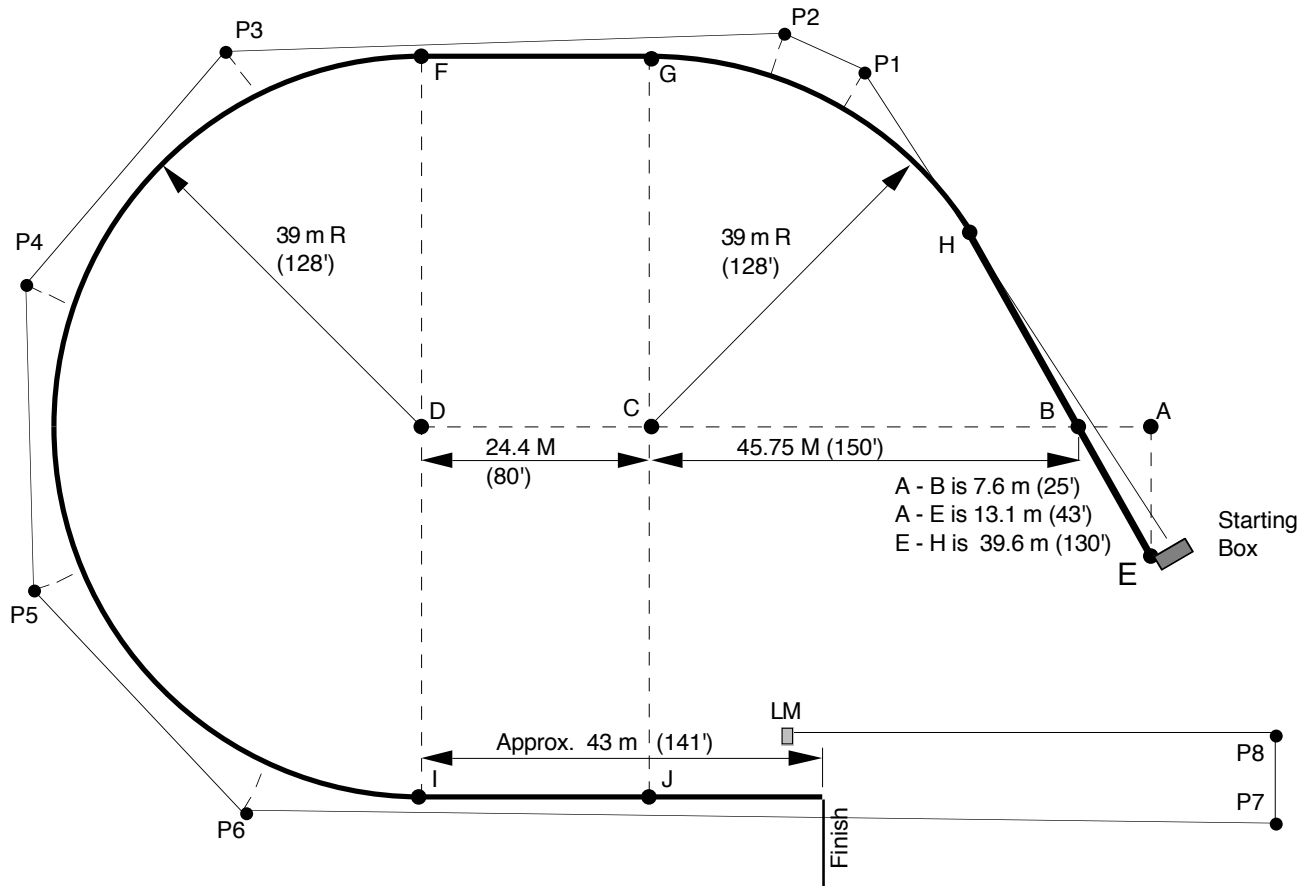


FIGURE 9.4 300 YARD / 275 METER TRACK – DRAG LURE

9.5 350 YARD DRAG LURE TRACK

Follow the layout outlined in Section 9.4, 300 YARD DRAG LURE TRACK with the following modifications:

- Extend the finish line 291 feet from the finish, 50 yards (43m). Total distance is 350 yards

Minimum Field Size: 500' x 320' (152 m X 98 m)

Track Circumference: 1050' (320 m)

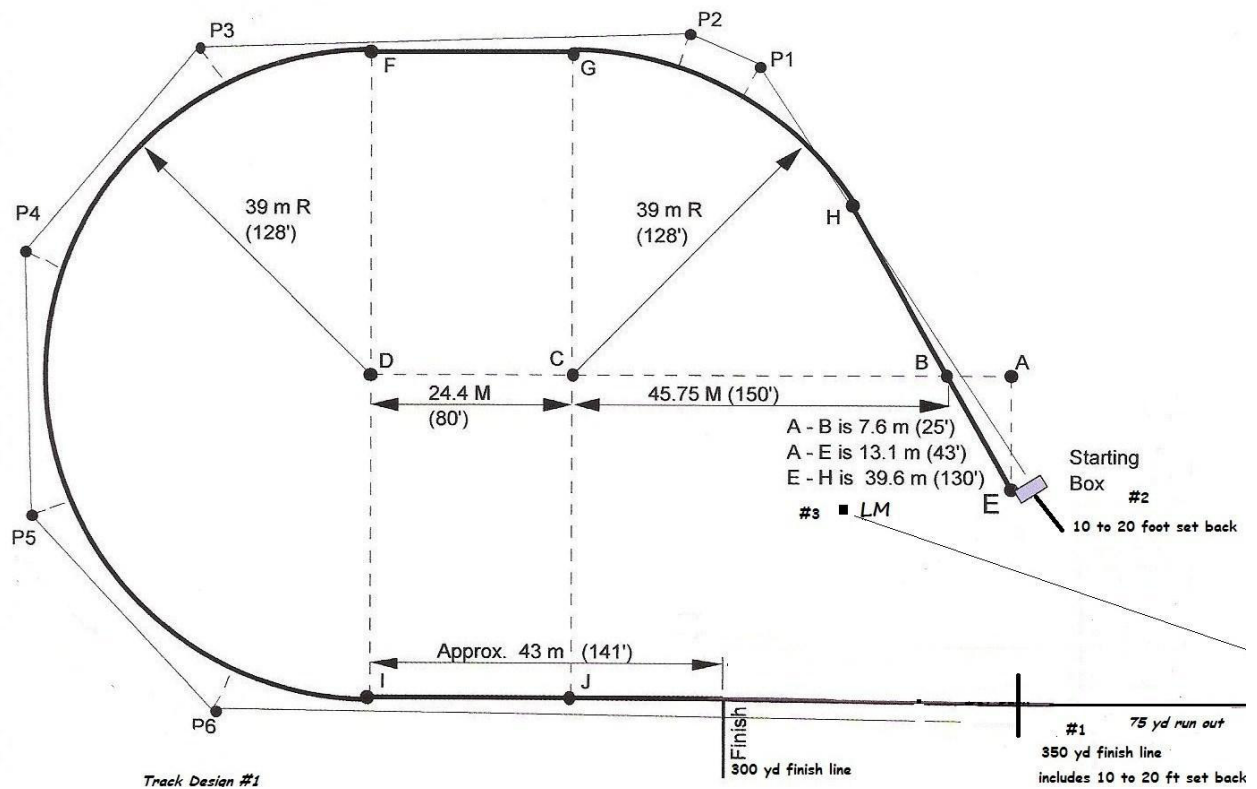


FIGURE 9.5 350 YARD TRACK – CONTINUOUS LOOP

9.6 350 METER DRAG LURE TRACK

The older version with the radius reducing circles as published in the 1987 rules is authorized for use as an alternate to this design.

Minimum Field Size: 460' X 345' (140 m X 105 m)
Track Circumference: 1148' (350 m) - 1 m from inner fence
1127' (343 m) on inner fence

9.6.1 Locating the Construction Points

Once the general location of the AB line is established, install rebar poles at points A, and B (115' feet from A). Locate point G 3 meters from line AB. Using the measuring cable, put the 39 m ring at G and construct the GAC line perpendicular to the AB line; place a rebar post at C. Use the cable to locate point E, which will be in a straight line with points G, a, and C.

In like manner locate the BD line using the 39 m ring; place rebar at D. Use the cable to locate point F, which will be in a straight line with points B and D.

9.6.2 Locating the Starting Box

The starting box is located with the front corner at point A.

9.6.3 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight up.

Starting at point A construct the fence from A to B that is 115 feet in length.

Using the Measuring Cable, place the 39 meter ring on point D and using the zero ring construct the semi circle BF, installing the fence post.

Construct a straight fence between points F and E.

Using the Measuring Cable, place the 39 meter ring on point C and using the zero ring construct the semi circle EG.

Finally install the final straight fence from point G to point H at the Finish Line. Fence line LM should be parallel to Fence AB and 3 meters to the outside. This fence should be approximately 100 feet.

Remove rebar at C and D.

9.6.4 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point A). The track distance one meter out from the fence is 350 meters, or 383 yards, or 1148 feet. (If measured at the fence, the track distance is 343.5 meters, or 376 yards, or 1127 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.6.5 Locating the Pulleys

All pulleys are located out from the fence 18 feet except P9 which is located so the string is 3' out at finish line.

350 M Drag Lure		
FROM	TO	DISTANCE
Point B	P1	75'
P1	P2	130'
P2	P3	130'
Point F	P4	25'
Point E	P5	95'
P5	P6	95'
P6	P7	95'
Point G	P8	60'
P8	P9	Approx 330'
P9	P10	Approx 30'

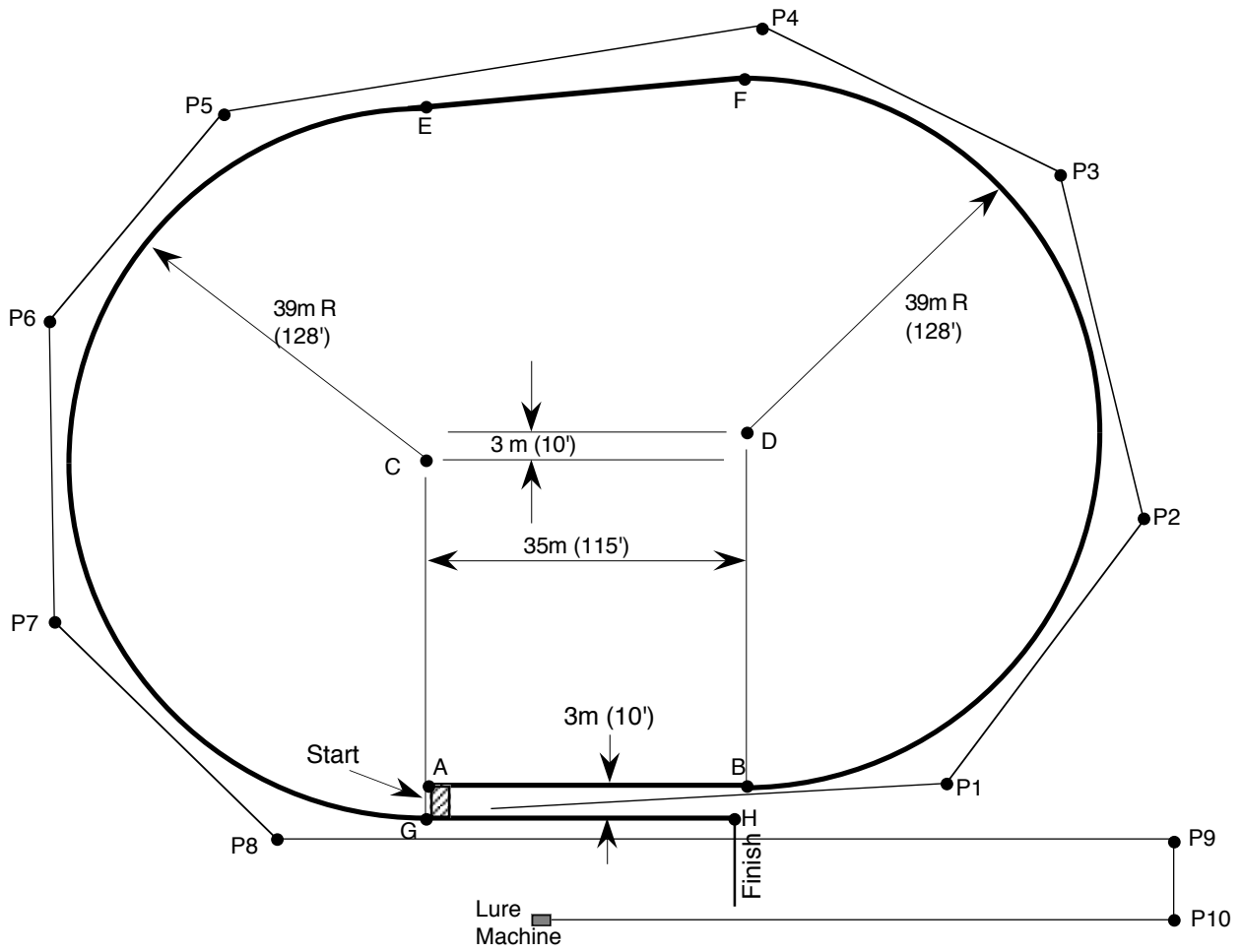


FIGURE 9.6 350 METER TRACK - DRAG LURE

9.7 350 METER MODIFIED UVAL

(with a 143' turning radius, measuring cable)

350 meters = 383 yards = 1148 feet

9.7.1 Locating the Track on the Field

- Before starting to place the stakes make sure that the base-line A - E is located such that there are no obstacles in the way of the track
- Make a preliminary measurement of 143' from points C & D to ensure the first turn and straight is free of obstacles
- Measure 143' + 80' from D to J to ensure the third turn and the final straightaway to the finish is free of obstacles.

9.7.2 Locating the Construction Points

- Install stakes at points A - B (20' distance apart); B - C (200'); C - D (80'); D - E (143') total length between A - E is 443'
- When placing the stakes make sure the line is straight by using the farthest stake to line up the stake closest to you.
- Using the measuring cable (143') construct the F - D - G - H line perpendicular to the A - E line.
- In like-wise manner, locate the- C - J - K line perpendicular to the A - E line.

9.7.3 Installing the Turns / Fence

- Create the arc for the second turn (between stakes F & E) using the cable as the measure and placing the stakes 6' apart and at an angle of 80° leaning inward.
- Create the arc for the third turn (between stakes L & H) using the cable as the measure and placing the stakes 6' apart and at an angle of 80° leaning inward.
- Create the arc for the first turn (between stakes I & M) using the cable as the measure and placing the stakes 6' apart and at an angle of 80° leaning inward. The point M is a 45° angle (see drawing: triangle C-I-M) or 1/2 of the total arc of the other turns.
- Measure and make sure that point E is 80' from point L; that point F is 80' from point I; that point H is 80' from K.

9.7.3 Locating the Starting Box

Measure 180' from point M to point N intersecting point B. The measurement from point A to point N should be approx. 40'. The starting box should be placed perpendicular to the line M - N

9.7.4 Locating the Finish Line

- Start at point K and measure a 30° angle inwards towards middle of track. The point from K to O is approximately 160' but the actual finish line is measured with the wheel from the start line. There must also be enough room for at least a 75' run-out past the finish line.
- Mark the finish approximately 160' from point K (measure 1148' from start to finish, 1m from inner fence)
- Use spray paint to mark a line perpendicular to the fence about 30' long.

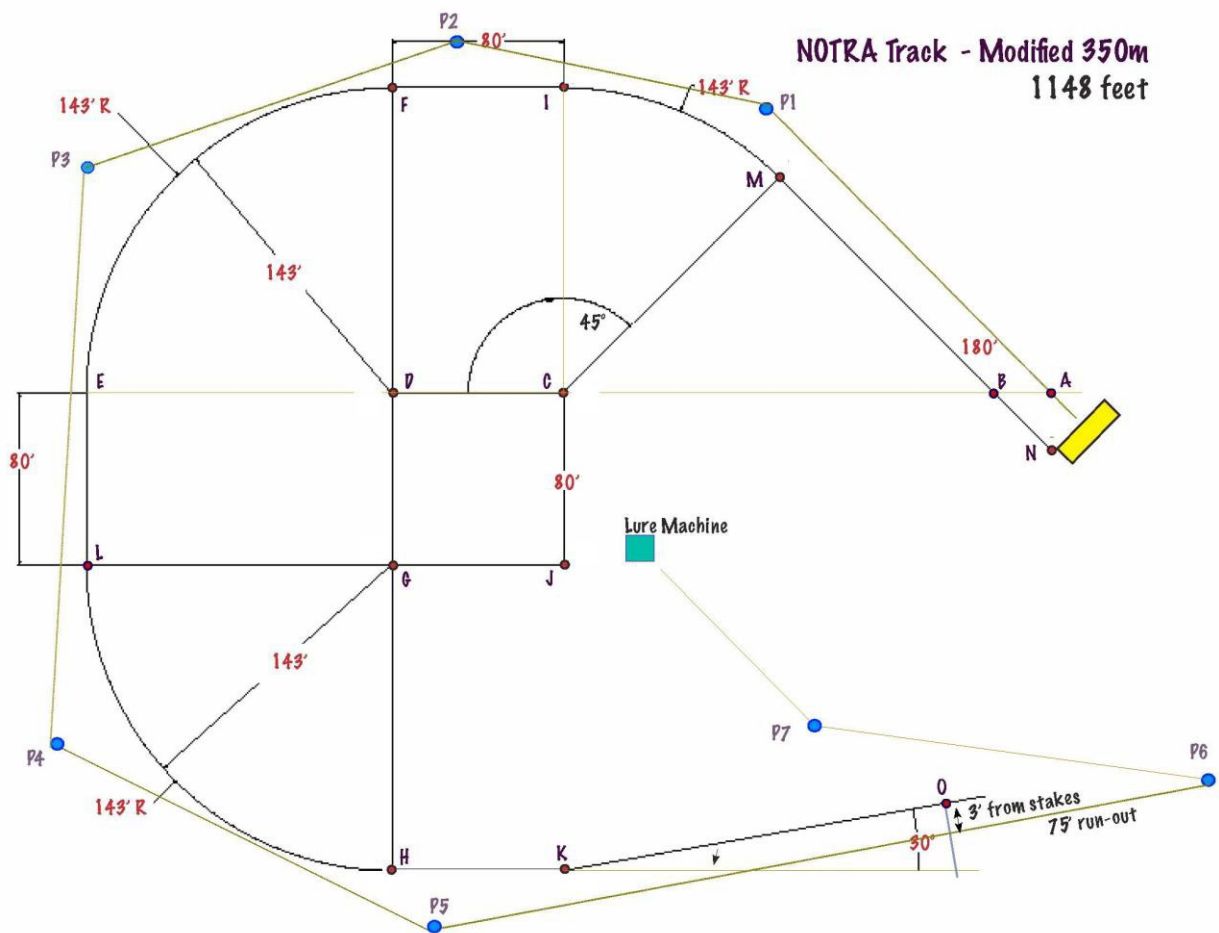
9.7.5 Locating the Pulleys

All pulleys are located 18 feet from the fence, see track plan for placement. Lure string runs 3' from inside stakes at finish line to P4. Adjust pulleys once line is strung to make sure it clears the stakes and will run correctly.

F - H is 366'

D - C - G - J is an 80' square

A - E is 443'



9.8 440 YARD DRAG LURE TRACK

The 440 Yard Drag Lure track is shown in Figure 9.6.

Minimum Field Size:	480' X 400' (146 m X 122 m)
Track Circumference:	1320' (402 m) - 1 m from inner fence 1300' (396 m) on inner fence

9.8.1 Locating the Construction Points

Once the general location of the AB line is established, install rebar poles at points A, and B (130 feet from A). Locate the HJ line 15 feet outside the AB line and install rebar poles at points H, and J (130 feet from H). Using the measuring cable, put the 43.7 m ring at H and construct the HC line perpendicular to the HJ line; place a rebar post at C.

In like manner locate the BD line using the 43.7 m ring on point B to locate point D; place a rebar post at D.

Replace the rebar post at points A, B, H, and J with fence post.

9.6.2 Locating the Starting Box

The starting box is located with the front corner at point A.

9.6.3 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angel of 80° and post in the straights should be straight up.

Starting at point A construct the fence from A to B that is 130 feet in length.

Using the Measuring Cable, place the 43.7 meter ring on point D and using the zero ring construct the semi circle BF, installing the fence post.

Using the Measuring Cable, place the 43.7 meter ring on point B and using the zero ring construct the semi circle GH.

Construct a straight fence between points F and G.

Finally install the final straight fence from point H to point J at the Finish Line. Fence line LM should be parallel to Fence AB and 15 feet to the outside. This fence should be approximately 130 feet.

Remove all rebar.

9.8.4 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point A). The track distance one yard out from the fence is 440 yards, or 402.5 meters, or 1320 feet. (If measured at the fence, the track distance is 433.3 yards, or 396 meters, or 1300 feet). Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 yards long.

9.8.5 Locating the Pulleys

All pulleys are located out from the fence 18 feet except P9 which is located so the string is 3' out at finish line.

440 Yard Drag Lure		
FROM	TO	DISTANCE
Point B	P1	72'
P1	P2	134'
P2	P3	134'
P3	P4	134'
P4	P5	187'
P5	P6	140'
P6	P7	140'
P7	P8	140'
P8	P9	Approx 360'
P9	P10	Approx 30'

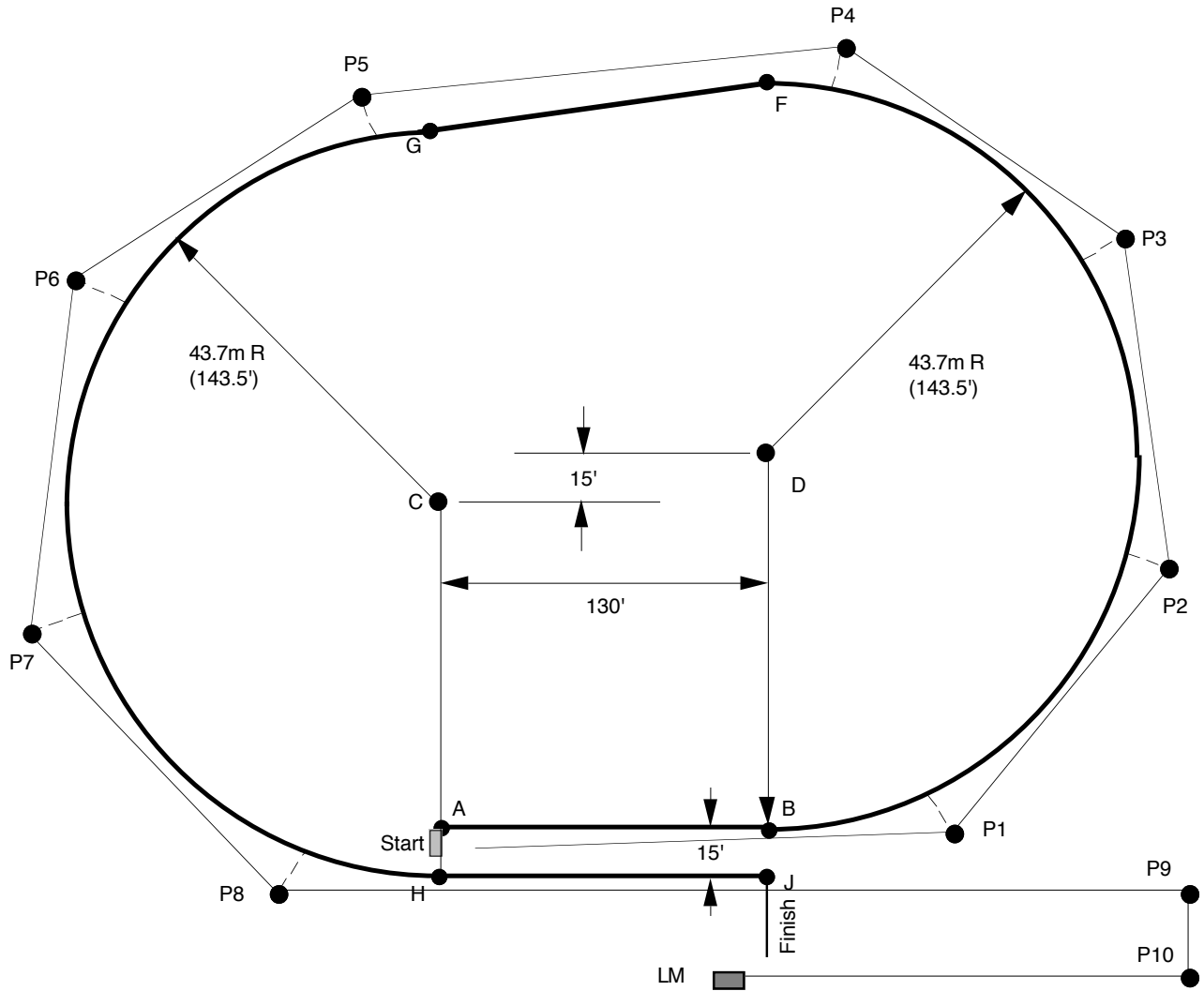


FIGURE 9.8 440 YARD TRACK - DRAG LURE

9.9 220 METER CONTINUOUS LOOP TRACK

The layout of the 220 Meter Continuous Loop track is shown in Figure 9.7.

Minimum Field Size:	414' X 295' (126 m X 90 m)
Track Circumference:	722' (220 m) - 1 m from inner fence 710' (216 m) on inner fence

9.9.1 Locating the Track

Before starting to construct the track the base line AC on Figure 9.7 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot of the area being used.

9.9.2 Locating the Construction Points

Once the general location of the AC line is established, install rebar poles at points A, B (151 feet from A), and C (79 feet from B). The total length of AC is 230 feet. Now that the line AC is established, locate the radius reducing rebar poles per the sketch in figure 9.7. Using the measuring cable, put the 43.7 m ring on rebar D and layout the AH line perpendicular to the AC line; measure 31.3 m or 103' and place a rail post at both H. In like manner locate the BJ line; place rail post at J.

9.9.3 Locating the CG Fence Line

From point C swing a 180' arc in the area where point G will be located. Using the measuring cable with the 43.7 meter ring on D swing an arc in the area of point G. Where the two arc's intersect is the exact location of point G.

9.9.4 Locating the Starting Box

Starting at point C, measure 27 feet along line CG , to locate point F (the corner of the Starting Box).

9.9.5 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the curves should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight.

Using the measuring cable with the 43.7 meter ring on rebar D, start at point G swing the arc to point H, placing fence post every 8 feet.

Construct the 1st straight from point F to point G and install fence post every 8'.

Construct the final straight from point H to point J and install fence post every 8 feet. Note that this length is approximate and may have to be lengthened when the actual track distance is measured and the finish line is located.

Remove the rebar at points A, B, and C.

9.9.6 Locating the Finish line

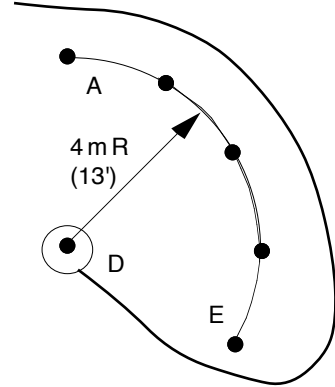
Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point F). The track distance one meter out from the fence is 220 meters, or 241 yards, or 722 feet. (If measured at the fence, the track distance is 216.3 meters, or 237 yards, or 710 feet.)

Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.9.7 Locating the Pulleys

All pulleys are located out from the fence 22 feet; except P7 which should be 5 feet from fence line.

220 M Continuous Loop		
FROM	TO	DISTANCE
Point G	P1	60'
P1	P2	80'
P2	P3	80'
P3	P4	80'
P4	P5	80'
P5	P6	80'
Point J	P7	Approx 131'



Radius reducing detail

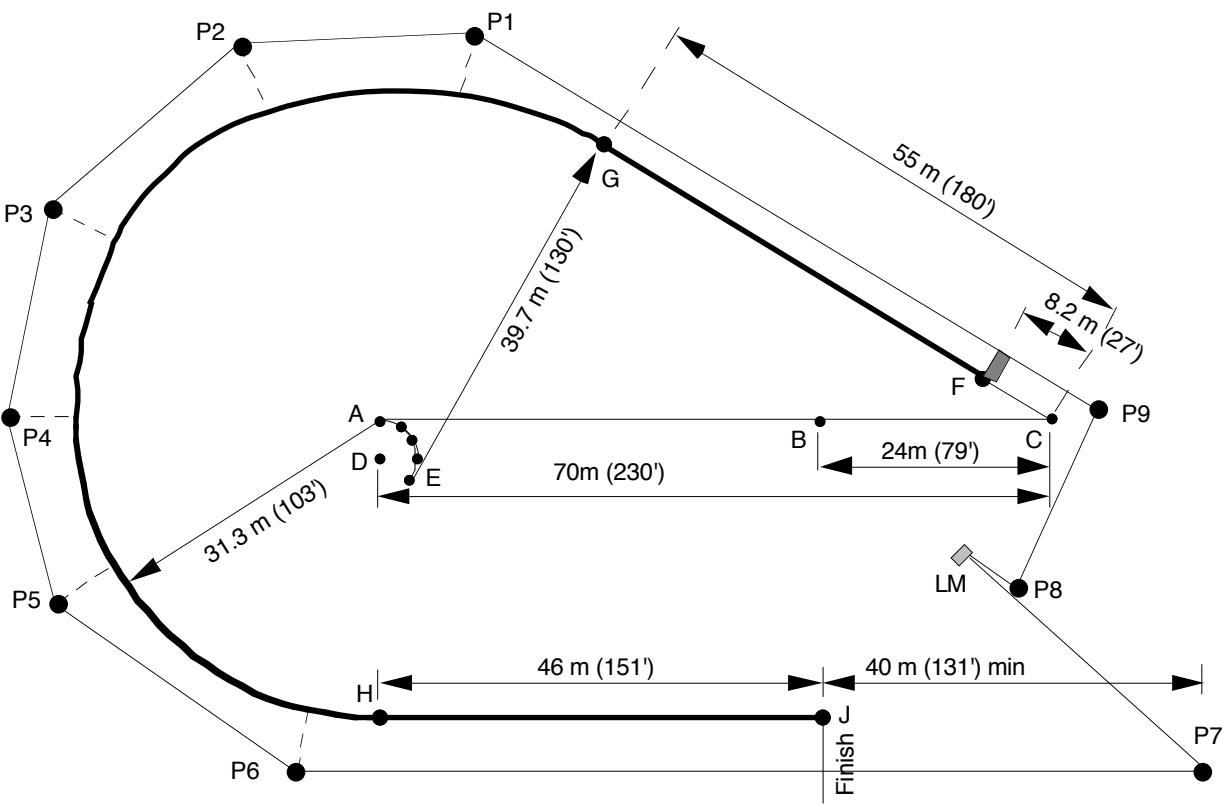


FIGURE 9.7 220 METER TRACK - CONTINUOUS LOOP

9.10 270 YARD / 246 Meter CONTINUOUS LOOP LURE TRACK

The layout of the 246 Meter or 270 Yard Basic track is shown in Figure 9.8

Minimum Field Size:	400' X 340' (122 m X 104 m)
Track Circumference:	810' (247 m) - 1 m inner from fence 798' (243 m) on inner fence

9.10.1 Locating the Track

Before starting to construct the track the base line A-B on Figure 9.8 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot the area being used.

9.10.2 Locating the Construction Points

Once the general location of the A-B line is established, install rebar poles at points A, B (120 feet from A), C (143 feet from B), and D (143 feet from C). Using the measuring cable, put the 43.7 m ring on rebar C and construct the BD half circle. Continue on past p[point D to point E; this arc is approximately 45 degrees (at the rail this arc will measure 109'). Note that this track does not require radius reduction.

9.10.3 Locating the Starting Box

Starting at point E, measure 120 feet lining up with the end of the D to E, to locate point F (the corner of the Starting Box).

9.10.4 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight up.

Finally install the final straight fence from point I to the Finish Line through point J. This fence should be approximately 141 feet.

Remove the rebar at points A, B, C, and D.

9.10.5 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point F). The track distance one meter out from the fence is 246 meters, or 270 yards, or 810 feet. (If measured at the fence, the track distance is 242 meters, or 266 yards, or 798 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.10.6 Locating the Pulleys

All pulleys are located out from the fence 22 feet.

270 Yard / 246 M Continuous Loop		
FROM	TO	DISTANCE
Point E	P1	63'
P1	P2	85'
P2	P3	85'
P3	P4	85'
P4	P5	85'
P5	P6	85'
P6	P7	85'
Finish Line	P8	Approx 150'

9.10.7 300 YARD / 275 METER CONTINUOUS LOOP LURE TRACK (Alternative)

Follow the layout outlined in Section 9.8 270 YARD/246 M CONTINUOUS LOOP LURE TRACK with the following modifications:

The distance between Point A and Point B must measure 210 feet (approximately 194 m) for a total track distance of 300 yards (approx. 275 meters).

Pulley P8 is located appropriately for the revised distance.

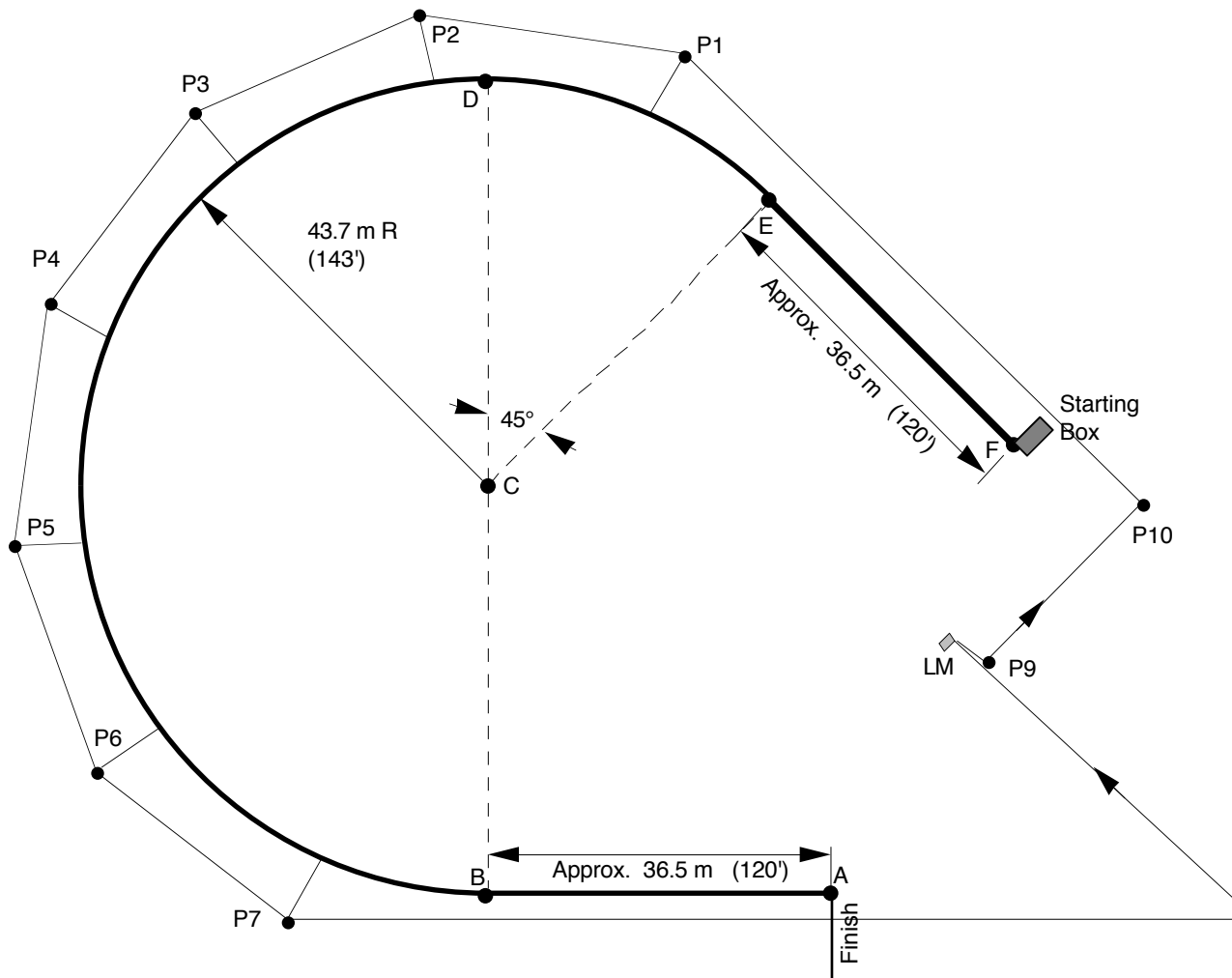


FIGURE 9.10 270 YARD / 246 METER TRACK - CONTINUOUS LOOP

9.11 300 YARD / 275 METER CONTINUOUS LOOP TRACK

The layout of the 300 Yard or 275 Meter Continuous Loop track is shown in Figure 9.9.

Minimum Field Size: 500' X 320' (152 m X 98 m)
Track Circumference: 900' (275 m) - 1 m from inner fence
886' (270 m) on inner fence

9.11.1 Locating the Track

Before starting to construct the track the base line A-D on Figure 9.9 must be located such that when the track is installed it will not result in obstacles in the racing area. On a copy of the Track Diagram, plot the area being used.

9.11.2 Locating the Construction Points

Once the general location of the A-D line is established, install rebar poles at points A, B (25 feet from A), C (150 feet from B), and D (80 feet from C). The total length of A to D is 255 feet. Using the measuring cable, put the 39 m ring on rebar D and construct the FDI line perpendicular to the AD line; place a rail post at both F and I. In like manner locate the GCJ line; place rail post at G and J. Note that this track does not require radius reduction.

9.11.3 Locating the Starting Box

Starting at point A, measure 43 feet perpendicular to the AD line, to locate point E (the corner of the Starting Box).

9.11.4 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight .

Starting at point E construct the fence from E to H passing through point B. Point H is 130 feet from point E.

Using the Measuring Cable, place the 39 meter ring on point C and using the zero ring construct the arc HG.

Construct a straight fence 80 feet long between points G and F.

Using the Measuring Cable, place the 39 meter ring on point D and using the zero ring construct the semi circle FI.

Finally install the final straight fence from point I to the Finish Line through point J. This fence should be approximately 141 feet.

Remove the rebar at points A, B, C, and D.

9.11.5 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point E). The track distance one meter out from the fence is 275 meters, or 300 yards, or 900 feet. (If measured at the fence, the track distance is 270 meters, or 295 yards, or 886 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.11.6 Locating the Pulleys

All pulleys are located out from the fence 22 feet.

300 Yard / 275 M Continuous Loop		
FROM	TO	DISTANCE
Starting Box	P1	180'
P1	P2	85'
P2	P3	85'
P3	P4	85'
P4	P5	85'
P5	P6	85'
P6	P7	85'
P7	P8	85'
P8	P9	Approx 390'

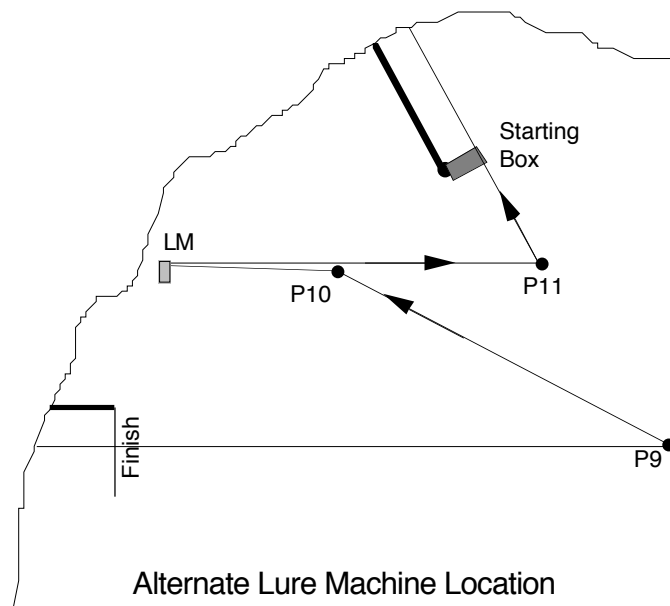
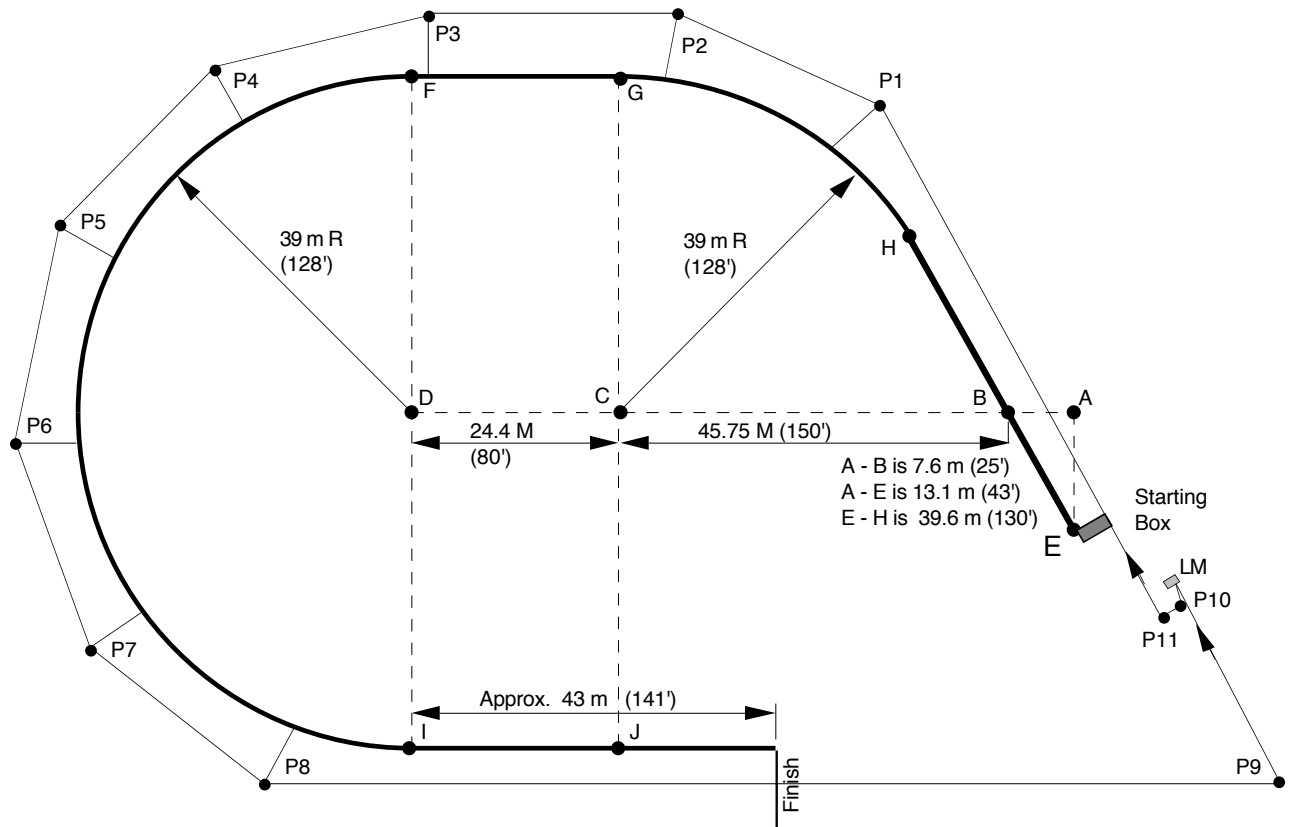


FIGURE 9.11 300 YARD / 275 METER TRACK - CONTINUOUS LOOP

9.12 350 METER CONTINUOUS LOOP TRACK

The 350 Meter Continuous Loop Track is shown in Figure 9.10. The older version with the radius reducing circles as published in the 1987 rules is authorized for use as an alternate to this design.

Field Size: 460' X 345' (140 m X 105 m)
Track Circumference: 1148' (350 m) - 1 m from inner fence
1127' (343 m) on inner fence

9.12.1 Locating the Construction Points

Once the general location of the AB line is established, install rebar poles at points A, and B (115' feet from A). Locate point G 3 meters from line AB. Using the measuring cable, put the 39 m ring at G and construct the GAC line perpendicular to the AB line; place a rebar post at C. Use the cable to locate point E, which will be in a straight line with points G, A, & C.

In like manner locate the BD line using the 39 m ring; place rebar at D. Use the cable to locate point F, which will be in a straight line with points B and D.

9.12.2 Locating the Starting Box

The starting box is located with the front corner at point A.

9.12.3 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight

Starting at point A construct the fence from A to B that is 115 feet in length.

Using the Measuring Cable, place the 39 meter ring on point D and using the zero ring construct the semi circle BF, installing the fence post.

Construct a straight fence between points F and E.

Using the Measuring Cable, place the 39 meter ring on point C and using the zero ring construct the semi circle EG.

Finally install the final straight fence from point G to point H at the Finish Line. Fence line GH should be parallel to Fence AB and 3 meters to the outside. This fence should be approximately 100 feet.

Remove all rebar.

9.12.4 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point A). The track distance one meter out from the fence is 350 meters, or 383 yards, or 1148 feet. (If measured at the fence, the track distance is 343.5 meters, or 376 yards, or 1127 feet.) Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 meters long.

9.12.5 Locating the Pulleys

All pulleys are located out from the fence 22 feet except P12 which is located so the string is 8' out at finish line.

350 M Continuous Loop		
FROM	TO	DISTANCE
Point B	P1	79'
P1	P2	80'
P2	P3	80'
P3	P4	80'
P4	P5	80'
P5	P6	80'
P6	P7	140'
P7	P8	80'
P8	P9	80'
P9	P10	80'
P10	P11	80'
Point L	P12	30'
P12	P13	Approx 300'
P13	P14	Approx 10'

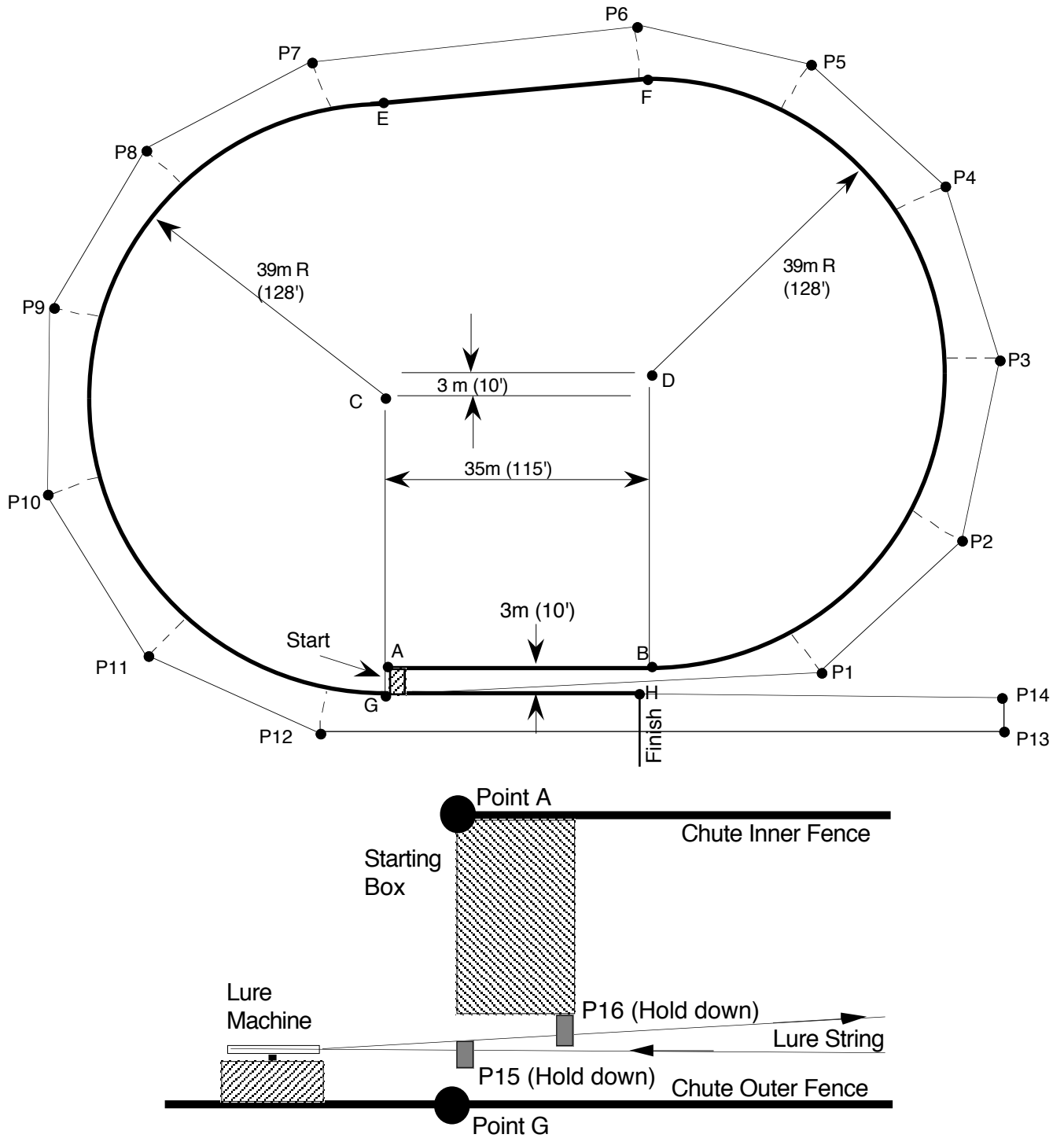


FIGURE 9.12 350 METER TRACK - CONTINUOUS LOOP

9.13 440 YARD CONTINUOUS LOOP TRACK

The 440 Yard Continuous Loop track is shown in Figure 9.11.

Minimum Field Size: 480' X 400' (146 m X 122 m)
Track Circumference: 1320' (402 m) - 1 m from inner fence
1300' (396 m) on inner fence

9.13.1 Locating the Construction Points

Once the general location of the AB line is established, install rebar poles at points A, and B (130 feet from A). Locate the HJ line 15 feet outside the AB line and install rebar poles at points H, and J (130 feet from H). Using the measuring cable, put the 43.7 m ring at H and construct the HC line perpendicular to the HJ line; place a rebar post at C.

In like manner locate the BD line using the 43.7 m ring on point B to locate point D; place a rebar post at D.

Replace the rebar post at points A, B, H, and J with fence post.

9.13.2 Locating the Starting Box

The starting box is located with the front corner at point A.

9.13.3 Installing the Fence

The fence post should be 8 feet apart around the entire track. Post that are in the arc's should be slanted so that the tops point inward at an angle of 80° and post in the straights should be straight

Starting at point A construct the fence from A to B that is 130 feet in length.

Using the Measuring Cable, place the 43.7 meter ring on point D and using the zero ring construct the semi circle BF, installing the fence post.

Using the Measuring Cable, place the 43.7 meter ring on point B and using the zero ring construct the semi circle GH.

Construct a straight fence between points F and G.

Finally install the final straight fence from point H to point J at the Finish Line. Fence line LM should be parallel to Fence AB and 15 feet to the outside. This fence should be approximately 130 feet.

Remove all rebar.

9.13.4 Locating the Finish line

Using the measuring wheel, measure the circumference of the track starting at the Starting Box (Point A). The track distance one yard out from the fence is 440 yards, or 402.5 meters, or 1320 feet. (If measured at the fence, the track distance is 433.3 yards, or 396 meters, or 1300 feet). Once the Finish Line has been located, use the spray paint to mark a line perpendicular to the fence about 10 yards long.

9.13.5 Locating the Pulleys

All pulleys are located out from the fence 22 feet except P9 which is located so the string is 3' out at finish line.

440 Yard Continuous Loop		
FROM	TO	DISTANCE
Point B	P1	78'
P1	P2	90'
P2	P3	90'
P3	P4	90'
P4	P5	90'
P5	P6	90'
P6	P7	136'
P7	P8	90'
P8	P9	90'
P9	P10	90'
P10	P11	90'
Point H	P12	67'
P12	P13	Approx 300'
P13	P14	Approx 10'

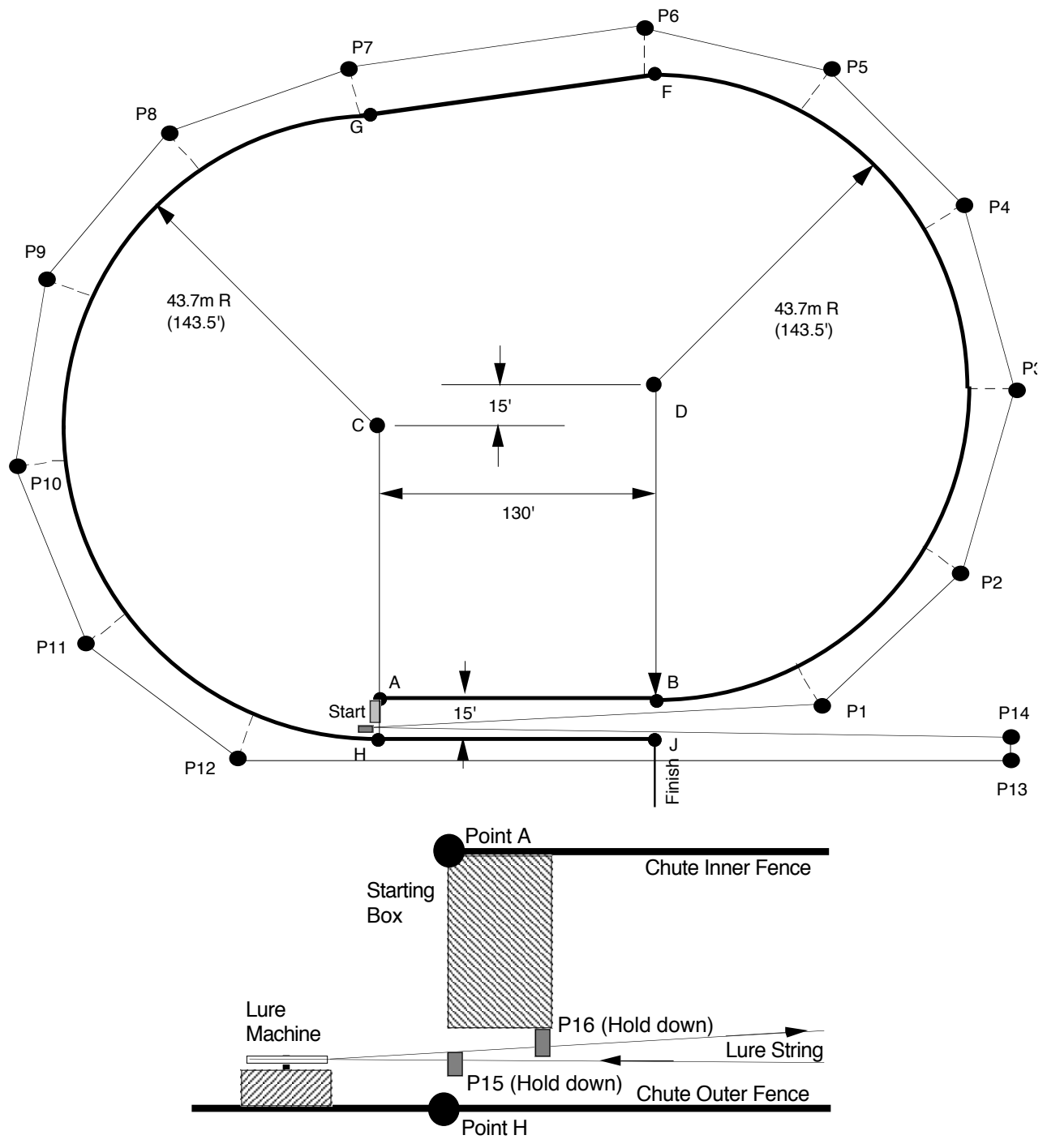
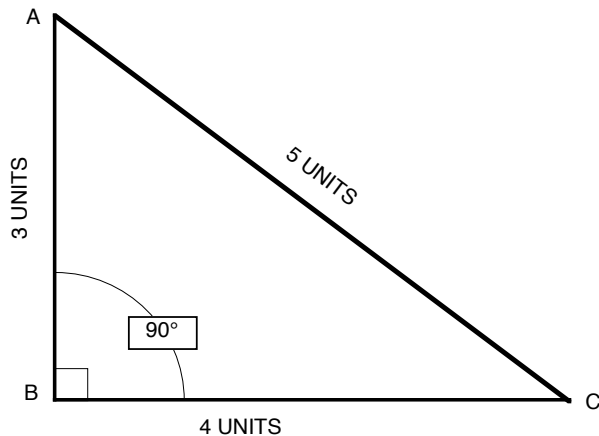


FIGURE 9.13 440 YARD TRACK - CONTINUOUS LOOP

9.14 MISCELLANEOUS CONSTRUCTION TIPS

9.14.1 Constructing Right Angle Lines

On all the tracks it is necessary to construct lines that are perpendicular (or at 90°) to each other. This can be very difficult out on the field. A simple way to make a 90° angle is to use a 3,4,5 triangle per the sketch below. Line AB is 3 units (a unit can be 1 foot, 10 feet, etc.); Line BC is 4 units; and line CA is 5 units. The angle ABC will be the 90° , right angle, (or Line BC is perpendicular to Line AB)



9.14.2 4 Meter Radius Reducer

The 220 Meter Tracks require the use of a 4 meter radius reducer. The figures for the 220 show the details of the radius reducer. **This reducer uses 5 rebar poles at 30° intervals for a total of 120° plus the pole at the center of the arc.** The distance between poles on the arc is 2.1 meters or 6.86 feet (that is 6 foot, 10.4 inches).