

**SOUTH  
DAKOTA  
FIREFIGHTERS  
ASSOCIATION  
OFFICIAL  
EVOLUTION  
RULES**

REVISED: April 2017

**SOUTH DAKOTA FIREFIGHTERS ASSOCIATION  
FIRE SCHOOL EVOLUTION RULES**

**EVOLUTION COMMITTEE**

There will be an Evolution Committee whose responsibility may include, but is not limited to the following: make preparations for evolutions each year, determine adequate location, pavement marking, permission from property owner, inventory equipment, arranging for picking up and delivering "trailer" to the site, revision of rules book, purchase trophy's for all evolutions, arrange for judges, set and receive entry fee, verify participants have adequate insurance, purchase necessary supplies, stop watches, registration form, and other items as be necessary. The Evolution Committee may add or delete evolutions as they desire.

**GENERAL GUIDELINES**

In addition to the rules described for each evolution, the following rules apply to all teams, all evolutions, and all parade participants.

1. Any competing department and team members shall be members of the SDFA and pay an entry fee. Pre-registration shall include proof of workers compensation, or medical insurance and entry fee to be received by the Evolution Committee at a time determined by the Evolution Committee before evolution event. Women participating in Auxiliary evolutions must be members of the SDFA Auxiliary. The registration fee is applicable to each team entered.
2. A fire department may have a three member team; a five member team; both a three & a five member team, or two of either three or five member teams. However, if a department enters two separate team entries, each team must be separate participating team members from each other (In other words, no participant may run on two separate teams, for example, cannot participate on that departments' three and fire person teams – must be on one or the other team.)
3. Each competing department must have all participating team members attend and complete a full schedule of classes.
4. The eligibility list must be turned in to the Evolution Committee prior to any evolution or the official parad (if a parade is scheduled).
5. Any team found ineligible will not receive points or trophies.
6. Any physical abuse or excessive verbal abuse by any team member, member of their department, or official, to any official of the evolutions, may result in the team being suspended from all competition by judge(s)\_action.
7. Departments must have five or three firefighters in the line of march in the official parade (if a parade is held); respective of the evolutions they may wish to enter.
8. No participants will be allowed to have or consume alcoholic beverages during the parade or during the evolutions.
9. No participants or fire apparatus will be allowed to discharge water during the parade.
10. Infractions of Rules 7, 8 or 9 will be punished by the member or team being ineligible to receive trophies or class certificates.
11. Any team that is disqualified for any reason will lose all points and will not be allowed to run evolutions at the next State fire school. No team will receive the disqualified team's points. If the disqualified team is in first place in any race, that trophy will be awarded to the second place team. The same procedure will apply to the championship trophy as well.

**TROPHIES**

A championship trophy will be presented to the department receiving the most total points in competitive evolutions and a trophy will be given the department awarded first place in each of the various evolutions. Points will be awarded as follows: First place - 10 points, Second - 7 points, Third - 5 points, Fourth - 3 points, Fifth - 2 points, Sixth - 1 point. All evolutions must be completed or the contestants will be disqualified and cannot receive points on the evolution. In the event the State Championship ends in a tie, the total official time for all evolutions will be used to decide the Championship. If a tie still exists, an evolution chosen by lottery will be run to determine the championship.

## HOSE LAYS AND EQUIPMENT

1. All hose laid in a truck bed must not extend beyond the floor or side of the truck hose bed. (Hose bed to be determined by judges prior to evolution.)
2. Hose shall be laid in hose bed in proper manner as customary in fire departments. (There shall be no twisting of hose). Hose must lay flat in wells or troughs. Hose must be drained of excess water.
3. All equipment such as nozzles, etc. will be placed on the truck. There will be no equipment on the starting line.
4. All caps and pre-connected hoses will be placed on the connections two full turns before the start of the race.
5. No equipment will be furnished by the S DFA or Host Department for evolution practice. Equipment may be used from the Host Department for evolutions if the S DFA sees fit.
6. All truck outlets and inlets will have caps.
7. All evolutions will be run as illustrated except as noted with local conditions per pre-registration form.
8. All five firefighter and three firefighter evolutions using 2 1/2 line must have two firefighters with hands on the line within 15' of the nozzle when it is charged and water is flowing from the nozzle.

## PROTESTS

If a team feels they were unfairly judged in an evolution, the TEAM CAPTAIN ONLY may appear before the evolution committee or the designated personnel authorized by the evolution committee to act as judges, to present a protest, IMMEDIATELY following the evolution. A team can protest on their own behalf ONLY, and cannot protest the judging of another team. The committee or authorized designated personnel shall act as judges of all contests and appeals. No races will be run over unless by UNANIMOUS vote of the committee or authorized designated judges.

## GENERAL

1. No judge may participate in the evolutions. Any team running in the same lapsed time including penalties shall run the evolution over at the conclusion of regular running of that evolution of their respective position.
2. The CAPTAIN of the squad shall report to the starter before the start of each evolution and designate as to which member of the squad will act as foreman and will call the "GO" signal.
3. Any questions as to the interpretation of these rules will be up to the committee/authorized designated judges and their rulings will be final.
4. All evolutions must be completed or the contestants will be disqualified and cannot receive points.
5. ONE and ONLY ONE member per evolution team MUST attend the TEAM CAPTAINS MEETING, or the team will be DISQUALIFIED.
6. All gaskets shall be removed for both hose's and nozzles prior to the running of evolutions. Each team is responsible to check their equipment for obstructions prior to the running of their race.
7. The starting line shall run from the curb out for 20 feet. All team members will be straddling the line in an upright position at the start of the race.
8. Protective clothing to be worn in all evolutions: coats, pants, boots, helmet, and gloves according to NFPA Standards 1971 current as to time of equipment manufacture. Auxiliary evolutions need all except boots, but must have ankle protection.
9. No committee member/designated judge can time his or her departments' team's evolution.

10. Race order will be as follows:

Five-firefighter: Window/Hose; Hose; Bursted Length; and Truck.

Three-firefighter: Lengthen Hose; Gated Wye; Truck.

11. Three (3) S DFA stop watches will be used and the highest time to be dropped.

### **PENALTIES**

The first fifteen penalties are the same for ALL three and five firefighter races. They will be listed here and not on all races individually. Penalties listed with each race are those that pertain only to that race. ALL penalties will be enforced.

1. There will be a ten second penalty for a blown coupling. To be called a blown coupling, the team must lose control of at least one end of the coupling.

Before an evolution can be judged as being completed, team members must leave all connections except nozzles at which time the judges will turn off the water at the source. A 10 second penalty for non-compliance with the above. If any connection blows from the time the target is down until the water is turned off, it will be counted as a blown coupling.

2. Ten second penalty for infraction known as jumping the starter's gun. Said penalty not in effect unless the gun has been fired.

3. Three second penalty for each thrown, dragged, or dropped single coupling and other threaded equipment worked on by the team. Nozzles out of control will be the same as a blown coupling.

4. Three second penalty for dropping any cap other than the hydrant cap, which may be dropped.

5. If a team is not ready to run within five minutes prior to their turn when called by the starter, they may take a turn later, but a ten second penalty will be added to their time in the evolution. (3 minutes setup for 3 firefighter, 5 minutes setup for 5 firefighter.)

6. A designated judge or committee member may, in order to avoid injury to anyone, step in to help maintain or control a nozzle, hose, etc. The race will be valid however; a penalty for equipment out of control will apply in this case. The evolution committee may in cases of extreme water pressure, appoint a safety director to assist all teams to prevent injury to anyone. The designated judges or committee may interrupt a race if they see fit to avoid injury to anyone.

7. Penalty calls will be designated by dropping a red flag at the time of the infraction.

8. Five second penalty for working any coupling or nozzle after the final target is down.

9. All penalties assessed to a team on the first run of an evolution that is rerun because of equipment failure, shall be carried over to the rerun race.

10. There will be a ten second penalty in any race for improper equipment placement.

11. A five second penalty will be assessed in any and all races for straddling charged line while operating a nozzle.

12. Five second penalty for not keeping two firefighters, where required, on the nozzle when it is charged.

13. Five second penalty for not draining hose of excess water.

### THREE FIREFIGHTER AND AUXILIARY EVOLUTION LENGTHENING A HOSE EVOLUTION

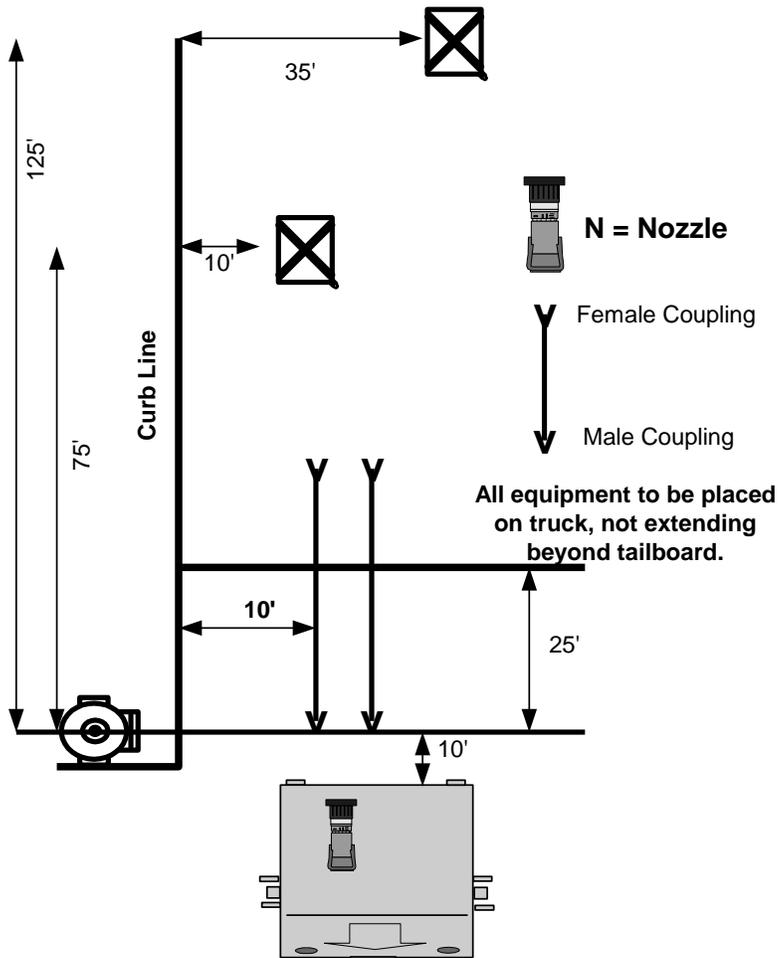
100 feet of 2 1/2 inch hose will be laid in two parallel lengths on the pavement with the couplings (male) closest to the hydrant. The hydrant shall be charged prior to the start of all evolutions. Note: The ¼ turn gate valve shall be located & attached on the “down field” side of the hydrant prior to the beginning of the race. At the signal from the starter, the team will remove cap from ¼ turn gate valve, connect one length to the gate on the hydrant, attach nozzle, and knock down first target 75 feet from the hydrant. 'GO' firefighter will then give 'GO' signal after which time they will close gate, remove nozzle, attach second length of hose to original line, attach nozzle, re-open gate and knock down second target 125 feet from hydrant. All equipment such as nozzles, etc. will be placed on the truck in any position; there will be no equipment on the starting line. Equipment used: 2 lengths of 2 1/2 inch hose and one service nozzle. Gate will be placed on the hydrant in advance of race in the closed position. 2 1/2 inch line must have two firefighters on the line when it is charged.

**Special Note: Auxiliary**

Auxiliary will use 1 ½" or 1 ¾" hose, instead of 2 ½". Auxiliary will require only one (1) person on hose.

**PENALTIES**

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or 'GO' signal called by someone other than designated firefighter.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Five second penalty for not having two firefighters within 15' of nozzle at all times when water is flowing from nozzle.



### THREE FIREFIGHTER EVOLUTION AND AUXILLARY 1 1/2" GATED WYE EVOLUTION

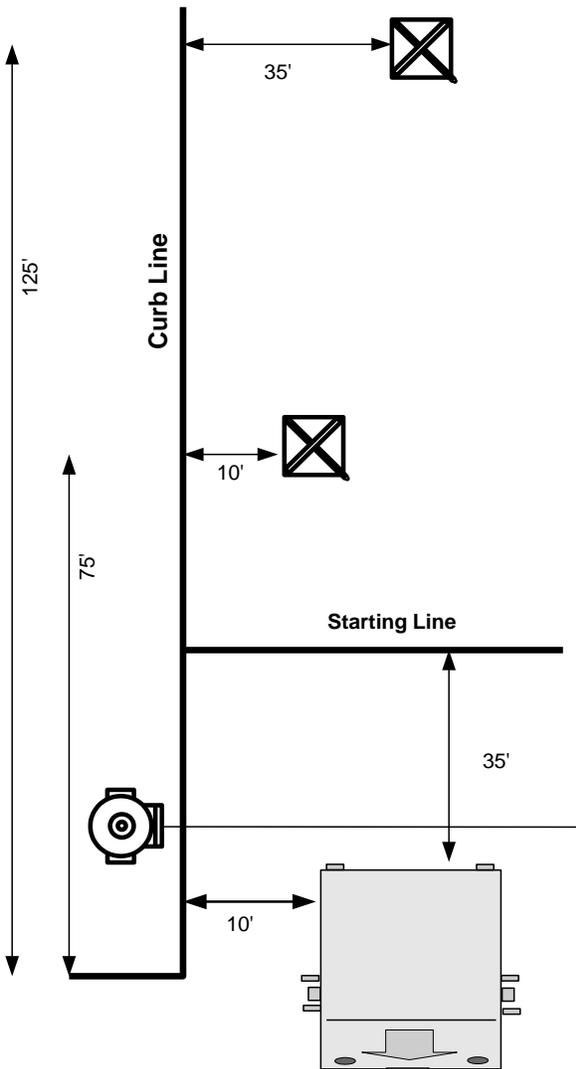
Prior to the start of the evolution, the equipment will be laid out as follows. Three rolled lengths of 1 1/2 inch hose, not connected, nozzles and 2 1/2 by 1 1/2 inch wye may be placed on the truck in any position. There will be no equipment on the starting line. Starter fires gun at which time cap is removed and wye is placed on hydrant, connect one hose length to wye, connect nozzle to male end of hose, open hydrant, and knock down first target.

Designated member of team then hollers 'GO' at which time couple and then connect 100 feet of hose to wye, connect nozzle, stretch line, open wye and nozzle, knock down second target.

Note: A 2 1/2" butterfly valve shall be located on the "front" side/straight out/"steamer" connection of the hydrant & the hydrant charged prior to the race. Wye connections shall be made onto the butterfly valve during the race.

#### PENALTIES

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or 'GO' signal called by someone other than designated firefighter.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Ten second penalty for not opening the gate valve fully (back seating).
4. Five second penalty for not maintaining a full continuous unchanging fire stream until the end of the evolution.



### THREE FIREFIGHTER AND AUXILIARY EVOLUTION TRUCK EVOLUTION

Team standing on line 25 feet from hydrant. Truck intake parked approximately nine feet directly opposite hydrant. At start of evolution, the suction hose will be in wells or troughs on the discharge side of the truck (drivers side) in extended position with the caps on the truck suction, and hydrant butterfly valve. (The hydrant shall be charged with water prior to the start of the race.)

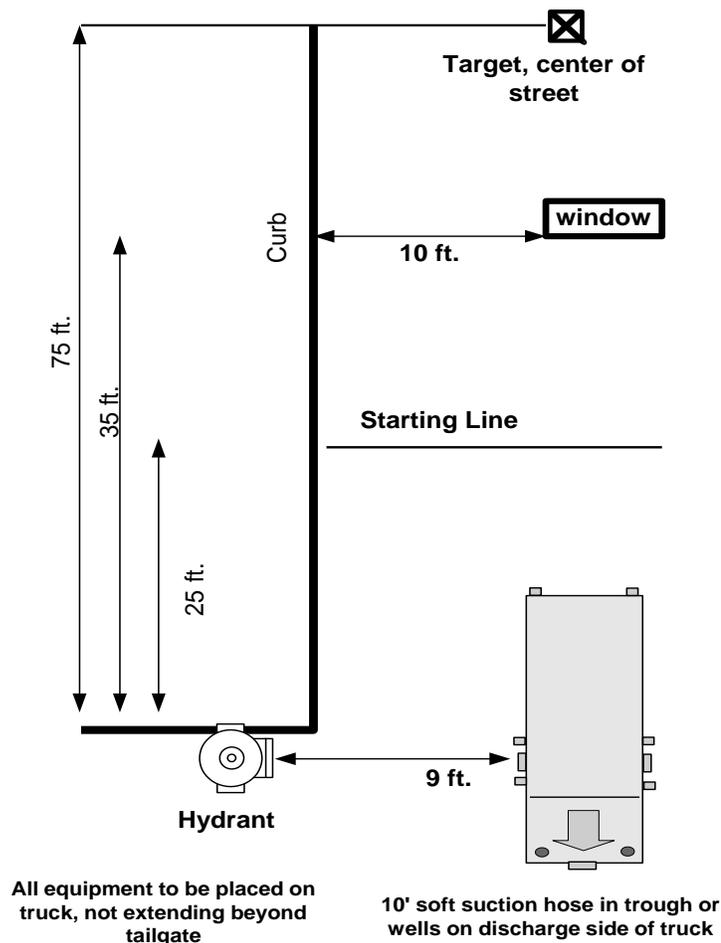
The team removes one length (10 feet) of 2 1/2 inch soft suction hose from truck, couples truck to hydrant and opens hydrant. Disconnect and remove two lines (50 feet) of 1 1/2 inch hose from truck bed, laid in proper manner, and couple as customary in fire departments, there shall be no twisting of hose.

Attach 1 1/2 inch lines to a pre-connected uncapped 2 1/2 x 1 1/2 x 1 1/2 inch gate wye. Extend lines and attach nozzle on each line.

Draw water by opening gated wye, knock down target located 75 feet from hydrant. This target will be 35 feet out from curb line. The other line with fog nozzle attached will be placed through a window located 35 feet from the hydrant, and 10 feet out from the curblines. Window will be one foot square in a standard with the lower edge about four feet above the ground. Time to be called when target is down, nozzle and coupling and complete fog pattern appear through window. Hose must lay flat in wells or troughs - no dragging of soft suction hose.

#### PENALTIES

1. Ten second penalty for not opening the gate valve fully (back seated).
2. Five second penalty for not maintaining a full continuous unchanging fire stream until the end of evolution.
3. Three second penalty for not replacing hose and coupling back in hose bed, dropping, or throwing same.

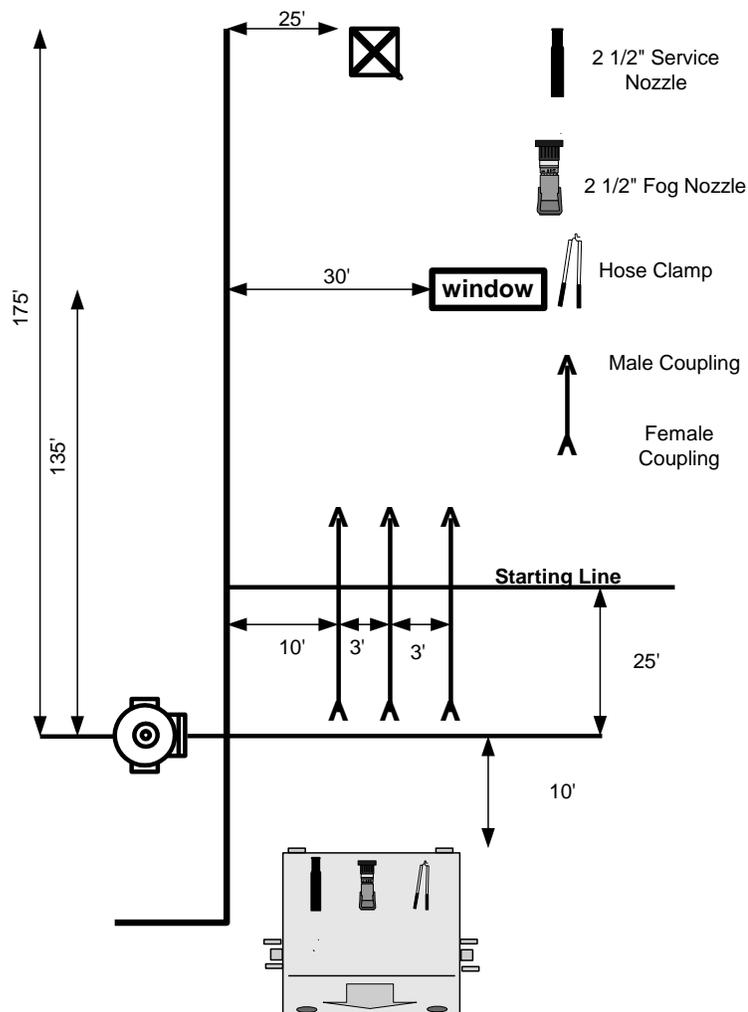


## FIVE FIREFIGHTER CHAMPIONSHIP EVOLUTIONS COMBINATION WINDOW AND HOSE EVOLUTION

Connect and stretch three lengths (150 feet) of 2 1/2 inch hose; connect one end to hydrant, on other end connect service nozzle, charge line and knock down target located 175 feet from the hydrant. Then the designated person to give the 'GO' signal. Shut off main line at second length from the hydrant with a hose clamp taken off the tailboard of the truck. Remove service nozzle and attach fog nozzle, draw water. Hose clamp, fog nozzle not to be touched until after the 'GO' signal is given by designated person. Time to be called when fog nozzle and coupling appear completely through window. Window will be 1 foot square in standard with lower edge about 4 feet above the ground. Standard or wall will be set 5 feet from the curb. The three lengths of hose will be laid parallel to the curb line with the first female coupling 10 feet from the hydrant and each successive coupling 3 feet beyond that. All equipment cannot extend beyond end of tailboard. There will be no equipment on the starting line.

### PENALTIES

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or 'GO' signal called by someone other than designated person.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Ten second penalty for not opening the gate valve fully (back seating).



## FIVE FIREFIGHTER CHAMPIONSHIP EVOLUTION HOSE EVOLUTION

Four firefighters connect and stretch two lengths (100 feet) of 2 1/2 inch hose line to either outlet of hydrant and place the single outlet ball valve to the other outlet. Charge line and knock down first target 125 feet from hydrant, the foreman of the team is to give the 'GO' signal. At which time a second line of two lengths (100 feet) of 2 1/2 inch hose shall be connected to the ball valve outlet on the hydrant, stretch line, attach nozzle, and open valve. Full fire stream to be continuously maintained on first line until completion of evolution. Time to be called when second target 125 feet from hydrant is knocked down by second hose stream. Gate and nozzle to be placed on truck in any position.

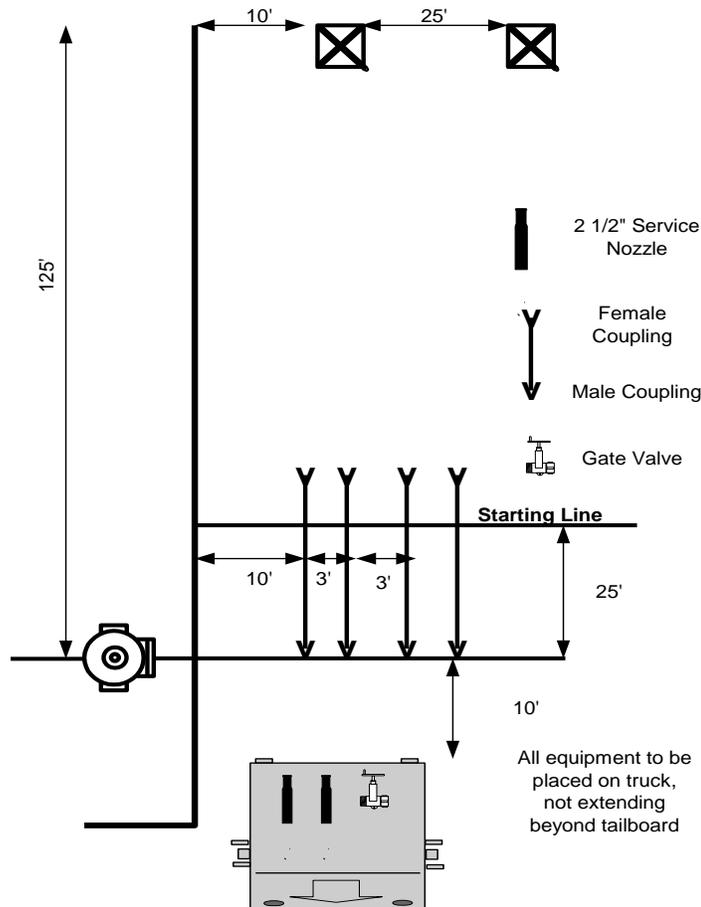
Five firefighters to be used in the evolution, with only four people to lay the first line.

All evolutions using 2 1/2 inch line must have two firefighters on the line when it is charged.

Clarification: the "GO" person maybe a working person and 5<sup>th</sup> person may "move" on the line after announcement.

### PENALTIES

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or 'GO' signal called by someone other than designated person.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Ten second penalty for not opening the gate valve fully (back seating).
4. Five second penalty for not maintaining a full continuous unchanging fire stream until the end of evolution.
5. Five second penalty for not having two firefighters within 15' of nozzle at all times when water is flowing from nozzle.



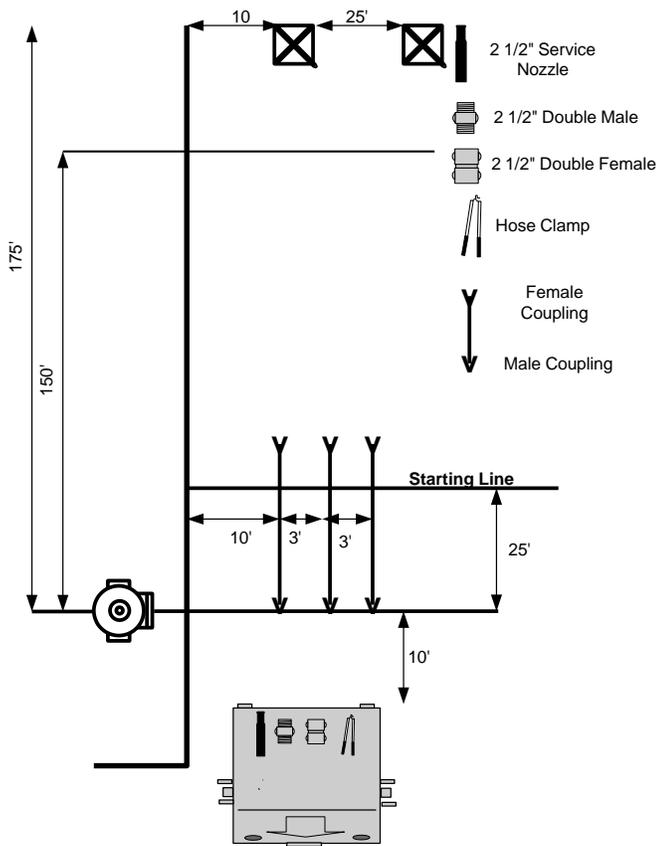
## FIVE FIREFIGHTER CHAMPIONSHIP EVOLUTION BURSTED LENGTH EVOLUTION

150 feet of 2 1/2 inch hose will be laid in three parallel lengths on the pavement with the male couplings closest to the hydrant. The first length will be 10 feet from the curb with 3 feet between each of the other lengths. Couplings will be even with the center of the hydrant.

On the start team will connect and stretch the three lengths using a double female on the hydrants and a double male on the nozzle. Two people handle nozzle at all times the line is charged and water flowing. (NOTE: the second person has to be within 15 feet of the nozzle.) Nozzle team will knock down one target located 175 feet from the hydrant. The 'GO' person will then give the 'GO' signal, at which time remove 2 lengths (100 feet) of hose from the hose bed (hose to be connected to dead man hose in bed). Hose to be laid in proper manner customary to fire departments (there shall be no twisting of the hose). This hose may be dragged but not the two end couplings. The second section of hose will be replaced. Clamp the line on the first section of hose from the hydrant, clamp to be no more than 15 feet from the first female coupling, remove the second length of hose and replace it with 100 foot remove from the hose bed. The nozzle team will then knock down the second target located on the other side of the street. At no time will the nozzle or firefighter(s) cross a line 25 feet from the targets. The tailboard of the truck to be positioned 10 feet from a line through the hydrant and 10 feet from the male couplings. The nozzle double male double female hose clamp to be on the tailboard of the truck (no equipment to extend beyond the end or side of the tailboard). Time to be called when second target is down.

### PENALTIES

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or "GO' signal called by someone other than designated person.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Ten second penalty for not opening the gate valve fully (back seating).
4. Five second penalty for not keeping 2 people on nozzle at all times nozzle line is charged and water flowing.
5. Three second penalty for not replacing hose and coupling back in hose bed, dropping, or throwing same.
6. Five second penalty for nozzle or firefighter(s) crossing line 25 feet from targets, at any time.



## FIVE FIREFIGHTER CHAMPIONSHIP EVOLUTION TRUCK EVOLUTION

Five firefighters standing on starting line 25 feet from hydrant. Truck intake parked approximately 9 feet directly opposite hydrants. At start of evolution the suction hose will be in the well or trough on the discharged side of the truck in extended position with cap on truck suction. The team removes 1 length (10 feet) of 2 1/2 inch soft suction hose from the truck, and couples truck to hydrant. Also uncouple and remove 2 lengths (100 feet) of 2 1/2 inch hose from the truck bed, laid in proper manner customary in fire departments (there will be no twisting of hose). Attach one end to the pumper outlet (the 1/4 turn valve will be in the closed position at the start of the race) and attach fire service nozzle to the other end. Draw water and knock down target located 125 feet from the hydrant. Then the designated 'GO' person will give the signal 'GO'. Team shuts off water at the truck outlet (by use of 1/4 turn valve already attached). Team then removes 1 length (50 feet) of 1 1/2 inch hose (donut rolled in any style) from truck tailboard. 2 1/2 inch by 1 1/2 inch adaptor removed from tailboard and replaces service nozzle disconnected from 2 1/2 inch line; attach 1 length of 1 1/2 inch hose with nozzles already attached. Draw water by opening pumper outlet and knock down target 175 feet from the hydrant. This target to be close to the center of the street. Time to be called when targets are down. Hose must lay flat in well or trough - no dragging of hose.

All intake and discharge outlets will be capped.

### PENALTIES

1. Ten second penalty for jumping the 'GO', or calling 'GO' before the designated time, or 'GO' signal called by someone other than designated person.
2. Ten second penalty for touching equipment to be used after the 'GO' signal, before the 'GO' signal is given.
3. Ten second penalty for not opening the gate valve fully (back seating).
4. Ten second penalty if the 1 1/2 inch hose is dropped before reaching the end of 2 1/2" hose.
5. Three second penalty for not replacing hose and coupling back in hose bed, dropping or throwing.
6. Five second penalty for not having two firefighters within 15' of nozzle at all times when water is flowing from nozzle.

