WHAT IS CLAIMED IS:

1. A debris catcher for use within a wellbore, comprising:

a debris catching sleeve;

a running tool coupled to the debris catching sleeve, the running tool including an uphole end and a downhole end, and further wherein the uphole end of the running tool is configured to slide to engage a downhole end of the debris catching sleeve and form a collection base of the debris catcher; and

a coupling rod attached to the uphole end of the running tool, the coupling rod configured to engage a downhole setting device.

2. The debris catcher as recited in Claim 1, wherein the debris catching sleeve includes an extension sleeve, an upper running sleeve and a lower running sleeve, and further wherein the upper running sleeve includes a reduced diameter bore configured to engage a collet of the downhole setting device.

3. The debris catcher as recited in Claim 2, wherein the coupling rod further includes an axial groove for receiving the collet when the collet is located in the reduce diameter bore.

4. The debris catcher as recited in Claims 2 to 3, wherein a downhole end of the upper running sleeve includes a locking ring, wherein the locking ring is configured to engage the uphole end of the running tool.

5. The debris catcher as recited in Claims 2 to 4, wherein the running tool is positioned within the lower running sleeve, and further wherein a downhole end of the lower running sleeve is configured to insert into an uphole end of the plug.

6. The debris catcher as recited in Claims 1 to 5, wherein the running tool includes one or more shear features configured to set a plug, and shear and release the running tool from the plug when being drawn uphole.

7. The debris catcher as recited in Claims 1 to 6, wherein the coupling rod includes an alignment pin configured to align with an opening in a downhole end of an extension rod of the downhole setting device.

8. The debris catcher as recited in Claims 1 to 7, wherein an uphole end of the debris catching sleeve includes a catch profile, the catch profile configured to engage an associated engagement member of a retrieval tool.

9. A debris catching system for use within a wellbore, comprising:

a plug; and

a debris catcher, the debris catcher comprising:

a debris catching sleeve;

a running tool coupled to the debris catching sleeve, the running tool including an uphole end and a downhole end, and further wherein the uphole end of the running tool is configured to slide to engage a downhole end of the debris catching sleeve and form a collection base of the debris catcher; and

a coupling rod attached to the uphole end of the running tool, the coupling rod configured to engage a downhole setting device;

wherein the plug is removably coupled with the downhole end of the running tool during downhole deployment of the debris catching system.

10. The debris catching system as recited in Claim 9, wherein the debris catching sleeve includes an extension sleeve, an upper running sleeve and a lower running sleeve, and further wherein the upper running sleeve includes a reduced diameter bore configured to engage a collet of the downhole setting device.

11. The debris catching system as recited in Claim 10, wherein the coupling rod further includes an axial groove for receiving the collet when the collet is located in the reduce diameter bore.

12. The debris catching system as recited in Claims 10 to 11, wherein a downhole end of the upper running sleeve includes a locking ring, wherein the locking ring is configured to engage the uphole end of the running tool.

13. The debris catching system as recited in Claims 10 to 12, wherein the running tool is positioned within the lower running sleeve, and further wherein a downhole end of the lower running sleeve is configured to engage an uphole end of the plug.

14. The debris catching system as recited in Claims 10 to 13, wherein an uphole end of the debris catching sleeve includes a catch profile, the catch profile configured to engage an associated feature of a retrieval tool.

15. The debris catching system as recited in Claims 9 to 14, wherein the plug is removably coupled with the downhole end of the running tool by one or more shear features configured to set the plug, and then shear and release the running tool from the plug when being drawn uphole.

16. The debris catching system as recited in Claims 9 to 15, wherein the coupling rod includes an alignment pin configured to align with an opening in a downhole end of an extension rod of the downhole setting device.

17. The debris catching system as recited in Claims 9 to 16, wherein the plug is a bridge plug.

18. A method of setting a debris catcher into a wellbore, the method comprising:

providing an integrated debris catcher and plug deployment system, the integrated debris catcher and plug deployment system including:

a debris catcher, the debris catcher including:

a debris catching sleeve, the debris catching sleeve including an extension sleeve, an upper running sleeve and a lower running sleeve, wherein the upper running sleeve includes a reduced diameter bore configured to engage a collet of a downhole setting device;

a running tool coupled to the debris catching sleeve, the running tool including an uphole end and a downhole end, and further wherein the uphole end of the running tool is configured to slide to engage a downhole end of the debris catching sleeve and form a collection base of the debris catcher; and

a coupling rod attached to the uphole end of the running tool, the coupling rod configured to engage the downhole setting device;

a plug removably coupled with the downhole end of the running tool by one or more shear features configured to set the plug, and shear and release the running tool from the plug when being drawn uphole; and

deploying the integrated debris catcher and plug deployment system downhole using the downhole setting device.

19. The method as recited in Claim 18, wherein deploying the integrated debris catcher and plug deployment system downhole includes:

applying a downhole force to deploy the debris catcher downhole until the plug engages a selected portion of the wellbore and the locking ring engages the uphole end of the running tool;

applying an uphole force to the downhole setting device, wherein the uphole force shears the running tool from the plug and draws the running tool uphole; and

maintaining the uphole force on the downhole setting device until the collet disengages from the reduced diameter bore, disengaging the downhole setting device from the running tool and drawing the downhole setting device uphole.

20. The method as recited in Claims 18 to 19, wherein the coupling rod further includes an axial groove for receiving the collet when the collet is located in the reduce diameter bore.