**ASSEMBLY (DIS-ASSEMBLE SHIELD IN REVERSE ORDER)**

**LAY SIDE PANEL FLAT ON GROUND WITH COLLAR SOCKETS UP**

**PLACE SPREADER PIPE AND/OR PLATE ON TO COLLARS OR INTO BRACKETS AND PIN IN PLACE**

**MUDPLATE SPREADERS SYSTEM**

**5 PIPE SPREADER SYSTEM**

**LOWER SECOND SIDEWALL ONTO SPREADERS AND PIN**

**STAND TRENCH SHIELD IN UPRIGHT POSITION AND PREPARE FOR INSTALLATION**

**USING A TRENCHE SHIELD IN STABLE SOIL**

**EXCAVATE TO GRADE JUST SLIGHTLY WIDER THAN THE TRENCH SHIELD. DIG WALLS VERTICAL TO MINIMUM OF 18" BELOW THE TOP OF THE SHIELD. SLOPE SOILS ABOVE SHIELD ACCORDING TO MANUFACTURERS TABULATED DATA. INSTALL SHIELD IN TRENCH.**

**EXCAVATE IN FRONT OF THE TRENCH SHIELD**

**PULL SHIELD FORWARD BY FRONT TOP SPREADER PIPE OR WITH PULLING EYES. (PULLING EYES SHALL BE USED WITH SPREADERS WIDER THAN 72" OR WHEN SOIL PRESSURE IS SEVERE ENOUGH TO CAUSE SPREADER TO DEFLECT).**

**USING A TRENCH SHIELD IN UNSTABLE SOIL**

**EXCAVATE UNTIL SOIL BEGINS TO CRUMBLE BEYOND DESIRED TRENCH WIDTH. PLACE SHIELD IN LINE OF EXCAVATION**

**PRESS DOWN ON CORNERS TO PUSH SHIELD DOWN TO GRADE**

**PULL SHIELD FORWARD AND UP ON APPROPRIATE ANGLE**

**EXCAVATE SOIL WITHIN THE SHIELD AND REPEAT PREVIOUS PROCESS**

**USING TRENCH SHIELDS FOR PATCHWORK, REPAIRS OR TIE-INS**

**CORNER END PLATES HELP PREVENT LOOSE MATERIAL FROM RUNNING INTO THE END OF THE SHIELD. SOIL AT ENDS SHOULD BE SLOPED ACCORDING TO MANUFACTURER’S TABULATED DATA**

**WHEN USING SHIELDS AS PROTECTION DURING MANHOLE ASSEMBLY WORK, INSURE THAT PROPER END PANELS ARE USED, OR LAY SOIL AT THE ENDS BACK ACCORDING TO MANUFACTURER’S TABULATED DATA**

**USING 4-SIDED SHIELDS**

**CENTER SHIELD OVER WORK AREA**

**LAY SOIL AT ENDS BACK ACCORDING TO MANUFACTURER’S TABULATED DATA OR USE MANUFACTURER’S DESIGNED PLATES TO PROTECT FROM CAVE-INS**

*THIS MATERIAL IS INTENDED TO PROVIDE BASIC ASSEMBLY AND INSTALLATION INFORMATION ONLY. *ALWAYS USE TRENCH SHIELD IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY LAWS AND REGULATIONS. *FAILURE TO DO SO COULD CAUSE SEVERE INJURY OR DEATH.