



## REQUIREMENTS:

- 1 EITHER 2-1/2" OR 6" DEEP GRATING IS ACCEPTABLE FOR STANDARD HIGHWAY (H10, H20, H25 & HL93) LOADS USING THE GAGES IN THE TABLE TO THE RIGHT. HIGH SLUMP CONCRETE BACKFILL IS REQUIRED WITH THE ENVELOPE EXTENDING A MINIMUM OF 3 INCHES BEYOND THE SPRINGLINE, AS SHOWN ABOVE. THE HIGH SLUMP CONCRETE MUST PROVIDE A MINIMUM OF 750 PSI COMPRESSIVE STRENGTH.
- 2 FOR INSTALLATION SUBJECTED TO OCCASIONAL LIGHT VEHICLE (LESS THAN H10) LOADS, SELECTED GRANULAR BACKFILL MAY BE USED. HOWEVER, THE SLOTTED DRAIN MUST BE SET IN A TRENCH WIDE ENOUGH TO PROPERLY HAUNCH THE PIPE (TYPICALLY D + 36"). THE GRANULAR BACKFILL MUST BE CLEAN, NON-PLASTIC, WELL GRADED MATERIAL, COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 3 DURING INSTALLATION, RECESS THE TOP OF THE GRATE 1/4" BELOW THE FINISHED GRADE OF THE PAVEMENT.
- 4 PAVEMENT DESIGNS BY OTHERS. FOR REINFORCED CONCRETE PAVEMENTS, CONTINUE THE REINFORCEMENT OVER THE SLOTTED DRAIN. FOR UNREINFORCED CONCRETE PAVEMENTS, MINIMUM SHRINKAGE STEEL IS RECOMMENDED.
- 5 HEAVIER WHEEL LOADS REQUIRE THE USE OF MINIMUM 6" DEEP GRATING AND TYPICALLY A LARGER HIGH SLUMP CONCRETE EMBEDMENT ZONE. (SEE AIRCRAFT & HEAVY LOADING DETAIL).

**SLOTTED DRAIN CORRUGATED STEEL PIPE  
MINIMUM GAGE REQUIREMENTS  
FOR HIGHWAY LOADS**

SLOTTED DRAIN CSP	2 1/2" GRATE	6" GRATE		
DIA, D (IN.)	ASPHALT PAVEMENT	CONCRETE PAVEMENT	ASPHALT PAVEMENT	CONCRETE PAVEMENT
12 - 36			16GA	

## NOTES:

1. INSTALLATION MUST CONFORM TO STANDARD INSTALLATION DETAILS USING A 750 PSI MINIMUM HIGH SLUMP CONCRETE BACKFILL.
2. REQUIRES A REINFORCED CONCRETE PAVEMENT OR A DEEPER GRATE.

**BACKFILL DETAIL FOR HIGHWAY LOADING**  
NOT TO SCALE

## 0-SLOTTED DRAIN DETAIL GRID

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