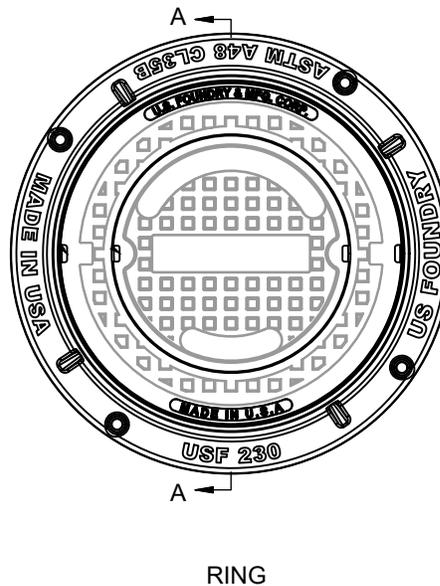
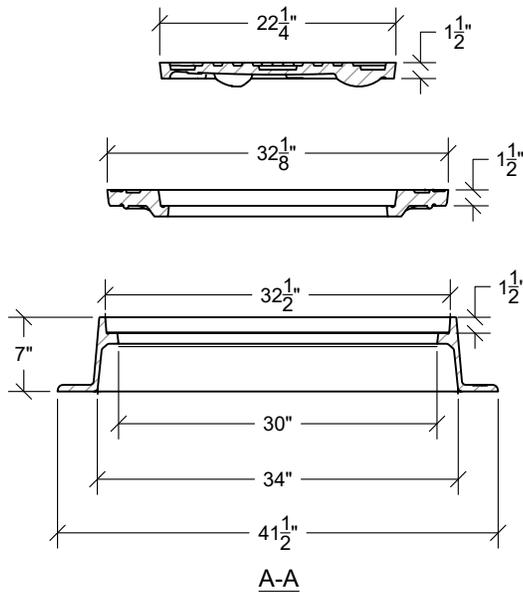


BEDDING, INSTALLATION AND BACKFILL REQUIREMENTS FOR NEW STRUCTURES AND PIPE:

1. IT IS A BASIC REQUIREMENT OF THE TOWN THAT EXCAVATIONS SHALL BE FREE FROM WATER BEFORE PIPE OR STRUCTURES ARE INSTALLED. THE CONTRACTOR SHALL PROVIDE PUMPS, AND OTHER APPURTENANT EQUIPMENT NECESSARY TO REMOVE AND MAINTAIN WATER AT SUCH A LEVEL AS TO PERMIT CONSTRUCTION IN A DRY CONDITION. THE CONTRACTOR SHALL CONTINUE DEWATERING OPERATIONS UNTIL BACKFILLING HAS PROGRESSED TO A SUFFICIENT HEIGHT (ABOVE THE WATER TABLE) TO PREVENT GROUNDWATER FROM ENTERING THE EXCAVATION.
2. IF NECESSARY THE CONTRACTOR SHALL USE DEWATERING SYSTEMS THAT ENSURE CONTINUOUS DEWATERING DURING INSTALLATION. WATER FROM THE TRENCHES AND EXCAVATION SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC HEALTH, TO PUBLIC OR PRIVATE PROPERTY, TO THE WORK COMPLETED OR IN PROGRESS, TO THE SURFACE OF THE STREETS, CAUSE ANY INTERFERENCE WITH THE USE OF THE SAME BY THE PUBLIC, OR CAUSE POLLUTION OF ANY WATERWAY OR STREAM.
3. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND PROPOSED METHODS FOR TRENCH WATER DISPOSAL TO THE TOWN FOR APPROVAL PRIOR TO EXCAVATING.
4. STRUCTURE EXCAVATIONS AND PIPE TRENCHES SHALL BE EXCAVATED TO THE ELEVATION NECESSARY FOR INSTALLATION OF THE PIPE AND/OR STRUCTURE (INCLUDING BEDDING MATERIAL IF REQUIRED) ON UNDISTURBED SOIL. IN THE EVENT OF OVER EXCAVATION, BACKFILL WITH ACCEPTABLE MATERIAL, UP TO THE LEVEL NECESSARY. THIS BACKFILL SHALL BE TAMPED AND COMPACTED TO PROVIDE A PROPER BEDDING FOR THE PIPE OR STRUCTURE. BEDDING SHALL BE PROVIDED UNDER THE BRANCH OF ALL FITTINGS TO FURNISH ADEQUATE SUPPORT AND BEARING UNDER THE FITTING.
5. ALL STRUCTURE EXCAVATIONS AND PIPELINE TRENCHES SHALL BE BACKFILLED TO A LEVEL 12 INCHES ABOVE THE BOTTOM OF THE STRUCTURE OR TOP OF THE PIPE WITH SELECT BACKFILL OBTAINED FROM THE EXCAVATION. SUCH MATERIAL SHALL BE PLACED IN 6 INCH LAYERS; EACH COMPACTED TO THE DENSITIES SPECIFIED BELOW. ONLY HAND OPERATED MECHANICAL COMPACTING EQUIPMENT SHALL BE USED WITHIN SIX INCHES OF THE INSTALLED PIPE.
6. AFTER THE INITIAL PORTION OF BACKFILL HAS BEEN PLACED AS SPECIFIED ABOVE, AND AFTER ALL EXCESS WATER HAS COMPLETELY DRAINED FROM THE TRENCH, BACKFILLING THE REMAINDER OF THE TRENCH OR EXCAVATION MAY PROCEED. THE REMAINDER OF THE BACKFILL SHALL BE SELECTED MATERIAL OBTAINED FROM THE EXCAVATION AND SHALL BE PLACED IN HORIZONTAL LAYERS, THE DEPTH OF WHICH SHALL NOT EXCEED THE ABILITY OF THE COMPACTION EQUIPMENT EMPLOYED, AND IN NO EVENT SHALL EXCEED A DEPTH OF 12 INCHES. EACH LAYER SHALL BE MOISTENED, TAMPED, PUDDLED, ROLLED AND/OR COMPACTED TO THE DENSITIES SPECIFIED BELOW.
7. STRUCTURE AND PIPE TRENCH BACKFILL AND BEDDING WHICH DOES NOT COMPLY WITH THE SPECIFIED DENSITIES, AS INDICATED BY SUCH TESTS, SHALL BE REWORKED AND RECOMPACTED UNTIL THE REQUIRED COMPACTION IS SECURED. IN THE EVENT PROPER COMPACTION CANNOT BE OBTAINED UNDER ANY STRUCTURES, PIPE OR AT CONNECTION, WRITTEN APPROVAL TO USE PROPER BEDDING STONE, 1/4" TO 3/4" GRADED STONE (100% PASSING 1"), IS REQUIRED BY THE TOWN OF JUPITER FOR BEDDING AND SELECT PORTIONS OF BACKFILL.
8. EXCAVATED UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. MATERIALS REMOVED FROM THE TRENCHES SHALL BE STORED IN SUCH A MANNER THAT IT WILL NOT UNDULY INTERFERE WITH SITE OPERATIONS, TRAFFIC ON PUBLIC ROADWAYS AND SIDEWALKS AND SHALL NOT BE PLACED ON PRIVATE PROPERTY. IN CONGESTED AREAS, SUCH MATERIALS AS CANNOT BE STORED ADJACENT TO THE TRENCH OR USED IMMEDIATELY AS BACKFILL SHALL BE REMOVED TO OTHER CONVENIENT PLACES OF STORAGE ACCEPTABLE TO THE TOWN.
9. COMPACTION OF BACKFILL SHALL BE 98 PERCENT OF THE MAXIMUM DENSITY WHERE THE TRENCH IS LOCATED UNDER STRUCTURES OR PAVED AREAS, AND 95 PERCENT OF THE MAXIMUM DENSITY ELSEWHERE. MORE THOROUGH COMPACTION MAY BE REQUIRED WHEN WORK IS PERFORMED IN OTHER REGULATORY AGENCIES JURISDICTIONS, SUCH AS THE DOT. MAXIMUM DENSITY OF THE MATERIAL IN TRENCHES SHALL BE DETERMINED BY AASHTO T-180.
10. LABORATORY AND FIELD DENSITY TESTS, WHICH IN THE OPINION OF THE TOWN ARE NECESSARY TO ESTABLISH COMPLIANCE WITH THE COMPACTION REQUIREMENTS SHALL BE REQUIRED BY THE TOWN. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TESTING LABORATORY. THE TOWN SHALL ESTABLISH DEPTHS AND LOCATIONS OF TESTS. MODIFICATIONS TO THE PROGRAM WILL BE MADE AS JOB CONDITIONS CHANGE.



NOT TO SCALE

MATERIAL: ASTM A-48
CLASS 35B
GREY IRON

USF 230-AB-M RING & COVER

STRUCTURE/PIPE INSTALLATION & FRAME/GRATE REQUIREMENTS

**JUPITER UTILITIES
CONSTRUCTION STANDARDS AND DETAILS**

DATE APPROVED: 05/2019
DRAWING No. SW-05