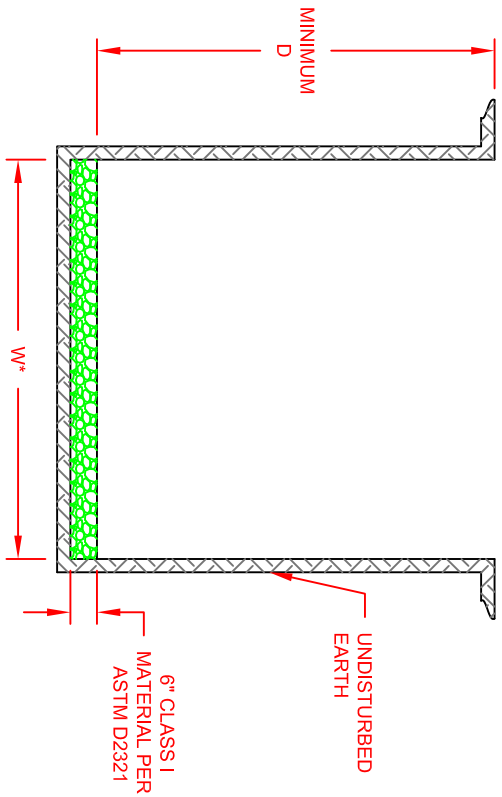


1. TRENCH AND BEDDING PREPARATION FOR UNIT



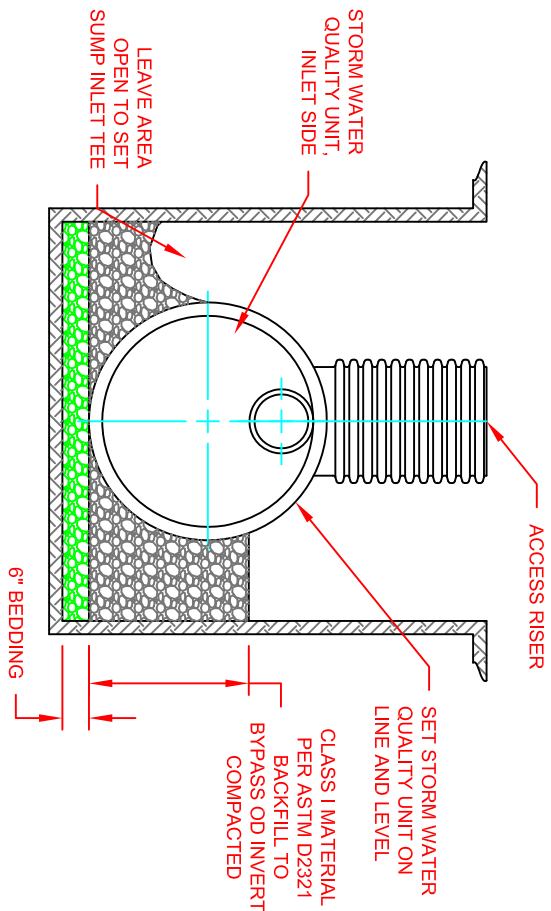
- NOTES:
1. AVOID EXCESSIVE GROUND WATER IN THE TRENCH DE-WATER AS NECESSARY.
 2. PROVIDE SHEETING OR SHORING AS REQUIRED.
 3. MAXIMUM COVER HEIGHT MEASURED FROM THE TOP OF THE UNIT TO FINAL GRADE SHALL NOT EXCEED 8 FEET.
 4. MODIFIED TRENCH BOTTOM REQUIRED IF SOFT OR ROCK MATERIAL IS FOUND.

UNIT SIZE	MINIMUM D	MINIMUM W*
36"	4.5'	6.5'
42"	5.0'	7.0'
48"	5.5'	7.5'
60"	7.5'	8.5'

* TRENCH WIDTH DOES NOT ACCOUNT FOR BY-PASS PIPE. THIS ESTIMATE IS FOR THE MAIN UNIT ONLY

HANCOR, INC. HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO HANCOR. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. HANCOR HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS HANCOR INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

2. PLACING UNIT AND INITIAL BACKFILL




1. UTILIZE CARE WHEN LOWERING UNIT INTO THE TRENCH. HANDLE USING NYLON SLINGS AND TWO PICK POINTS. DO NOT USE SLINGS AROUND RISERS.
2. PLACE BACKFILL AROUND THE UNIT IN UNIFORM 8"-12" LIFTS, COMPACTED.
3. WHEN THE UNIT CONSISTS OF 2 SECTIONS, PLACE THE DOWNSTREAM SECTION FIRST. PROPERLY LUBE THE BELL AND SPIGOT. CONNECT AND HOME THE REMAINING SECTIONS.

REV.	DESCRIPTION	CHKD	DATE	BY	DATE
1	GENERAL UPDATE	CKS	10/19/07	MM/DD/YY	CHKD

SWQU INSTALLATION
TRENCH & PLACING UNIT

DRAWING NUMBER: STD-511A



401 OLIVE ST.
 FINDLAY, OHIO 45839

DATE: 7/28/03
 DRAWN: NTS
 CHECKED: OF