

SEDIMENT BASIN HORIZONTAL DRAW-DOWN DEVICE

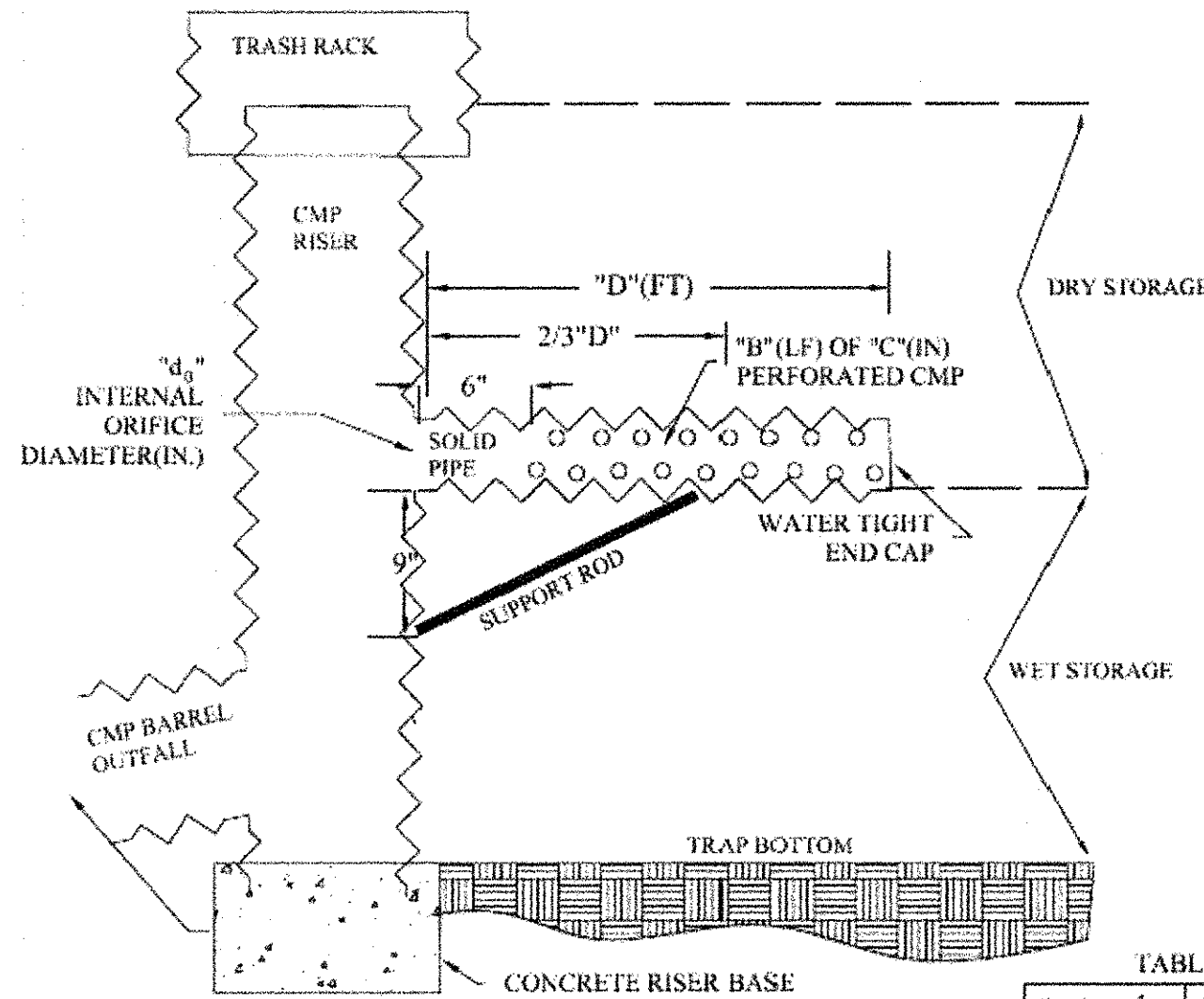


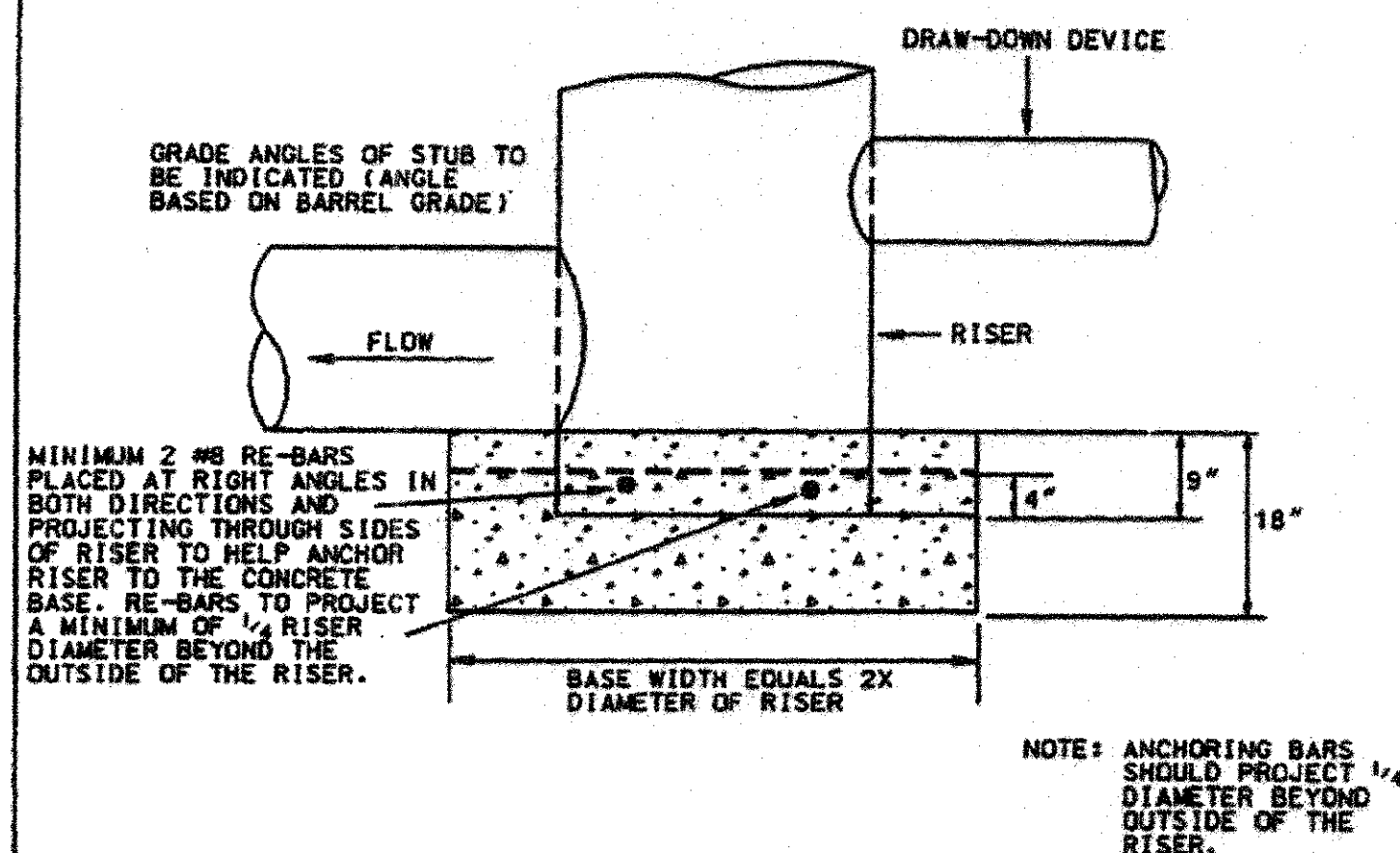
TABLE 1

	Basin 1	Basin 2
d	4 IN	18 IN
B	3.8 LF	1 LF
C	4 IN	18 IN
D	4.3 FT	18 FT

CONSTRUCTION SPECIFICATIONS

- The perforations shall be 1" in diameter spaced 3" on center. Allow no perforations within 6" of riser connection. Provide internal orifice plate if d_i is smaller than C, see table 1.
- Securely attach 1/2" hardware cloth then Geotextile Class E fabric around entire perforated portion of draw-down pipe. Include a watertight end cap.
- Draw-down pipe shall not exceed 6 1/2' in total length and shall be placed at the wet storage elevation. If necessary provide multiple draw-down pipes.
- Provide support of draw-down pipe ≥ 2 feet in length to prevent sagging and floatation. Use a minimum of 3 support rods (#6 rebar) welded to riser and pipe. Support rods shall be connected to both sides and bottom of draw-down pipe.
- An alternative method is to stake both sides of draw-down device with 1" steel angle, or 1" by 4" square or 2" round wooden posts set 3" minimum into the ground and securely attached to the pipe with 12 gauge minimum wire.

DETAIL 15 - RISER BASE DETAIL



MINIMUM 2 #8 RE-BARS PLACED AT RIGHT ANGLES IN BOTH DIRECTIONS AND PROJECTING THROUGH SIDES OF RISER TO HELP ANCHOR RISER TO THE CONCRETE BASE. RE-BARS TO PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND THE OUTSIDE OF THE RISER.

NOTE: ANCHORING BARS SHOULD PROJECT 1/4 DIAMETER BEYOND OUTSIDE OF THE RISER.

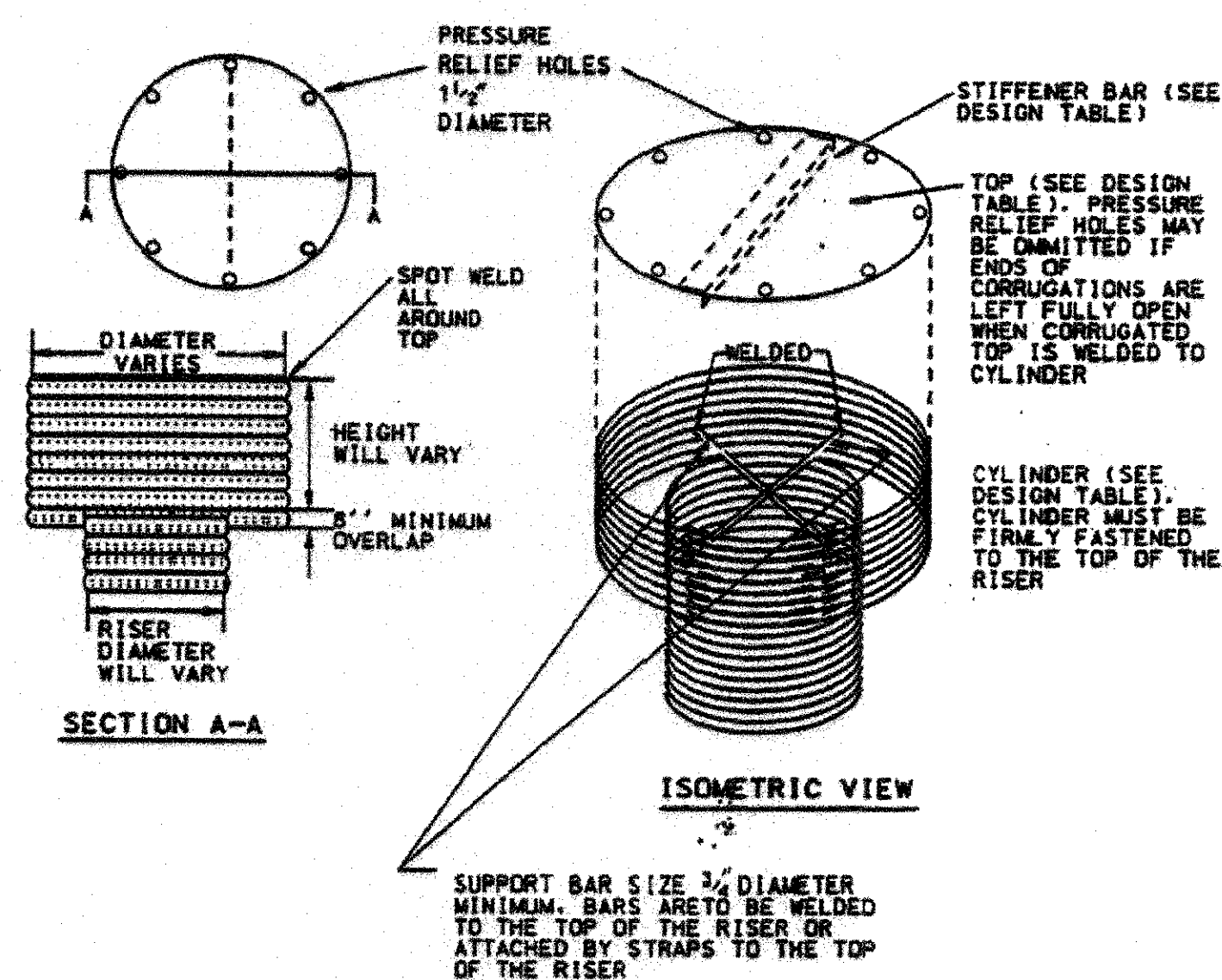
Construction Specifications

The riser shall have a base attached with a watertight connection and shall have sufficient weight to prevent floatation of the riser. Two approved bases for risers 10" or less in height are:

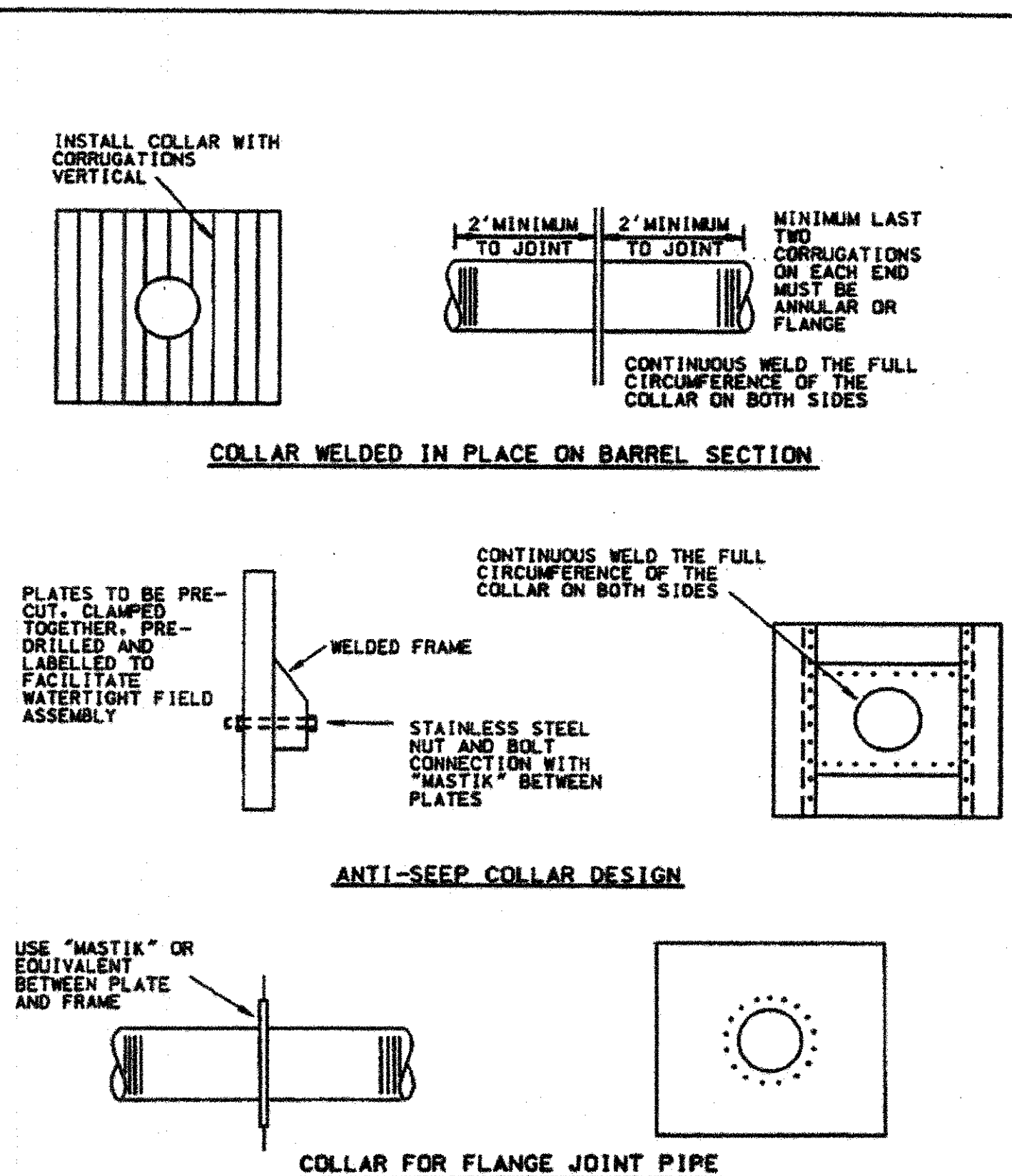
- A concrete base 18" thick with the riser embedded 9" in the base.
- A 1/2" minimum thickness steel plate attached to the riser by a continuous weld around the circumference of the riser to form a watertight connection. The plate shall have 2" of stone, gravel, or compacted earth placed on it to prevent floatation. In either case, each side of the square base shall be twice the riser diameter.

Note: For risers greater than ten feet high computations shall be made to design a base which will prevent floatation. The minimum factor of safety shall be 1.20 (downward forces = 1.20 x upward forces).

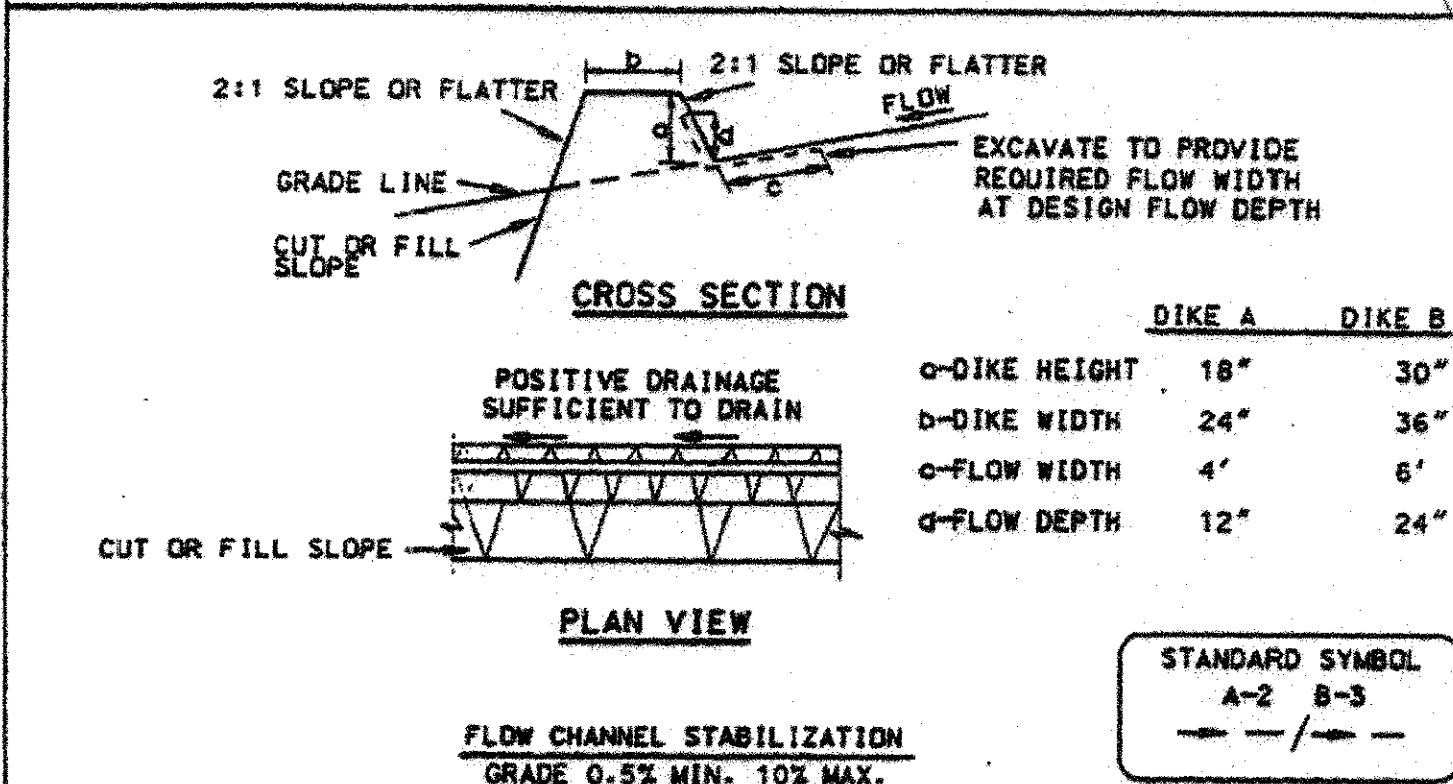
DETAIL 16 - CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE



DETAIL 14 - TYPICAL ANTI-SLEEP COLLARS



DETAIL 1 - EARTH DIKE



- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or line with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

MISS UTILITY

"For location of utilities call 1-800-257-7777 48 hours in advance of any work in this area"

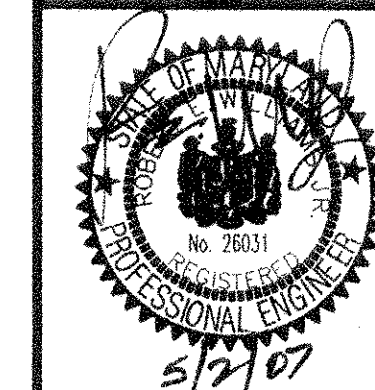
CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AND TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

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DATE: APRIL 2007
SCALE: N/A
DRAWING NAME:
19D09-ESN

EROSION & SEDIMENT CONTROL NOTES
PROJECT: BETH SHALOM AME ZION CHURCH
6TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

SHEET SC 7 OF 7
FILE No. MDPG-19D09-01