TABLE No.1

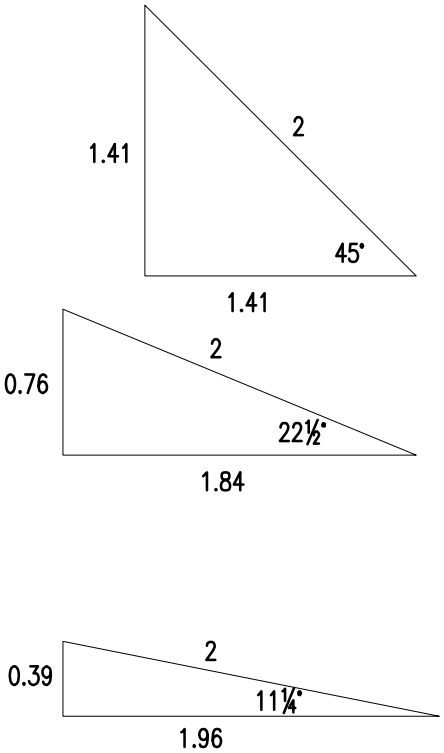
(Combined Vertical Offset Under Object/other utility)

**MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED**

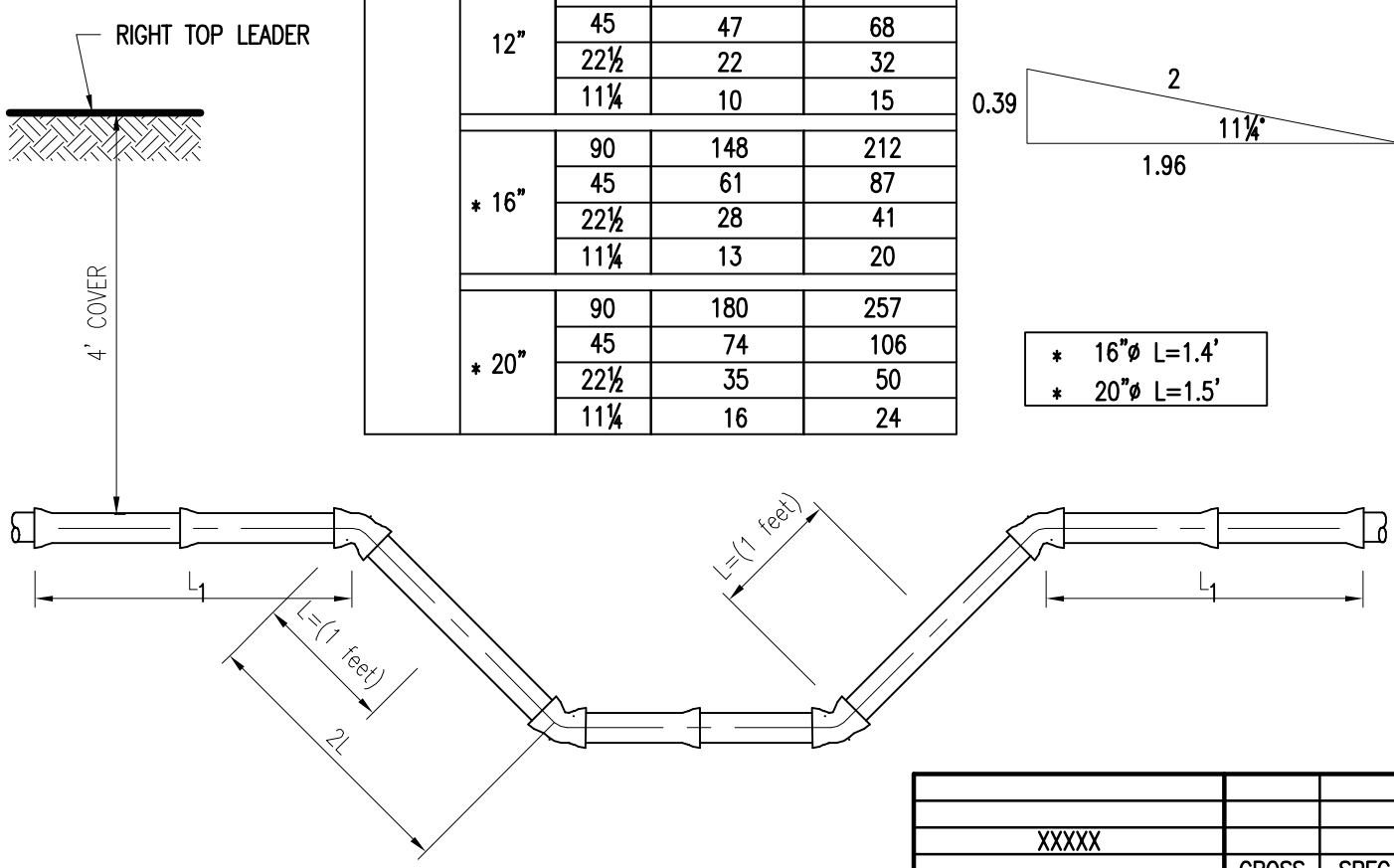
100 psi pressure, Soil Designation: Silt 2

L= 1 Feet (Minimum or Maximum) H= Depth of cover (ft.)
ø= Bend angle in degrees D= Nominal diameter (in.)

| H | D | ø | $L_1$ Bare Pipe | $L_1$ Polywrapped Pipe |
|---|---|---|---|---|
| 4' | 6" | 90 | 62 | 89 |
| | | 45 | 25 | 36 |
| | | 22½ | 12 | 17 |
| | | 11¼ | 5 | 8 |
| | 8" | 90 | 81 | 116 |
| | | 45 | 33 | 47 |
| | | 22½ | 15 | 22 |
| | | 11¼ | 7 | 11 |
| | 10" | 90 | 98 | 141 |
| | | 45 | 40 | 58 |
| | | 22½ | 19 | 27 |
| | | 11¼ | 9 | 13 |
| | 12" | 90 | 115 | 165 |
| | | 45 | 47 | 68 |
| | | 22½ | 22 | 32 |
| | | 11¼ | 10 | 15 |
| | * 16" | 90 | 148 | 212 |
| | | 45 | 61 | 87 |
| | | 22½ | 28 | 41 |
| | | 11¼ | 13 | 20 |
| | * 20" | 90 | 180 | 257 |
| | | 45 | 74 | 106 |
| | | 22½ | 35 | 50 |
| | | 11¼ | 16 | 24 |




* 16"ø L=1.4'
* 20"ø L=1.5'




| | | |
|---|---|---|
| | | |
| | | |
| XXXXX | | |
| ITEM | CROSS REF. | SPEC. REF. |

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|---|---|
| 11/01/2006 | V. E. F. |

STANDARD DETAIL

THRUST RESTRAINT DESIGN
DUCTILE IRON/PVC PIPE
(VERTICAL OFFSETS)

GS 2.0

SHEET 2 OF 5