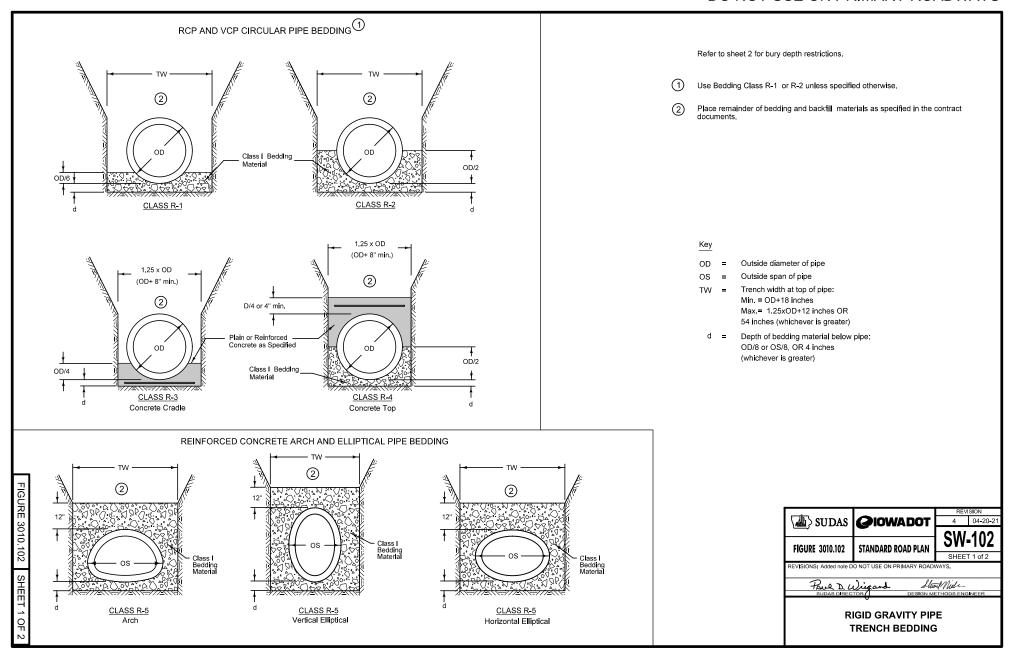
DO NOT USE ON PRIMARY ROADWAYS



ALLOWABLE BURY DEPTH

CLASS III RCP

| Pipe Diameter | Class R-1 | Class R-2 | Class R-3 & R-4 Bedding | | | |
|------------------|------------------|--------------|-------------------------|---------|---------|--|
| (in) | Bedding | Bedding | No Steel | As=0.4% | As=1.0% | |
| 12 | 7' | 10' | 15' | 19' | 27' | |
| 15 | 8' | 10' | 16' | 19' | 27' | |
| 18 | 8' | 11' | 16' | 20' | 40' | |
| 21 | 8' | 11' | 18' | 26' | 40' | |
| 24 | 8' | 12' | 23' | 36' | 40' | |
| 27 | 10' | 15' | 30' | 40' | 40' | |
| 30 | 11' | 15' | 29' | 40' | 40' | |
| 33 | 11' | 15' | 28' | 40' | 40' | |
| 36 | 11' | 15' | 27' | 40' | 40' | |
| 42 | 11' | 15' | 26' | 38' | 40' | |
| 48 | 11' | 15' | 26' | 36' | 40' | |
| 54 | 11' | 15' | 25' | 34' | 40' | |
| 60 | 11' | 15' | 25' | 33' | 40' | |
| 66 | 11' | 15' | 24' | 32' | 40' | |
| 72 | 11' | 15' | 24' | 32' | 40' | |
| As = Area of S | teel Reinforcing | g | • | | • | |

| CLASS IV | / RCP |
|----------|-------|

| Plpe Dlameter | Class R-1 | Class R-2 | Class R-3 & R-4 Bedding | | dding |
|------------------|--------------|--------------|-------------------------|---------|---------|
| (in) | Bedding | Bedding | No Steel | As=0.4% | As=1.0% |
| 12 | 12' | 15' | 23' | 28' | 40' |
| 15 | 12' | 16' | 23' | 30' | 40' |
| 18 | 13' | 16' | 29' | 40' | 40' |
| 21 | 13' | 18' | 40' | 40' | 40' |
| 24 | 16' | 23' | 40' | 40' | 40' |
| 27 | 19' | 30' | 40' | 40' | 40' |
| 30 | 19' | 29' | 40' | 40' | 40' |
| 33 | 19' | 28' | 40' | 40' | 40' |
| 36 | 19' | 28' | 40' | 40' | 40' |
| 42 | 18' | 27' | 40' | 40' | 40' |
| 48 | 18' | 26' | 40' | 40' | 40' |
| 54 | 18' | 25' | 40' | 40' | 40' |
| 60 | 18' | 25' | 40' | 40' | 40' |
| 66 | 18' | 25' | 40' | 40' | 40' |
| 72 | 18' | 24' | 40' | 40' | 40' |

CLASS V RCP

| Pipe Diameter | Class R-1 | Class R-2 Bedding | Class R-3 & R-4 Bedding | | |
|--------------------------------|--------------|-------------------------|-------------------------|---------|---------|
| (in) | Bedding | | No Steel | As=0.4% | As=1.0% |
| 12 | 18' | 23' | 35' | 40' | 40' |
| 15 | 19' | 24' | 40' | 40' | 40' |
| 18 | 19' | 30' | 40' | 40' | 40' |
| 21 | 25' | 40' | 40' | 40' | 40' |
| 24 | 34' | 40' | 40' | 40' | 40' |
| 27 | 40' | 40' | 40' | 40' | 40' |
| 30 | 40' | 40' | 40' | 40' | 40' |
| 33 | 40' | 40' | 40' | 40' | 40' |
| 36 | 40' | 40' | 40' | 40' | 40' |
| 42 | 37' | 40' | 40' | 40' | 40' |
| 48 | 35' | 40' | 40' | 40' | 40' |
| 54 | 33' | 40' | 40' | 40' | 40' |
| 60 | 32' | 40' | 40' | 40' | 40' |
| 66 | 31' | 40' | 40' | 40' | 40' |
| 72 | 31' | 40' | 40' | 40' | 40' |
| As = Area of Steel Reinforcing | | | | | |

EXTRA STRENGTH VCP

| CONCRETE | ARCH | PIPE |
|----------|------|------|

| HORIZONTAL | FII | IPTICAL | RCF |
|------------|-----|---------|-----|

VERTICAL ELLIPTICAL RCP

| | Bedding Class | | | | | | |
|------|---------------|-----------|-----------|-----------|---------|---------|--|
| | Plpe Dia | | | | | | |
| | (in) | (in) R-1 | R-2 | R-3 & R-4 | | | |
| | (47) | | | No Steel | As=0.4% | As=1.0% | |
| | 6 | 25' | 30' | 30' | 30' | 30' | |
| | 8 | 20' | 26' | 30' | 30' | 30' | |
| | 10 | 18' | 23' | 30' | 30' | 30' | |
| | 12 | 16' | 20' | 30' | 30' | 30' | |
| 7 | 15 | 15' | 19' | 28' | 30' | 30' | |
| 2 | 18 | 14' | 18' | 30' | 30' | 30' | |
| | 21 | 15' | 22' | 30' | 30' | 30' | |
| | 24 | 18' | 28' | 30' | 30' | 30' | |
| 2010 | 27 | 20' | 30' | 30' | 30' | 30' | |
| 15 | 30 | 19' | 29' | 30' | 30' | 30' | |
| 1 | 33 | 20' | 30' | 30' | 30' | 30' | |
| 2 | 36 | 20' | 30' | 30' | 30' | 30' | |
| 2 | 39 | 19' | 29' | 30' | 30' | 30' | |
| ij | 42 | 18' | 26' | 30' | 30' | 30' | |
| įΙ | As = Are | a of Stee | l ReInfor | dng | | | |

| Pipe Size (in x in) | Equiv. Dia. | P i pe | Class |
|------------------------|----------------|---------------|-------|
| , , | (in) | A-III | A-IV |
| 18 x 11 | 15 | 6' | 11' |
| 22 x 13 | 18 | 6' | 11' |
| 26 x 15 | 21 | 6' | 13' |
| 29 x 18 | 24 | 7' | 15' |
| 36 x 22 | 30 | 8' | 15' |
| 44 x 27 | 36 | 8' | 14' |
| 51 x 31 | 42 | 8' | 15' |
| 58 x 36 | 48 | 8' | 15' |
| 65 x 40 | 54 | 8' | 15' |
| 73 x 45 | 60 | 8' | 14' |
| 88 x 54 | 72 | 9' | 14' |
| Based on Clas | ss R-5 bed | ding | • |

| Pipe Size | Equiv. Dla. | Pipe | Class |
|-----------|----------------|--------|-------|
| (in x in) | (In) | HE-III | HE-IV |
| 14 x 23 | 18 | 12' | 22' |
| 19 x 30 | 24 | 15' | 29' |
| 22 x 34 | 27 | 15' | 28' |
| 24 x 38 | 30 | 15' | 27' |
| 27 x 42 | 33 | 15' | 27' |
| 29 x 45 | 36 | 15' | 26' |
| 32 x 49 | 39 | 15' | 26' |
| 34 x 54 | 42 | 15' | 25' |
| 38 x 60 | 48 | 15' | 25' |
| 43 x 68 | 54 | 15' | 24' |
| 48 x 76 | 60 | 15' | 24' |
| 53 x 83 | 66 | 15' | 24' |
| 58 x 91 | 72 | 15' | 24' |
| 63 x 98 | 78 | 15' | 23' |
| 68 x 106 | 84 | 15' | 23' |
| | | | |

Based on Class R-5 bedding

| Pipe Size | Equiv. | Pipe Class | | | | | |
|----------------|----------------------------|------------|-------|------|-------|--|--|
| (in x in) | Dla. (In) | VE-III | VE-IV | VE-V | VE-VI | | |
| 23 x 14 | 18 | 10' | 15' | 22' | 33' | | |
| 30 x 19 | 24 | 10' | 16' | 34' | 40' | | |
| 34 x 22 | 27 | 11' | 20' | 40' | 40' | | |
| 38 x 24 | 30 | 12' | 23' | 40' | 40' | | |
| 42 x 27 | 33 | 15' | 30' | 40' | 40' | | |
| 45 x 29 | 36 | 15' | 29' | 40' | 40' | | |
| 49 x 32 | 39 | 15' | 29' | 40' | 40' | | |
| 54 x 34 | 42 | 15' | 28' | 40' | 40' | | |
| 60 x 38 | 48 | 15' | 27' | 40' | 40' | | |
| 68 x 43 | 54 | 15' | 27' | 40' | 40' | | |
| 76 x 48 | 60 | 15' | 26' | 40' | 40' | | |
| 83 x 53 | 66 | 15' | 25' | 40' | 40' | | |
| 91 x 58 | 72 | 15' | 25' | 40' | 40' | | |
| 98 x 63 | 78 | 15' | 25' | 40' | 40' | | |
| 106 x 68 | 84 | 15' | 24' | 40' | 40' | | |
| Based on Class | Based on Class R-5 bedding | | | | | | |

| CIE CIIDAC | @ IOWADOT | REVISION 4 04-20- | | | | |
|--------------------------------------|----------------------------|----------------------|-------|--|--|--|
| /am > 20 Dy2 | CIOWADOI | OW | | | | |
| FIGURE 3010.102 | STANDARD ROAD PLAN | 5W | -102 | | | |
| TIOURE OUTOITOE | VICITEDIA NONE I LAIN | SHEET 2 of 2 | | | | |
| REVISIONS: Added note D | O NOT USE ON PRIMARY ROAD! | VAYS. | | | | |
| Pave D. C | Diesand Stee | Mide- | | | | |
| SUDAS DIREC | TOR DESIGN ME | THODS ENG | INEER | | | |
| RIGID GRAVITY PIPE TRENCH BEDDING | | | | | | |