



| BAR BENDING DIAGRAMS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STIRRUP DIMENSIONS ( $T=10^{\prime \prime}$ ) |  |  |  |  |  |  |  |  |  | STIRRUP DIMENSIONS ( $T=12^{\prime \prime}$ ) |  |  |  |  |  |  |  |  |  |
| $\varnothing$ | BAR MARK | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | $\varnothing$ | BAR MARK | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 |
| $30^{\circ}$ | 51 | 11/4" | 93/41 | $1^{1}-61 / 2^{\prime \prime}$ | 21/2" | $5^{\prime \prime}$ | 43/4" | 51/2" | 41/4" | $30^{\circ}$ | S1 | 111/2" | $10^{\prime \prime}$ | $1^{\prime}-6{ }^{\prime \prime}$ | 31/2" | $7{ }^{\prime \prime}$ | 43/4" | 53/41 | $6^{\prime \prime}$ |
|  | S2 | $1^{1}-1 /{ }^{1 / 2 \prime}$ | 93/411 | $1^{1}-8 \frac{3 / 4}{}{ }^{\prime \prime}$ | 21/2" | $41 / 2^{\prime \prime}$ | 51/2" | 53/4 | $4{ }^{1 / 1 / 1}$ |  | S2 | $1^{1}-1 / 3 / /^{\prime \prime}$ | $10^{\prime \prime}$ | $1^{\prime}-8 \frac{1}{4}{ }^{\prime \prime}$ | 31/2" | $61 / 2^{\prime \prime}$ | 5/4 ${ }^{\prime \prime}$ | 53/4" | $6^{\prime \prime}$ |
|  | 53 | 111/4" | $8^{\prime \prime}$ | 1'-6" | 1/1/4 | $5{ }^{\prime \prime}$ | 41/2" | 41/2" | $5^{\prime \prime}$ |  | 53 | 11/1/2" | 81/4" | 1'-53/4 | $2^{\prime \prime}$ | $7{ }^{\prime \prime}$ | 43/4" | 41/2" | 71/4" |
|  | S4 | 11/4/4 | 41/4" | $1^{1}-13 / 4^{\prime \prime}$ | 13/4" | $5^{\prime \prime}$ | 33/4" | 21/21 | $6^{1 / 4} 1$ |  | S4 | 111/2" | $4^{\prime \prime}$ | $1^{\prime}-1 /{ }^{1 / 1}$ | 21/4" | $7{ }^{\prime \prime}$ | $33 / 4$ | 21/2" | 81/4" |
| $45^{\circ}$ | S1 | 11/1/" | $8^{\prime \prime}$ | $1^{1}-4^{\prime \prime}$ | $4^{\prime \prime}$ | $51 /{ }^{\prime \prime}$ | 61/2" | $8^{\prime \prime}$ | $4^{\prime \prime}$ | $45^{\circ}$ | S1 | $1^{\prime}-0^{\prime \prime}$ | 81/2" | $1^{1}-3 /{ }^{1 / 1}$ | 51/7" | 71/2" | 61/4" | 81/2" | 51/4" |
|  | S2 | $1^{1}-1 / 3 / 4$ | $8^{\prime \prime}$ | 1'-53/4' | $4^{\prime \prime}$ | 41/2" | 71/2" | $8^{\prime \prime}$ | $4^{\prime \prime}$ |  | 52 | $1^{1}-2 / 1 /{ }^{1 /}$ | 81/2" | ${ }^{1}-5$ /2/ ${ }^{\prime \prime}$ | 51/4" | 61/2" | 7/1/4 | 8/2" | 51/411 |
|  | S3 | 111/2" | 63/1" | $1^{\prime}-4^{\prime \prime}$ | 21/4" | $51 /{ }^{\prime \prime}$ | 63/1' | $63 / 41$ | 51/2" |  | 53 | $1^{\prime}-0^{\prime \prime}$ | $7{ }^{\prime \prime}$ | $1^{\prime}-4^{\prime \prime}$ | 3" | 71/2" | 63/4" | $7{ }^{\prime \prime}$ | 71/4" |
|  | S4 | 11/1/" | 31/2" | $1^{1}-0^{\prime \prime}$ | $3^{\prime \prime}$ | $51 / 21$ | $5^{\prime \prime}$ | 31/2" | $7{ }^{\prime \prime}$ |  | 54 | $1^{\prime}-0^{\prime \prime}$ | 31/2" | 113/4 | 33/4" | 71/2' | $5{ }^{\prime \prime}$ | 31/2" | $9^{\prime \prime}$ |
| $60^{\circ}$ | S1 | 1'-0" | $6^{\prime \prime}$ | $1^{\prime}-03 /{ }^{\prime \prime}$ | 51/4" | $6^{\prime \prime}$ | 71/4" | 101/1" | $3{ }^{\prime \prime}$ | $60^{\circ}$ | S1 | $1^{\prime}-0^{1} / 2^{\prime \prime}$ | 61/4" | 113/4 ${ }^{\text {/ }}$ | $7{ }^{\prime \prime}$ | $8^{\prime \prime}$ | 63/4 | 103/4 | $4^{\prime \prime}$ |
|  | S2 | $1^{\prime}-2^{\prime \prime}$ | $6^{\prime \prime}$ | 1'-23/4' | 51/4" | $43 / 41$ | 83/4" | 101/2" | $3^{\prime \prime}$ |  | S2 | $1^{\prime}-23 / /^{\prime \prime}$ | 61/1" | $1^{\prime \prime}-2^{\prime \prime}$ | $7{ }^{\prime \prime}$ | $63 / 4$ | $8^{\prime \prime}$ | 103/4 | $4{ }^{\prime \prime}$ |
|  | 53 | $1^{1-00^{\prime \prime}}$ | 43/411 | $1^{1}-1 \frac{1}{1 / 2 \prime}$ | 31/4" | $6^{\prime \prime}$ | $8^{\prime \prime}$ | 83/41 | 51/4 |  | 53 | $1^{\prime}-0^{1} / 2^{\prime \prime}$ | $5^{\prime \prime}$ | $1^{\prime}-1 /{ }^{1 / 2 \prime}$ | $4{ }^{\prime \prime}$ | $8^{\prime \prime}$ | $8^{\prime \prime}$ | $9^{\prime \prime}$ | $7{ }^{\prime \prime}$ |
|  | 54 | $1^{1}-0^{\prime \prime}$ | $2^{1 / 2}{ }^{\prime \prime}$ | $10^{\prime \prime}$ | 41/2" | $6^{\prime \prime}$ | 53/4 | $4^{\prime \prime}$ | 71/2" |  | 54 | $1^{1}-0{ }^{1 / 2}$ | $2^{1 / 2}{ }^{\prime \prime}$ | 9/2" | 51/2" | $8^{\prime \prime}$ | 51/2 | 41/4" | 91/4 |




1-PIECE
BARS S1 \& S2 ${ }^{2}$


2 - PIECE


BARS S3 \& S4


DETAIL"D
(TYPE "B1" PILE SHOWN, TYPE "B2" PILE OPPOSITE HAND) NOTES:

1. This drawing includes details for precast concrete corner piles for $10^{\prime \prime}$ 2. and $12^{\prime \prime}$ thick sheet pile systems. The details apply equally to both thicknesses.
2. The bar configurations shown in Sections $A-A$ and $B-B$ shall be used for
$\varnothing$ angles between $15^{\circ}$ and $75^{\circ}$. For $\varnothing$ angles not shown, the reinforcing bar
angles between $15^{\circ}$ and $75^{\circ}$. For 0 angles not shown, the reinforcing bar
dimensions may be interpolated or extrapolated from the stirrup dimensions shown.
3. All bar dimensions are out-to-out.
4. Bars $A$ are $\# 8$ and Bars 5 are \#4.
5. Values for Stirrup Dimensions are shown for $\varnothing$ equal to $30^{\circ}, 45^{\circ} \& 60^{\circ}$ only
6. At the Contractor's option Bars $S$ may be fabricated as a 2 piece bar with
a minimum lap length of $1^{\prime}-66^{\prime \prime}$, as shown in Bar Bending Diagrams.
7. If Type "B1" or "B2" pile is used as a Starter Pile show tongue on both sides of pile from Dim. X down. Show dimensions for Bars S2, S3 \& S4 in shop drawings.
8. If tongue must be on the opposite side from that shown all dimensions and Bars $A$

S2, S3 and S4 will be the same but opposite hand.
9. For Dimensions L, X and Angle Ø, see Sheet Pile Data Table in Structures Plans. TYPE "B1" AND "B2" - VARIABLE ANGLE CORNER PILE
LAST
REVISION
$07 / 01 / 12$

FDOT
DESIGN 2016 STANDARDS


