
End Concrete Barrier Wall (Rigid) (Curb \& Gutter)
$x$ (Length of Advancement, Ft.) $\qquad$ End of Bridger Rail
Or Other Hozrord
That Requires Shelding


Equation Variables
$D=\begin{aligned} & \text { Distance in feet from near edge of the near approoch } \\ & \text { trafficic lane to bock of hozard or clear zone width }\end{aligned}$ Whichever is lesser. For left side chazzorose ond clear
zones on two -woy Undivided focilties is is mesured

- Distace in feetro

Distance in feet from near edge of the near qpproach
troffic
roine to the foce of borrier (at offset control
 Pocilifites of is meosurred from the inside edge of the
nearest opposing troffic lone.
length of advancement

That Requires Shielding


FOR LOW SIDE


Note: All Iongitydinal reinforcement \#4 wors. Minimum segment tength for this woll is 40' Shorter segments due to
construction or exponsion joint shall be dowled in the monner described for 'Transition Segments on Sheet Ill construction or exponsion joint sholl be dowled in the manner described for 'Transition Segments' on Sheet 1 .
Tronsverse exponsion joints are to be constructed ot the juncture of woll tronsitions and curb ond gutter. ot intervals soonhot spocing will not exceed 1 loo'.
Wall to be paid for under the controct Unit Price for Conorerete Barrier Woll( RRigid-Curb \& Gutter ), LF.
Estimoted Quuntitites Per Linear Foot of Wall:
Class II Concrete: 0.23 C.Y.
SECTION TT

CONCRETE BARRIER WALL (RIGID) (CURB \& GUTTER) - WITH ADJACENT BICYCLE LANE

2006 FDOT Design Standards
Revision $\quad$ Sheet No.
CONCRETE BARRIER WALL



CONCRETE BARRIER WALL (RIGID) (CURB \& GUTTER)
CURB AND GUTTER WITHOUT UTILITY STRIP AND WITHOUT ADJACENT BICYCLE LANE

|  | 2006 FDOT Design Standards | ${ }_{\text {Revision }}^{\text {Last }}$ | Sheet No. |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |

PICTORIAL VIEW



WITHOUT UTILTY STRIP

## two-way traffic (opposing lane approach )



WITH UTILTY STRIP
ONE-WAY TRAFFIC (TRAILING END)

$\diamond$ See Sheet 16
$\Delta$ See Sheet 16


CONCRETE BARRIER WALL (RIGID)(CURB \& GUTTER) - TRANSITION SEGMENTS • WITHOUT ADJACENT BICYCLE LANE

|  | 2006 FDOT Design Standards | Resision | Sheet No. |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |


$\nabla_{\text {See Notes This Sheet }}$
$\Delta$ See Notes This Sheet


WITH OR WITHOUT UTILITY STRIP NEAT LINE PICTORIAL VIEW


SECTION AA
Const. Joint Permitted

neat line pictorial view


SECTION CC



RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE HAND
ONE-WAY AND TWO-WAY TRAFFIC (NEAR LANE APPROACH)
CONCRETE BARRIER WALL (RIGID) (CURB \& GUTTER) • TRANSITION SEGMENT • WITHOUT ADJACENT BICYCLE LANE

|  | 2006 FDOT Design Standards | Reision | Sheet No. |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |



CONCRETE BARRIER WALL (RIGID)(CURB \& GUTTER)• WITHOUT ADJACENT BICYCLE LANE

|  | 2006 FDOT Design Standards | Reastion ${ }^{\text {Lestet }}$ |
| :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |



'a' Varies (Circular Or octagonal Hazord Not More Than 2" In Front of Face of Wall).
Applicable To Sections 'AA' And 'BB' with Spons of $\leq 13$ ', And To Section 'CC', Sheet No. 18 .
Applicable To Oother Rigid Wolls of This index For Spans $>13^{\prime}$ Unless Otherwise Shown in The Plans.
hazard penetrating stem of rigid concrete barrier walls


CONCRETE BARRIER WALL WHEN SPAN BETWEEN BENT SUPPORTS OR PIER COLUMNS EXCEEDS $13{ }^{\prime}$
CONCRETE BARRIER WALL WHEN GUARDRAIL OFFSET FROM BENT OR PIER LESS than 3 feet or where wall stem abutts supports or pier column


2006 FDOT Design Standards
CONCRETE BARRIER WALL

|  |
| :---: |
| $\overbrace{0}$ |



## STANDARD GUARDRAIL APPROACH TO SHOULDER BARRIER

notes

[^0]4. Either steel or timber gurdrail post moy be used, timber posts shown.
5. The nested beamb sholl not be bolted to blocks and posts at posts
. On the trailing side of MEDAA BARPJUR WAL offset blocks may be
7. For addifional guardrail information refer to index No. 400.

GUARDRALL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS

|  | 2006 FDOT Design Standards | ${ }_{\text {Revision }}^{\text {Last }}$ | Sheet No. |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |

## general notes for trapezoidal barrier wall

- Concrete tropezoiddal borrier wall can be either precost or cast in place. The wall is designed for zero deflection and shall hove
a minimum system length of 120 '.
 and $54^{4 \prime}$ high borriers ot the respective points along the vertiocal transition, with the vertiocal steel uniformyly lengthened ond

3. Welded wire fabria (WWF) made in (ratane


4. To ottain system length, precast segments shall be interconnected with rebor grids ploced in
into ploce. Segment length shall be not less thon 30 'unless otherwise specif led in the plans.
the preformed slots and grouted
5. The centerline axis of the barrier shall be vertical except where the roodway is superelevated in which case it shall be normal
6. For reflective barrier morker requirements see 'STANDARD BARRIER WALL SECTIONS' and the GENERAL NOTES, Sheet I.
7. The concrete tropezoiddal borrier wall is considered by the Federal Highwoy Administration to be innovative and moy be used os
such on Federal Aid projects.
8. The concrete tropezoidal Iobrrier wall is to be poid for under the contract unit orice for Barrier Wall Concrete (Tropezoidal), LF
 FOR PRECAST INSTALLATION All Transverse Reinforcing Wire Size Di4
All Longitudinal Reifforcing Wire Size D20 WELDED WIRE FABRIC REINFORCING


$$
\begin{aligned}
& \text { Recess Seat For } \\
& \text { Light Pole Base }
\end{aligned}
$$

Recess Seat For
Light Pole Base

$$
\dot{\sigma}_{\dot{p}}^{1}
$$

SECTION CC
$\longrightarrow C$
fRONT VIEW
Note: For Additional Details See Sheet 4 IN TRAT POLE MOUNTING

 All Horizontal Reinforcing \#5 Bars Spoceed As Tobulated
TYPICAL HALF WALLS AROUND OBSTRUCTION


TRANSITION SECTIONS


| $\begin{aligned} & \text { Barrier } \\ & \text { Height } \\ & \text { (ing) } \end{aligned}$ | DIMENSIONS (Inches) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | $c$ | 0 | E | $F$ | 6 | H | 1 | $J$ | K | $\llcorner$ | M | $N$ | P | 0 | $s$ | $T$ |
| 42 | 42 | 24 | $33 \frac{1}{2}$ | $13 \frac{1}{2}$ | 21 | $28 \frac{1}{2}$ | 36 | 15 | 9 | $33^{\frac{1}{4}}$ | 15 | 9 | 36 | 72 | 4 | 12 | 28 | 36 |
| 48 | 48 | 26量 | $39 \frac{1}{2}$ | 15 | 24 | 33 | 42 | 17 | $10 \frac{3}{4}$ | 394 | $7{ }^{1}$ | $10 \frac{3}{4}$ | 42 | 84 | 5 | $13^{\text {g }}$ | 3/12 | 42 |
| 54 | 54 | 28 复 | $45 \frac{1}{2}$ | $16 \frac{1}{2}$ | 27 | $37 \frac{1}{2}$ | 48 | $19 \frac{1}{2}$ | $12 \frac{1}{4}$ | $45 \frac{1}{4}$ | $19 \frac{1}{2}$ | 12 ${ }_{4}^{4}$ | 48 | 96 | 6 | $14 \frac{9}{23}$ | $34{ }^{\frac{3}{4}}$ | 48 |

TRAPEZOIDAL BARRIER WALL


2006 FDOT Design Standards

| Last <br> Revision <br> 00 | Sheet No. <br> 21 of 22 |
| :---: | :---: |
| Index |  |
| $\mathbf{4 1 0}$ |  |


conventional reinforcement

#  LONGITUDINAL SECTION 

WELDED WIRE FABRIC REINFORCEMENT
END TREATMENT FOR PRECAST OR CAST-IN-PLACE WALLS

 GUARDRAIL TRANSITIONS AND CONNECTIONS

## NOTES

1. Where reamimg is necessary to fit nested beams the reamed surface shall be metalized in accordance with Index No. 400.
2. The nested beams shall not be bolted to the posts and blocks at post numbers (1), (3) and (5)
3. For additional wall details, see Sheet 21
4. For additional guardrail information refer to index No. 400.

[^0]:    1. The longituld barrier walls.
    2. W-beam elements do not apply to these transition schemes. For borrier wall trailing end guordrail connections for one-way
    3. Where reaming is necessary to fit nested beams the reamed surfaces shall be metalized in accordance with Index No. 400
