



TOP VIEW
PRECAST BARRIER TRANSVERSE JOINTS
DETAIL C


TOP VIEW
straight tongue and groove DETAIL D


1. End of wall flush mounted connections ore not applicicoble to two- Ione two-woy facilities. See Sheets 18 and 20 for trailing end connections
2. Trailing guardrail connections to double foce safety shoped walls will be under one of the following traffic conditions ond mounting methods:

W-BEAM GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL TRAILING ENDS
Shoulder treatment when crash cushions shielding concrete barrier WALL END LOCATED INSIDE APPROACH CLEAR ZONE OR HORIZONTAL CLEARANCE

DETAIL A

Ends with Redirective Crash Custion System. See Apolicable OPL Drowing
Ends With Guardrail Connection
Free Ends And
Abutting Ends
1 End $\&$ Reinforcement


SIDE VIEW

Hairoin Front Foce
Bend
Extended As Bend Extended As
Required By Other
Indexeses For Mounting Indexes For Mounting
Haff Wolls On Pigid
Concrete Surfocid

END VIEW
Note: Free end reinforcement required for noir einforced walls ot the following locations: All exposed ends; abutting


FREE END REINFORCEMENT

|  | 2008 FDOT Design Standards | Sheet No. |
| :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |


concrete median barrier wall transitions at bridge piers and overhead sign supports

2008 FDOT Design Standards

| ${ }_{\text {Reusion }}$ Lest | s |
| :---: | :---: |
|  |  |
|  |  |





BENDING DIAGRAMS


NOTE: All longitudinal reinforcement \#4 bors.
Minimum segment lengtt fort this sorstlis is 20 feet.
Wall to be poid for under the contract unit price. Woll to be paid for under the contract Unit price.
for Shouldder Concrete Barrier Wall (Rigid-Retaining), LF

REINFORCED CONCRETE BARRIER WALL (RETAINING)





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


PICTORIAL VIEW


WITH UTILTY STRIP

PICTORIAL VIEW


TWO-WAY TRAFFIC (OPPOSING LANE APPROACH)


ONE-WAY TRAFFIC (TRAILING END)


WITHOUT UTIUTY STRIP


CONCRETE BARRIER WALL (RIGID) (CURB \& GUTTER) • TRANSITION SEGMENTS • WITH ADJACENT BICYCLE LANE

|  | 2008 FDOT Design Standards | $\begin{aligned} & \text { Revisiten } \\ & \hline \text { Levo } \end{aligned}$ | Sheet No $10 \text { of } 22$ |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |




CONCRETE bARRIER WALL (RIGID)(CURB \& GUTTER) - WITH ADJACENT bICYCLE LANE

2008 FDOT Design Standards
Reast
CONCRETE BARRIER WALL


2008 FDOT Design Standards
CONCRETE BARRIER WALL


CONCRETE BARRIER WALL (RIGID) (CURB \& GUTTER)
CURB AND GUTtER WITHOUT UTILITY STRIP AND WITHOUt ADJACENT bicycle lane

|  | 2008 FDOT Design Standards | $\underset{\substack{\text { Revestan }}}{ }$ |  |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |

PICTORIAL VIEW


TWO-WAY TRAFFIC (OPPOSING LANE APPROACH)
pictorial view




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

|  | 2008 FDOT Design Standards | ${ }_{\text {Revision }}^{\text {Last }}$ | she |
| :---: | :---: | :---: | :---: |
|  | CONCRETE BARRIER WALL | 410 |  |




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


2008 FDOT Design Standards


' ${ }^{\prime}$ ' Varies (Circular or Octagonal Hazard Not More Than 2"' In Front of Face of Wall).
Applicoble To Sections 'AA' And 'BB' With Soons of $\leq 13$ ', And To Section 'C', Sheet No. 18 .
Applicoble $T o$ Other Rigid Wolls of This index For Spans $>13$ ' Unless Otherwise Shown in The Plans.
hazard penetrating stem of rigid concrete barrier walls


2008 FDOT Design Standards

|  |
| :---: |
|  |



## general notes for trapezoidal barrier wall

1. Concrete tropezoidal barrier wall can be either precast or cast-in-place. The wall is designed for zero deflection and shall hove
aminimum system length of $120^{\prime}$.
 and 54 nith birriers at the respecifve points long the vertical transition, with the verticisl steel uniformy lengthened ond
the horizontar steee uniformy spiayed inroughout.
 transitio
Index.
2. To ottain system length, precast segments shall be interconnected with rebor grids ploced in the preformed slots and grouted
into ploce. Segment length shall be not less thon 30 unless otherwise specified in the plans.
3. The centrerline oxis of the borrier shall be vertitial exceept where the roodway is superelevacted in which cose it shall be normal
4. For reflective barrier morker requirements, see 'STANDARD BARRIER WALL SECTION' and the GENERAL NOTES, Sheet I.
5. The concrete tropezoidal borrier wall is considered by the Federal Highway Administration to be innovative and moy be used as
such on Federal Aid projects.
6. The concrete tropezioidal loarrier wall is to be paid for under the contract unit price for Medion Concrete Barrier Wall (Tropezozidal), LF .

for prechar grid installation

All Transverse Reinforcing Wire Size 014
All Longitudinal Reinforcing Wire Size WELDED WIRE FABRIC REINFORCING
 Lifting Pipe For Precas
$\left(7.5^{\prime}\right.$ From Either End)



Junction Box
Or Pull Box


FRONT VIEW
Note: For Additional Details See Sheet 4 LIGHT POLE MOUNTING
IN TRAPEZOIDAL SECTIONS

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

SECTION AT BEGN AND END
OF HALF WALLS
SECTION AT BEGIN AND
OF HALF WALLS
For Transition Wall Plan See DETALL I
TRANSITION SECTIONS


All Vertical Reinforcing \#4 Bars
All Horizontal Reinforcing \#5 Bars All Horizontal Reinfororing ${ }^{* 5}$ Bors
CONVENTIONAL REINFORCING


| $\begin{aligned} & \text { Barrier } \\ & \text { Height } \\ & \text { (in.) } \end{aligned}$ | DIMENSIONS (Inches) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | c | 0 | E | F | ${ }^{6}$ | H | 1 | $J$ | к | $\llcorner$ | 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 9 | $33 \frac{1}{4}$ | 15 | 9t | 36 | 72 | 4 | 12 | 28 | 36 |
| 48 | 48 | $26 \frac{9}{3}$ | 39 | 15 | 24 | 33 | 42 | $\pi{ }^{\frac{1}{4}}$ | $10 \frac{3}{4}$ | $39 \pm$ | $17 \frac{1}{4}$ | $10^{\frac{3}{4}}$ | 42 | 84 | 5 | $13{ }^{\frac{9}{6}}$ | $31 \frac{1}{2}$ | 42 |
| 54 | 54 | 289 ${ }^{\frac{9}{6}}$ | $45 \frac{1}{2}$ | $16 \frac{1}{2}$ | 27 | $37 \frac{1}{2}$ | 48 | $19 \frac{1}{2}$ | $12 \frac{1}{4}$ | $45 \frac{1}{4}$ | $19 \frac{1}{2}$ | 12 $\frac{1}{4}$ | 48 | 96 | 6 | $14 \frac{9}{32}$ | $34{ }^{\frac{3}{4}}$ | 48 |

TRAPEZOIDAL BARRIER WALL


2008 FDOT Design Standards

| Revision <br> 00 | Sheet No. <br> 21 of 22 |
| :---: | :---: |
| Index No. |  |
| 410 |  |


longitudinal section

## WELDED WIRE FABRIC REINFORCEMENT

END TREATMENT FOR PRECAST OR CAST-IN-PLACE WALLS


## NOTES

1. Where reamimg is necessary to fit nested beams the reamed surface sholl 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.
