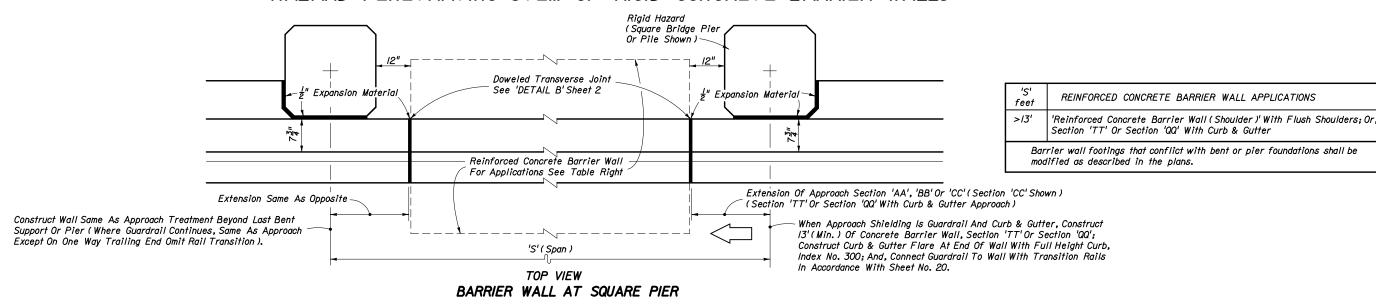


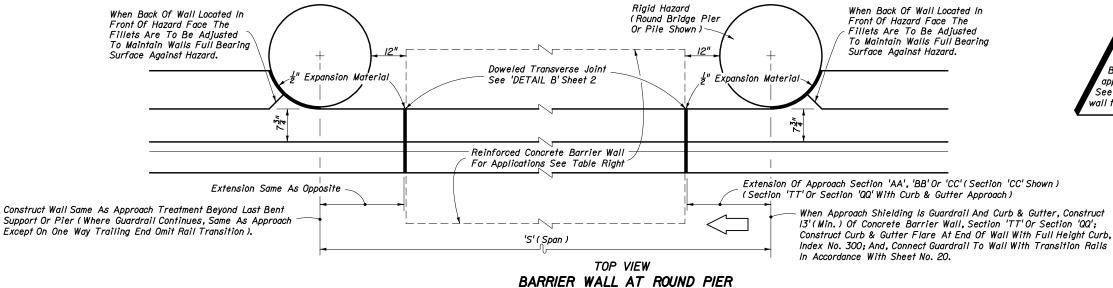
'a' Varies (Circular Or Octagonal Hazard Not More Than 2" In Front Of Face Of Wall).

Applicable To Sections 'AA' And 'BB' With Spans Of ≤13', And To Section 'CC', Sheet No. 18.

Applicable To Other Rigid Walls Of This Index For Spans >13' Unless Otherwise Shown In The Plans.

## HAZARD PENETRATING STEM OF RIGID CONCRETE BARRIER WALLS





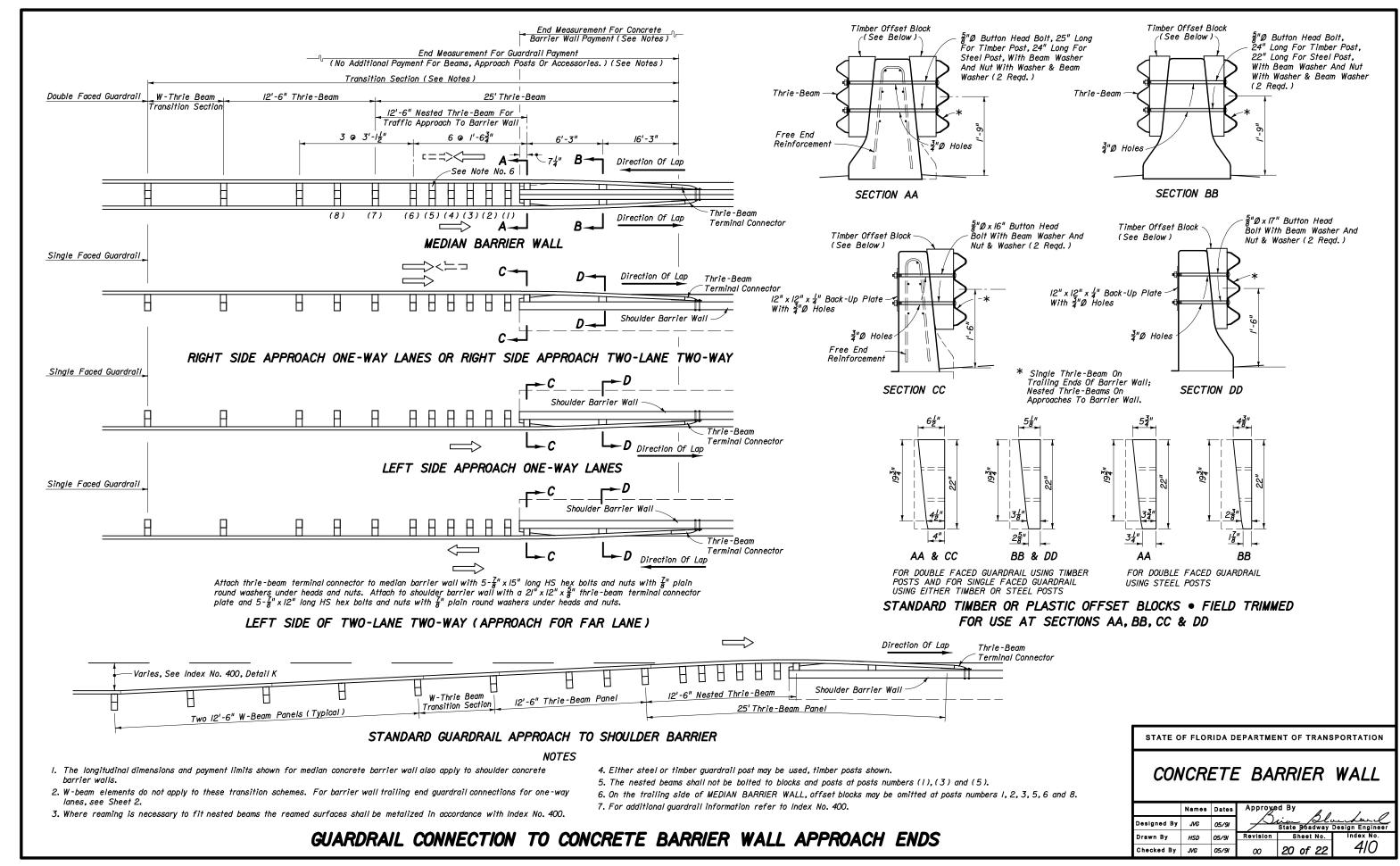
CONCRETE BARRIER WALL WHEN SPAN BETWEEN BENT SUPPORTS OR PIER COLUMNS EXCEEDS 13'

CONCRETE BARRIER WALL WHEN GUARDRAIL OFFSET FROM BENT OR PIER LESS THAN 3 FEET OR WHERE WALL STEM ABUTTS SUPPORTS OR PIER COLUMN The details on this sheet are treatments to the F-shape concrete barrier walls depicted on Sheet Nos. 8 through 18, where site conditions impose reduced clearances between above ground hazards and the walls. Bridge bent supports and piers are shown. These treatments are not applicable to hazards that cannot provide lateral support for the walls. See the plans for limits of wall sections applied and other associated wall treatments.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

## CONCRETE BARRIER WALL

	Names	Dates	Approve	d By	1 1
Designed By	STAFF	10/97	<i>-</i>	<u>الركاب</u> State Boadway	Design Engineer
Drawn By	нкн	10/97	Revision	Sheet No.	Index No.
Checked By	JVG	10/97	00	19 of 22	<del>4</del> 10



#### GENERAL NOTES FOR TRAPEZOIDAL BARRIER WALL

- I. Concrete trapezoidal barrier wall can be either precast or cast in place. The wall is designed for zero deflection and shall have
- 2. Where concrete trapezoidal barrier wall height changes from 42" to 48" or from 48" to 54", height change will be uniform for each 6" of height change per 90 of wall. Steel placement shall meet the dimensional positioning requirements of 42". 48' and 54" high barriers at the respective points along the vertical transition, with the vertical steel uniformly lengthened and the horizontal steel uniformly splayed throughout.
- 3. Welded wire fabric (WWF) made in accordance with ASTM A497 may be used as an option to the conventional reinforcement for precast or cast in place barrier wall, with the exception that only conventional reinforcement shall be used for horizontal transition and half wall sections. These sections shall be cast in place with length, shape and reinforcement as shown in this
- 4. To attain system length, precast segments shall be interconnected with rebar grids placed in the preformed slots and grouted into place. Segment length shall be not less than 30'unless otherwise specified in the plans.
- 5. The centerline axis of the barrier shall be vertical except where the roadway is superelevated in which case it shall be normal to the cross slope unless otherwise shown in the plans or directed by the Engineer.
- 6. For reflective barrier marker requirements see 'STANDARD BARRIER WALL SECTIONS' and the GENERAL NOTES, Sheet I.

8-#6 Bars, Bend To Obtain 2"

30' Min. To Const.

Joint Each Side

Trapezoidal Barrier

Anchor Bolts

Const. Joint Permitted

Bolt Circle Projection, Diameter

And Length Per Pole Manufacturer's Specifications.

Cast In Place

(Each Side)

Note: For Additional Details See Sheet 4

LIGHT POLE MOUNTING IN TRAPEZOIDAL SECTIONS

TOP VIEW

FRONT VIEW

Free End Reinforcement

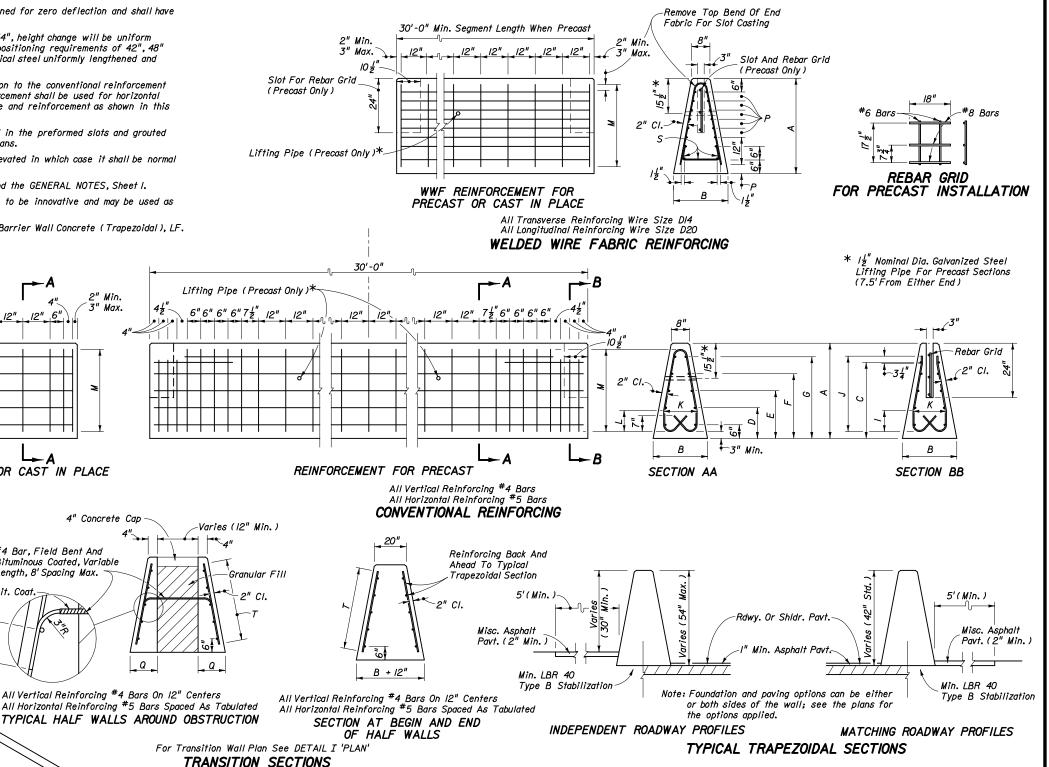
Each Side

Junction Box

Or Pull Box

Clearance At Barrier Wall Footing

- 7. The concrete trapezoidal barrier wall is considered by the Federal Highway Administration to be innovative and may be used as
- 8. The concrete trapezoidal barrier wall is to be paid for under the contract unit price for Barrier Wall Concrete (Trapezoidal), LF. This price will include full payment for transitions, half walls, fill and concrete caps.



0 SECTION CC

Light Pole

(NonFranaible)

Recess Seat For

Light Pole Base

SYSTEM LENGTH

REINFORCEMENT FOR CAST IN PLACE

All Horizontal Reinforcing #5 Bars Spaced As Tabulated TYPICAL HALF WALLS AROUND OBSTRUCTION

> Barrier Heiaht

> > in.)

48

48

2" Min.

3" Max.

4" Concrete Cap

#4 Bar, Field Bent And

Length, 8' Spacing Max.

Bituminous Coated, Variable

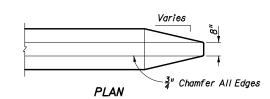
DIMENSIONS (Inches) 36 15 9¼ 15 9⅓ 36 28 | 36 72 12 15 24 33 42 10 🖁 17 4 10 🛂 42 84 5 13 🚑 | 31 🛓 42 39 ₺ 17 🛓 39 🛔 54 | 28 <del>9</del> | 45 ½ 12 1 48 96

TRAPEZOIDAL BARRIER WALL

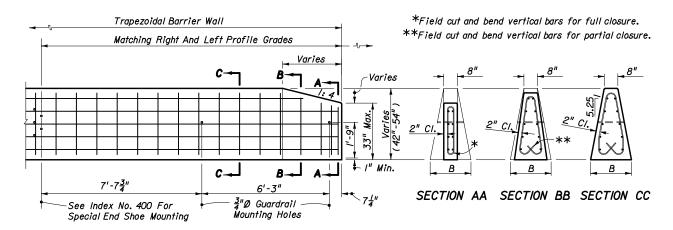
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

## CONCRETE BARRIER WALL

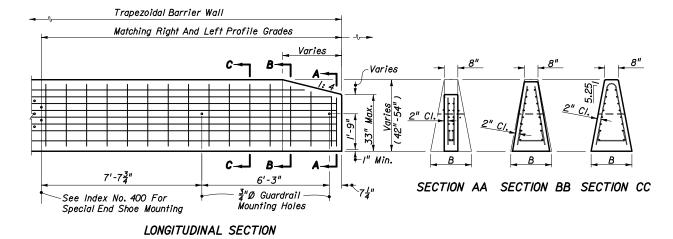
	Names	Dates	Approve		1 1	
Designed By	FHWA	11/93	State Boadway Design Engineer			
Drawn By	нкн	11/93	Revision	Sheet No.	Index No.	
Checked By	JVG	11/93	00	21 of 22	<i>410</i>	



LONGITUDINAL SECTION

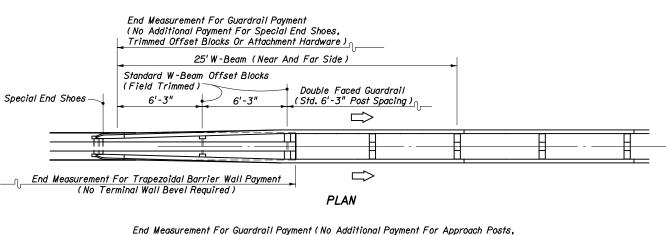


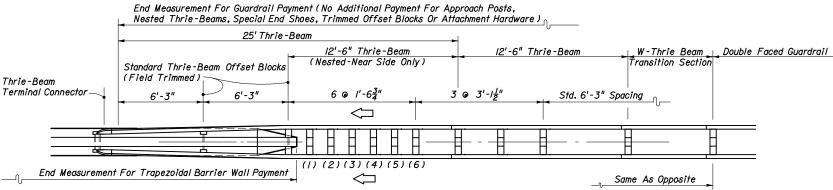
### CONVENTIONAL REINFORCEMENT



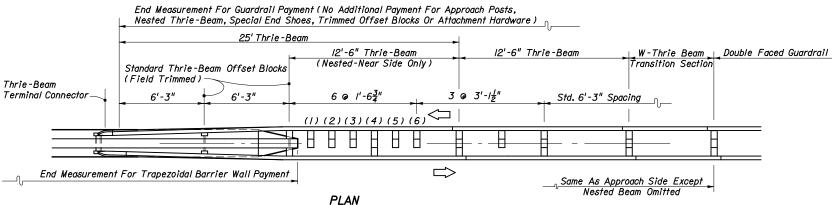
WELDED WIRE FABRIC REINFORCEMENT

### END TREATMENT FOR PRECAST OR CAST-IN-PLACE WALLS





PLAN UNIDIRECTIONAL



# BIDIRECTIONAL

Note: Timber or steel posts may be used, timber posts shown.

### GUARDRAIL TRANSITIONS AND CONNECTIONS

#### NOTES

- I. Where reaming 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.

# GUARDRAIL CONNECTION TO TRAPEZOIDAL BARRIER WALL

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

## CONCRETE BARRIER WALL

	Names	Dates	Approve	- //	, , ,	
Designed By	JVG/HKH	7/96	<del>/</del>		Design Engineer	
Drawn By	HKH	7/96	Revision	Sheet No.	Index No.	
Checked By	JVG	7/96	00	22 of 22	<i>4</i> /0	