#### GENERAL NOTES:

- 1. Construct Perimeter Walls in accordance with Specification Section 534.
- 2. Choice of either Precast Option or Masonry Option is at the discretion of the Contractor. Contractor must also select the desired foundation type. Modifications to this Index is restricted to those required for geometric needs only.
- 3. Post spacing is measured from centerline to centerline of foundation element. For this Index, posts and foundation elements have been designed for 20 ft. spacings. Use post spacings less than 20 feet only at changes in horizontal alignment, wall terminations or to accommodate steep grades.
- 4. See "Perimeter Wall Data Tables" in the plans for project requirements.
- 5. Field verify the locations of all overhead and underground utilities shown in the Wall Control Drawings.

# PRECAST OPTION NOTES:

#### 6. WALL NOTES:

- A. Walls may consist of either a single height panel or two stacked panels. Minimum panel height is 4'-3".
- B. Only when reduced overhead clearance between posts prohibits installation of panels from the top, side-installed panels are allowed. After panel is centered between posts, grout between panel ends and posts.

#### 7. CONCRETE AND GROUT:

- A. Cast-in-Place and Precast Concrete: Class IV (f'c = 5500 psi)
- B. Grout for Auger Cast Piling: Minimum 28 Day Strength = 5500 psi
- C. Minimum Compressive Strength for Form Removal and Handling of Posts, Panels and Precast Spread Footings:
  - i. 2,500 psi for horizontally cast post, panels and precast spread footings.
- ii. 2,000 psi for vertically cast panels or when tilt-up form tables are used for horizontally cast panels.

#### 8. REINFORCING STEEL:

- A. Concrete Cover:  $1\frac{1}{2}$  unless otherwise noted.
- B. In addition to the requirements of Specification Section 415, tie post and pile stirrups at the following locations as a minimum:
  - i. Post Stirrups Tie at all four corner bars and at every third interior bar intersection.
- ii. Pile Stirrups Tie to the main vertical reinforcing at alternate intersections.

#### 9. NEOPRENE PADS:

A. Neoprene Pads for Collar or Pedestal Bearing Points and between stacked panels may be either Plain Pads or Fiber Reinforced Pads, with a durometer hardness between Grade 50 and Grade 80 in accordance with Specification Section 932-2.

#### 10. CASTING TOLERANCES:

- A. Overall Height & Width:  $+/-\frac{1}{4}''$
- B. Thickness:  $+/-\frac{1}{4}$ "
- C. Plane of side mold:  $+/-\frac{1}{16}$ "
- D. Openings: +/- 1/3"
- E. Out of Square:  $\frac{1}{8}$ " per 6 ft., but not more than  $\frac{3}{8}$ " total along any side
- F. Warping:  $\frac{1}{16}$ " per foot distance to nearest corner
- G. Bowing: 1/240 panel dimension

11. PILING:

Construct Auger Cast Piling in accordance with the Plans and Specification Section 455.

## MASONRY OPTION NOTES:

#### 12. WALL NOTES:

- A. Inspect construction in accordance with the International Building Code (IBC) Section 17.
- B. Construct masonry walls using a running bond pattern with concave tooled joints.
- C. Make all elevation changes (steps) in footing and top of wall using full height blocks. Make top of wall steps at pilasters exclusively. Footing steps may be made between pilasters as necessary to maintain minimum soil cover.

# MASONRY OPTION NOTES (CONT.):

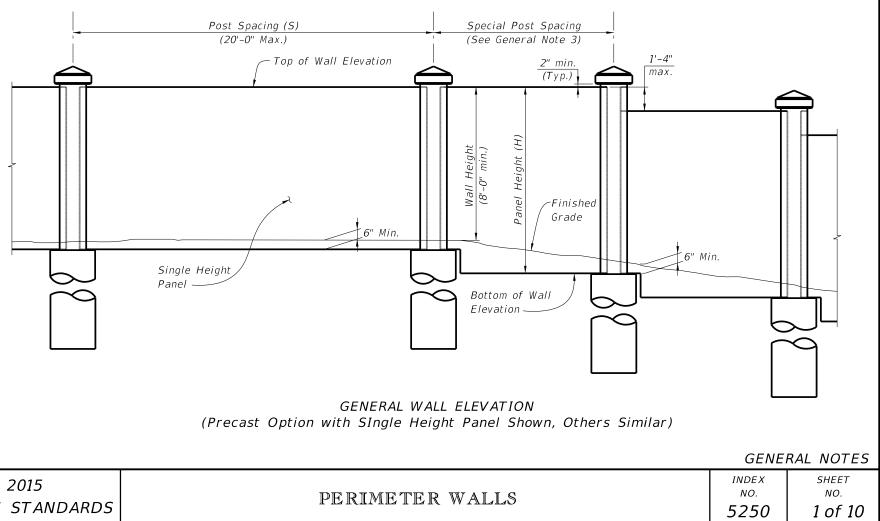
- D. All cells with horizontal or vertical reinforcing bars most be fully grouted.
- E. Use reinforcing bar positioners to maintain vertical and horizontal bar placement.
- F. Fully grout first three courses of the wall.
- G. Joint Reinforcement: Use W 1.7 (9mm) galvanized ladder reinforcing spaced at 16" vertically. Provide special accessories for corners, intersections, etc. Joint reinforcing shall be continuous except it shall not pass through vertical masonry control joints. Lap joint reinforcing a minimum of 6".
- H. Construct expansion joints in the foundation at 90 foot maximum intervals, and directly below a wall control joint.
- I. Dowel Load Transfer Devices will be ASTM A 36 smooth round bars hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- J. For spread footings, use a walk-behind compactor of at least 600 lbs. in weight. Obtain a minimum density of 95% of the maximum dry density as determined by FM 1 T-180. Perform soil density tests at 100 foot intervals.
- K. Protect walls during construction from soil, grout or mortar stains. Clean wall as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- L. Use soap and potable water to clean walls. If stain removal is necessary, use a cleaning method indicated in NCMA TEK 8-2A applicable to the type of stain on the exposed surface.
- M. During construction, cover tops of walls, with waterproof sheeting at the end of each day's work, or when construction is not in progress. Extend sheeting a minimum of 2 feet down each side and secure in place.
- N. Comply with Hot Weather Requirements in ACI 530.1.

#### 13. MATERIALS:

- A. Concrete Masonry Units (CMU): Provide normal weight blocks.
- B. Cast-In-Place Concrete: Class II (f'c = 3400 psi)
- C. Mortar: Type S meeting requirements of ASTM C1329
- D. Grout: Type S; coarse grout.
- E. Aggregate for Grout: Meet the requirements of ASTM C404 or Specification Section 901 size 8 or 89.

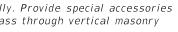
### 14. STORAGE OF MATERIALS:

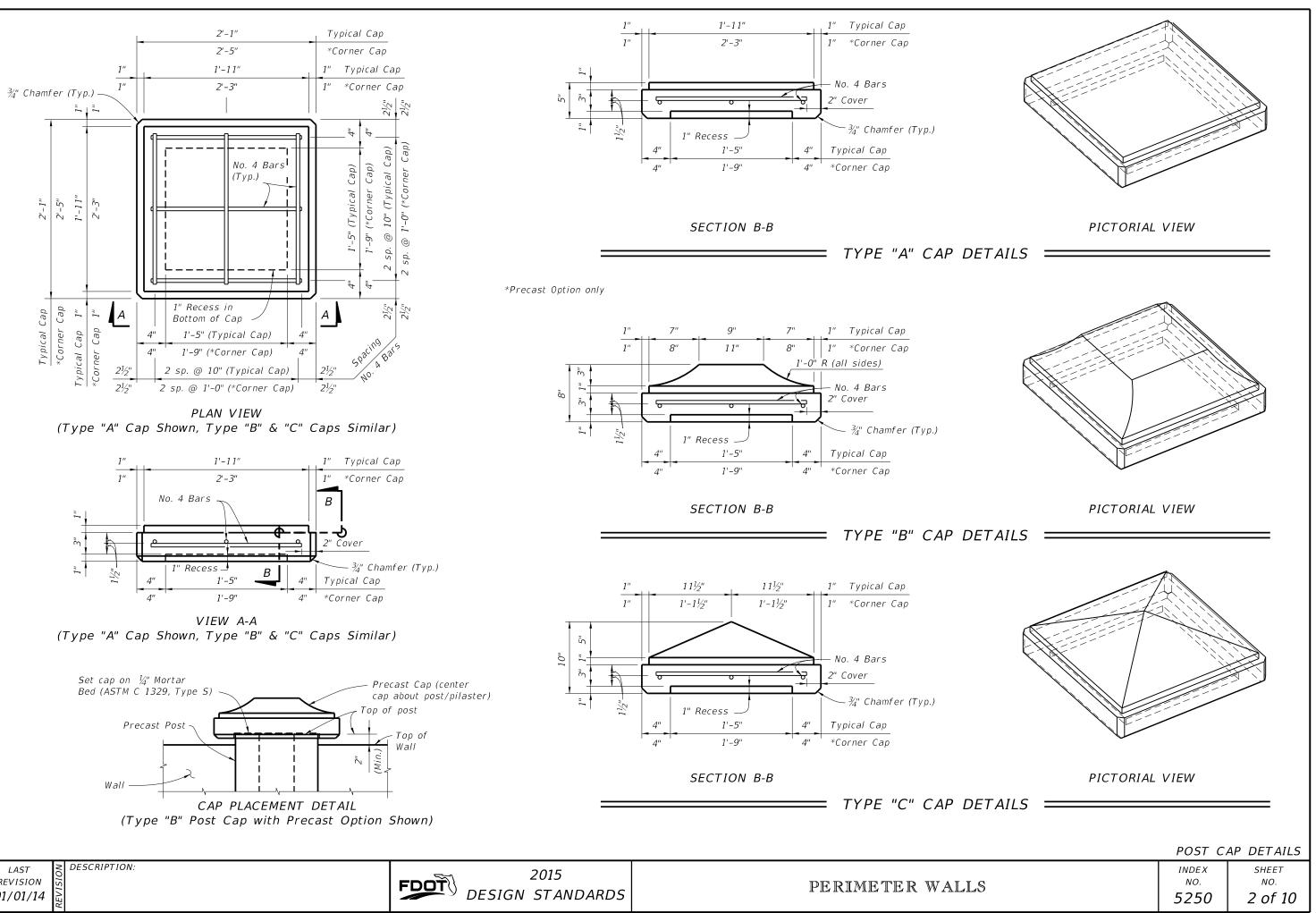
- A. Store CMU's on elevated platforms in a dry location or under cover.
- If units become wet, do not install until they are dry. B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp or exceded the manufacturers shelf life.
- C. Store masonry accessories and reinforcing to prevent corrosion and accumulation of dirt and oil.



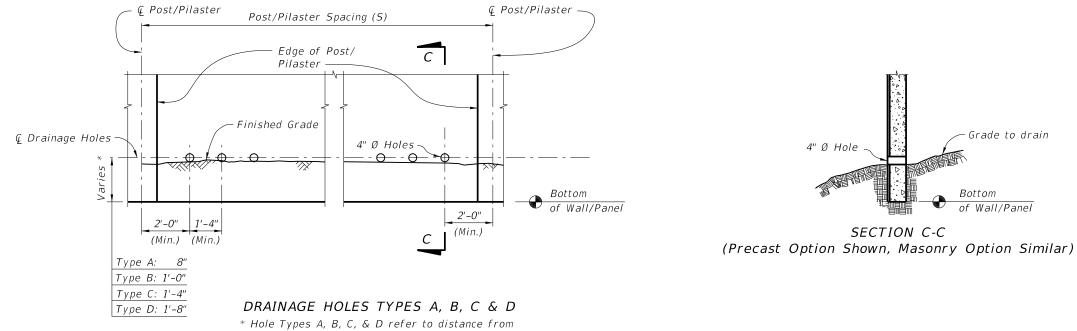
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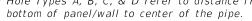
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PERIMETER WALLS

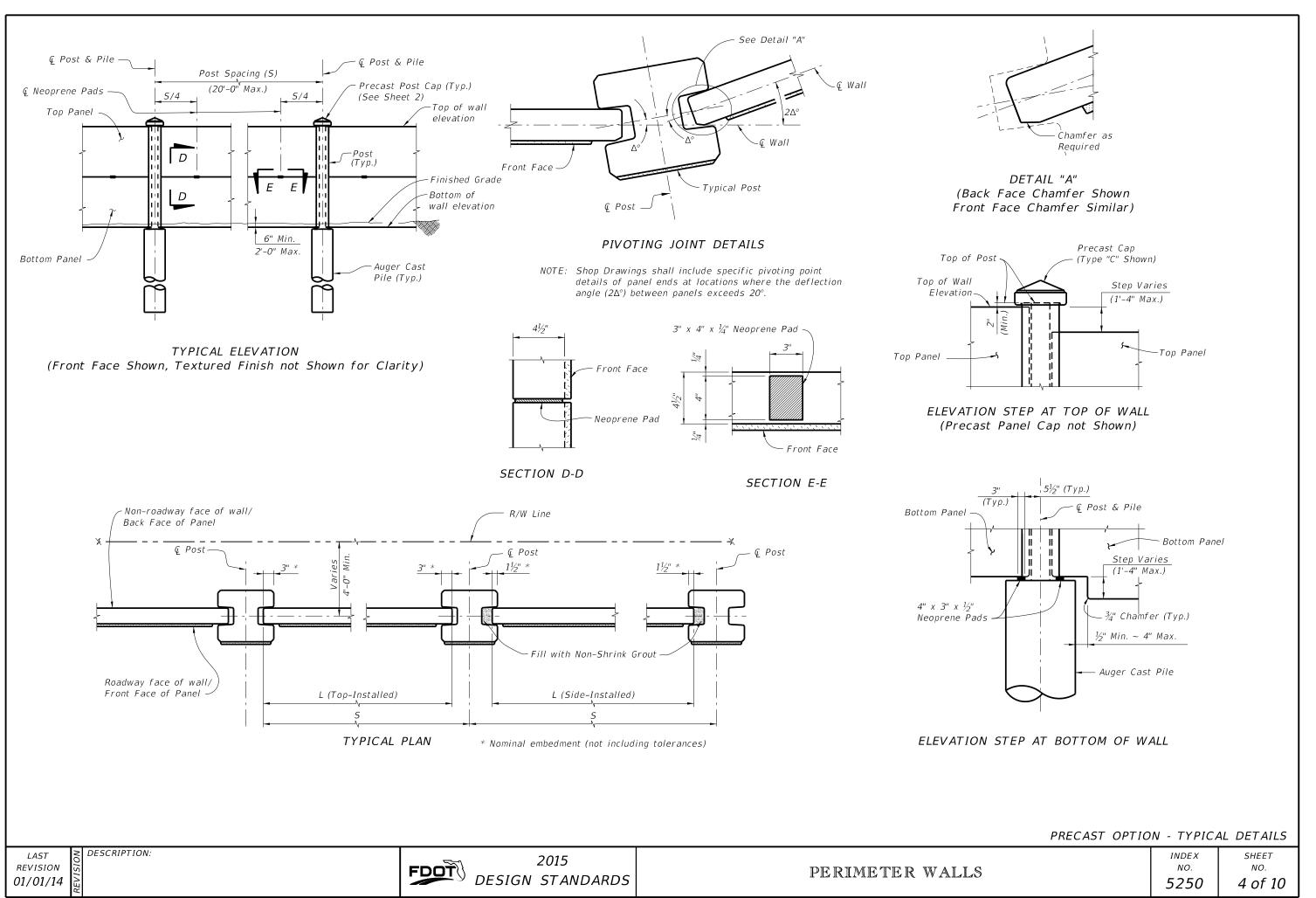
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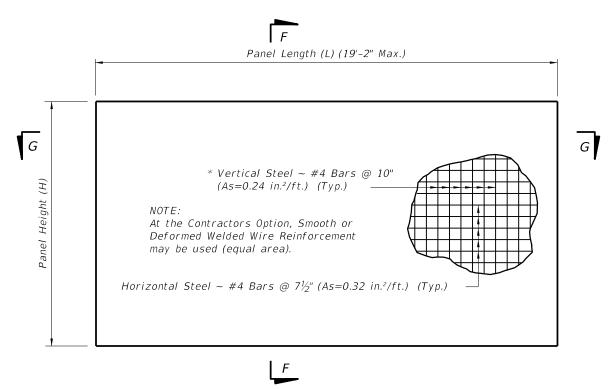
Grade to drain

Bottom of Wall/Panel

Drainage holes may be formed with 4" NPS PVC pipe that may remain in place.
See Wall Control drawings for number, Type and location/ spacing of drainage holes.

DRAINAG	E DETAILS
index NO. <b>5250</b>	<sup>SHEET</sup> NO. <b>3 of 10</b>

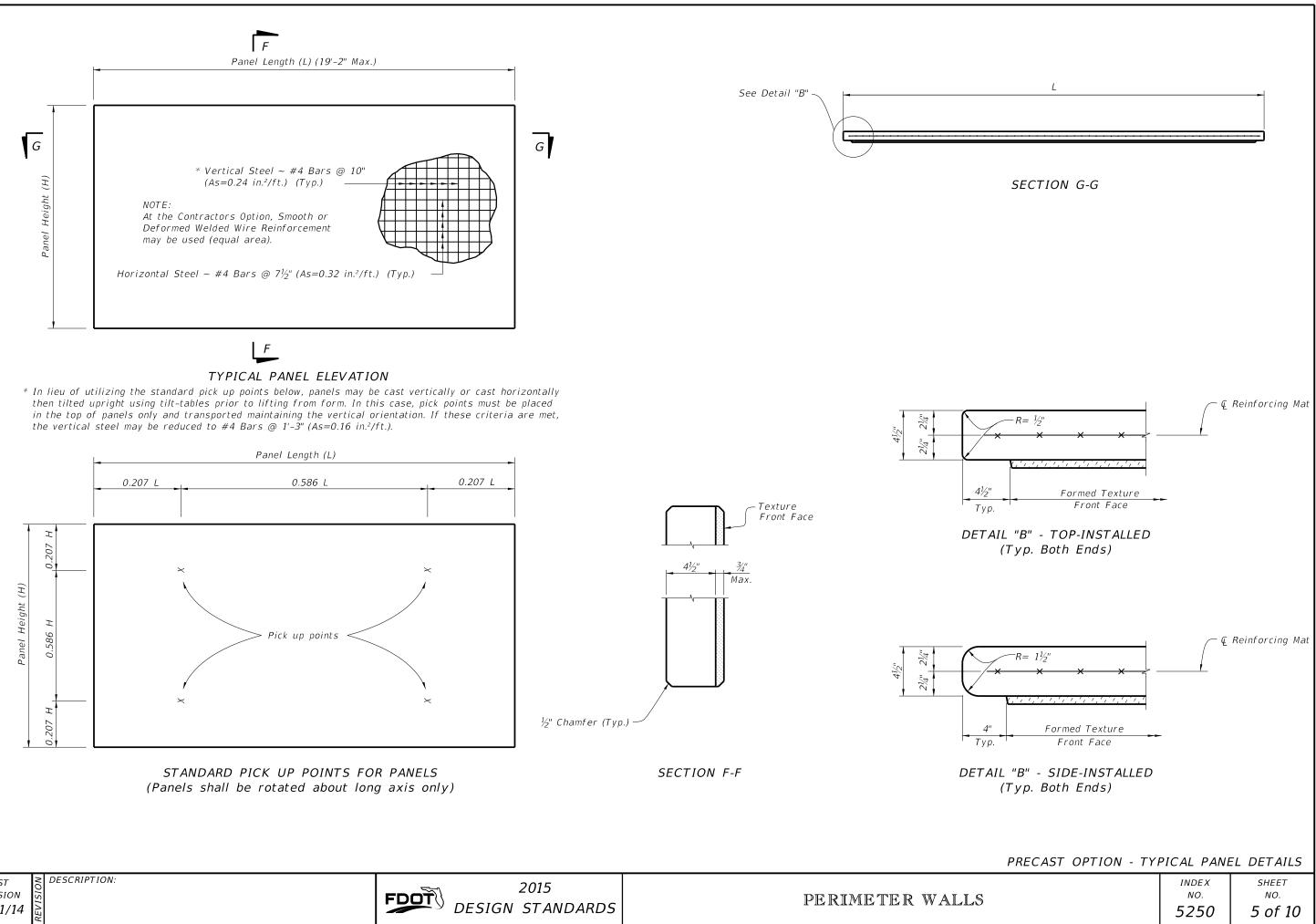




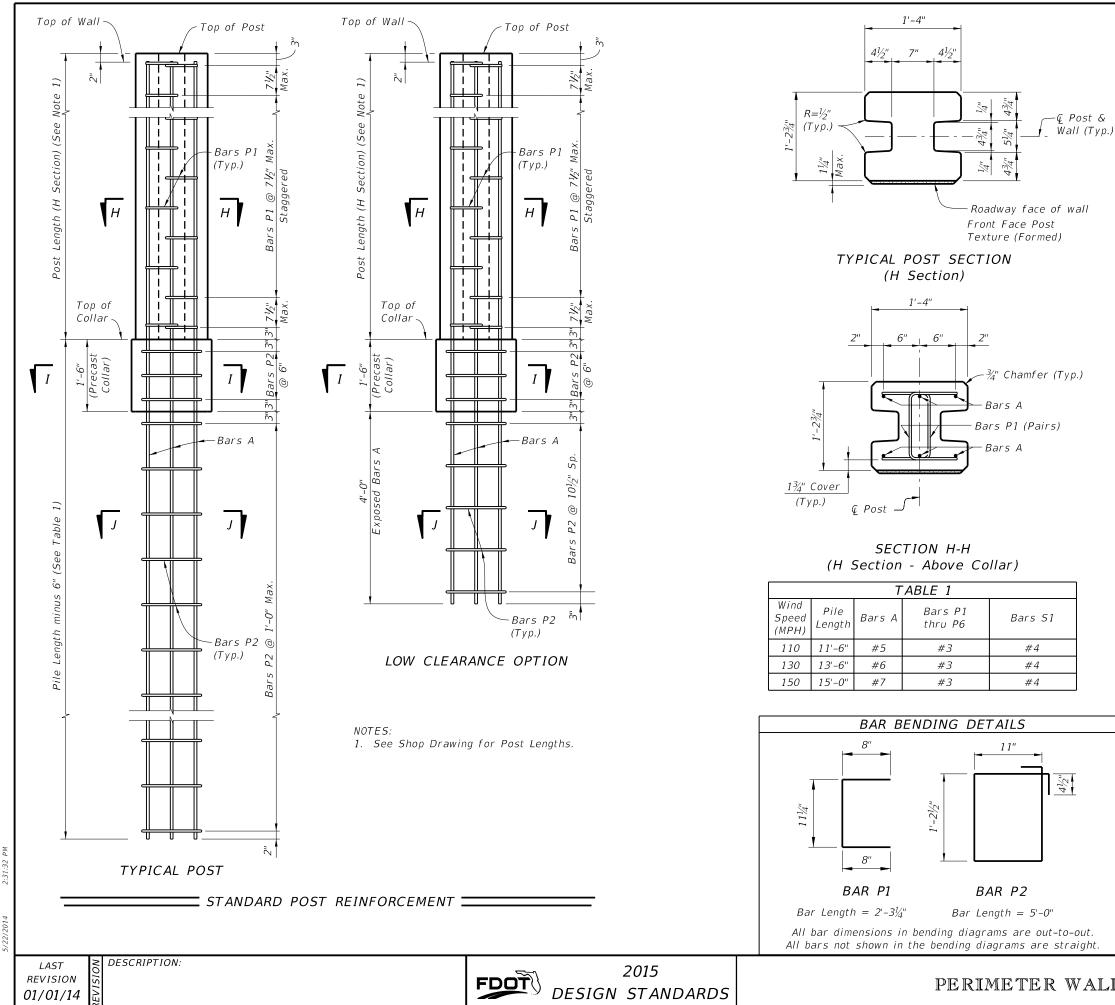
See Detail "B"



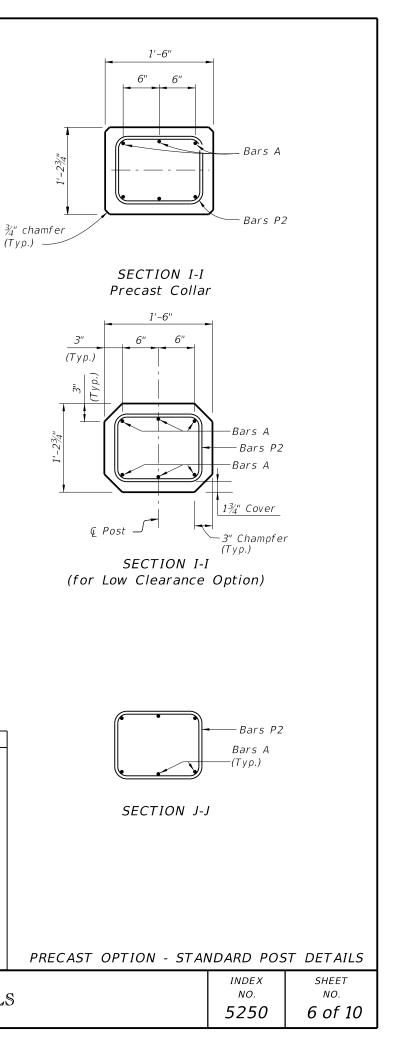
then tilted upright using tilt-tables prior to lifting from form. In this case, pick points must be placed the vertical steel may be reduced to #4 Bars @ 1'-3" (As=0.16 in.²/ft.).

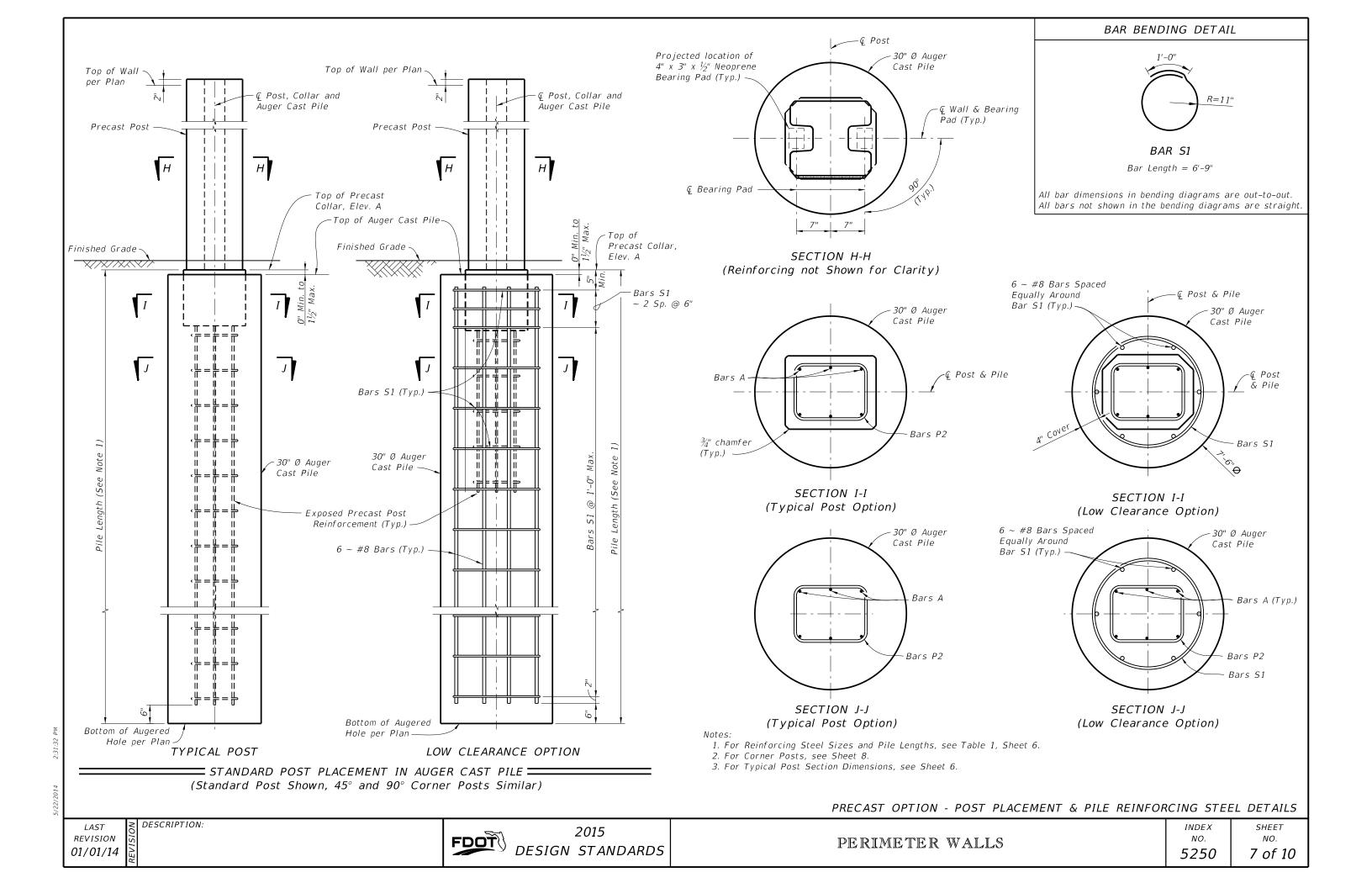


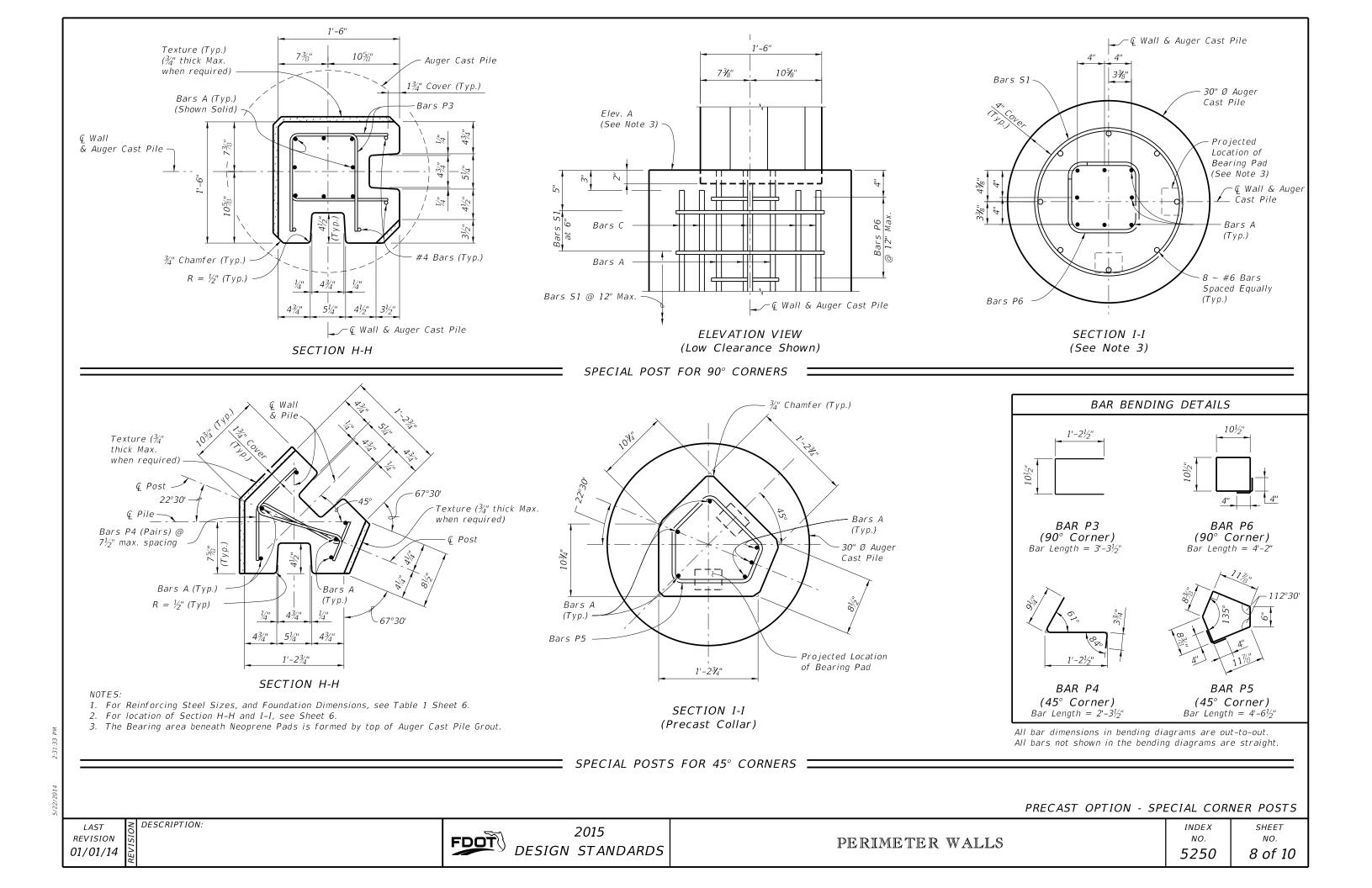
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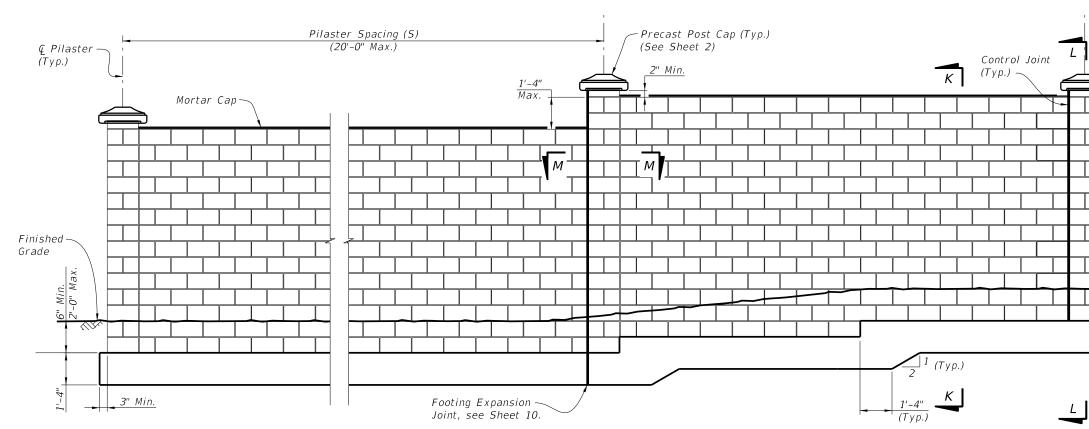


PERIMETER WALLS









TYPICAL ELEVATION (T-Footing Shown, Trench Footing Similar)

Table 2					
Wind Masonry Walls		Foundations			
Speed Category	Masonry	v wans	Bars		Trench Footing
	Bars V1	SV Spacing	F1 & F2	Width (W)	Depth (D)
110	#5	2'-8"	#5	4'-4''	5'-6"
130	#5	2'-0''	#5	5'-0"	6'-4"
150	#5	1'-4"	#5	6'-0''	7'-0"

Joint Stabilizing Anchor SECTION M-M PILASTER REINFORCING AND WALL CONTROL JOINT DETAIL

#### Notes:

- 1. End vertical reinforcing bars  $1\frac{1}{2}$ " from top of bond beam blocks and horizontal bars  $1\frac{1}{2}$ " from edge of control joints.
- 2. Do not continue horizontal #4 Bond beam reinforcing through control joint.
- 3. Use stainless steel joint stabilizing anchors spaced at 16" vertically at all control joints. Install per manufacturers instructions.
- 4. Seal Control Joints with backer rod and Type "A" silicone sealant (top and both sides).
- 5. See Sheet 10 for Bar placement details.
- 6. For Pilaster Cap Details, see Sheet 2.

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# PERIMETER WALLS

