

STRUCTURAL NOTES

1. General notes:

- A. All dimensions and conditions must be verified in the field. Any discrepancies shall be brought to the attention of the architect before proceeding with the affected part of the work.
- B. The structure is designed to be self-supporting and stable after the building is complete. It is the contractor's responsibility to determine erection procedures and sequence to insure safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting, temporary bracing, guys or tie-downs.

2. Design Loads:

- A. The Structural system for the building has been designed in accordance with the 2014 Florida Building Code U.N.O.
- The following loads were used:
 Roof Trusses:
 Live Load - 30 PSF
 Dead Load - 25 PSF (15 PSF top; 10 PSF bottom)
 Wind per ASCE 7-10
 3 second gust wind speed = 175 MPH
 Exposure C
 Risk category = II

3. Concrete:

- A. Shall be per an approved mix design proportioned to achieve a compressive strength of 3,000 PSI at 28 days with a plastic and workable mix.
- B. Fly ash may be used in concrete mix design, although it shall be limited to 15% maximum replacement of cement (by weight)

4. Masonry Walls:

- A. Masonry units shall meet ASTM C-90 for hollow load bearing type masonry with strength of 1,900 PSI on the net area (fm = 1500 PSI) mortar shall be type "M" or "S" and meet ASTM C-270. Grout shall be 3,000 PSI minimum compressive strength and meet C-476. Provide hooked dowels in footings for all vertical reinforcing above. Lap splices 48 bar diameters.
- B. Dowels shall be used to provide continuity into the structure above and or below, unless noted otherwise. Use metal lath, mortar, or special units to confine concrete and grout to area required.
- C. Provide 9 gage galvanized horizontal joint reinforcing (Dur-O-Wall or engineer approved substitute) at alternate block courses.
- D. Filling of masonry cells with concrete shall be prohibited only mix designs proportioned for grouting masonry shall be approved.
- E. Masonry walls, as depicted on these plans, have been designed in accordance with section 1222 of the Florida Building Code, and ACI 530; building code requirements for masonry structures and the specifications for masonry structures (ACI 530)
- F. All reinforced masonry (engineered unit masonry) shall be inspected per the requirements of the building code.

5. Formwork and shoring:

- A. No structural concrete shall be stripped until it has reached at least two-thirds of the 28 days design strength. Design, erection and removal of all formwork, shores and restroses shall meet the requirements set forth in ACI standards 347 and 301.

6. Reinforcing Steel:

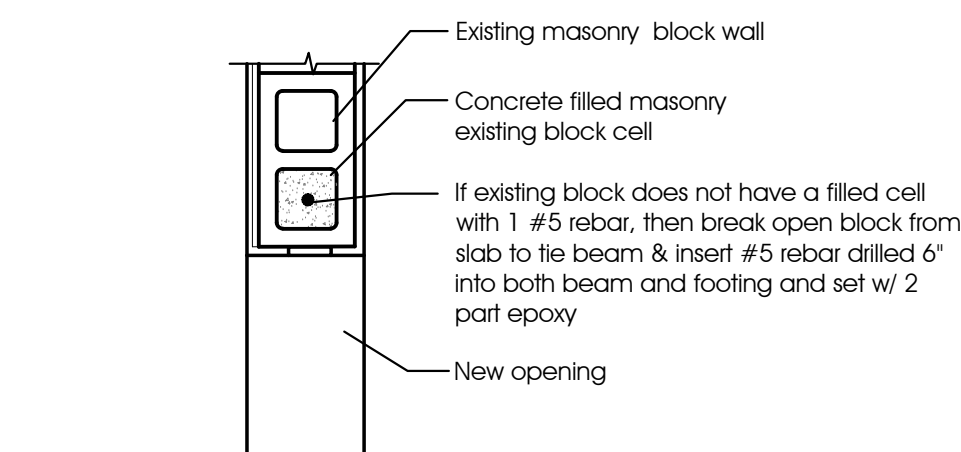
- A. Shall be ASTM A615 grade 60 deformed bars, free oil, scale and rust and placed in accordance with the typical bending diagram and placing details of ACI standards and specifications. If desired, approval of shop drawings prior to commencement of fabrication may be secured under a separate contract with A.O.R. All bars to be welded shall be those specifically manufactured for welding purposes; certified welders w/ certificates only shall weld these bars; inspector shall verify weldability and collect certificates.

7. Beams:

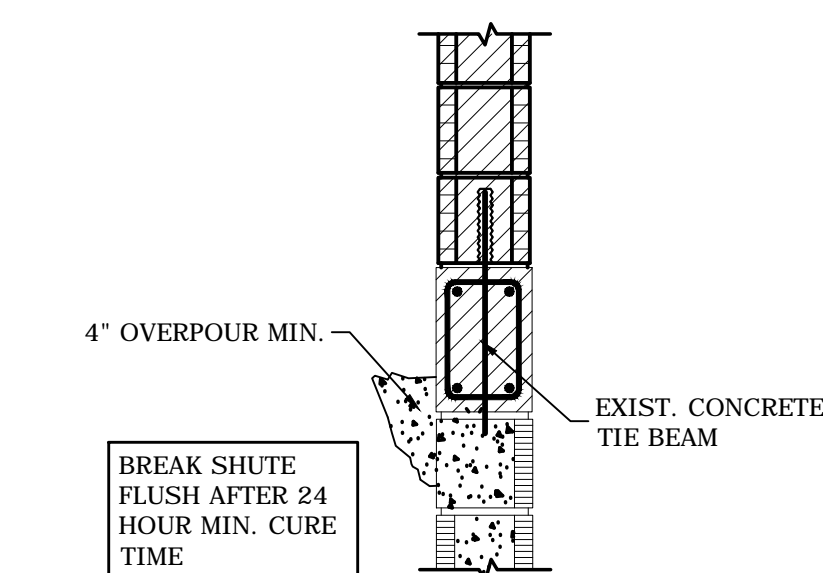
- A. Beams with the prefix "B" shall be of concrete poured after the block walls below are in place reinforcing shall be continuous through beams with minimum lap splices of 48 bar diameters and bent bars at corners. Use metal lath, mortar, or special units to confine concrete to area required, in accordance with ACI 530.1 section 4.3.3.3. Solid metal or felt cavity caps are prohibited.

8. Door Systems:

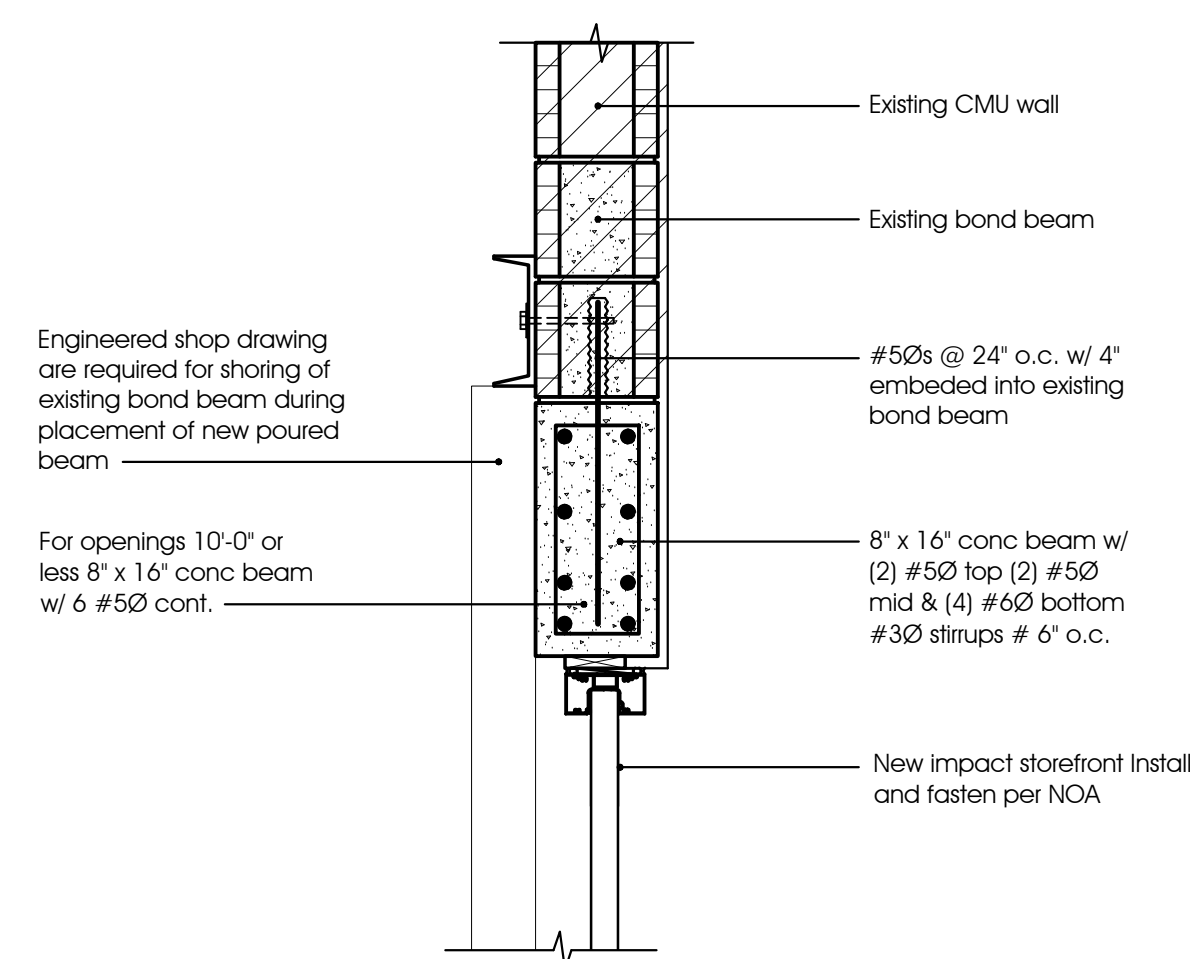
- A. All door system shall be designated as specialty engineered items and the design of these "systems" and their connections to the structure depicted on these plans shall be the responsibility of the supplier / specialty engineer. Submit product approval information (or signed and sealed calc's) for approval prior to fabrication.
- B. Unless indicated otherwise, the minimum buck sizes shall be 2' x 4' P.T. for windows and doors.
- C. All door systems shall be designed to safely resist the minimum wind pressures shown in these plans. Submit shop drawings and / or product approval verifying conformance.



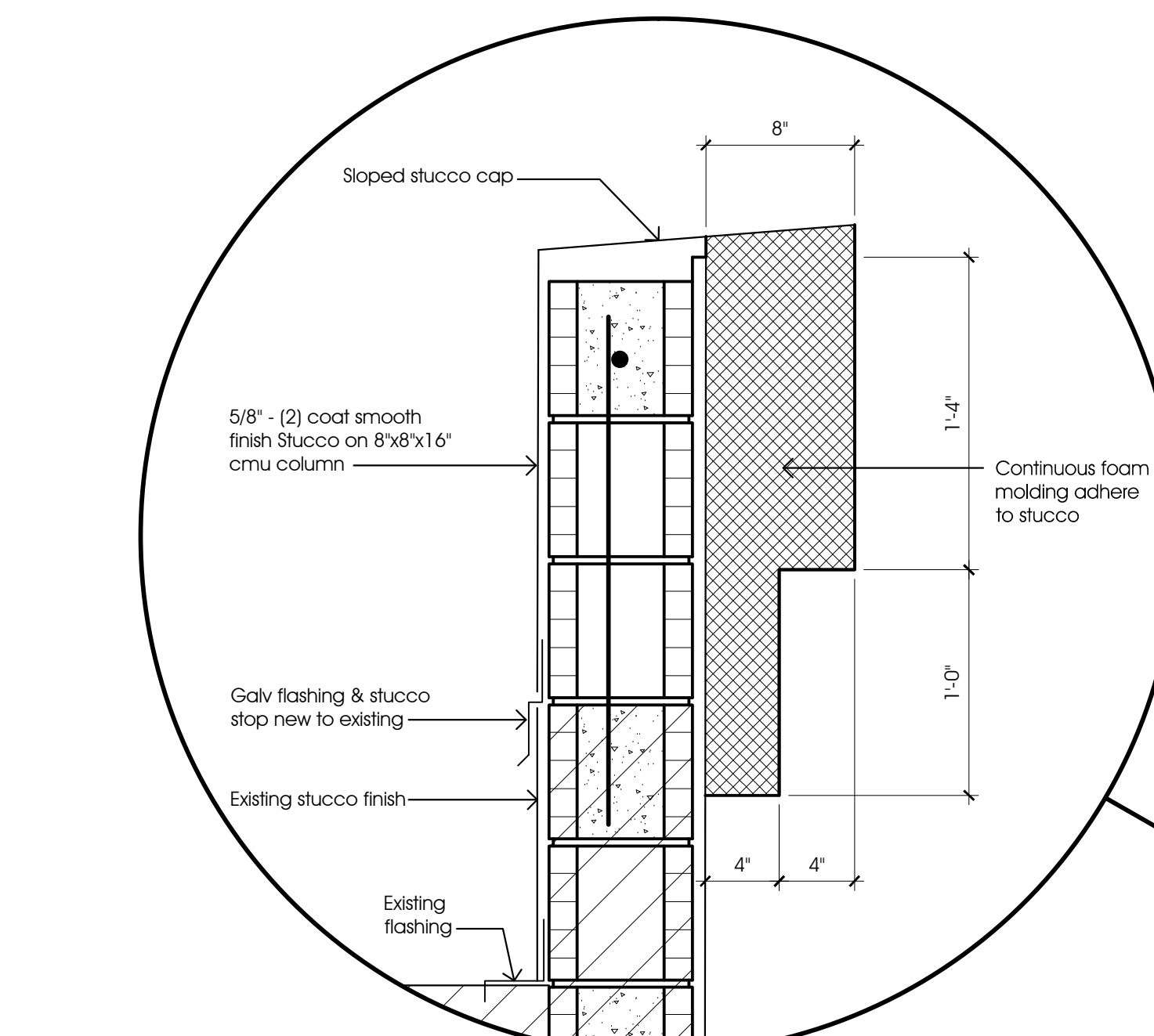
1
8
Detail @ New Openings
N.T.S.



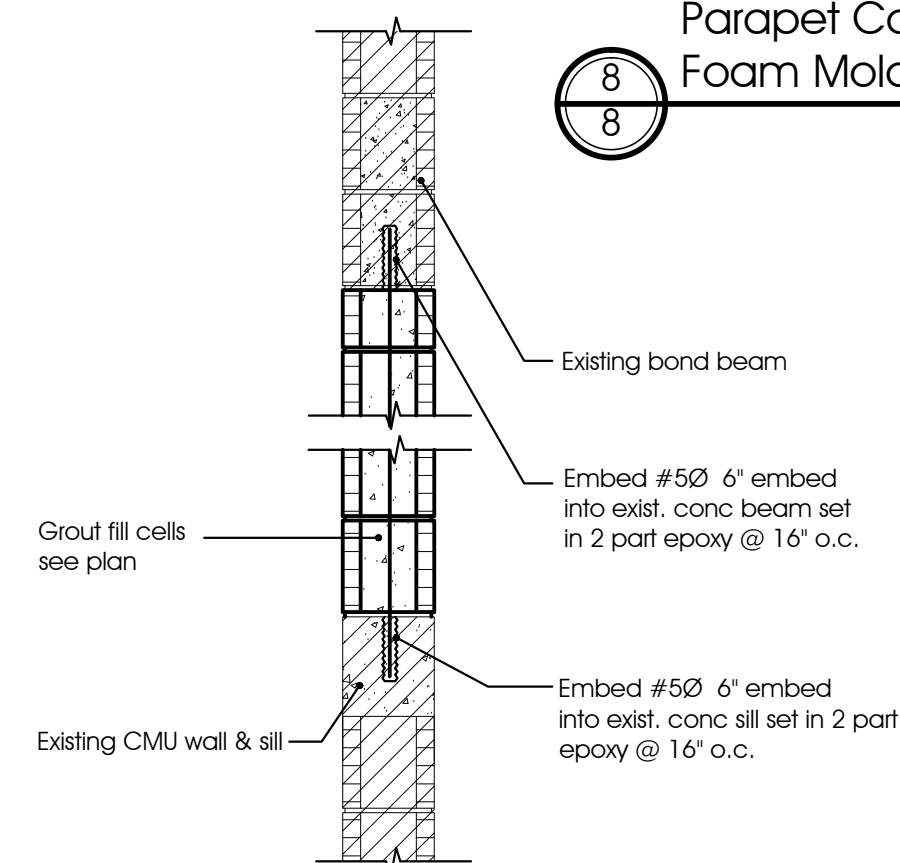
2
8
Shute Detail
3/4"SC



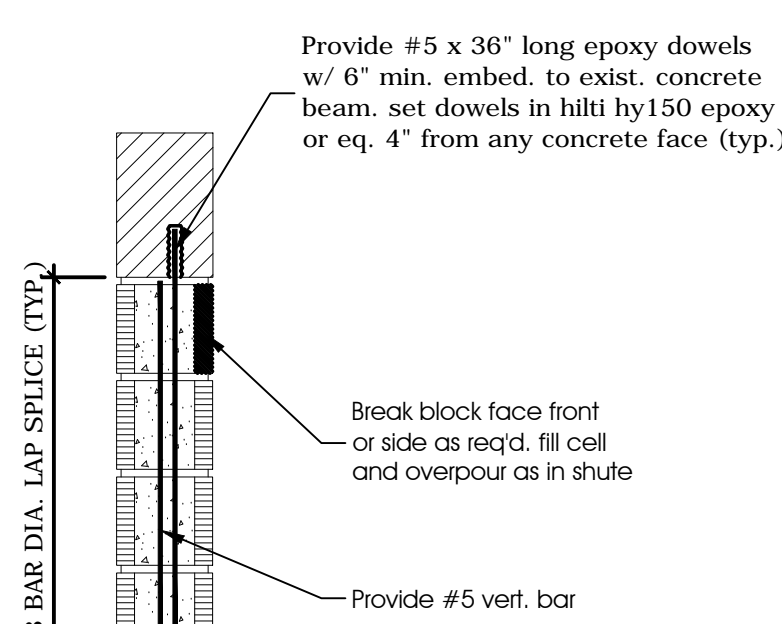
3
8
Poured Beam Detail
1"SC



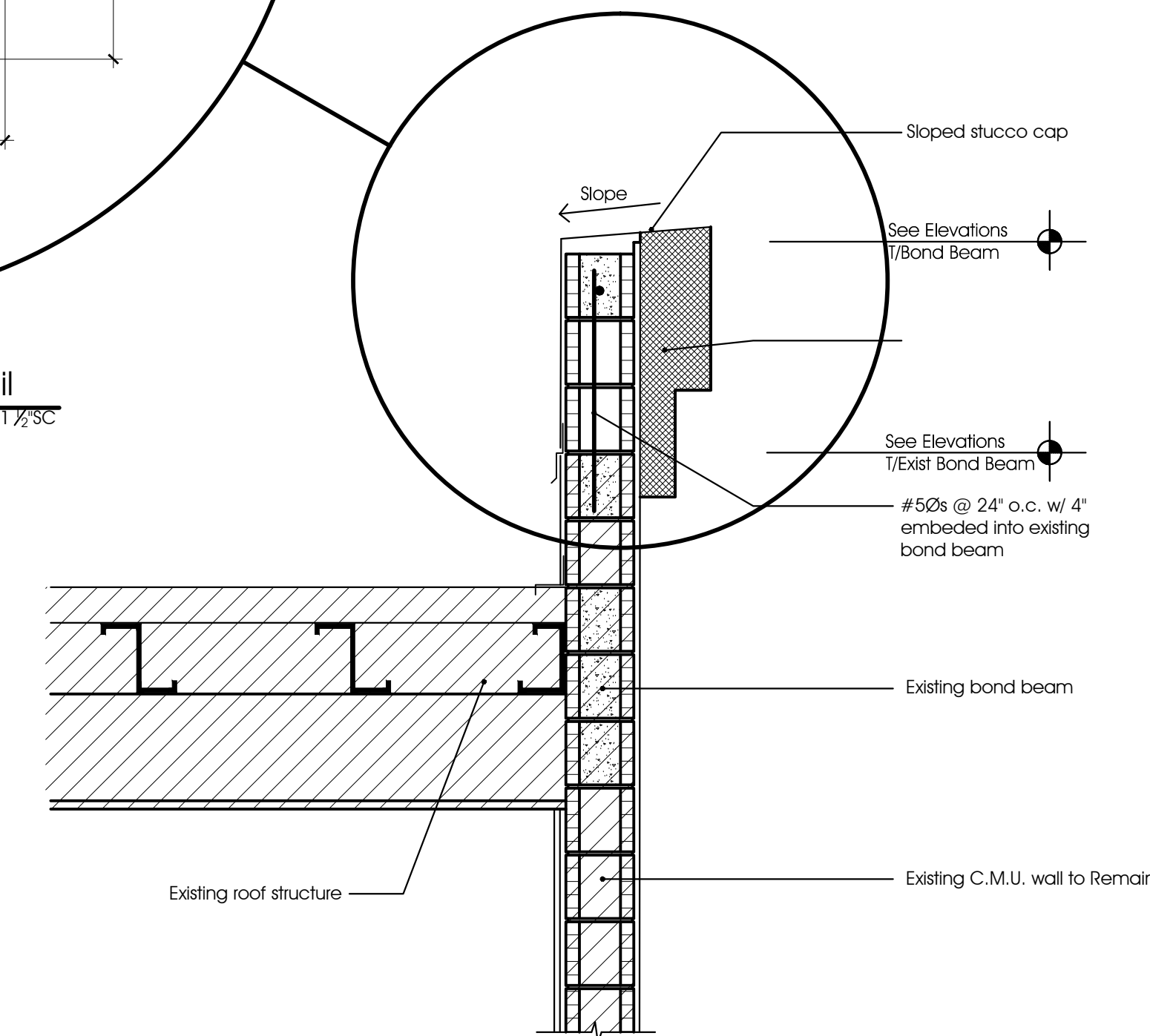
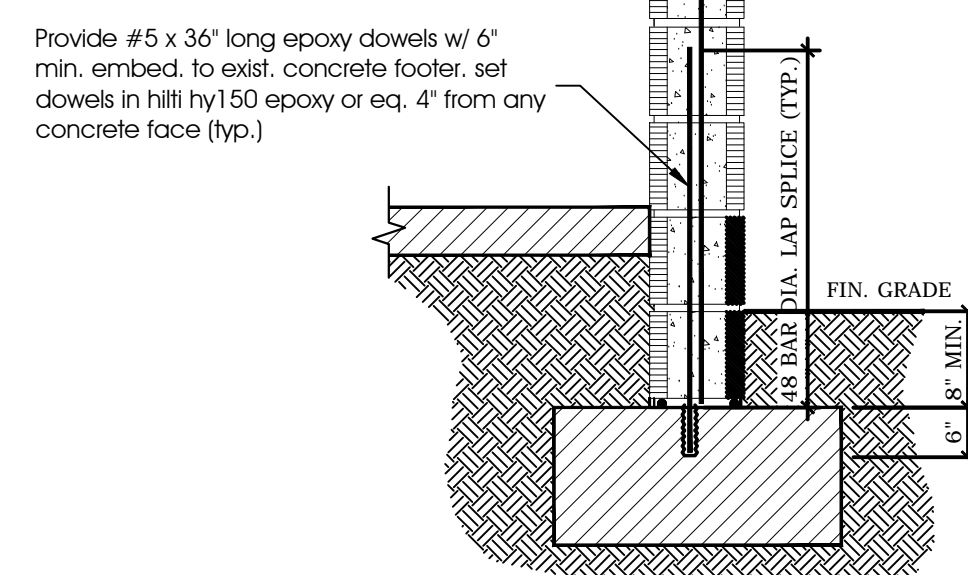
8
8
Parapet Cap Foam Molding Detail
1 1/2"SC



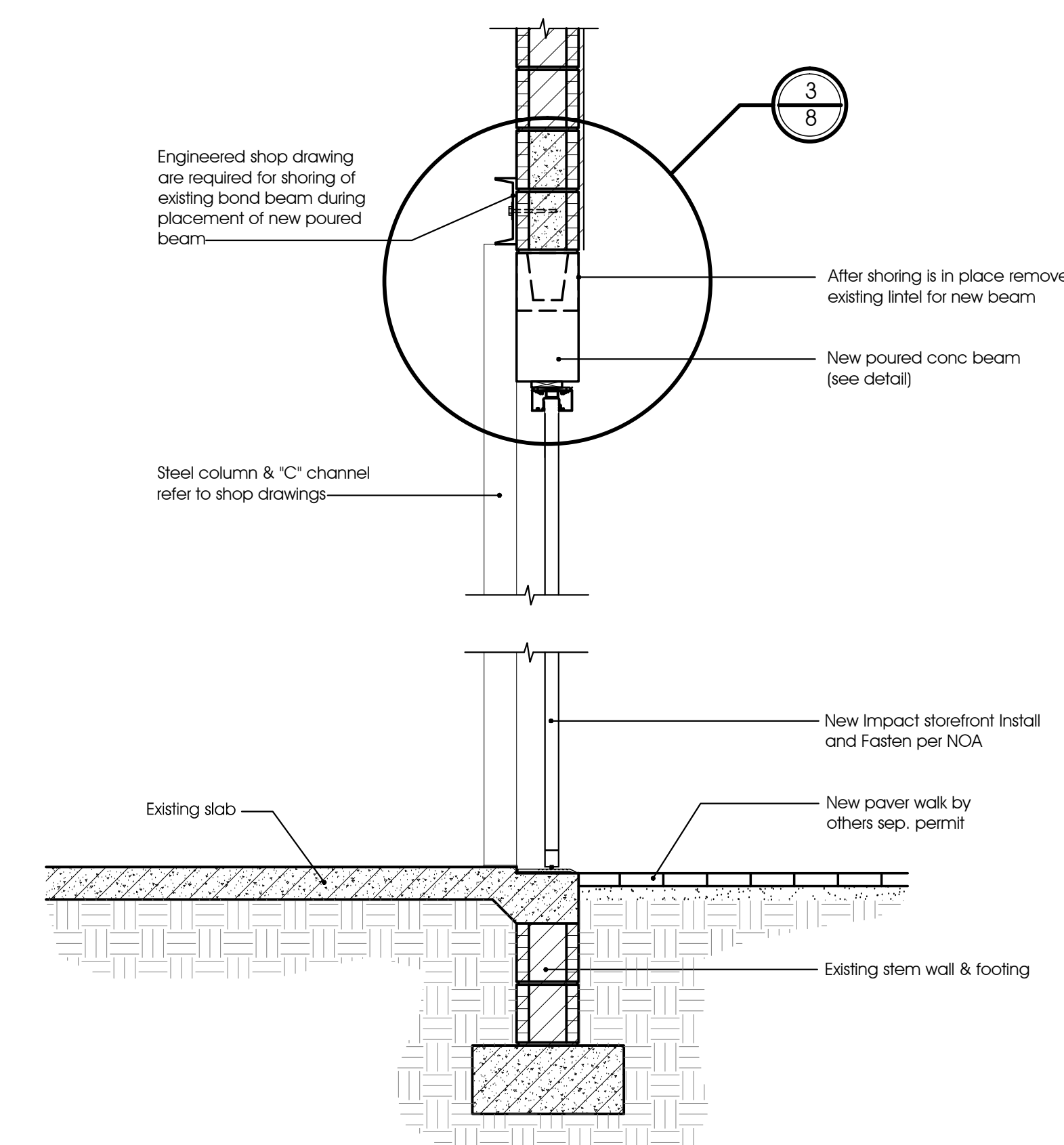
7
8
Infill Detail
3/4"SC



5
8
Filled Cell Retrofit Detail
3/4"SC



6
8
Typical Wall Section
3/4"SC



Facade Modification
Crescent Center
 12550 S. Military Trail
 Delray Beach, Florida

R.BA. PN. 10716.02

Issued
 ● 5-12-16: G.C. Bid Set
 ○ :Permit Set
 ○ :Review Plan Set

Sections & Details
 As Noted

PROGRESS SET/NFC 04/27/2016