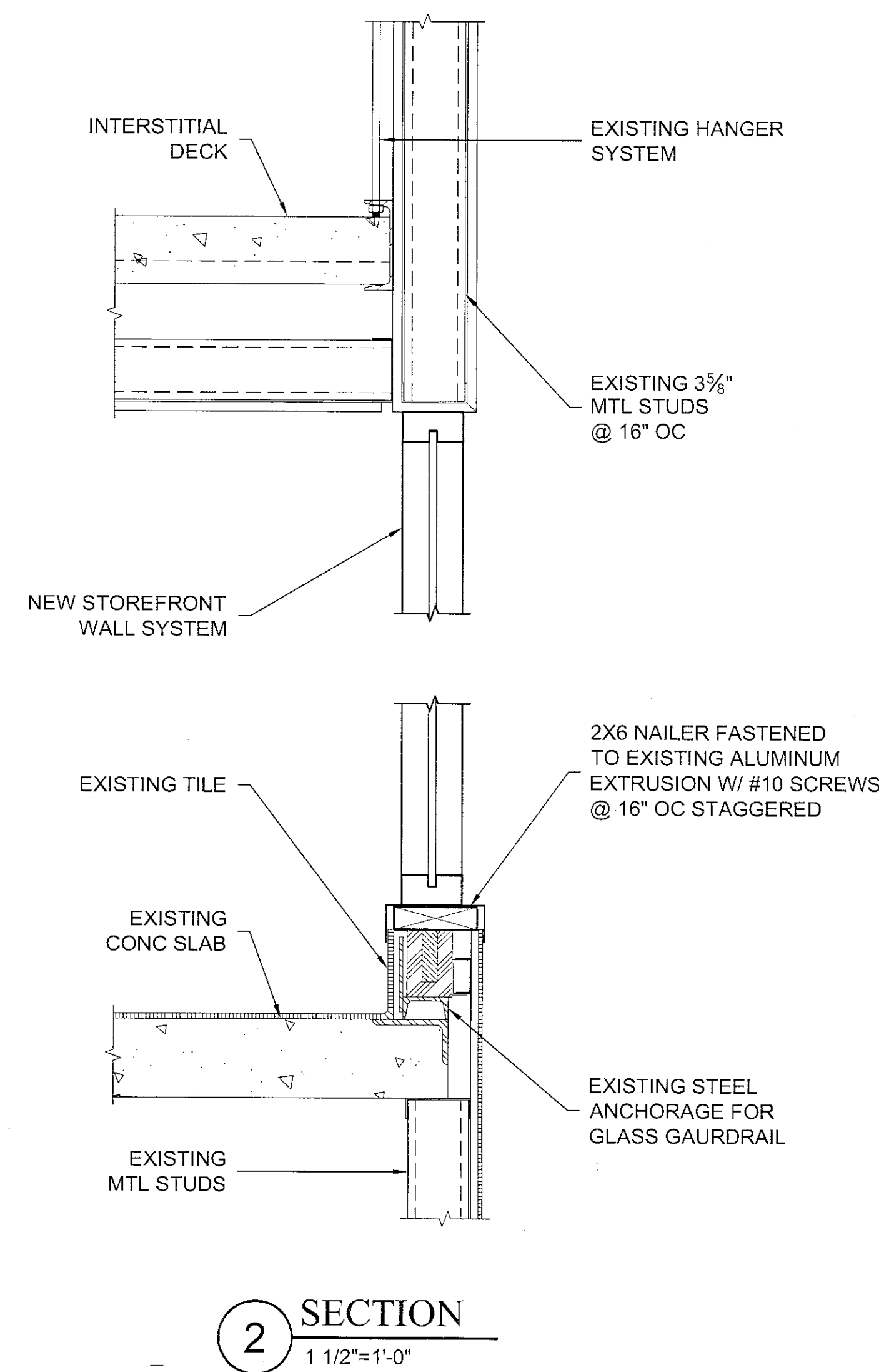
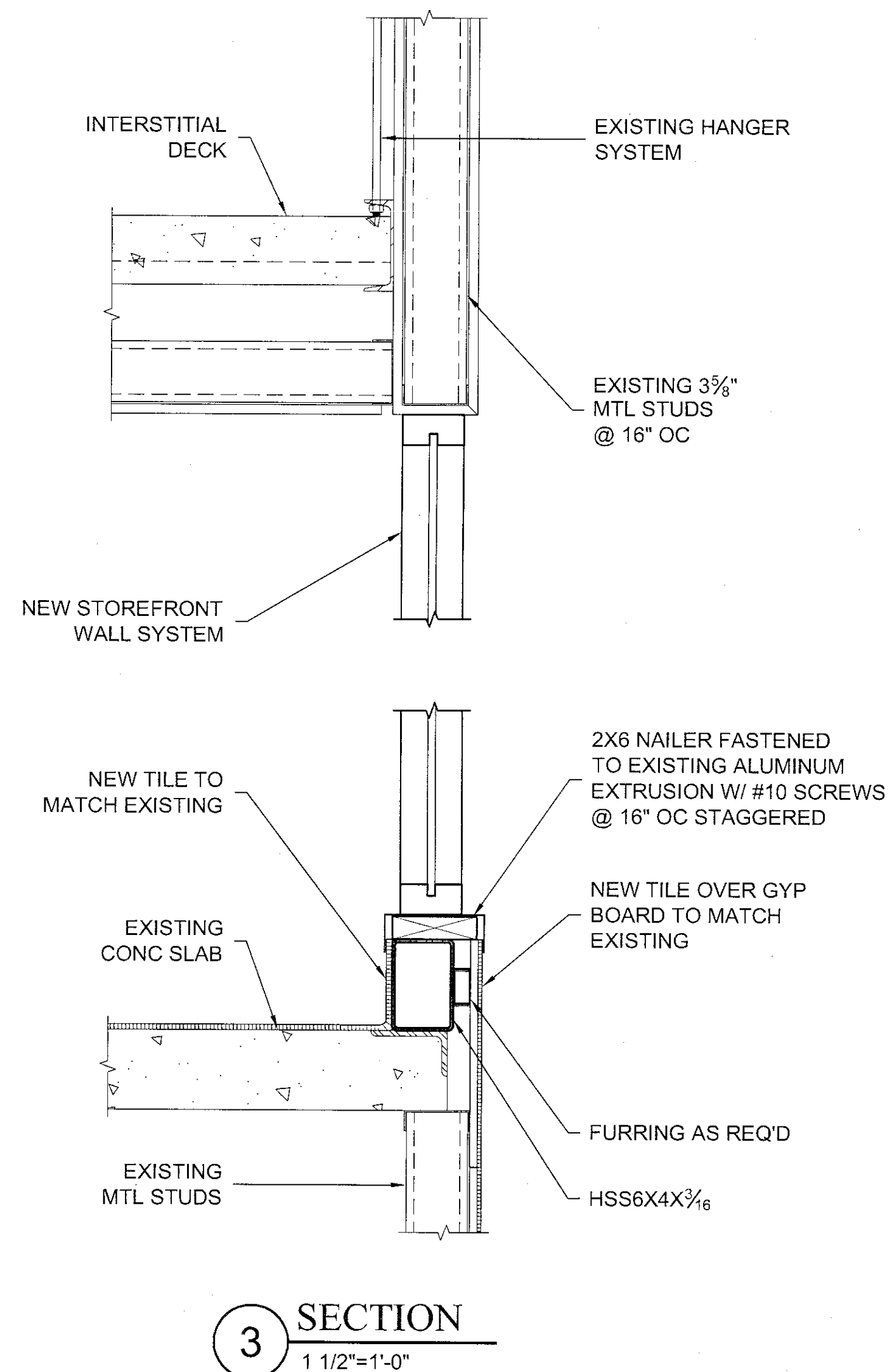


1 PLAN  
1/4"=1'-0"



2 SECTION  
1 1/2"=1'-0"



3 SECTION  
1 1/2"=1'-0"

### GENERAL NOTES

#### DESIGN CRITERIA

1. THE DESIGN OF THE STRUCTURE IS IN ACCORDANCE WITH IBC 2009.
2. INTERNAL WALL PRESSURE 5 PSF
3. SPECIAL LOADS:
  - A. HANDRAILS: 50 PLF OR 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT TOP PER 1607.7.
  - B. GUARDS: 50 PLF OR 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT TOP PER 1607.7.

#### MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OR ARCHITECT OF ANY CONDITIONS NOT AS SHOWN. CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED.
2. CONTRACTOR SHALL COORDINATE DETAILING, FABRICATION AND ERECTION WITH ALL RELATED TRADES PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL. ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER. NO SHOP DRAWINGS SHALL BE USED WHICH ARE MARKED "REVISE AND RESUBMIT", "REJECTED", "RETURNED FOR CORRECTION", OR WORDS TO THAT EFFECT.
3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCES SHALL BE REPORTED TO THE ARCHITECT.

#### EXISTING CONSTRUCTION

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AFFECTED AND PRIOR TO START OF WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.

#### STRUCTURAL STEEL

1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-05) AND AISC SPECIFICATION FOR THE DESIGN OF STEEL HOLLOW STRUCTURAL SECTIONS (AISC-HSS).
2. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
  - A. STRUCTURAL STEEL CHANNEL AND ANGLE SHAPES, BARS AND PLATES: A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI.
  - B. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS): A500, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 46 KSI.
3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D.1.1, STRUCTURAL WELDING CODE - STEEL. ALL WELDING ELECTRODES SHALL CONFORM TO THE E-70 SERIES OF THE AWS. REMOVE BACKING BARS AND RUNOFF TABS.
4. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR WITH WRITTEN APPROVAL OF ENGINEER.
5. BRACE STEEL FRAME DURING ERECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS AND SAFETY OF ERECTION OF THE STEEL FRAME.
6. FOR MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
7. REFER TO SPECIFICATIONS FOR FINISH REQUIREMENTS.

#### FIELD INSTALLED ANCHORS

1. FIELD INSTALLED EXPANSION ANCHORS OR UNDERCUT ANCHORS SHALL MEET THE REQUIREMENT OF ACI 318, APPENDIX D - ANCHORING TO CONCRETE. ANCHORS SHALL BE QUALIFIED FOR USE IN CRACKED CONCRETE IN ACCORDANCE WITH ACI 355.2.
2. ANCHORS SHALL BE INSTALLED PER CONTRACT DOCUMENTS AND PER MANUFACTURER'S RECOMMENDATIONS. WHERE THE PROVISIONS ARE IN CONFLICT, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.
3. DO NOT DRILL THROUGH EXISTING EMBEDDED REINFORCING STEEL. LOCATE EXISTING REINFORCING STEEL, CREATE TEMPLATES AND ADJUST LOCATIONS OF HOLES IN MEMBERS BEING ATTACHED TO CLEAR EXISTING EMBEDDED REINFORCING.
4. DO NOT INSTALL ANCHORS WITH LESS THAN MINIMUM BOLT SPACINGS OR LESSER EDGE DISTANCE THAN SHOWN ON DRAWINGS OR IN THE MANUFACTURER'S LITERATURE.
5. ALL ABANDONED HOLES DRILLED IN THE CONCRETE SHALL BE COMPLETELY FILLED WITH GROUT.
6. TYPICALLY HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 1/16" LARGER THAN THE ANCHOR ROD DIAMETER. IF LARGER DIAMETER HOLES ARE USED FOR ERECTION PURPOSES THE CONTRACTOR MUST PROVIDE PLATE WASHERS. PLATE WASHERS MUST BE WELDED TO THE CONNECTION PLATE TO TRANSFER THE LOAD.

#### CURTAIN WALL

1. THE CURTAIN WALL SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A REGISTERED P.E. THE CURTAIN WALL MANUFACTURER SHALL PROVIDE NON-CONDUCTING ISOLATION BARRIERS AT ANY CONNECTIONS BETWEEN ALUMINUM OR NON-FERROUS MEMBERS AND STEEL ELEMENTS TO PREVENT GALVANIC CORROSION. CURTAIN WALL SUPPLIER SHALL COORDINATE THE ANCHORAGE DEVICES REQUIRED WITH STRUCTURAL STEEL AND CONCRETE CONTRACTORS.

#### SUBMITTALS

##### SUBMIT THE FOLLOWING:

1. STRUCTURAL STEEL
  - A. SHOP DRAWINGS SHOWING FABRICATION AND ERECTION DETAILS OF STRUCTURAL STEEL FRAMING, EMBEDDED ITEMS IN OTHER WORK AND CONNECTION DETAILS.
  - B. WELDING CERTIFICATES.
  - C. MILL TEST REPORTS FOR STRUCTURAL STEEL MEMBERS, BOLTS, NUTS, WASHERS, SHEAR STUD CONNECTORS.
  - D. PRODUCT DATA FOR SHOP PRIMERS.
2. FIELD INSTALLED ANCHORS
  - A. SUBMIT ICC-ES EVALUATION REPORTS FOR FIELD INSTALLED ANCHORS.

100% SUBMISSION

<b>ENGINEER:</b> <b>EBL ENGINEERS, LLC</b> MECHANICAL & ELECTRICAL: 8005 HARFORD ROAD BALTIMORE, MARYLAND 21234 (410) 668-8000		<b>ARCHITECT:</b> <b>BECK, POWELL &amp; PARSONS</b> Architecture - Planning - Interior Design 29 W. Susquehanna Ave., Suite 300 Towson, Maryland 21204 Phone: 410-828-9220		<b>Project Title</b> STRUCTURAL FRAMING PLANS DETAILS & NOTES  <b>Approved: Project Director</b>		<b>Project Title</b> - ATRIUM RAIL - -  <b>Location</b> - BALTIMORE, MD  <b>Date</b> - 6/18/12 <b>Checked</b> SS <b>Drawn</b> CEI		<b>Project Number</b> - 512-11-140  <b>Building Number</b> -  <b>Drawing Number</b> S-101 Dwg. 5 of - 6		<b>Office of Construction and Facilities Management</b>	
Revisions:											