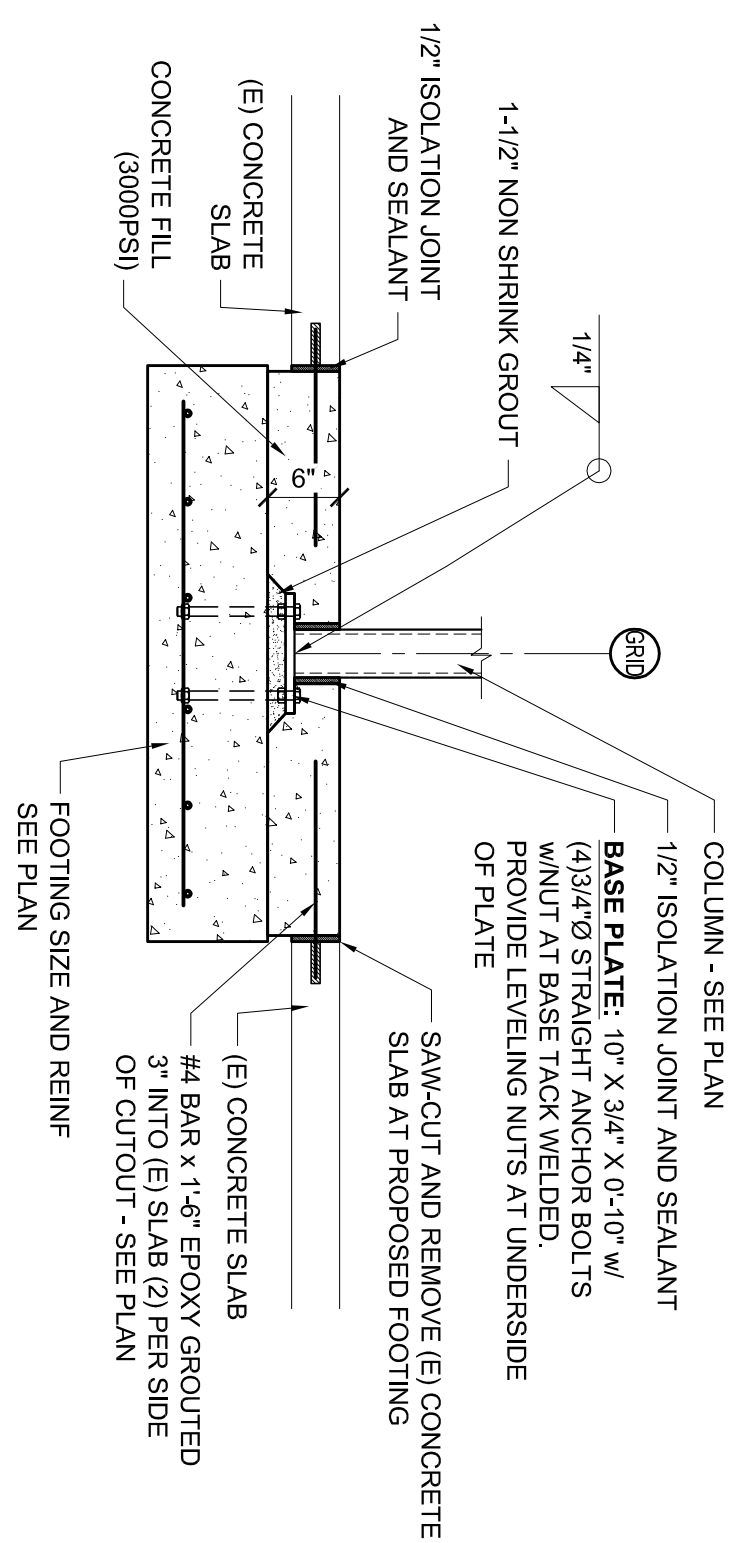


F1 BASE PLATE DETAIL



E1 DETAIL

1. SCOPE OF WORK IS TO INSTALL BEAM AND COLUMN SUPPORT SYSTEM FROM EXISTING ROOF PLANKING DOWN TO BASEMENT FLOOR SYSTEM WHERE FOOTINGS WILL BE PLACED TO SUPPORT THE PROPOSED COLUMNS. THE PURPOSE IS TO REDUCE THE SPAN OF THE CENTER BAY OF ROOF PLANKS ALLOWING INCREASED CAPACITY IN THE ROOF SYSTEM TO SUPPORT CURRENT SNOW LOADING REQUIREMENTS.
2. PROPOSED BEAM PLACEMENT AGAINST THE ROOF PLANKS AND COLUMN PLACEMENT THROUGH THE FLOOR SYSTEM WILL BE OBSTRUCTED BY MANY EXISTING UTILITIES INCLUDING ELECTRICAL CONDUIT, UNIT VENT DUCTS, WATER PIPING, ETC... THE CONTRACTOR SHALL PLAN ON SHIFTING, ADJUSTING, REPLACING OR REINSTALLING THESE ITEMS AS NEEDED TO INSTALL THE PROPOSED BEAMS AND COLUMNS.
3. BASEMENT FLOOR TO FIRST FLOOR HEIGHT = 9'-0" +/-, FIRST FLOOR TO BOTTOM OF ROOF PLANK HEIGHT = 9'-5" +/-, FIELD VERIFY THESE DIMENSIONS PRIOR TO STEEL FABRICATION.
4. WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST EDITION OF IBC-2009.
5. THE CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITHOUT EXCEPTION.
6. WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE STATE AGENCIES AND/OR UTILITY COMPANIES WHOSE JURISDICTION OVERS THIS PROJECT.
7. UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES OR AS INDICATED BY THE SPECIFICATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION, SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, BRACING, AND PROTECTION OF EXISTING STRUCTURE AND UTILITIES. THE CONTRACTOR SHALL PROVIDE MATERIAL PROTECTION OF ADJACENT PROPERTY, HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.

F3 GENERAL NOTES

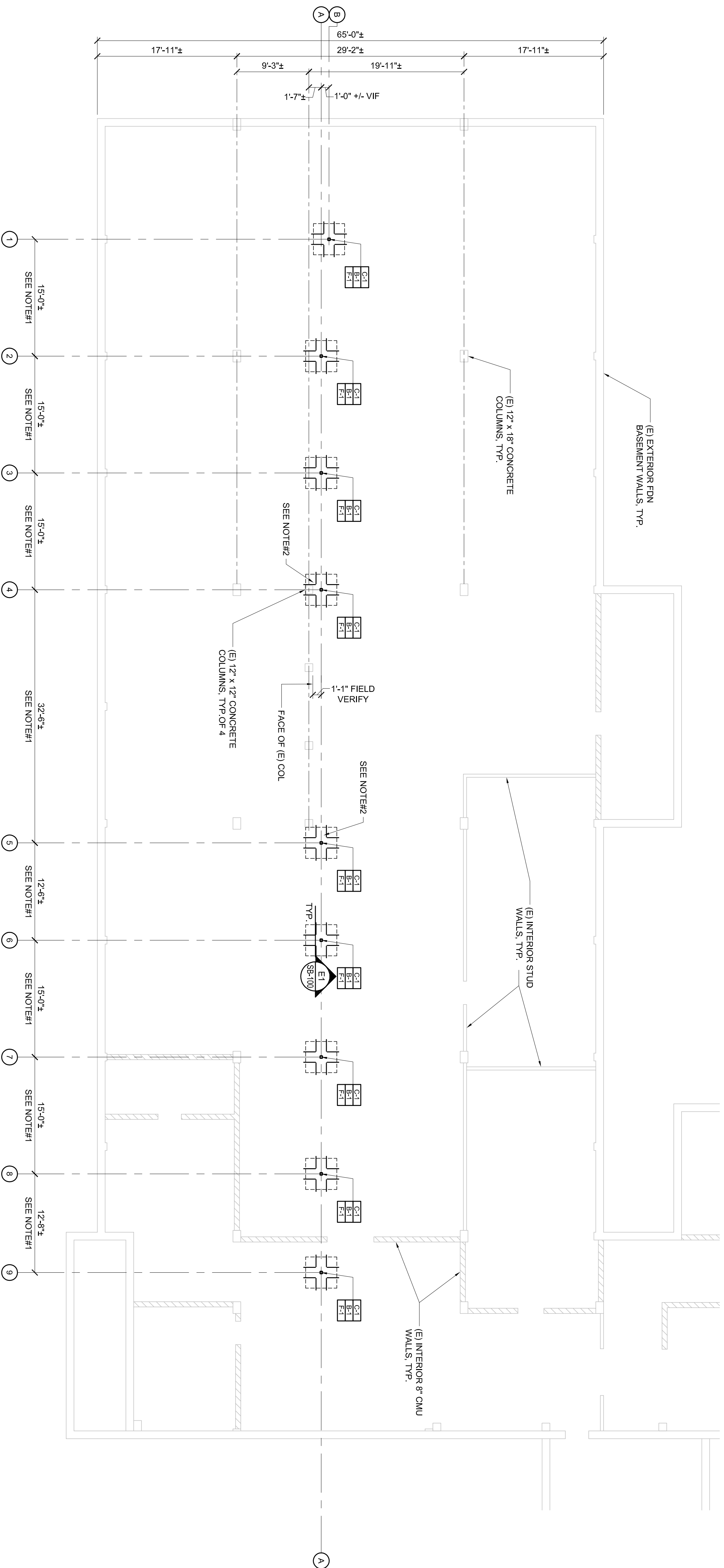
| COLUMN SCHEDULE | | |
|------------------|---------------|-----------------|
| TYPE | SIZE | |
| C-1 | HSS 4X4X3/8 | |
| FOOTING SCHEDULE | | |
| TYPE | SIZE | REINFORCING |
| F-1 | 4'-0" X 4'-0" | 6#4 E.W. BOTTOM |

E3 SCHEDULES

E7 STRUCTURAL NOTES

1. MINIMUM LOADING REQUIREMENTS:
 A. ROOF LOADS: (EXCEPT AT DRIFTING SNOW LOCATIONS)
 GROUND SNOW LOAD: 70.0 PSF
 DESIGN SNOW LOAD: 45.0 PSF
 ROOF DEAD LOAD: 68.0 PSF
2. STRUCTURAL STEEL SHALL BE DESIGNED USING THE 13TH ADDITION OF THE AISC STEEL CONSTRUCTION MANUAL. STEEL BEAMS SHALL CONFORM TO ASTM A992, FY = 50ksi, MISCELLANEOUS PLATES, SHAPES, CHANNELS, ANGLES ETC. SHALL CONFORM TO ASTM A36, FY = 36ksi.
3. BASE PLATE ANCHOR BOLTS SHALL BE:
 A. ANCHOR RODS: 3/4" Ø ASTM F1554, UNO
 B. NUTS: ASTM A563, GRADE A
 C. WASHERS: ASTM F944
4. CONCRETE SHALL BE 3000 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 4-INCHES. CONCRETE SHALL BE NEATLY FINISH-SUBBED AND SEALED TO MATCH SURROUNDING FLOOR SURFACE.
5. FOOTINGS SHALL BEAR ON VIRGIN SOIL OR STRUCTURAL BACKFILL COMPACTED TO A UNIFORM 95-PERCENT STANDARD DENSITY.
6. STRUCTURAL STEEL BELOW FINISH FLOOR SHALL RECEIVE (2) COATS OF BITUMINOUS MASTIC.
7. REFER TO A01 318 (LATEST EDITION) FOR MINIMUM CONCRETE COVER FOR REINFORCING STEEL.
8. DRILLED-IN ANCHOR BOLTS OR REBAR DOWELS SHALL BE INSTALLED AS FOLLOWS:
 • LOCATE ANCHOR BOLTS OR DOWELS TO AVOID CUTTING EXISTING REBAR OR STRANDS IN ROOF PLANKING.
 • DEPTH IS BASED ON A CLEAN HOLE WITH ROUGH SIDES. ROTARY PERCUSSION EQUIPMENT AND COURSE ROCK CUTTING CHISELS ARE RECOMMENDED. HOLE SIZE TO BE PER MANUFACTURERS RECOMMENDATIONS.
 • CLEAN HOLES WITH COMPRESSED AIR OR VACUUM, REMOVE ANY FREE-STANDING WATER AND ALLOW HOLE TO DRY.
 • ANCHOR BOLTS OR DOWELS WITH HIT HIT HY-150 ADHESIVE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. (HIT HIT HYV ADHESIVE CAPSULE MAY BE SUBSTITUTED FOR THE HIT HIT HY-150 ADHESIVE).

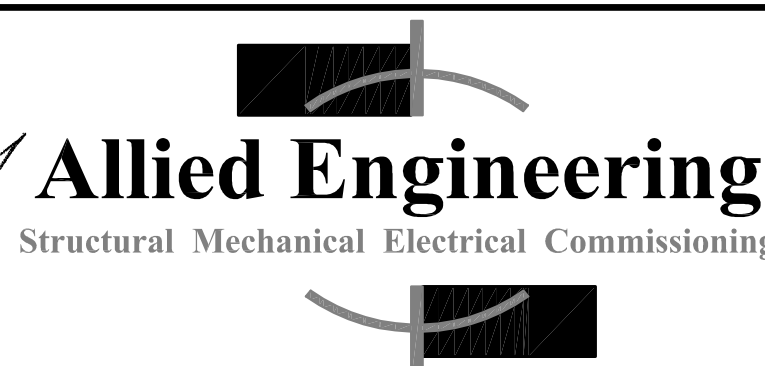
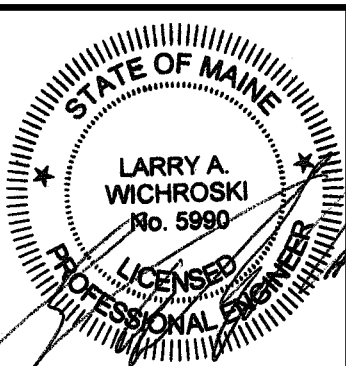
- FOUNDATION PLAN NOTES:
- LOCATE PROPOSED COLUMNS TO ALIGN WITH MIDPOINT BETWEEN WEBS OF (E) FIRST FLOOR DOUBLE TEES AND BESIDE UPPER LEVEL CORRIDOR WALLS. FIELD VERIFY AND ADJUST AS REQUIRED.
 - BEAR BASE PLATE ON EXISTING (E) FOOTING AND ANCHOR WITH (4) 3/4" Ø X 10" EXPANSION BOLTS (8" EMBEDMENT) WHEN POSSIBLE.



A1 STRUCTURAL PLAN - FOUNDATION

| | |
|----------------|-------------|
| Date: | 10-28-2010 |
| Drawn By: | PED |
| Checked By: | LAW |
| Project Mgr: | WPF |
| Project No: | 10088 |
| Cad File: | 10088_S.dwg |
| Graphic Scale: | 0 1" |

| REVISIONS | | | | |
|-----------|------|----|-------------|--|
| NUMBER | DATE | BY | DESCRIPTION | |
| | | | | |
| | | | | |



160 Veranda Street
 Portland, Maine 04103
 T: 207.221.2260
 F: 207.221.2266
 Web: www.allied-eng.com

SB-100

STRUCTURAL -
 FOUNDATION PLAN

BAYVIEW APARTMENTS
 STRUCTURAL UPGRADE

PORTLAND, MAINE