STRUCTURAL NOTES

FOUNDATION NOTES:

1. ALL SOIL CONTAINING ORGANIC OR UNSUITABLE BEARING MATERIAL SHALL BE CLEARED FROM THE BUILDING FOOTPRINT.
2. ALL SOIL SUPPORTED FOOTINGS AND SLABS SHALL BE FOUNDED UPON COMPACTED NATURAL SUBGRADE OR COMPACTED BANK RUN GRAVEL FILL WITH A SAFE BEARING CAPACITY OF NOT LESS THAN 4000 PSF. COORDINATE SITE SPECIFIC SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.
3. ROCK SHALL BE EXCAVATED A MINIMUM OF 12" BELOW BOTTOM OF FOOTING ELEVATION AND COVERED WITH A LAYER OF COMPACTED GRAVEL.
4. A MODIFIED PROCTOR TEST SHALL BE PERFORMED BY A SOILS TESTING LAB ON EACH TYPE OF SOIL TO BE COMPACTED.
5. SOIL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 IN LIFTS NOT TO EXCEED 6" LOOSE DEPTH.
6. FIELD DENSITY TESTS SHALL BE PERFORMED BY AN INDEPENDENT SOILS TESTING LAB TO VERIFY COMPACTION. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
7. BACKFILL SYMMETRICALLY AGAINST ALL FOUNDATION WALLS IN INCREMENTS NOT TO EXCEED 2 FEET MAXIMUM DIFFERENTIAL.
8. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDER FLOOR SYSTEMS AND SPECIAL GRANULAR FILL MATERIAL REQUIREMENTS.
9. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER.
10. ALL SLABS-ON-GRADE SHALL BE PLACED ON A 6 MIL. VAPOR BARRIER OVER MIN. 6" COMPACTED STRUCTURAL FILL LAYER, COORDINATE ADD'L SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.

CONCRETE NOTES:

1. ALL CONCRETE WALLS AND CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR ENTRAINING ADMIXTURE AND SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI. AIR CONTENT SHALL BE 4 1/2% TO 7%.
2. ALL OTHER CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI AT 28 DAYS AND CONTAIN NO AIR ENTRAINMENT.
3. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE.
4. A SET OF FOUR (4) CONCRETE TESTS CYLINDERS SHALL BE TAKEN BY AN INDEPENDENT CONCRETE TESTING LAB ON EACH DAY WHEN CONCRETE PLACEMENT EXCEEDS 5 CUBIC YARDS. ONE CYLINDER SHALL BE BROKEN AT 7 DAYS, TWO AT 28 DAYS, AND ONE AT 56 DAYS. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
5. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
6. A MIX DESIGN (5 COPIES) SHALL BE SUBMITTED FOR APPROVAL FOR EACH TYPE OF CONCRETE.
7. ALL REINFORCING BARS SHALL BE ASTM A-615 GRADE 60 UNLESS NOTED OTHERWISE.
8. SHOP DRAWINGS (5 SETS) SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION.
9. ALL REINFORCING BAR SPLICES SHALL CONFORM TO REQUIREMENTS OF ACI 318, BUT IN NO CASE SHALL THEY BE LESS THAN 2'-0"
10. DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING.
11. CONSTRUCTION JOINTS IN ALL WALLS SHALL BE NOT FURTHER APART THAN 60 FEET IN ANY DIRECTION. SEE PLAN FOR LOCATION OF SLAB CONSTRUCTION AND/OR SHRINKAGE JOINTS.
12. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, Fy=60 KSI
13. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AT SIDES AND ENDS AND BE SECURELY WIRED TOGETHER.
14. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CUT OUTS.
15. COORDINATE ALL FOUNDATION PENETRATIONS WITH ARCHITECT, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS AND LOCAL AGENCIES.

STRUCTURAL STEEL:

1. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND CODES, LATEST EDITION.
2. ALL WIDE FLANGE SECTION STRUCTURAL BEAMS (W) SHALL BE ASTM A992 Fy = 50 KSI. BASE PLATES AND MISC. STRUCTURAL STEEL SHALL BE ASTM A-36, Fy = 36 KSI. ALL SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A-500 GRADE B FY MINIMUM 46 KSI.
3. ALL ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554.
4. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-325 FOR 3/4" DIAMETER HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE.
5. ALL WELDING ELECTRODES SHALL BE E70XX.
6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION.

STRUCTURAL STEEL (CONT.):

7. NO CONNECTION SHALL CONSIST OF LESS THAN TWO 3/4" DIAMETER BOLTS OR WELDS DEVELOPING A MINIMUM OF 10,000 POUNDS UNLESS NOTED OTHERWISE.
8. ALL FILLET WELDS SHALL BE A MINIMUM OF 1/4" UNLESS NOTED OTHERWISE.
9. ALL WELDS SHALL BE VISUALLY INSPECTED AND ALL FULL PENETRATION WELDS SHALL BE INSPECTED BY MAGNETIC PARTICLE TESTING.
10. AN INDEPENDENT STEEL TESTING AGENCY SHALL PERFORM ALL INSPECTION AND TESTING. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS AND STABILITY.
12. AFTER FABRICATION, ALL STEEL, EXCEPT THAT TO BE GALVANIZED, SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS AND RECEIVE ONE COAT OF APPROVED PRIMER PAINT.
13. THE FABRICATOR SHALL FURNISH CONNECTION DETAILS AND SHOP AND ERECTION DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATING ANY STRUCTURAL STEEL. (2)
14. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCT. STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS FOR STRUCTURAL STEEL AND SHALL BE MADE IN THE SHOP. BURNING OF HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE ARCHITECT.

LIGHT GAGE STEEL FRAMING NOTES:

1. ALL DESIGN, DETAILING, FABRICATION, AND ERECTION OF LIGHT GAGE FRAMING SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, AND THE MANUFACTURER'S DETAILS AND SPECIFICATIONS.
2. STUD/JOIST DESIGNATIONS REFER TO MARINO/WARE INDUSTRIES, INC. FOR THE MINIMUM DESIGN PROPERTIES.
3. STEEL STUDS AT EXTERIOR WALLS SHALL BE 6" X 18 GA. TYPE SW SPACED @ 16" O.C. UNLESS NOTED.
4. HEADERS OVER EXTERIOR WALL OPENINGS 14 FEET OR LESS SHALL BE A MINIMUM OF (2) 6" x 18 GA. STEEL STUDS W/ 6" x 18 GA. STEEL TRACK AT TOP AND BOTTOM.
5. ALL LIGHT GAGE FRAMING SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A653 GRADE 50 WITH A MINIMUM YIELD STRESS OF 50,000 PSI. FOR 16 GA. AND THICKER OR ASTM A653 GRADE 33 WITH A MINIMUM YIELD STRESS OF 33,000 PSI FOR 18 GA. AND THINNER.
6. PROVIDE STUD WALL BRIDGING PER MANUFACTURER'S REQUIREMENTS. MINIMUM 4'-0" O.C. WHERE THERE IS NO SHEATHING. (2)
7. ATTACH LIGHT GAGE STUD TO TRACK WITH (2) #10 SCREWS (ONE INSIDE AND ONE OUTSIDE) AT EACH END OF EACH STUD. ATTACH TOP TRACK TO BEAM USING 5/32"DIA. PAF SPACED @ 16" O.C.

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DESIGN LOADS

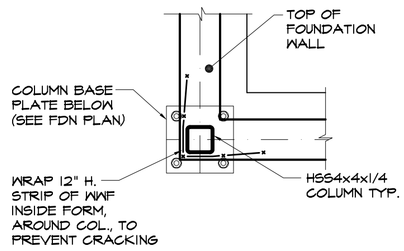
STATE OF FLORIDA BUILDING CODE 2010
MUNICIPALITY: BOCA RATON, FL

LIVE & CONCENTRATED LOADS:

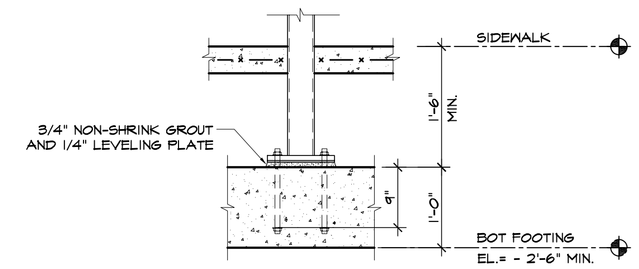
RETAIL AREAS	100 PSF
STORAGE AREAS (LIGHT)	125 PSF
MIN. CONCENTRATED FLOOR LOAD	2000 LBS.
ROOF LIVE LOAD	30 PSF

MISC. DATA:

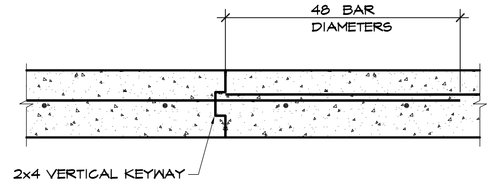
PRESUMED SOIL BEARING CAPACITY	3 KSF
BASIC WIND SPEED	170 MPH, EXP. C



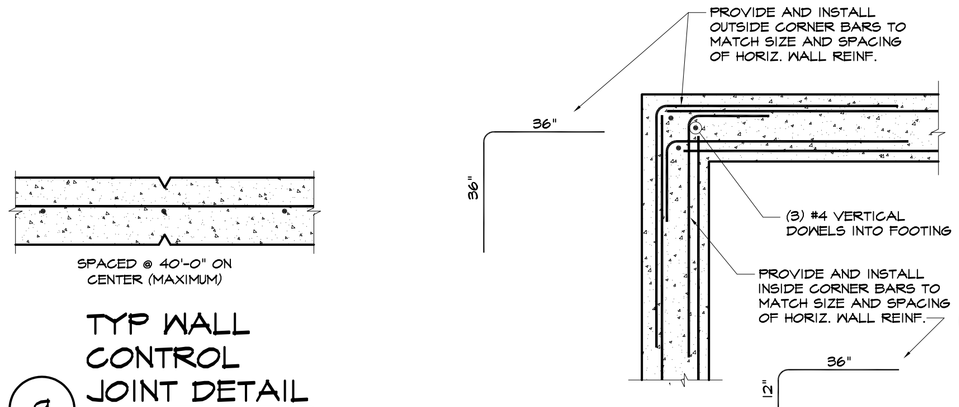
4 / S1.1 DETAIL
SCALE: 3/4" = 1'-0"



3 / S1.1 EXTERIOR COLUMN DETAIL
SCALE: 3/4" = 1'-0"

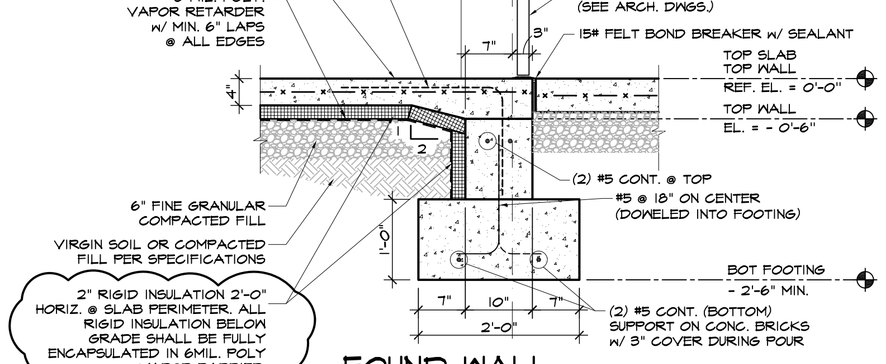


8 TYP WALL CONSTRUCTION JOINT DETAIL
SCALE: 3/4" = 1'-0"

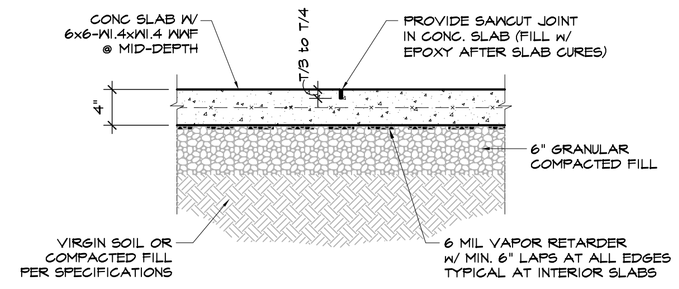


7 WALL REINF DETAIL @ CORNERS
SCALE: 3/4" = 1'-0"

9 TYP WALL CONTROL JOINT DETAIL
SCALE: 3/4" = 1'-0"



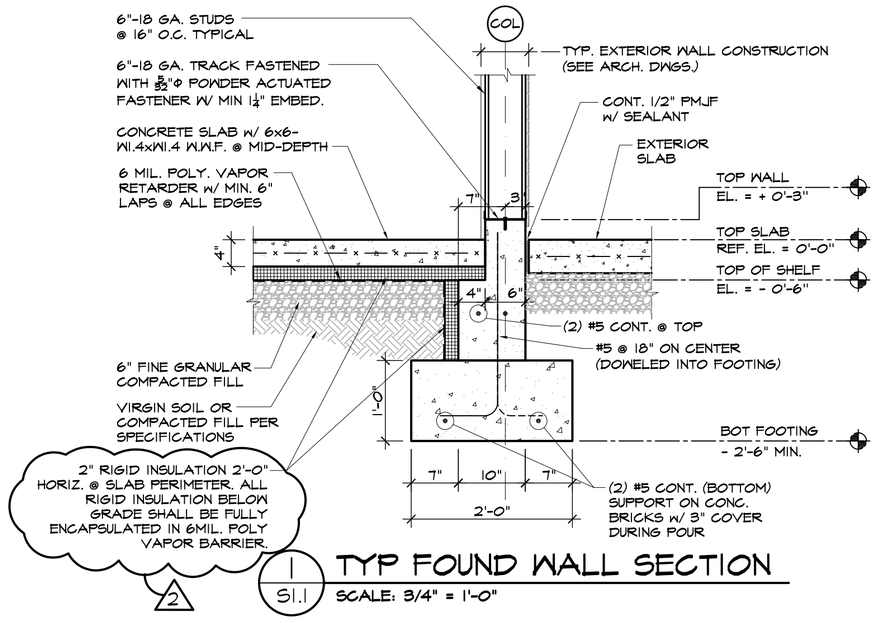
2 / S1.1 FOUND WALL SECTION @ OPENINGS
SCALE: 3/4" = 1'-0"



NOTES

1) SAWCUT SHRINKAGE CONTROL JOINTS SHALL BE PROVIDED WITHIN 12 HRS. OF SLAB PLACEMENT AS SOON AS CONCRETE IS CAPABLE OF SUPPORTING SAWCUTTING EQUIPMENT.
2) LOCATE SHRINKAGE CONTROL JOINTS AS INDICATED ON SLAB PLAN, OR AT A MAXIMUM SPACING OF 20 FT. O.C. IF NOT INDICATED ON PLANS. RESULTING SHAPE SHALL NOT BE GREATER THAN 400 S.F. NOR EXCEED A 1.5 : 1 LENGTH TO WIDTH RATIO.
3) OPTIONALLY, THE SHRINKAGE CONTROL MAY SUBSTITUTE PRE-FABRICATED PLASTIC STRIPS INSTEAD OF SAWCUTTING. SUBMIT CATALOG CUTS FOR APPROVAL PRIOR TO USING.

6 / S1.1 SHRINKAGE CONTROL DETAIL
SCALE: 3/4" = 1'-0"



1 / S1.1 TYP FOUND WALL SECTION
SCALE: 3/4" = 1'-0"

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REVISIONS

NUMBER	REMARKS	DATE
2	BLDG DEPT. COMMENTS	12/7/12

FOR PERMIT ONLY

PROJECT TITLE

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STORE # V0636
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BOCA RATON, FL
West Palm County

DRAWING TITLE
FOUNDATION DETAILS & NOTES

DATE	PROJ NO
AUG 29, 2012	11117
DRAWN BY: MJD	CHECKED BY: TPG

DRAWING NUMBER
S2.1