

**I S1.01 FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



**NOTES:**

1. REF. ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

**PAD PREPARATION FOR FLOOR SLAB**

1. STRIP THE ENTIRE SITE THAT IS TO BE COVERED BY THE BUILDING OF ALL TOP SOIL, OLD CONSTRUCTION DEBRIS, ROOTS, SURFACE VEGETATION, LOOSE FILL, AND OTHER ORGANIC MATERIAL TO A DEPTH OF SIX (6) FEET, MOISTURE-CONDITIONED AND THEN LAYER COMPACTED BACK INTO PLACE AS NOTED IN THE SOIL REPORT.
2. ALL EXPOSED SUBGRADE SOILS SHALL BE PROOF-ROLLED WITH A SUFFICIENTLY HEAVY PNEUMATIC ROLLER TO EVEN OUT ANY COMPRESSIBLE OR SOFT/LOOSE AREAS.
3. AT THE EXCAVATING DEPTH SCARIFIED ALL THE EXPOSED SURFACES TO A DEPTH OF SIX (6) INCHES AND RECOMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY BY ASTM D698 AND ETC. AS NOTED IN THE SOIL REPORT.
4. INSTALL SELECT MATERIALS TO WITHIN EIGHT (8) INCHES TO FINISHED FLOOR INTO THE PAD IN LOOSE LOTS OF LESS THAN EIGHT (8) INCHES THICK, COMPACTING EACH LIFT AS NOTED IN THE "EARTHWORK" SECTION OF THE SOIL REPORT.
5. REFER TO THE SOIL REPORT FOR THE SELECT FILL MATERIALS.
6. IT IS ESSENTIAL THAT NO WATER STANDS WITHIN THE PAD DURING CONSTRUCTION AND THE FINAL GRADING AROUND THE PAD SHALL BE SLOPED AWAY FROM THE BUILDING EDGE.

**GENERAL NOTES**

1. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION PLAN WITH ARCHITECTURAL DRAWINGS FOR OPENINGS, DROPS, INSERTS, AND RELATED ITEMS. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE CONCRETE IS PLACED.
2. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THAT THE NEW CONSTRUCTION WILL NOT CONFLICT WITH EXISTING UTILITIES. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SHALL STOP UNTIL AN APPROPRIATE SOLUTION TO THE CONFLICTS IS FOUND.
3. TYPICAL DETAILS AND NOTES SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
4. SITE GRADING AND DRAINAGE AROUND THE FOUNDATION SHALL BE MAINTAINED AT ALL TIMES IN SUCH A MANNER THAT SURFACE OR GROUND WATER WILL NOT COLLECT UNDER OR ADJACENT TO THE SLAB. MOISTURE CONTENT SHOULD BE KEPT CONSISTENT AND PROPER DRAINAGE AWAY FROM SLAB IS REQUIRED.

**CONSTRUCTION**

1. ALL INTERIOR BEAM BOTTOMS MUST BE FOUNDED A MINIMUM OF 6" INTO UNDISTURBED SOIL OR PROPERLY COMPACTED FILL. BEAM BOTTOMS MAY BE SLOPED OR STEPPED TO MEET THIS REQUIREMENT. BEAM SIZES SHOWN SHALL NOT BE DECREASED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. UPON COMPLETION OF FINAL GRADING, ALL BEAMS SHALL HAVE 8"-12" EXPOSED ABOVE GRADE. ALL INTERIOR BOTTOMS SHALL BE CLEAN AND FREE OF ANY LOOSE MATERIAL.
2. THE VAPOR BARRIER SHALL BE CUT FULL LENGTH AT THE BOTTOM OF ALL BEAMS.

**DESIGN**

1. DESIGNED BEAM SIZES, BEAM SPACING, AND REINFORCING STEEL SHOWN ARE MINIMUM REQUIREMENTS NEEDED TO ALLOW THIS STRUCTURAL SYSTEM TO ADEQUATELY PERFORM IN CONJUNCTION WITH SOIL PARAMETERS LISTED ABOVE. THE INTENT IS NOT TO ELIMINATE MOVEMENT, BUT INSTEAD, TO LIMIT EXCESSIVE FOUNDATION FLEXURE SO THAT DIFFERENTIAL MOVEMENT WILL NOT CAUSE UNREASONABLE DISTRESS.
2. ALL REINFORCING BARS SHALL BE GRADE 60 AND SHALL CONFORM TO A.S.T.M. A615-60.
3. BARS SHALL BE CLEAN AND SUPPORTED ON CHAIRS AND TIED AT ALL INTERSECTIONS TO PREVENT VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT. USE 4 FT. MAXIMUM SUPPORT CENTERS ALONG EACH BAR. LAP BARS A MINIMUM OF 18". PROVIDE CORNER BARS AT EACH OUTSIDE CORNER AND DISCONTINUOUS END OF GRADE BEAM AS SHOWN ON PLAN.
4. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, F<sub>C</sub>, OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP SHALL BE 6" WITH 6% AIR. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE A.C.I. STANDARDS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT:  
CONCRETE DEPOSITED AGAINST GROUND ..... 3 INCHES.  
FORMED CONCRETE IN CONTACT WITH GROUND ..... 2 INCHES.  
FORMED CONCRETE NOT IN CONTACT WITH GROUND ..... 1 1/2 INCHES.
6. VERIFY ALL DIMENSIONS, TOP OF SLAB SLOPES AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.
7. GEO-TECHNICAL INFORMATION HAS BEEN FURNISHED BY: KLENFELDER REPORT NO. RD006 DATE: FEBRUARY 14, 2007
8. REMARKS: SEE SOILS REPORT FOR ADDITIONAL INFORMATION.

**MASONRY**

1. ALL LIGHTWEIGHT CONCRETE MASONRY UNITS SHALL BE ASTM C-90, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1000 PSI, AVERAGE NET AREA.
2. ALL MORTAR FOR UNIT MASONRY SHALL BE PORTLAND CEMENT-LIME TYPE S, CONSISTING BY VOLUME OF 1 PART PORTLAND CEMENT, 1/2 HYDRATED LIME, AND 4 PARTS SAND.
3. PROTECT MASONRY UNITS FROM RAIN AND WATER.
4. DO NOT LAY WET UNITS AND WETTING OF UNITS WILL NOT BE PERMITTED.
5. GROUT MASONRY CELLS SOLID AT ALL CELLS IN WHICH VERTICAL REINFORCEMENT IS PLACED, AND AS SHOWN ON THE DRAWINGS.
6. CLEAN-OUTS WILL BE PROVIDED AT THE BOTTOM OF EACH GROUT CELL AND PILASTER.
7. GROUTED CELLS WILL BE CLEAN BEFORE GROUTING.

**MASONRY WALL REINFORCEMENT**

1. PROVIDE CONTINUOUS BOND BEAM AT THE TOP OF ALL WALLS, REINF WITH 2-#6 HORIZONTAL CONTINUE, FILL CELLS WITH CONC. OR GROUT.
2. PROVIDE 6" BOND BEAM LINTEL AT THE TOP OF ALL 3'-0" OR 4'-0" DOORS, REINF WITH 2-#5 HORIZONTAL, FILL CELLS WITH CONC. OR GROUT, (UNLESS NOTED OTHERWISE).
3. PROVIDE 16" BOND BEAM LINTEL AT THE TOP OF 8'-0" DOORS, REINF WITH 4-#5 HORIZONTAL, FILL CELLS WITH CONC. OR GROUT, (UNLESS NOTED OTHERWISE).
4. ALL BEAM OR BOND BEAM BEARING ON BOTH SIDES OF MASONRY OPENING SHALL BE A MINIMUM OF TWO CELLS WIDE AND REINF VERTICALLY WITH ONE #4 EACH CELL FULL HEIGHT, FILL CELLS WITH CONC. OR GROUT (UNLESS NOTED OTHERWISE).
5. PROVIDE VERTICAL REINF #4 FULL HEIGHT AT ALL EXTERIOR AND ALL INTERIOR BEARING MASONRY WALLS AT 48" O.C. AND 2-#4 AT ALL CORNERS, FILL CELLS WITH REINF WITH CONC OR GROUT (UNLESS NOTED OTHERWISE).
6. PROVIDE HORIZONTAL REINF AT ALL MASONRY WALL AND PILASTER WITH STANDARD GAGE BUR-D-WALL TRUSS TYPE # 16" O.C.
7. MASONRY WALL REINF SHALL BE ASTM A615.



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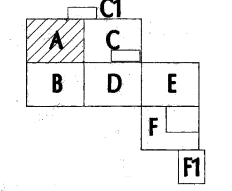
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**LITTLE ELM PARK IMPROVEMENTS**

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**FOUNDATION PLAN LIGHTHOUSE**

SCALE: AS SHOWN

SHEET NO. **S1.01**