

# GENERAL NOTES

## MISCELLANEOUS

- A. COMPLY WITH CITY OF ADDISON, 2000 INTERNATIONAL BUILDING CODE WITH AMENDMENTS.  
VERIFY ALL CONDITIONS ON JOBSITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

## DESIGN LIVE LOADS

- B. 1. MEZZANINE GRATING AREA 100 PSF  
2. WIND LOAD BASIC WIND SPEED 90 MPH, EXPOSURE B

## FOUNDATIONS

- A. DRILLED PIERS ARE DESIGNED FOR AN ALLOWABLE END BEARING PRESSURE WHEN PENETRATING INTO FIRM GREY LIMESTONE A MINIMUM OF 3 FEET, FOUND AT DEPTHS OF 15 TO 17 FEET. NOTIFY ENGINEER IF BEARING NOT ENCOUNTERED IN 20 FEET OF DEPTH. INSPECTION OF PIERS BY TESTING AGENCY IS REQUIRED.

BASE RESISTANCE ALLOWABLE	40,000 PSF
SIDE RESISTANCE IN GREY LIMESTONE	4,000 PSF
UPLIFT RESISTANCE IN GREY LIMESTONE	3,000 PSF
UPLIFT PRESSURE IN TOP 11.5 FEET IN CLAY	1,000 PSF

COMPLY WITH GEOTECHNICAL REPORT #PB5140 DATED 10/16/2002, BY PATTON, BURKE & THOMPSON, LLC.

- B. BACKFILL BELOW SLABS, NOT ON ROCK, ON GRADE SHALL BE ON 12 INCHES OF SELECT FILL MATERIAL PLACED IN LOOSE LIFTS UP TO 10 INCHES AND COMPACTED TO APPROXIMATELY 95 PERCENT (+/-3%) DENSITY, AT OR NEAR OPTIMUM MOISTURE, AS DETERMINED BY ASTM D-698. MAKE TWO COMPACTION TESTS OF SUBGRADE AND EACH FILL LIFT. SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES, WETTED TO 3% MIN. ABOVE OPTIMUM AND RECOMPACTED TO BETWEEN 95 & 100% OF OPTIMUM DENSITY.
- C. SELECT FILL SHALL BE VERY SANDY CLAY TO CLAYEY SAND WITH A LIQUID LIMIT OF LESS THAN 35. THE PLASTICITY INDEX SHALL BE BETWEEN 4 AND 12. AT EXTERIOR GRADE BEAMS PROVIDE COHESIVE CLAY BACKFILL OUTSIDE BUILDING LINE. SUBMIT SAMPLES OF FILL SOILS FOR DENSITY DETERMINATION.
- D. DO NOT BACKFILL BEHIND CHILLER WALLS UNTIL FLOOR SLAB HAS BEEN PLACED AND CURED.

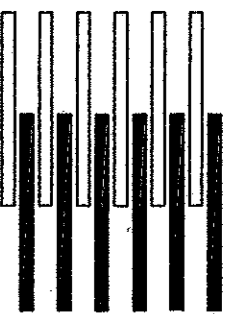
## CAST IN PLACE CONCRETE

- A. REINFORCED CONCRETE SHALL CONFORM TO 1996 ACI-318 BUILDING CODE AND ACI-301 SPECIFICATIONS. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- B. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH FOR ALL STRUCTURES OF 4000 PSI AT 28 DAYS. PROVIDE A MINIMUM OF 6 SACKS/CY OF CEMENT.
- C. CONCRETE SHALL NOT EXCEED A SLUMP OF 5" +/- 1" AT POINT OF DISCHARGE, HAVE 5% +/- 1% ENTRAINED AIR WITH ASTM C260 ADMIXTURE, AND WATER REDUCING ADMIXTURE ASTM C494 TYPE A OR D. FLYASH IS NOT PERMITTED. AGGREGATE SHALL MEET ASTM C33, 1" MAX. SIZE.
- D. BARS CALLED FOR AS CONTINUOUS (TOP & BOTTOM, TYP) SHALL HAVE STAGGERED LAPS OF 30 BAR DIAMETERS (1'-6" MINIMUM) AND THE CAGE SHALL HAVE 6 CORNER BARS AT JUNCTIONS, LAP INTERIOR TO EXTERIOR AND EXTERIOR TO EXTERIOR AND INTERIOR TO INTERIOR. INSTALL 2 ADDITIONAL STIRRUPS AT 6" O.C. AT ENDS OF ALL BEAMS (EACH SIDE OF PIERS.)
- E. REINFORCING BARS SHALL BE ASTM A615-GRADE 60, EXCEPT #3 AND #4 BARS SHALL BE GRADE 40. WELDED WIRE FABRIC SHALL BE ASTM A82 AND A185.
- F. PROVIDE #3 BARS X 2'-0" DIAGONALLY AROUND ALL PENETRATIONS OR HOLES LARGER THAN 4" THROUGH BEAMS OR SLABS.

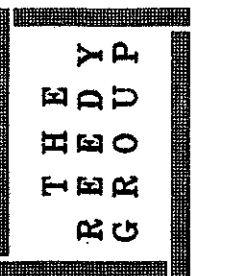
## STRUCTURAL STEEL

- A. ALL STRUCTURAL METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT APPLICABLE PROVISION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- B. SUBMIT SHOP DRAWINGS INDICATING ALL MEMBERS DIMENSION, SECTIONS INCLUDING ANCHOR BOLT LAYOUT AND WELDS PER AISC STANDARDS. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS OF FABRICATED STEEL, FOR DIMENSION, CLEARANCES, AND INSTALLATION WITH ARCHITECTURAL DRAWINGS AND THE WORK OF OTHER TRADES.
- C. ALL STRUCTURAL STEEL ELEMENTS SHALL BE ASTM A-36 STEEL, EXCEPT STEEL PIPE SHALL BE ASTM A53 TYPE B OR S AND TUBE STEEL SHALL BE ASTM A500, GRADE B, FY+46KSI. ALL STEEL SHALL BE G-60 HOT DIPPED GALVANIZED.
- D. WELDING SHALL COMPLY WITH AWS CODE D1.1.
- E. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED. WELDED CONNECTIONS SHALL BE MADE BY A CERTIFIED WELDER, WITH CURRENT YEARS CERTIFICATION FOR THE TYPE OF WELDING TO BE PERFORMED.
- F. ALL BOLTS (EXCEPT ANCHOR BOLTS) CONNECTION STEEL TO STEEL SHALL BE ASTM A325F LOAD-INDICATOR BOLTS. ANCHOR BOLTS SHALL BE ASTM A307 OR ASTM A36 THREADED RODS WITH PL 1/4 X 3 X 3 WASHERS BETWEEN NUTS @ EMBED ENDS.  
ANCHOR BOLT SUBSTITUTE: HILTI HY-150 EPOXY - SET BOLTS OR HILTI HVA EPOXY CAPSULE ANCHOR W/HAS 3/4" X 9-5/8" THREADED ROD EMBEDDED 7" INTO DRILLED CLEANED HOLE PER MANUFACTURER'S INSTRUCTIONS.
- G. GROUT BELOW BASEPLATES SHALL BE SIKA GROUT 212.
- H. BEAM CONNECTIONS SHALL BE DESIGNED TO CARRY AT LEAST HALF THE LOADS SHOWN IN THE "ALLOWABLE LOADS ON BEAMS" TABLES IN SECTION 2 OF THE AISC HANDBOOK, EIGHTH EDITION, UNLESS OTHERWISE NOTED.
- I. STEEL FLOOR AND STAIR TREAD GRATING SHALL BE BY McNICHOLS 1-800-237-3820, HOT DIPPED GALVANIZED, AND AS FOLLOWS:  
FLOOR GRATING: SERIES GW 1 3/4" x 3/16" SECURED TO STRUCTURE WITH TYPE GG FASTENERS INSTALLED IN ACCORDANCE WITH MFG. INSTRUCTIONS.  
STAIR TREADS: TYPE B STANDARD, SERIES GW, 10 15/16" WIDE.  
ALL BOLTS AND FASTENERS SHALL BE HOT DIPPED GALVANIZED.
- J. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH G-60 STANDARDS.

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**Mary Kay, Inc.**  
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Addison, Texas  
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