GENERAL NOTES

1. THE SLAB ON GRADE SHALL BE PLACED OVER A 6 MIL. POLY. VAPOR BARRIEROVER SUB GRADE.
2. ALL VOID CARTON SHALL BE 6".
3. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY WIND BRACING TO THE STEEL STRUCTURES UNTIL ALL BEAM, COLUMNAND BRACE CONNETIONS ARE MADE.
4. REFER TO ARCHITECTURAL DRAWING FOR DIMENSIONS NOT SHOWN.

STRUCTURAL STEEL AND METAL DECK NOTES

1. STRUCTURAL STEEL SHALL BE NEW AND SHALL CONFIRM TO AISC " SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTIONOF STRUCTURAL STEEL FOR BUILDING", LATEST APPROVED ADDITION.
2. BOLTS AND BOLTED CONNECTIONS SHALL CONFIRM TO THE REQUIREMENTS OF THE SPECIFICATIONS UNLESS NOTED OTHERWISE. CONNECTION BOLTS SHALL CONFIRM TO ASTM A325-N.
3. ALL STRUCTURAL STEEL , SHAPES, PLATES, ETC., SHALL CONFIRM TO THE FOLLOWING DESIGNATIONS UNLESS NOTED OTHERWISE:

ASTM A500,gr"B", ASTM A572-50	ALL STRUCTURAL STEEL
ASTM A500, GRADE "B", (46 KSI)	STRUCTURAL TUBE STEEL
ASTM A501, GRADE "B"	STRUCTURAL STEEL PIPES

4. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH 3/4" ø BOLTS (ASTM 325N UNLESS NOTED) OR WELDED AS SHOWN ON THESE DRAWINGS.
5. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS, UNLESS APPROVED BY THE ENGINEER.
6. ALL STRUCTURAL DETAIL AND CONNECTIONS SHALL CONFIRM TO THE STANDARD OF THE AISC.
7. ALL ANCHOR BOLT SHALL CONFIRM TO ASTM A307.
8. FOR ALL HIGH STRENGTH BOLTS, HARDENED WASHER SHALL BE PROVIDED.
9. HOT DIP GALVANIZE ALL STRUCTURAL STEEL EXPOSED TO WEATHER.
10. METAL ROOF DECK SHALL CONFIRM TO THE REQUIREMENTS OF THE " SPECIFICATIONS FOR STEEL DECK BY STEEL DECK INSTITUTE". ALL DECK SHALL SPAN A MINIMUM THREE SPANS, AND SHALL LAP AT THE CENTER LINE OF SUPPORTS A MINIMUM OF TWO INCH.
11. METAL ROOF DECK SHALL BE 22 GA, 1 1/2" DEPTH TYPE F INTERMEDIATE RIB PAINTED DECK.

WELDING NOTES

1. WELDING OF METAL DECK SHALL CONFIRM TO AWS D1.3
2. WHEN WELDS ARE NOT CALLED OUT ON THE DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.
3. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.

POST-TENSION NOTES

1. TENDONS: LOW RELAXATION 1/2"ø SEVEN WIRE STRANDS CONFIRM TO ASTM A416. THE TENDON ULTIMATE STRENGTH (Fpu) EQUALS 270 KSI. TENDONS ARE UNBONDED, SHEATHED AND COATED U.N.O..
2. TEMPORARY JACKING STRESS IN TENDONS SHALL NOT EXCEED 216 KSI (0.8 Fpu). STRESS IN TENDONS IMMEDIATELY AFTER PRESTRESS TRANSFER SHALL NOT EXCEED 200 KSI (0.74 Fpu). STRESS IN TENDONS AT ANCHORAGES AND COUPLERS, AFTER ANCHORAGE SHALL NOT EXCEED 189 KSI (0.70 Fpu).
3. CONTRACTOR SHALL SUBMIT COMPLETE CALCULATIONS OF FRICTION LOSSES AND SHOP DRAWINGS OF TENDON LAYOUTS, TENDON ELONGATION, DEAD-END AND STRESSING ANCHORAGE DETAILS FOR REVIEW BY THE STRUCTURAL ENGINEER. THE CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSINONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. THE POST-TENSION SUPPLIER SHALL HAVE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS ON THEIR STAFF OF EMPLOYEES.
4. FIELD MEASUREMENTS OF ELONGATIONS AND STREESING FORCES SHALL NOT VARY BY MORE THAN PLUS OR MINUS 7% FROM CALCULATED VALUES.
5. TENDON ENDS SHALL NOT BE BURNED OFF UNTIL STRESSING LOGS HAVE BEEN REVIEW BY STRUCTURAL ENGINEER.

REINFORCING STEEL NOTES

1. ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615-GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE ACI AP-66 AND ACI 318.
2. HEADED STUDS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED AND SHALL MEET THE REQUIREMENTS OF " BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-99). CONCRETE SHALL ALSO CONFIRM TO THE FOLLOWING REQUIREMENTS:

COMPRESSIVE STRENGTH @ 28 DAYS	TYPE AGGREGATE	WATER/CEMENT RATIO (MAX.)
4,000 PSI	CRUSHED LIMESTONE	0.44
3,000 PSI	CRUSHED LIMESTONE	0.55

2. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318 AND ACI 301.
3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. REFERENCE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED.

ALL CONCRETE PLACED AGAINST SOIL	3"
SLAB ON GRADE	1 1/2" TOP
BEAMS	1 1/2" (PRIMARY REINFORCEMENT)
	1" (STIRRUP)

4. ALL PUMPED CONCRETE SHALL CONTAIN HIGH RANGE WATER REDUCER.
5. ALL BEAMS SHALL PENETRATE 6" MINIMUM INTO UNDISTURBED SOILS.
6. PROVIDE PROPER DRAINAGE AWAY FROM SLAB PRIOR TO AND AFTER PLACING CONCRETE.
7. AT ALL INTERSECTING GRADE BEAM, USE 24"X24" #5 CORNER STEEL BARS TO TIE TO EACH BEAM'S STEEL BAR.
8. ALL SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

REINFORCING STEEL NOTES

1. ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615-GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE ACI AP-66 AND ACI 318.
2. HEADED STUDS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.

STEEL COLUMNS

6" SQUARE TUBE COLUMN W/ 12"X12"X3/4" BASE PLATE.
COLUMNS. U.N.O

PIER

24" PIER W/ 54" BELL TOTAL DEPTH 12'-0".
3,000 PSI CONCRETE PIER, REINFORCE W/ 8-#6 STEEL REBARS W/ #3 HOOP @ 24" O.C. ADD 2 HOOP AT TOP
ADD 4-#6 DOWEL INTO GRADE BEAM TYPICAL.

SLAB:

1. SLAB ON GRADE :
   5" THICK, 3,000 PSI CONCRETE SLAB ON GRADE, ON, REINFORCE W/ #4 @ 24" O.C. EACH WAY, AND 6 MIL. VAPOR BARRIER VINYL.
2. STRUCTURAL SLAB :
   6" THICK, 3,500 PSI CONCRETE SLAB ON 6" VOID FORM, REINFORCE W/ #5 @ 12" O.C. SHORT WAY, #4 @ 18" O.C. LONG WAY.

GRADE BEAM

EXTERIOR GRADE BEAM : 1'-6"W X 2'-0" D. REINF W/ (3)#5 T & B #3 STIRING @24" OC (GB1, REF S4.01)

-
-

CONCRETE PAVEMENT FOR PARKING AND DRIVEWAY

5" CONCRETE W/ #3 REBAR @ 24" O.C. EACH WAY IN PARKING & DRIVEWAY
6" CONCRETE W/ #3 REBAR @ 24" O.C. EACH WAY IN FIRE LANE DRIVEWAY
EXPANSION JOINT W/ RED WOOD AND 24" NO. 6 DOWEL @ 2'-0" O.C., @ 60'-0" O.C. EACH WAY MAX.
SAW CUT CONTROL JOINT SHALL BE 1 1/2" DEEP @ 15'-0" O.C. EACH WAY
ALL CURBS ARE 6" HIGH W/ #4 REBAR CONTINUOUS.
ALL CONTROL JOINTS, CONSTRUCTION JOINTS AND JOINTS BETWEEN BUILDING & SIDE WALK SHALL BE SEALED WITH HOT ASPHALT.

SUB GRADE PREPARATION FOR BUILDING AND ALL PAVEMENT

1. STRIPOPING:
   STRIP SITE OF ALL VEGETATION, TOP SOIL, DEBRIS, ETC., PREPARE THE EXPOSED SUBGRADE BY SCARIFYING THE UPPER 6".

CHAUCER'S DESIGN STUDIO
949 SIMON DRIVE, PLANO, TX. 75025 TEL: 972.849.6848

CROWN PLAZA HOTEL
14315 MIDWAY RD
ADDISON, TX 75001

REVISION:

DRAFTER: CHEHSIANG CHEN
DATE: 03/ 02/ 2010

S0