CONCRETE

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS IN THE PRODUCTION, TESTING, AND INSTALLATION OF CONCRETE.

THE MAXIMUM PERMISSIBLE WATER-CEMENT RATIOS FOR CONCRETE, SHALL BE PER 1998 CBC, IRRESPECTIVE OF STRENGTH DATA, EXCEPT FOR STRUCTURAL SLAB, IN WHICH THE MAXIMUM WATER-CEMENT RATIO SHALL BE 0.44.

ALL CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTHS AT 28 DAYS:

STONE AGGREGATE	
FOOTINGS, GRADE BEAMS	3000 PSI
~~COLUMNS~~	~~4000 PSI~~
SLABS-ON-GRADE, CURBS	2500 PSI

SEE ARCHITECTURAL DRAWINGS FOR SURFACE FEATURES SUCH AS CHAMFERS, REVEALS, ETC.

THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT INDICATING THE LOCATION OF ALL CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE. ANY DEVIATION IN THE POURING OF THE CONCRETE SLAB FROM THE METHOD DESCRIBED ON THE TYPICAL CONSTRUCTION JOINT DETAIL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO POURING THE CONCRETE SLAB. A LETTER TO THE STRUCTURAL ENGINEER IS REQUIRED STATING THE REQUESTED CHANGE AND DESCRIBING THE PROPOSED METHOD. THE CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR THE CHANGED CONSTRUCTION JOINT DETAIL. THE SURFACE OF ALL CONSTRUCTION JOINTS, INCLUDING EXISTING CONSTRUCTION, SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX.

ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

CURING UNFORMED SURFACES:

1. MAINTAIN THE CONCRETE ABOVE 50 DEGREES F. AND IN A MOIST CONDITION, FOR ONE DAY TO SEVEN DAYS KEEPING THE SURFACE CONTINUOUSLY WET BY COVERING WITH WATER OR BY CONTINUOUS WATER-FOG SPRAY.
2. APPLY MEMBRANE-FORMING CURING COMPOUND TO DAMP CONCRETE SURFACES IMMEDIATELY AFTER THE COMPLETION OF THE MOIST-CONDITIONING PERIOD DESCRIBED IN ITEM 1 ABOVE. APPLY UNIFORMLY IN TWO-COAT CONTINUOUS OPERATION BY POWER-SPRAY EQUIPMENT, IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. RECOAT AREAS WHICH ARE SUBJECT TO HEAVY RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD. THE FULL CURING PERIOD IS 28 DAYS.
3. TEST TO CONFIRM THAT MEMBRANE-FORMING CURING COMPOUND IS SATISFACTORY BY PLACING 20 FOOT BY 20 FOOT SHEET OF POLYETHYLENE POSITIVELY HELD IN PLACE ON THE SURFACE ON THE CONCRETE, AND DETERMINE IF WATER VAPOR HAS MIGRATED FROM THE CONCRETE AND CONDENSED ON THE UNDERSIDE OF THE POLYETHYLENE. DO ONE TEST FOR THE AREA OF CONCRETE POURED EACH DAY.
4. IF CONDENSATION APPEARS ON THE TEST SHEETS, THEN RE-APPLY MEMBRANE-FORMING COMPOUND TO THE ENTIRE CONCRETE POUR AND RETEST FOR VAPOR MIGRATION.

CURE FORMED SURFACES BY MOIST CURING WITH FORMS IN PLACE FOR FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED. WHEN FORMS ARE REMOVED, CONTINUE CURING BY METHODS SPECIFIED ABOVE, AS APPLICABLE, FOR FULL CURING PERIOD.

BASE PLATE ANCHOR BOLTS SHALL BE LOCATED INSIDE THE FOOTING OR WALL REINFORCING CAGE. UNLESS OTHERWISE NOTED IF THE ANCHOR BOLTS FALL OUTSIDE THE REINFORCING CAGE, THEN ADD #4 RECTANGULAR CLOSED TIES AT THE TOP AND BOTTOM OF ANCHOR BOLTS, WIRE TIED TO ANCHOR BOLTS.

REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED.

PROVIDE MODIFIED CONCRETE MIX AT HORIZONTAL CONSTRUCTION JOINTS WHERE CONDITIONS MAKE PUDDLING DIFFICULT AND/OR WHERE REINFORCING IS CONGESTED. MODIFIED CONCRETE MIX SHALL CONTAIN 50 PERCENT OR LESS OF COARSE AGGREGATES SPECIFIED IN CONCRETE MIX DESIGN.

THE AGGREGATES IN THE CONCRETE FOR THIS PROJECT SHALL BE COMPOSED OF LOCALLY AVAILABLE FINE AND COARSE AGGREGATES OF THE TYPE CALLED FOR IN THE SPECIFICATIONS. DUE TO THE NATURE OF CONCRETE IN GENERAL, AND CONSIDERING THE SOURCE AND PERFORMANCE HISTORY OF THESE LOCAL AGGREGATES, CONCRETE CRACKING IS UNAVOIDABLE. IF THE OWNER AND/OR ARCHITECT DETERMINE THAT REDUCED CRACKING IS

REQUIRED, THEY SHALL NOTIFY THE STRUCTURAL ENGINEER SO THAT LOW SHRINKAGE AGGREGATES WITH A HISTORY OF REDUCED CRACKING CAN BE SPECIFIED.

NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONCRETE OPERATIONS.

SEE MECHANICAL AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND DETAILS OF CONCRETE PADS.

ALL CONCRETE CURBS ARE 6" HIGH, UNLESS OTHERWISE NOTED. ALL TOILET ROOM STUD WALLS SHALL HAVE CONCRETE CURBS.

SPECIAL INSPECTION REQUIREMENTS OF SECTION 1701A, 1998 CBC APPLY TO REINFORCED CONCRETE.

STRUCTURAL GLUED-LAMINATED MEMBERS

ALL STRUCTURAL GLUED-LAMINATED MEMBERS SHALL BE COMBINATION DF/DF 24F-V4 FOR SIMPLE SPANS, AND COMBINATION DF/DF 24F-V8 FOR CANTILEVER AND CONTINUOUS SPANS, MANUFACTURED AND FABRICATED IN ACCORDANCE WITH ANSI/AITC A190.1 AND ICBO 3983.

ALL STRUCTURAL GLUED-LAMINATED MEMBERS SHALL BE DOUGLAS FIR. SEE CARPENTRY NOTES FOR DOUGLAS FIR REQUIREMENTS.

ADHESIVE SHALL BE EXTERIOR TYPE WET-USE ADHESIVE MEETING REQUIREMENTS OF ASTM 2559.

THE FABRICATOR SHALL FURNISH LAMINATING REPORT SIGNED BY A QUALIFIED INSPECTOR.

ALL BEAMS SHALL BE CAMBERED UNLESS OTHERWISE NOTED. CAMBER SHALL BE AS NOTED ON PLANS. IF NOT NOTED ON PLANS CAMBER SHALL BE STANDARD, WHICH IS, 1600 FOOT RADIUS FOR SIMPLE SPANS AND 800 FOOT RADIUS FOR CANTILEVER SPANS.

ALL PORTIONS OF GLUE-LAMINATED MEMBERS WHICH ARE EXPOSED TO THE WEATHER AND NOT PROPERLY PROTECTED BY A ROOF, EAVE OR SIMILAR COVERING SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.

REINFORCEMENT

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

ALL CONCRETE SHALL BE REINFORCED.

REINFORCEMENT SHALL BE ASTM A615-40 FOR #4 AND SMALLER, AND A615-60 FOR #5 AND LARGER, AND ASTM A706 FOR DUCTILE CONCRETE FRAMES AND WALLS AND FOR WELDING. BARS SHALL BE MARKED LEGIBLY INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.

REINFORCING BARS SHALL BE IN AS LONG LENGTHS AS PRACTICABLE AND AS DETAILED. LAP ALL BARS AND CORNERS NOT LESS THAN SPECIFIED ON 7/S1.3. STAGGER SPLICES IN HORIZONTAL REINFORCEMENT. SPLICES IN TWO CURTAINS WHERE USED SHALL NOT OCCUR IN THE SAME LOCATION. VERTICAL REINFORCING AT WALLS, COLUMNS, PILASTERS SHALL EXTEND INTO FOOTINGS, BUT MAY BE DOWELLED WITH LAP SPECIFIED ON 7/S1.3 OF SAME SIZE AND SPACING OF BARS.

MINIMUM BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE NOTED ON DRAWINGS, SHALL BE:

3"	POURED AGAINST EARTH OR IN CONTACT WITH GROUND
2"	EXPOSED TO EARTH OR WEATHER (#6 AND LARGER)
1 1/2"	EXPOSED TO EARTH OR WEATHER (#5 AND SMALLER)
1 1/2"	COLUMN SPIRALS OR TIES
1-1/2"	STIRRUPS OF BEAM
1"	WALLS
3/4"	STRUCTURAL SLAB BARS, TOP AND BOTTOM

REVISIONS: (△ INDICATES REVISIONS MADE TO THIS SHEET.)

NO.:	DATE	REASON	BY

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STAMP:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01 103529
AC ___ FLS ___ SS ml
DATE 5/9/01
Redate ml 5/21/01

APPL. NUMBER:

KEY PLAN:

AS-BUILT

SHEET TITLE:

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