

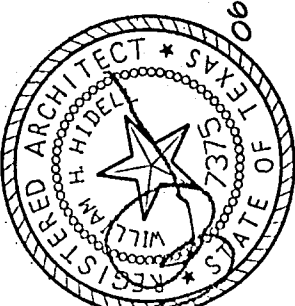


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TENNIS CENTER

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TITLE

GENERAL NOTES

Revisions

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GENERAL NOTES

- DESIGN LIVE LOADS:
CANOPY ROOF 20 psf
TO MPH, EXPOSURE B.
- DESIGN WIND SPEED: 70 MPH, EXPOSURE B.
- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE AIRFOUR BUILDING CODE, AS AMENDED AND ADOPTED BY THE CITY OF DALLAS, TEXAS.

SHOP DRAWINGS REVIEW AND SUBMITTAL NOTES

- SHOP DRAWINGS (AND CALCULATIONS) FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW:
A. REINFORCING STEEL
B. CONCRETE FORMWORK
C. POST-TENSIONED CONCRETE (SHOP DRAWINGS AND REINFORCING STEEL)
D. STRUCTURAL STEEL
E. GLULAM BEAMS
F. WOOD DECK

REFER TO PROJECT SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. DISTRIBUTION OF PRINTS IS TO BE MADE ONLY FROM RETURNED SEALS BEARING AN INITIALED REVIEW STAMP. NO WORK ON ITEMS NOT REVIEWED OR APPROVED. APPROVED ITEMS ARE CLEARLY INDICATED, APPROVED OR APPROVED AS NOTED.

- GENERAL CONTRACTOR SHALL PRE-CHECK ALL SHOP DRAWINGS BEFORE SUBMITTAL. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW STATUS OF THE GENERAL CONTRACTOR.
- ALLOW TEN WORKING DAYS AFTER DATE OF DELIVERY TO THE ARCHITECT FOR ENGINEER'S REVIEW OF SHOP DRAWINGS.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES BY ANY CONTRACTOR, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT, IS PROHIBITED. THE ARCHITECT'S PERMISSION IS NOT NECESSARY FOR THE LIBRARY OF THE ARCHITECT'S OFFICE TO MAKE COPIES OF THESE DRAWINGS FOR THE ARCHITECT'S USE. THE ARCHITECT'S PERMISSION IS NOT NECESSARY FOR THE ARCHITECT'S OFFICE TO MAKE COPIES OF THESE DRAWINGS FOR THE ARCHITECT'S USE. THE ARCHITECT'S PERMISSION IS NOT NECESSARY FOR THE ARCHITECT'S OFFICE TO MAKE COPIES OF THESE DRAWINGS FOR THE ARCHITECT'S USE.

QUALITY CONTROL NOTES

- THE CONTRACTOR SHALL AT HIS OR HER EXPENSE ENGAGE A LICENSED SURVEYOR APPROVED BY THE OWNER AND THE ARCHITECT, TO LOCATE ALL SURVEYOR MARKS INCLUDING BENCH MARKS, IN ORDER THAT EXACT LINES OF THE PROPERTY, BUILDING AND GRADES MAY BE DETERMINED. ESTABLISHED BENCH MARKS, ELEVATIONS AND LEVELS BY OBSERVATION AND SIMILAR APPROPRIATE MEANS.
- AN INDEPENDENT TESTING LAB SHALL BE ENGAGED TO PERFORM THE FOLLOWING MATERIALS TESTS AND INSPECTIONS:
A. INSPECTION OF FOUNDATION/BEARING STRATA.
B. TESTING AND INSPECTION OF SUBGRADE PREPARATION.
C. INSPECTION OF CONVENTIONAL CONCRETE REINFORCING STEEL AND STEELING OPERATIONS.
D. INSPECTION OF POST-TENSIONING STRAND PLACEMENT, AND TESTING OF CONCRETE STRENGTHS, SLUFRS, INCLUDING BOLTED AND/OR WELDED CONNECTIONS, AND BOLTED STEEL TO WOOD CONNECTIONS.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING QUANTITY OR FREQUENCY OF TESTS AND INSPECTIONS, REPORTING PROCEDURES, AND OTHER RESPONSIBILITIES.
- THE CONTRACTOR SHALL PAY FOR ENGINEERING AND ARCHITECTURAL SERVICES NECESSARY TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

FOUNDATION NOTES

- FOUNDATION ALLOWABLE DESIGN SOIL VALUES:
END BEARING: 50 ksf
SKIN FRICTION: 6 ksf
- FOUNDATION DESIGN AND SUBGRADE INFORMATION IS BASED ON GEOTECHNICAL REPORT # 94029311 PREPARED FOR THIS PROJECT BY HBC ENGINEERING, INC. AND DATED FEBRUARY, 1999.
- BEARING STRATA SHOWN ON THE PIER DETAILS IS GRAY LIMESTONE.
- THE CONTRACTOR SHALL MAKE ACCURATE MEASUREMENTS OF THE DEPTH OF PENETRATION INTO THE BEARING STRATA TO BE ASSURED OF CONFORMANCE WITH THE DEPTH OF PENETRATION REQUIRED BY THE PROJECT DOCUMENTS. THE CONTRACTOR SHALL REPORT ON THE REPORT OF PENETRATION DRILLED TO THE ENGINEER.
- PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS AFTER DRILLING.

SUBGRADE PREPARATION

- ALL SUBGRADE SHALL BE PREPARED IN STRICT CONFORMANCE TO THE SOILS ENGINEER'S RECOMMENDATIONS. REFER TO THE SOILS REPORT AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PREPARE SUBGRADE FOR COURTS 1 AND 2 AS FOLLOWS:
A. UNDERCUT COURT AREA AS REQUIRED TO PROVIDE 5 FEET OF REINFORCED MATERIAL BENEATH THE BOTTOM OF THE SELECT FILL PAD. THE EXCAVATION SHOULD EXTEND A MINIMUM OF 2 FEET BEYOND THE EDGE OF THE COURTS IN SOME AREAS. TAN LIMESTONE WILL BE ENCOUNTERED BEYOND THIS DEPTH. SOILS ENGINEER TO DETERMINE THE DEPTH OF EXCAVATION AND RECOMPACT TO MINIMUM OF 95 PERCENT OF STANDARD PROCTOR (ASTM D 699) AT A MINIMUM OF 4 PERCENTAGE POINTS OF THE SOILS OPTIMUM MOISTURE CONTENT. UNLITTED OR DRIED TO ADJUST THE MOISTURE CONTENT AS STATED ABOVE. BOLLERS AND LARGE FRAGMENTS OF LIMESTONE WILL NEED TO BE BROKEN DOWN TO A MAXIMUM SIZE OF 4 INCHES. THEY SHOULD CONTAIN SUFFICIENT FINES TO PERMIT COMPACTION. THE SOILS CAN THEN BE REPLACED IN LOOSE LIFTS, LESS THAN 9 INCHES THICK, AND UNIFORMLY COMPACTED AS STATED ABOVE. CARE SHOULD BE TAKEN THAT A LIFT IS NOT ALLOWED TO DEBECATE PRIOR TO PLACING 17.5 HOURS OF COMPLETING THE INSTALLATION OF THE SOIL WITHIN 48 HOURS OF COMPLETING THE INSTALLATION OF THE MATERIAL. UNLITTED SOILS SHOULD BE A VERY SANDY CLAY TO SILTY SAND AND SELECTED LIFT OF LESS THAN 9 INCHES. FLASTICITY INDEX BETWEEN 6 AND 15. PLACE SELECT FILL IN LOOSE LIFTS, LESS THAN NINE INCHES THICK, AND UNIFORMLY COMPACTED TO A MINIMUM OF 95 PERCENT OF ASTM D 699 WITHIN OF THE PERMITTED SELECT FILL SHALL BE PLACED. USE OF OPTIMUM TO PREVENT DRYING THE UNDERLYING SUBGRADE DO NOT ALLOW THE SELECT FILL TO EXTEND BELOW THE BOTTOM OF THE PERIMETER EDGE BEAT, OR OUTSIDE THE PERIMETER BACKFILL AGAINST THE EXTERIOR FACE OF GRADE BEANS WITH PROPERLY COMPACTED ON-SITE CLAYS. COMPACTION SHOULD BE A MINIMUM OF 95 PERCENT OF ASTM D 699 AT A MINIMUM OF 3 PERCENT ABOVE THE PERIMETER EDGE BEAT. THE PERIMETER EDGE BEAT SHALL BE 15 PERCENT GRADE FOR THE FIRST 10 FEET BEYOND THE PERIMETER OF THE COURTS, WITH THE FOLLOWING:
A. IN THE VICINITY OF COURTS 3 THROUGH 6, UNCONTROLLED FILLS SUCH AS AT BURNING 6 AND 9, THE FULL DEPTH OF EXISTING FILLS SHALL BE REMOVED, RECONDITIONED AND REPLACED.
- FOUNDATION AND SUBGRADE PREPARATION SHALL BE MONITORED AND QUALITY CONTROL REQUIREMENTS. REFER TO SPECIFICATIONS FOR DURING CONSTRUCTION PERIOD. MAINTAIN PROPER MOISTURE CONTENT AND SPRINKLING WITH A MOISTURE RETAINING COVER OR BY PERIODIC SPRINKLING.

TRENCH SAFETY

- THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS ENGINEER AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTRACTOR SHALL MAINTAIN MEETS OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.

CONCRETE NOTES

- ALL CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND A 28 DAY COMPRESSIVE STRENGTH (F'CD) OF 3,000 PSI UNLESS NOTED OTHERWISE. NOMINAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-95.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:
REFER TO SECTION 11. ACI 318-95 FOR CONDITIONS NOT NOTED.
PIERS: 3" TOP, 1 1/2" BOTTOM
PIER CAPS: 3" TOP, 1 1/2" BOTTOM
SLABS-ON-GRADE: CENTERED
- MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 1" MAX UNLESS NOTED OTHERWISE.
- CONCRETE SLUFRS SHALL BE AS FOLLOWS:
PIERS: 1" MAX 5" MIN
ALL OTHER CONCRETE: 5" MAX, 2" MIN
- ALL PIER CAPS SHALL BE FORMED ON SIDES. EARTH FORMING WILL NOT BE ALLOWED.
- CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS FOLLOWS:
3/4" NOMINAL AGGREGATE SIZE: 4% TO 8%
1" NOMINAL AGGREGATE SIZE: 3.5% TO 6.5%
1 1/2" NOMINAL AGGREGATE SIZE: 3% TO 6%

REINFORCING STEEL NOTES

- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL.

POST-TENSIONED TENNIS COURT NOTES

- THE DESIGN AND INSTALLATION OF THE POST-TENSIONING TENNIS COURTS SHALL BE BY A SPECIALTY CONTRACTOR AND ENGINEER DESIGN SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE FOLLOWING NOTES.
- POST-TENSION STRAND SHALL BE 1/2" DIAMETER 1 WIRE STRAND CONFORMING TO ASTM A416, STRESS-RELIEVED, HAVING A YIELD STRENGTH OF 270 ksi.
- STRANDS SHALL BE INITIALLY STRESSED TO 0.8 f_y = 216 ksi, 33,000 lbs. PER STRAND.
- STRESS SHALL BE CHECKED BY MEANS OF GAGE PRESSURE ON THE STRESSING JACK AND BY MEASUREMENT OF STRAND ELONGATION. THEORETICAL STRAND ELONGATION SHALL BE COMPUTED BY THE TENDON SUPPLIER AND SHOWN ON THE TENDON LAYOUT SHOP DRAWINGS.
- STRAND ANCHORS SHALL BE RECESSED INTO POCKETS DEEP ENOUGH TO PROVIDE 1 1/2" CLEAR COVER AND POCKETS SHALL BE FILLED WITH A WATER-TIGHT GROUT SUCH AS GIFFORD-HILL SUPERFINE. CONCRETE SHALL BE CONSOLIDATED IN THE VICINITY OF EACH ANCHOR.
- SUBGRADE TO BE PREPARED IN STRICT ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO SUBGRADE PREPARATION NOTES.
- CLEAN ALL FORMS OF DEBRIS AND LOOSE DIRT PRIOR TO CONCRETE PLACEMENT.
- CONCRETE STRENGTH AT STRESSING SHALL BE 3,000 PSI MINIMUM.
- PONDING WATER SHALL NOT BE ALLOWED ADJACENT TO THE CONCRETE FORMWORK. IMMEDIATELY AFTER STRESSING, THE CONTRACTOR SHALL PERMANENTLY NECESSARY FOR PROPER PERFORMANCE OF THE FOUNDATION. THE CONTRACTOR SHALL ADVISE THE OWNER IN WRITING OF THIS REQUIREMENT.
- SLAB SHALL BE STRESSED WITHIN 7 DAYS AFTER POUR. PROVIDE AN INITIAL PRESTRESS OF 90% OF THE FINAL PRESTRESS WITHIN 35 HOURS OF PLACEMENT OF CONCRETE.
- CONSTRUCTION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED AND DETAILED BY THE ENGINEER.
- NO DRILLING OR CORING OF THE CONCRETE SLABS WILL BE ALLOWED.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO AISC'S SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 1989 EDITION.
- BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS RECOMMENDED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) AND THE AMERICAN WELDED INSTITUTE (AWI). THE CONTRACTOR SHALL ADVISE THE OWNER IN WRITING OF THIS REQUIREMENT.
- ALL W6 THRU W24, UP TO 80 LBS. PER FOOT, SHALL CONFORM TO ASTM A992, GRADE 50. PER AISC SPECIAL ADVISORY NO. 3, DATED MARCH, 1991.
- ALL W12 AND LARGER AND ALL W SHAPES HEAVIER THAN 80 LBS. PER FOOT SHALL CONFORM TO ASTM A572, GRADE 50.
- ALL OTHER STRUCTURAL STEEL, SHAPES, PLATES, ETC., SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
- GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123.
- ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPES 'E' OR 'B', GRADE B.
- ALL STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B.
- ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
- STEEL MEMBERS SHALL NOT BE SPICED EXCEPT WHERE SHOWN ON THE DRAWINGS.
- WELDED CONNECTIONS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) WELDING CODES D11.98. ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX UNLESS NOTED OTHERWISE.
- ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED WITHIN THE LAST 6 MONTHS.
- FIELD PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED.
- WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS RILLET WELDS IN ACCORDANCE WITH AWS D11.
- ALL TEMPORARY SHORING AND BRACING DURING THE CONSTRUCTION PHASE IS THE RESPONSIBILITY OF THE CONTRACTOR.

WOOD BEATING

- ALL WOOD SHALL HAVE A MOISTURE CONTENT OF 19% MAXIMUM.
- ALL GLUE LAMINATED MEMBERS SHALL BE 2 1/2" V.S. SOUTHERN PINE WITH AN ALLOWABLE F_v OF 2400 PSI AND E OF 1,800,000 PSI.
- ALL MEMBERS SHALL BE PRESSURE TREATED ACCORDING TO ANFA STANDARDS, AND A.I.T.C. STANDARD 103.
- EXTERIOR MEMBERS SHALL BE PROTECTED WITH A WATER REPELLENT PAINT OR SEALER THAT IS COMPATIBLE WITH ARCHITECT'S SPECIFIED APPEARANCE. SUBMIT PROPOSED PAINT AND/OR SEALER TO ARCHITECT FOR REVIEW AND APPROVAL. USE OF GREEN GARDEN AND/OR SEALANT MANUFACTURERS' RECOMMENDATION FOR PERIODIC MAINTENANCE AND RECOMMENDED SCHEDULE FOR REAPPLICATION.
- ROOF DECK SHALL BE 3" X 6" NOMINAL SOUTHERN PINE SELECT WITH DOUBLE TONGUE-AND-GROOVE ROOF DECK SHALL BE INSTALLED WITH TONGUES UP ON THE SLOPED SIDE OF THE ROOF.
- EACH PIECE OF ROOF DECK SHALL BE TERMINATED AT EACH SUPPORT WITH ONE 40D NAIL AND FACE NAILED WITH ONE 16" SPIKE. COURSES ARE TO BE SPIKED TO EACH OTHER WITH 8" SPIKES AT INTERVALS NOT TO EXCEED 30". THROUGH PRE-DRILLED EDGE HOLES AND WITH ONE SPIKE AT A DISTANCE NOT EXCEEDING 10" FROM EACH END OF EACH PIECE.