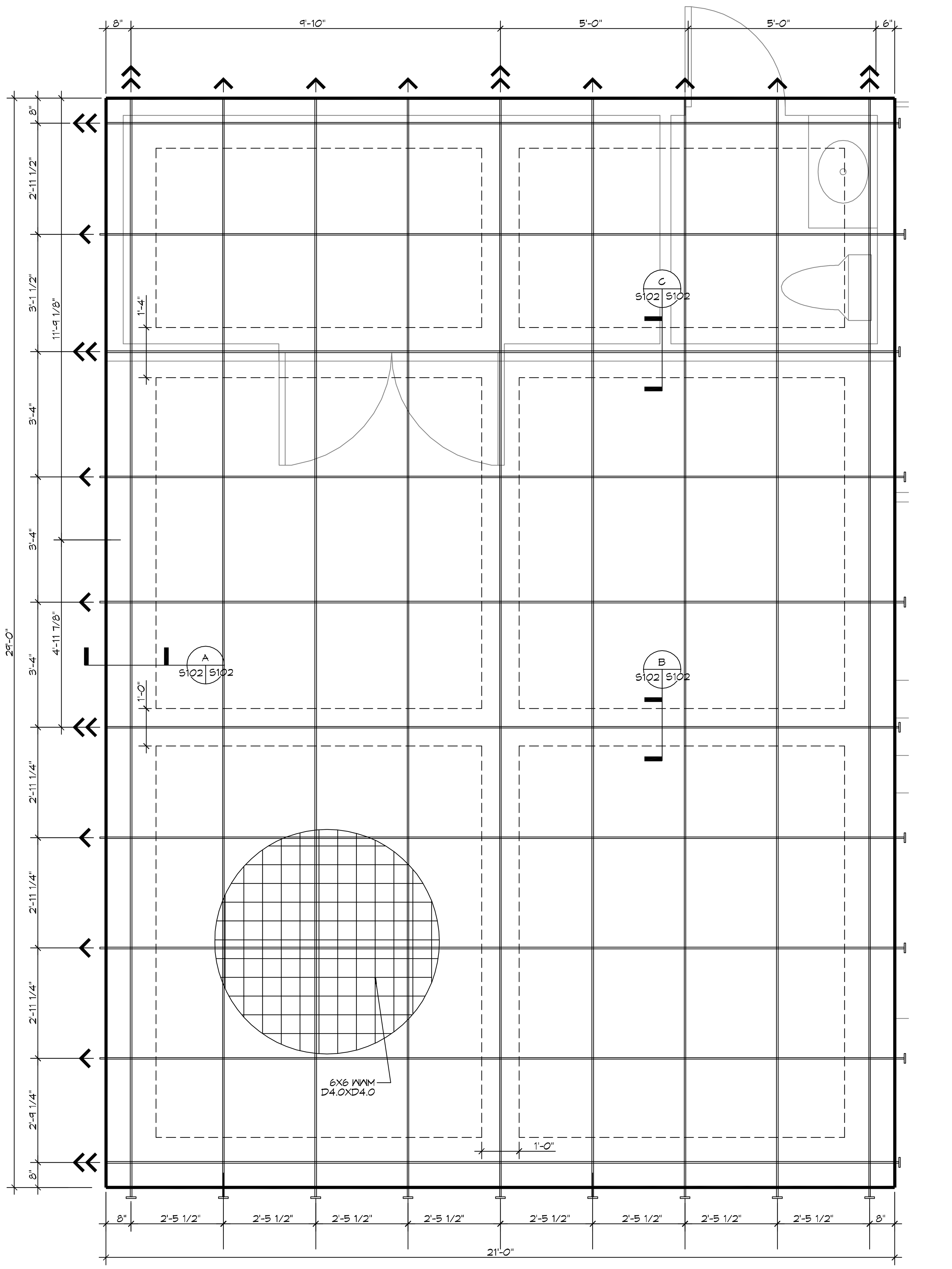
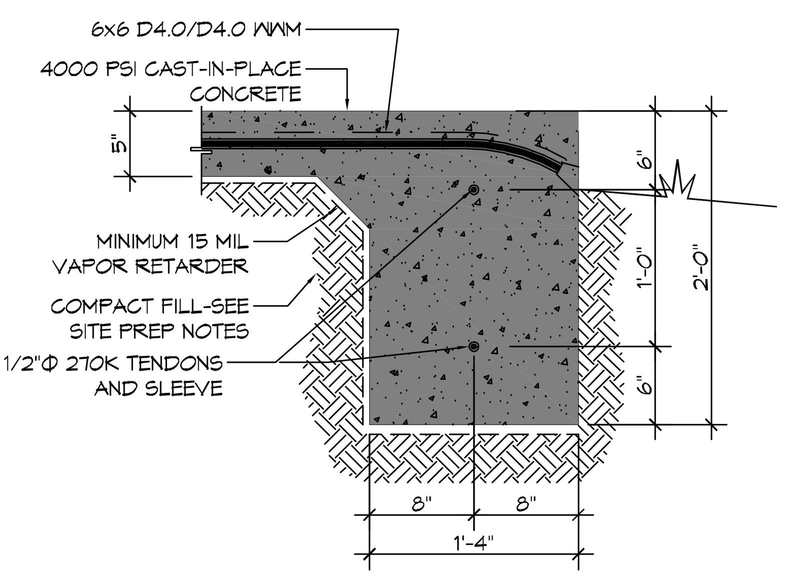


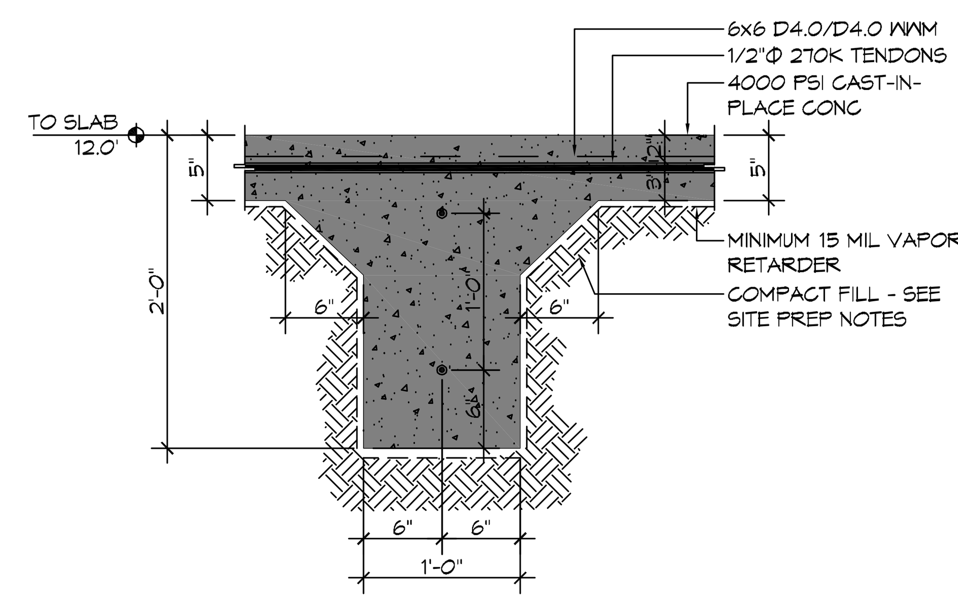

## CARPORT FOUNDATION PLAN

1 S102|S102 — SCALE: 1/2" = 1'-0" — FOUNDATION



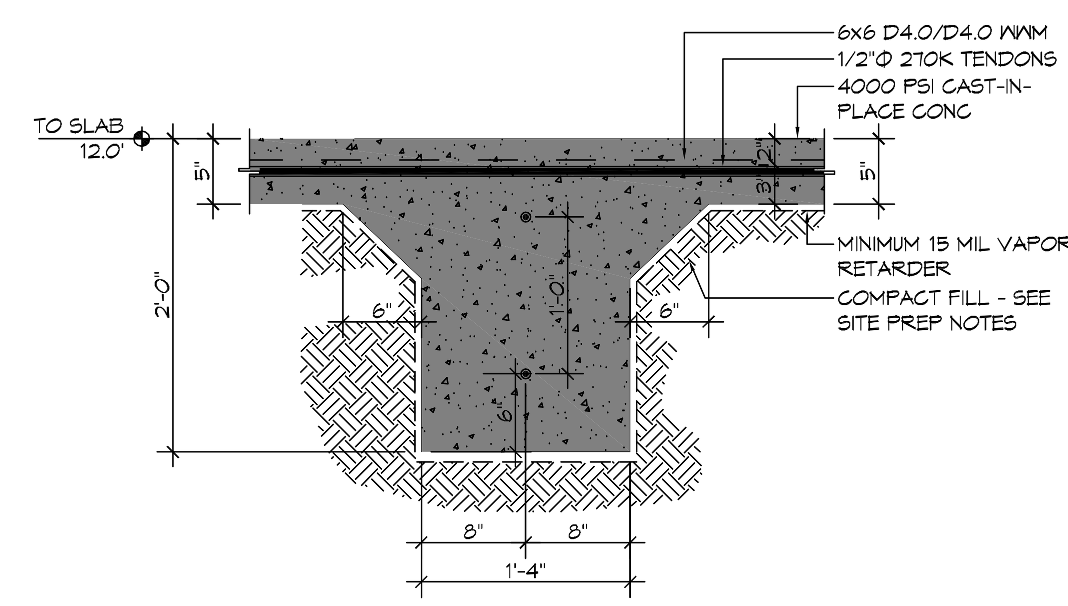

## EXTERIOR GRADE BEAM

A S102|S102 — SCALE: 1" = 1'-0" — FOUNDATION




## INTERIOR GRADE BEAM

B S102|S102 — SCALE: 1" = 1'-0" — FOUNDATION




## INTERIOR GRADE BEAM

C S102|S102 — SCALE: 1" = 1'-0" — FOUNDATION

## GENERAL SITE PREP NOTES

1. THIS DESIGN BASED ON INFORMATION PROVIDED BY SOILS ANALYSIS REPORT BY GILLEN GEO TECH, INC. ON APRIL 2, 1996.
2. THE GC SHALL REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS. THE EXPOSED SUBGRADE IN THE BUILDING AND PARKING AREAS SHALL BE PROOF-ROLLED WITH A RUBBER TIRED VEHICLE WEIGHING ABOUT 20 TONS. ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL.
3. CONTRACTOR SHALL OVER-EXCAVATE GRADE BEAMS AN ADDITIONAL 8" BELOW THE FINAL ELEVATION OF GRADE BEAM(S). CONTRACTOR SHALL PLACE STRUCTURAL FILL IN LIFTS OF NO MORE THAN 2 INCHES TO FORM BOTTOM OF GRADE BEAM AND SHALL COMPACT FILL TO WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN & RECORDED TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED. CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR TOOL TO ACHIEVE THE PROPER DEGREE OF COMPACTION.
4. THE STRUCTURAL FILL SHALL BE A-4 RIVER SAND OR BETTER AND SHALL BE PLACED IN MAXIMUM LIFTS OF FOUR (4) INCHES OF LOOSE MATERIAL, COMPACTED WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IF WATER MUST BE ADDED, IT SHALL BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN & RECORDED TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED. THE COMPACTED STRUCTURAL FILL SHALL EXTEND FIVE (5) FEET BEYOND THE PERIMETER OF THE BUILDING PRIOR TO SLOPING.
5. AFTER REMOVING SOILS TO FORM THE GRADE BEAM(S) USE A COMPACTION TOOL TO COMPRESS THE NATURAL SUBGRADE TO WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE.
6. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
7. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
8. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATIONS BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.

## FOUNDATION NOTES

1. THE INTENT OF THIS PLAN IS TO PROVIDE INFORMATION FOR PLACEMENT OF POST TENSION SYSTEM TENDONS, ONLY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, LEDGES, BLOCK OUTS, OFFSETS, ETC., SHOWN ON THESE PLANS.
2. BEAM SIZES AND LOCATIONS SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE ENGINEER, EXCEPT THAT BEAM DEPTH MAY BE EXTENDED TO REACH UNDISTURBED SOIL.
5. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE, EXTEND VAPOR BARRIER INTO BOTTOM OF GRADE BEAMS. OVERLAP ALL SPLICES WITH MINIMUM OF 12" AND TAPE ALL SPLICES. VAPOR RETARDER TO BE MINIMUM 15 MIL THICKNESS; ASTM E 1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP, ECOSHIELD-E 15 MIL BY EPRO, OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
6. IT IS RECOMMENDED THAT A CURING COMPOUND BE USED TO CONTROL CONCRETE SHRINKAGE.
7. WHERE ADDITIONAL REINFORCEMENT WITH REBAR IS USED IN FOOTINGS, IT SHALL CONFORM TO ASTM A615 AND SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. WOVEN WIRE FABRICS SHALL CONFORM TO ASTEM A185.
8. TENDONS AND BARS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE.
9. ALLOW 8" CENTERED CLEARANCE ON TENDON AXIS BY 36" LENGTH FOR STRESSING EQUIPMENT CLEARANCE.
10. CONCRETE SHALL BE WELL CONSOLIDATED ESPECIALLY IN THE VICINITY OF TENDON ANCHORAGES.
11. CONCRETE DESIGN IS BASED UPON A CONCRETE MIX HAVING A MINIMUM OF 5.3 SACKS OF CEMENT PER CUBIC YARD AND A MAXIMUM OF 30 GALLONS OF FREE AND ADDED WATER PER CUBIC YARD. SUCH A MIX SHOULD GIVE A MINIMUM COMPRESSION STRENGTH OF 4,000 P.S.I. AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH THE A.C.I. BUILDING CODE REQUIREMENTS.
12. POST-TENSION SYSTEM SHALL BE FURNISHED, PLACED, AND STRESSED BY A FIRM SPECIALIZING IN POST-TENSION SYSTEMS. POST-TENSION SUPPLIER SHALL BE PTI CERTIFIED. POST-TENSION CONTRACTOR SUPERVISOR AND 50% OF THE INSTALLATION PERSONNEL MUST BE CERTIFIED AS HAVING COMPLETED THE PTI LEVEL 1 - FIELD FUNDAMENTALS PROGRAM. ALSO, ALL PERSONNEL INVOLVED IN THE STRESSING OPERATION MUST BE CERTIFIED AS HAVING COMPLETED THE PTI LEVEL 1 - FIELD FUNDAMENTALS PROGRAM.
13. ALL PRESTRESSING STEEL SHALL CONSIST OF SEVEN-WIRE STRESS RELIEVED STRAND CONFORMING TO ASTM A-416. MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 270,000 P.S.I.. STRANDS SHALL BE COATED WITH A PERMANENT RUST PREVENTIVE LUBRICANT AND A PLASTIC SHEATH. TENDONS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE. NO TENDON SHALL BE UNSUPPORTED FOR MORE THAN 5 FEET.
14. REINFORCEMENT SHALL HAVE 3" COVER IN GRADE BEAM BOTTOMS, 2" COVER IN BEAM SIDES AND TOPS, 1-1/2" COVER IN SLAB TOPS AND BOTTOMS, UNLESS OTHERWISE SHOWN.
15. THE TENDON LOCATION AT THE END OF A GRADE BEAM IS TO BE A MINIMUM OF 6" FROM THE TOP OF THE SLAB TO THE CENTER OF GRAVITY OF THE TENDONS.
16. THE FINISH OF THE SLAB SHALL BE A LIGHT BROOM FINISH.
17. FORMWORK SHALL BE STRIPPED NO LATER THAN 6 DAYS AFTER PLACEMENT OF CONCRETE.
18. TENDONS TO BE STRESSED NO EARLIER THAN 7 DAYS AND NOT LATER THAN 14 DAYS AFTER PLACEMENT OF CONCRETE. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 P.S.I. AT THE TIME OF STRESSING. LOADING OF SLAB PRIOR TO TENSIONING SHALL NOT BE DONE WITHOUT THE APPROVAL AND DIRECTION OF THE SUPERVISING ENGINEER.
19. STRESSING:
   A) 1/2" TENDON SHALL BE ANCHORED AT 28.9K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 33.0K PER STRAND.
   B) 3/8" TENDON SHALL BE ANCHORED AT 16.1K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 18.4K PER STRAND.
   C) DOUBLE LIVE END TENDONS SHALL BE FULLY STRESSED AT THE INITIAL END. NO ADDITIONAL STRESSING REQUIRED IF PROPER ELONGATION HAS BEEN ACHIEVED.
20. TENDON FINISHING: AFTER WRITTEN ACCEPTANCE OF THE TENDON ELONGATION REPORT, TENDONS SHALL BE CUT BEYOND THE FACE OF THE SLAB. TENDONS WITH LESS THAN ¾" MAY BE COVERED WITH A PLASTIC TENDON SLEEVE. STRESSING POCKET SHALL BE PROMPTLY GROUTED WITH NON-SHRINK CEMENT BASED GROUT.
21. SLAB MUST BE FLOODED TO EXPOSE BIRDBATHS (AREAS THAT HOLD WATER). FLOOD SLAB, THEN ALLOW SLAB TO DRAIN FOR ONE (1) HOUR. MARK ALL BIRDBATHS THAT ARE GREATER THAN 1/8" (NICKEL DEPTH). ALL BIRDBATHS MUST BE PATCHED USING THE PATCH BINDER MIX. ALL AREAS THAT NEED PATCHING SHALL BE PRIMED FIRST. ADEQUATE PARTS OF PATCH BINDER, SILICA SAND, AND PORTLAND SHALL BE BLENDED TOGETHER AND APPLIED FOR A RESILIENT PATCH. ALL PATCHES SHALL BLEND INTO EXISTING SLAB. SOME SANDING MAY BE REQUIRED FOR BLENDING. FILL ALL CRACKS WITH APPROVED CRACK FILLER. BAD CRACKS MAY NEED TO BE COATED WITH ACRYLIC.

## LEGEND

→ SINGLE TENDON
→→ DOUBLE TENDON (STACKED VERTICALLY)

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REVISIONS

| # | DESCRIPTION | DATE |
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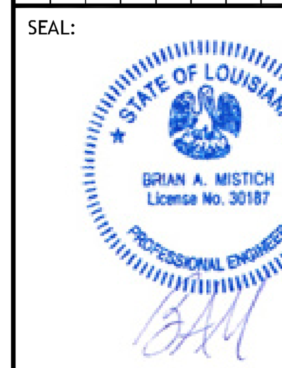


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SHEET TITLE: CARPORT FOUNDATION PLAN

DRAWING NUMBER: S102