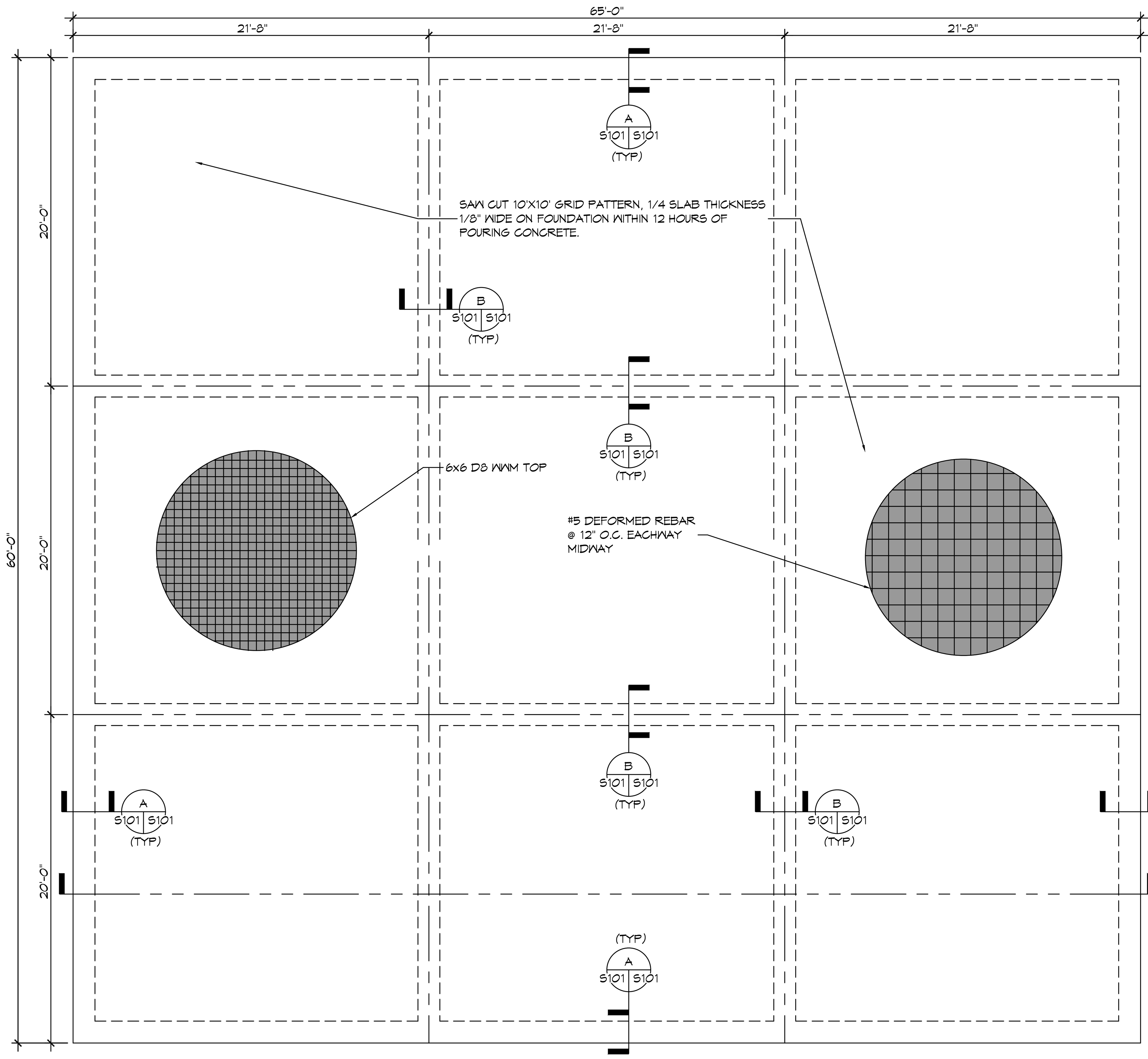
FILE NAME: J:\- Government\Air Force Base Bellchase\Current Drawings\S101 - Foundation Plan.dwg PLOT DATE & TIME: Thursday, February 6, 2025 5:42:19 AM




1 FOUNDATION PLAN

SCALE: 3/16"=1'-0"

## SITE PREP NOTES

THE SITE AND FOUNDATION WAS DESIGNED BASED ON A GEOTECHNICAL REPORT GENERATED BY STRATUM ENGINEERING DATED NOVEMBER 29, 2024. ALL SITE PREPARATION AND FOUNDATION CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.

2. THE GC SHALL EMPLOY THE GEOTECHNICAL ENGINEER TO MONITOR SITE CONDITIONS DURING THE PREP WORK OF THE SITE FOUNDATION. REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS, ACTUAL STRIPPING DEPTH SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER. THE EXPOSED SUBGRADE IN THESE AREAS SHALL BE PROOF-ROLLED WITH A RUBBER TIRED VEHICLE WEIGHING ABOUT 20 TONS; PROOF-ROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL.
3. THE STRUCTURAL FILL SHALL BE SELECT GRANULAR MATERIAL AND SHALL BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) 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. EACH LIFT OF COMPACTED STRUCTURAL FILL SHALL BE TESTED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN 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.
4. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
5. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB. VERIFY THAT ANY TREES THAT HAVE BEEN RECENTLY REMOVED IN THE AREA OF THE BUILDING, HAS HAD THE ENTIRE ROOT SYSTEM REMOVED.
6. 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.

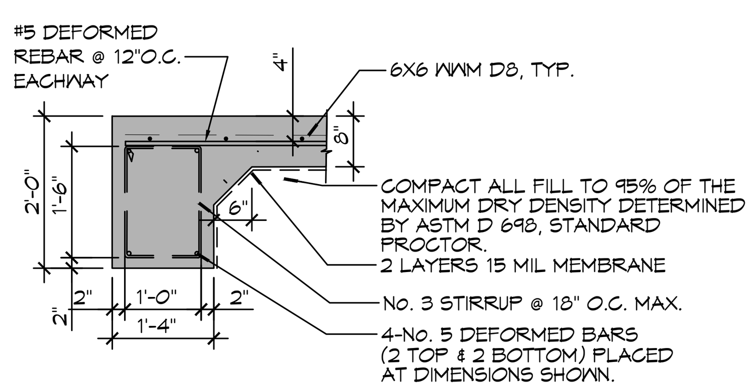
## FOUNDATION NOTES

1. THE INTENT OF THIS PLAN IS TO PROVIDE INFORMATION FOR PLACEMENT OF A CONVENTIONAL SLAB. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. ALL DIMENSIONS ARE EDGE OF CONCRETE (EOC) TO EDGE OF CONCRETE (EOC) UNLESS NOTED OTHERWISE.
2. ALL CONCRETE WORK (INCLUDING MIX DESIGN, FORM-WORK & MATERIALS SHALL COMPLY WITH ACI 301 & 318.
   - A. NORMAL WEIGHT STRUCTURAL CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 U.N.O.
   - B. ALL STRUCTURAL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
   - C. CONCRETE SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
   - D. IT IS RECOMMENDED THAT A CURING COMPOUND BE USED TO CONTROL SHRINKAGE.
   - E. CALCIUM CHLORIDE SHALL NOT BE USED FOR PRESTRESSED/POST-TENSIONED CONCRETE. ALL OTHER CONCRETE SHALL MEET THE REQUIREMENTS OF ACI 301 & 318 FOR WATER-SOLUBLE CHLORIDE-ION LIMITS.
   - F. TOTAL AIR CONTENT SHALL BE 5% FOR BROOM FINISH SURFACES. MAXIMUM AIR ENTRAINMENT FOR HARD-TROWELED FINISH SURFACES SHALL BE 3%. CONCRETE FOR HARD-TROWELED FINISH SURFACES SHALL NOT INCLUDE AIR ENTRAINING ADMIXTURES. (ACI 301 & 302)
   - G. CONTRACTOR SHALL THOROUGHLY CONSOLIDATE CONCRETE (ESPECIALLY AT ANCHORAGES AND DOWELS.
   - H. CONTRACTOR SHALL CURE CONCRETE IN ACCORDANCE WITH ACI-308 IMMEDIATELY AFTER FINISHING TO MINIMIZE THE APPEARANCE OF SHRINKAGE.
   - I. ALL FORM WORK SHALL BE IN ACCORDANCE WITH ACI-301.
   - J. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED BY THE CONTRACTOR, SUBJECT TO REVIEW BY THE OWNER'S ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEYED, WITH REINFORCING CONTINUOUS THROUGH THE JOINT.
3. REBAR & WWF REINFORCEMENT
   - A. ALL CONVENTIONAL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60) AND SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
   - B. MINIMUM CLEAR COVER FOR REBAR SHALL BE AS FOLLOWS (PER ACI 318:7.7)
     - (1) CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3" U.N.O.
     - (2) CONCRETE EXPOSED TO EARTH OR WEATHER:
       - (a) #6 to #18 = 2"
       - (b) #5, W31 WIRE, D31 WIRE OR SMALLER = 1-1/2"
     - (3) SLABS, WALLS OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
       - (a) #14 to #18 = 1-1/2"
       - (b) #11 OR SMALLER = 3/4"
   - C. PROVIDE CORNER BARS AT ALL BEAM CORNERS AND "T" INTERSECTIONS TO MATCH HORIZONTAL REBAR REINFORCEMENT.
   - D. MINIMUM LAP LENGTH OF EACH LEG 50 BAR DIAMETERS (SEE PROVIDED DETAIL).
   - E. ALL WOVEN WIRE FABRICS SHALL CONFORM TO ASTM A185. (FLAT SHEETS ONLY)
4. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. 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. WHEN INSTALLING MULTIPLE LAYERS OF VAPOR RETARDER, TO OBTAIN 15 MIL, PARALLEL SPLICE JOINTS SHALL BE NO CLOSER THAN 5 FT APART.
5. ALL REINFORCING STEEL AND MESH SHALL BE SUPPORTED AT A MAXIMUM OF 4 FT O.C. IN BOTH DIRECTIONS (THE USE OF CONCRETE BRICKS OF AN EQUAL OR GREATER COMPRESSIVE STRENGTH AS REQUIRED FOR THE SLAB IS ACCEPTABLE). ALL REINFORCEMENT STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
6. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BRICK LEDGES, DIMENSIONS AND CONFIGURATIONS. CONTRACTOR MUST BE RESPONSIBLE FOR SAME.
7. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE PER ACI 117 EXCEPT THAT SLAB ON GRADE THICKNESS AS SHOWN ON DRAWINGS SHALL BE THE MINIMUM THICKNESS. GRADE BEAM WIDTH DIMENSIONS MAY VARY BY -5%, +20%.
8. ALL SOIL BELOW SLAB SHALL RECEIVE TERMITE TREATMENT IN ACCORDANCE WITH SPECIFICATIONS.

## FOUNDATION STATISTICS

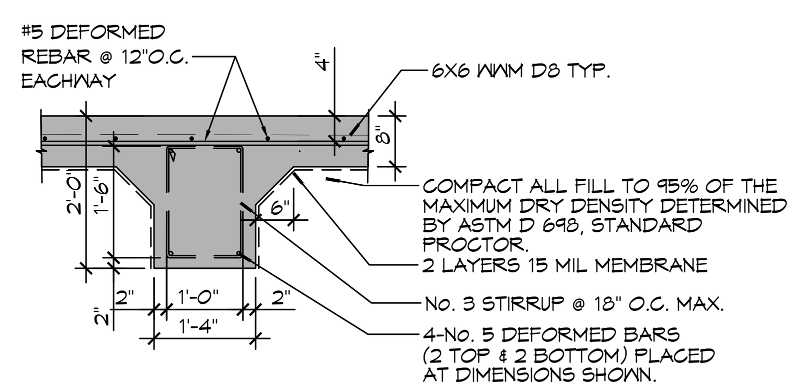
FOUNDATION AREA:

| | |
|---|---|
| BUILDING FOOTPRINT - | 60' x 65' |
| TOTAL FOUNDATION FOOTPRINT - | 3,900 SF |



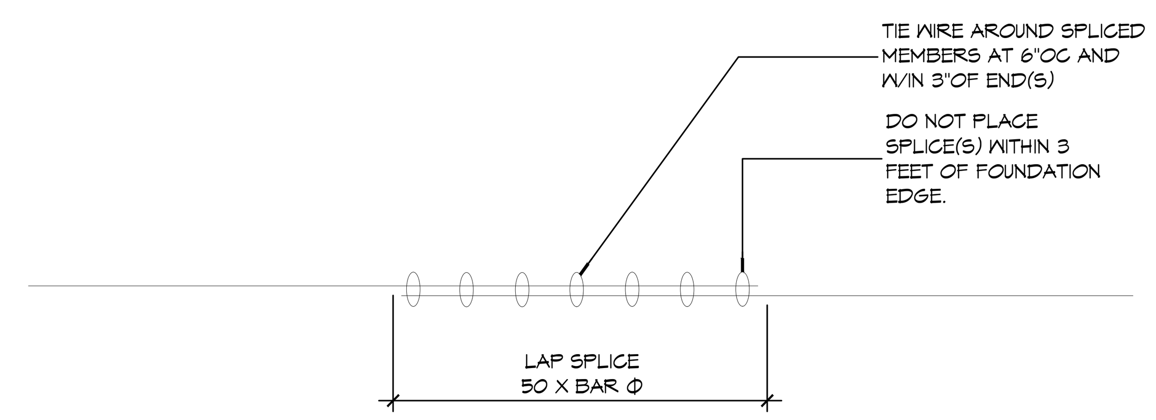

A SECTION (S101 | S101)

SCALE: 1/2"= 1'-0"




B SECTION (S101 | S101)

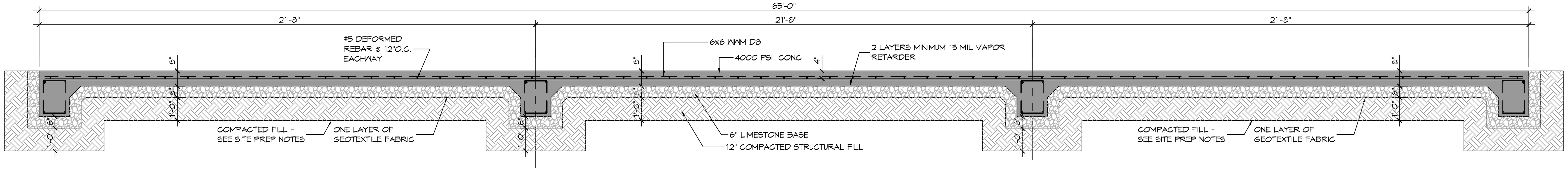
SCALE: 1/2"= 1'-0"




2 REBAR DETAIL (S101 | S101)

SCALE: 1" = 1'-0"

REBAR




C FOUNDATION SECTION (S101 | S101)

SCALE: 3/8" = 1'-0"

FOUNDATION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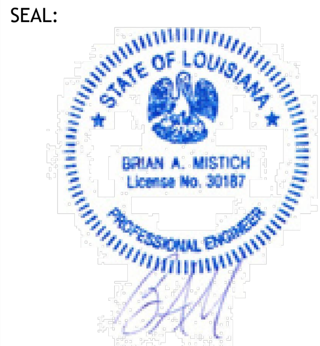
REVISIONS

| # | DESCRIPTION | DATE |
|---|---|---|

SEAL:




FOUNDATION PLAN

NAVAL AIR STATION JOINT RESERVE BASE

400 RUSSELL DR,
NEW ORLEANS, LA 70143

| | | | |
|---|---|---|---|
| JOB No: | 2024 | DATE: | 12-11-2024 |
| DRAWN BY: | CKD | CHECKED BY: | BAM |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SHEET TITLE:
FOUNDATION PLAN

DRAWING NUMBER:

# S101