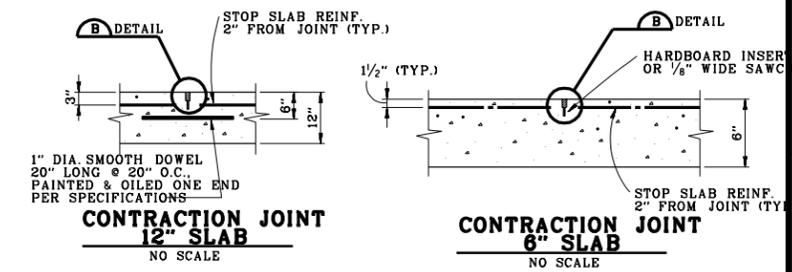
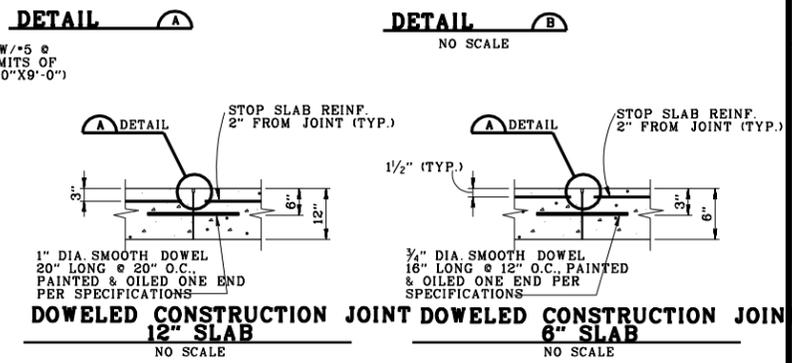
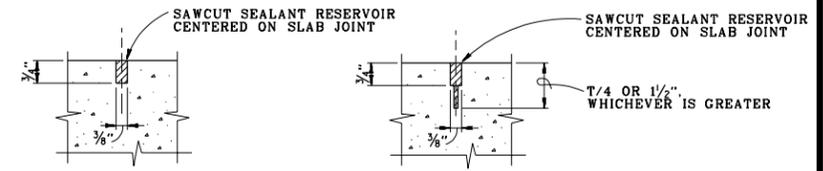


FOOTING SCHEDULE						
MARK	SIZE	FOOTINGS REINFORCING	BOTTOM OF FOOTING ELEVATION	PIERS - SEE SEC. 2 ON SHT. 3	PIERS REINFORCING	TIES
F1	6'-6" X 6'-6" X 12"	*5 @ 10" E.W.	**	12" X 20"	10#5 VERT. BARS	*3 TIES
F2	5'-6" X 5'-6" X 12"	*5 @ 10" E.W.	**	16" X 20"	10#5 VERT. BARS	*3 TIES



LAP SPLICE LENGTH (INCHES)	
BAR SIZE NO.	f'c = 4000 PSI
3	12
4	15
5	18
6	22
7	26

LAP SPLICE LENGTH FOR REINFORCED CONCRETE  
NOT ALL BAR SIZES LISTED MAY BE REQUIRED

**FOUNDATION AND SLAB PLAN**  
SCALE: 1/4" = 1'-0"  
12' 0" 5'

- GENERAL NOTES:**
- REFERENCE ELEVATION 100'-0" EQUALS \*\* MEAN SEA LEVEL ELEVATION.
  - SLAB-ON-GRADE CONTRACTION JOINTS ARE DENOTED "CJ" IN PLAN. AT CONTRACTOR'S OPTION, CONTRACTION JOINTS MAY BE SUBSTITUTED FOR CONTRACTION JOINTS. SEE THIS SHEET FOR SLAB-ON-GRADE AND JOINT DETAILS.
  - ALL FLOOR SLABS SHALL BE TREATED WITH A SEALER/HARDENER. SEE SPECIFICATION SECTION 03300.
  - SUBGRADE PREPARATION FOR SLABS SHALL BE PER THE FOUNDATION REPORT.
  - EXPANSION JOINTS ARE DENOTED "EJ" ON THE PLAN.
  - ALL FLOOR JOINTS IN THE PUMP ROOM AREA SHALL BE SEALED WITH JET FUEL RESISTANT SEALANT.
  - SLAB-ON-GRADE THICKNESS SHALL BE 12" UNLESS OTHERWISE NOTED. REINFORCE WITH #4 BARS @ 12" ON CENTER EACH WAY. SEE PIPE SUPPORT SCHEDULE FOR ADDITIONAL REINFORCEMENT BENEATH PIPE SUPPORTS.
  - SLAB-ON-GRADE THICKNESS IN THE CONTROL ROOM SHALL BE 6". REINFORCE WITH #3 BARS AT 18" ON CENTER EACH WAY.
  - MOTOR CONTROL CENTER TRENCH, APPROXIMATELY 12'-0" LONG. MAIN DISTRIBUTION SWITCHGEAR AND POWER CONTROL PANEL TRENCH APPROXIMATELY 5'-6" LONG. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT LENGTH OF TRENCH.
  - PUMP ROOM FLOOR SLAB SHALL BE SLOPED TO DRAINS AT 1/4" / FT. SEE PLAN.
- MATERIAL NOTES:**
- REINFORCED CONCRETE:
    - CONCRETE SPECIFIED COMPRESSIVE STRENGTH f'c = 4000 PSI
    - REINFORCING BARS: SPECIFIED YIELD STRENGTH Fy = 60 KSI (GRADE 60)
  - STRUCTURAL STEEL:
    - ROLLED SHAPES AND PLATES: SPECIFIED YIELD STRENGTH Fy = 36 KSI (ASTM A36)
    - STRUCTURAL TUBING: SHALL CONFORM TO ASTM A500, GRADE B.
  - WELDING ELECTRODES: ALL WELDING SHALL BE PERFORMED WITH E70 ELECTRODES.
  - ANCHOR BOLTS: SHALL CONFORM TO ASTM A307.
  - BOLTED CONNECTIONS: SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.
  - HEADED ANCHOR STUDS: SHALL CONFORM TO ASTM A108.
  - SEE MASONRY NOTES ON SB.1.

- PRE-ENGINEERED METAL BUILDING NOTES:**
- PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED ACCORDING TO THE METAL BUILDING MANUFACTURERS' ASSOCIATION (MBMA) LOW RISE BUILDING SYSTEMS MANUAL, 1986 EDITION STANDARDS USING THE FOLLOWING CRITERIA:
    - BUILDING USE CATEGORY III. SEE MBMA COMMENTARY SECTION C7.3.
    - EQUATION C5-1 FOR SEISMIC IMPORTANCE FACTOR AND COMMENTARY UPON THE FOLLOWING CRITERIA CONCERNING THE PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE:
      - MINIMUM DESIGN ROOF LIVE LOAD: (CONSTRUCTION AND MAINTENANCE) - A. FUTURE EXPANSIONS OR ADDITIONS TO THIS BUILDING ARE NOT CONSIDERED.
      - FRAMING AT LINES 1 THRU 4 CONSIST OF CLEAR-SPAN RIGID FRAMES.
      - CROSS BRACING SHALL BE PROVIDED IN COLUMN LINES A & D.
      - DOWNWARD AND UPLIFT REACTIONS, AS WELL AS LATERAL LOADS PERPENDICULAR TO THE FOUNDATION WALLS ARE CARRIED BY SPREAD FOOTINGS.
      - LATERAL LOADS PARALLEL TO THE FOUNDATION WALLS ARE CARRIED BY THE FOUNDATION SYSTEM.
      - ROOF WILL BE X-BRACED AS REQUIRED FOR LATERAL STABILITY.
  - MINOR VARIATIONS IN THE BUILDING'S DIMENSIONS (DENOTED BY AN ASTERISK, \*) MAY BE SUBMITTED FOR REVIEW AND POSSIBLE APPROVAL IF REQUIRED TO CONFORM TO AN INDIVIDUAL BUILDING SUPPLIER'S STANDARDS.
  - FOR ALLOWABLE FOUNDATION LOADS AT COLUMN LOCATIONS, REFER TO FRAME REACTION TABLE ON SHEET SS.1. IF ACTUAL BUILDING LOADS EXCEED THOSE LISTED, PRE-ENGINEERED BUILDING SUPPLIER SHALL BE RESPONSIBLE FOR REQUIRED FOUNDATION RE-DESIGN AND MODIFICATION. BUILDING SUPPLIER SHALL SUBMIT FOUNDATION LOADS FOR REVIEW AND APPROVAL.
  - ANCHOR BOLT DESIGN AND REQUIREMENTS SHALL BE COORDINATED BETWEEN THE PRE-ENGINEERED METAL BUILDING SUPPLIER AND THE PRIMARY CONTRACTOR. CONTRACTOR SHALL SUBMIT DESIGNS FOR REVIEW AND APPROVAL.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND PLACING BUILDING X-BRACING AND OTHER STRUCTURAL MEMBERS SUCH THAT THEY DO NOT INTERFERE WITH DOORS, LOUVERS, FANS, HOODS, AND OTHER MECHANICAL AND ELECTRICAL ITEMS LOCATED ALONG THE BUILDING'S WALLS AND ROOF.
- THE BUILDING FOUNDATION WAS DESIGNED BASED UPON THE FOLLOWING CRITERIA CONCERNING THE PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE:
  - FUTURE EXPANSIONS OR ADDITIONS TO THIS BUILDING ARE NOT CONSIDERED.
  - FRAMING AT LINES 1 THRU 4 CONSIST OF CLEAR-SPAN RIGID FRAMES.
  - CROSS BRACING SHALL BE PROVIDED IN COLUMN LINES A & D.
  - DOWNWARD AND UPLIFT REACTIONS, AS WELL AS LATERAL LOADS PERPENDICULAR TO THE FOUNDATION WALLS ARE CARRIED BY SPREAD FOOTINGS.
  - LATERAL LOADS PARALLEL TO THE FOUNDATION WALLS ARE CARRIED BY THE FOUNDATION SYSTEM.
  - ROOF WILL BE X-BRACED AS REQUIRED FOR LATERAL STABILITY.
- FOUNDATION DETAILS SHOWN ARE TYPICAL FOR AN ENCLOSED PUMP HOUSE WHERE DESIGN FOR FROST IS A CONSIDERATION. ALTERNATE FOUNDATION DETAILS MAY BE PREFERRED FOR OPEN PUMP SHELTERS OR IN LOCATIONS WHERE A SLAB WITH A THICKENED EDGE MAY BE SUITABLE.
- A SUBSURFACE INVESTIGATION WILL BE PERFORMED AND A FOUNDATION ANALYSIS WILL BE PREPARED. FOUNDATION DESIGN AND SUBGRADE PREPARATION WILL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE FOUNDATION ANALYSIS.
- THE FOUNDATION MUST BE DESIGNED FOR THE LOADS IMPOSED BY THE METAL BUILDING. FOUNDATION DESIGN LOADS MUST BE SHOWN ON THE DRAWINGS FOR VERIFICATION AND COORDINATION.
- SITE SPECIFIC DESIGN CRITERIA INCLUDING DESIGN LOADS (DEAD, LIVE, COLLATERAL, WIND, SNOW, CRANE AND SEISMIC) AND THE RECOMMENDATIONS OF THE FOUNDATION REPORT (ALLOWABLE BEARING PRESSURES, TYPE OF FOUNDATION, SOIL DENSITY, AND LATERAL EARTH PRESSURE COEFFICIENTS) SHALL BE SHOWN ON THE CONTRACT DRAWINGS.
- THE STRUCTURE IS CLASSIFIED AS ESSENTIAL PER AFM 88-3, CHAPTER 1.

**\$\$ - THINK VALUE ENGINEERING - \$\$**

REVISIONS			
SYMBOL	DESCRIPTIONS	DATE	APPROVED

ROBERT AND COMPANY 96 POPLAR ST., N.W. ATLANTA, GA 30335	US ARMY ENGINEER DISTRICT CORPS OF ENGINEERS DUMFRIES, NE	AIR FORCE C.E. SUPPORT AGENCY 139 BARNES DRIVE, SUITE #1 TYNDALL AFB, FL 32483-5319
DESIGNED BY: G. M. J.	<b>AIR FORCE STANDARDS PRESSURIZED HYDRANT FUELING SYSTEM TYPE III</b>	
DRAWN BY: G. M. J.	<b>FOUNDATION AND SLAB PLAN</b>	
CHECKED BY: B. N. H.	REVIEWED BY: B. N. H.	DATE: REV. #1 NOV. 1998
SUBMITTED BY: CHIEF, STRUC. SECTION	PLOT SCALE RATIO: 4:1 DESIGN FILE: SD18S201.DGN SPEC. NO.:	DRAWING CODE: AW 78-24-28
	78-24-28-88	SHEET NUMBER: S2.1