

**DAMMON ENGINEERING, INC.**

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ARCHITECTURE  
ENGINEERING  
STUDIES  
PLANNING  
INVESTIGATION  
EXPERT WITNESS

**RAIN FOREST CARWASH**

3017  
PONTCHARTRAIN  
DRIVE  
SLIDELL, LA  
70458

**FOUNDATION PLAN**

REV:

SCALE: AS NOTED

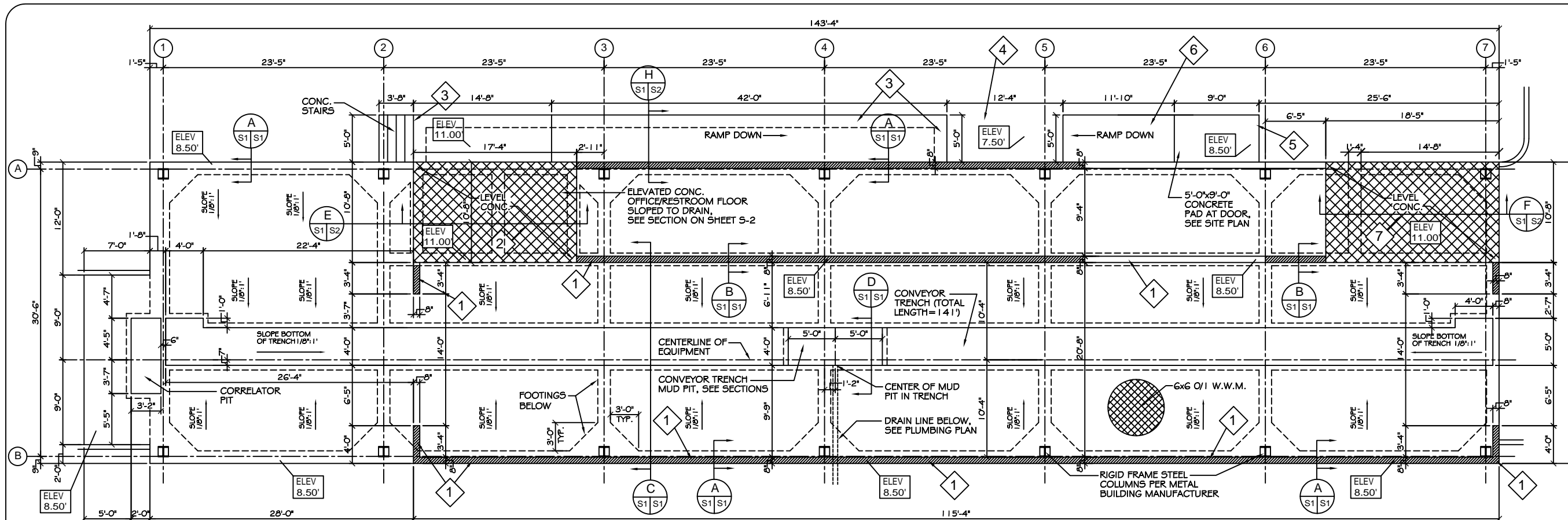
JOB#: 2085

DATE: 03-23-11

SHEET 12

**S-1**

OF 25



**GENERAL FOUNDATION NOTES**

1. THE CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI-318.
2. ALL CONVENTIONAL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
3. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE 15 MIL STRENGTH; 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.
4. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
5. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BRICK LEDGES, DIMENSIONS AND CONFIGURATIONS. CONTRACTOR MUST BE RESPONSIBLE FOR SAME.
6. GRADE BEAM SIZES MAY VARY BY -5%, +20%.
7. ALL SUB GRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6" LIFTS.
8. A MINIMUM OF 6" CONCRETE SHALL BE MAINTAINED THROUGHOUT THE SLAB.
9. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
10. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
11. 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.
12. NEW SPREAD CONCRETE FOOTINGS AND CONTINUOUS FOOTINGS, BEARING ON COMPACTED STRUCTURAL FILL AT LEAST 2 FEET BELOW FINISHED GRADE, SHOULD BE DESIGNED FOR MAXIMUM NET ALLOWABLE BEARING PRESSURES OF 1,200 PSF AND 2,000 PSF, RESPECTIVELY, BASED ON DEAD LOADS AND DESIGN LIVE LOADS.
13. BASED ON THE RESULTS OF THE FIELD AND LABORATORY TEST AND THE ANTICIPATED FOUNDATION LOADS, ESTIMATED MAXIMUM FOUNDATION SETTLEMENTS SHOULD NOT EXCEED 1/4 INCH. DIFFERENTIAL SETTLEMENT IS ESTIMATED TO BE LESS THAN 1/4 INCH.
14. TREAT SOIL BELOW SLAB FOR TERMITES.
15. THIS DESIGN IS BASED ON ASSUMED LOADING CONDITIONS AND WILL BE REVIEWED ONCE BLDG. REACTIONS ARE PROVIDED TO ENGINEER.
16. METAL BLDG. MFR. TO PROVIDE WIND LOAD REACTIONS TO ENGINEER.

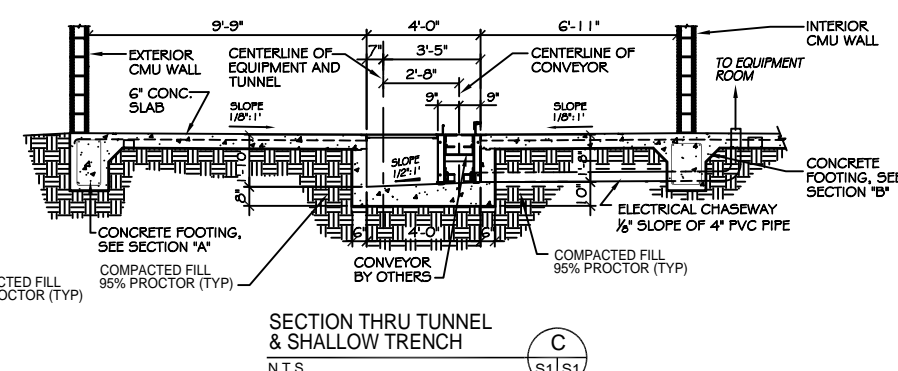
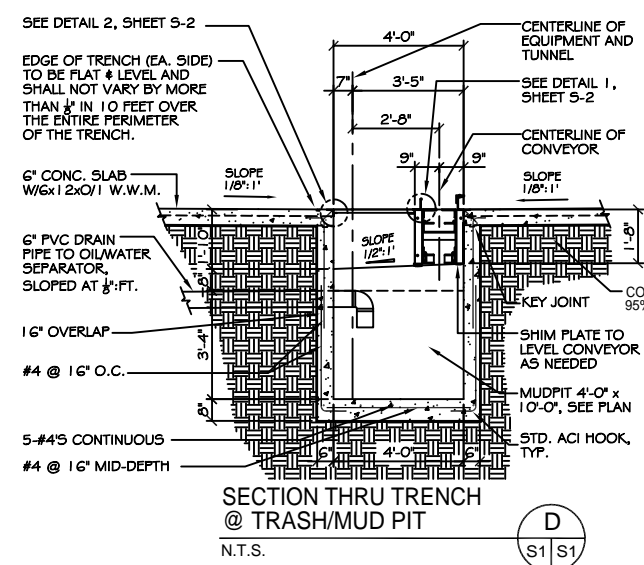
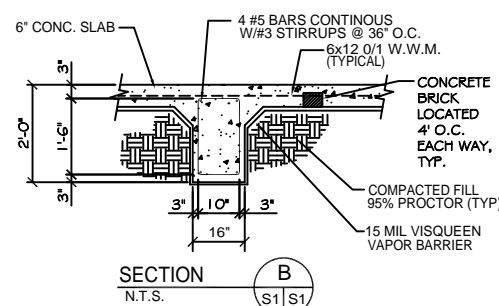
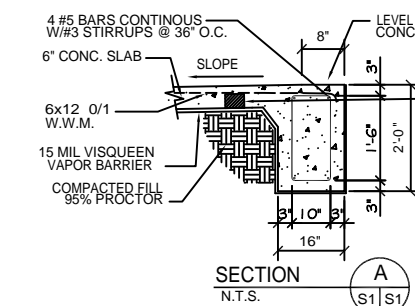
**FOUNDATION PLAN**

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



**SPECIAL FOUNDATION NOTES #**

1. HATCHED AREA INDICATES CONTINUOUS 8" WIDE LEVEL TOP OF SLAB FOR CMU WALL BASE. ELEVATION 8.50'. BEGIN SLOPE OF CONCRETE SLAB TO TRENCH DRAIN BEYOND THE 8" LEVEL STRIP AS SHOWN ON PLANS.
2. HATCHED AREA INDICATES LEVEL TOP OF SLAB FOR OFFICE AND TOILET ROOM AREAS. ELEVATION 8.50'. FINISHED FLOOR ELEVATION FOR THESE AREA SHALL BE 11.0' SEE DETAIL ON SHEET C-2 FOR BUILT UP CHAIN WALL AND ELEVATED SLAB IN THIS AREA.
3. FOOTING FOR HCP RAMP TO ELEVATED TOILET ROOM AREA. SEE SECTION ON SHEET C-2 FOR DETAILS.
4. LEVEL LANDING AT BASE OF HCP RAMP. ELEVATION 7.50'. LEADS TO VACUUM AREA. COORDINATE WITH SHEET C-2
5. LEVEL LANDING AT MECHANICAL ROOM DOOR. ELEVATION MAX 1/2" BELOW T.O.S. (8.50')
6. RAMP FOR MECHANICAL ROOM ACCESS ONLY.
7. HATCHED AREA INDICATES LEVEL TOP OF SLAB FOR ELEVATED MECHANICAL ROOM AREA. SLAB ELEVATION 8.50'. SEE DETAIL ON SHEET S-2 FOR BUILT UP MECHANICAL ROOM CHAIN WALL AND ELEVATED MECHANICAL ROOM SLAB.



NOTE:  
COORDINATE WITH EQUIPMENT MANUFACTURER DRAWINGS AND PROVIDE ELECTRICAL, CONDUIT, WIRING, AND PLUMBING REQUIREMENTS PRIOR TO COMMENCING ANY WORK.