

STRUCTURAL NOTES

GENERAL NOTES

- THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2006 INT. BUILDING CODE. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING & SITE DRAWINGS. CONSULT THESE DRAWINGS FOR INFORMATION NOT SHOWN IN THE STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE EXECUTING ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE UNDER ALL SERVICE LOADS. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE A.C.I. CODES AND SPECIFICATIONS. THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL COMPONENTS.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION COMPLIES WITH OSHA REQUIREMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IF ANY DETAILS OR CONDITIONS DO NOT MEET OSHA REQUIREMENTS FOR FABRICATION.

DESIGN LOADS

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT LOCAL BUILDING CODE. THE FOLLOWING SUPERIMPOSED LOADS HAVE BEEN UTILIZED:

MAIN FLOOR LIVE LOADS = 40 psf (Assembly)
40 psf (All other areas)

ROOF LIVE LOAD = 20 psf

DEAD LOAD = 15 psf (Includes Colored Loads)

SNOW LOADS:

Ground Snow Load (Pg) 25 psf
Exposure Factor (Ce) 1.0
Thermal Factor (Ct) 1.0
Importance Factor (I) 1.1
Flat Roof Snow Load (P) 19.25 psf

WIND LOADS:

Basic Wind Speed 90 mph
Importance Factor: 1.15
Exposure Category: C
Wind Pressure: 22.07 psf

SEISMIC LOADS:

So 17.5%g
S1 5.8%g
S2 1.25

Seismic Importance Factor: II

Use Group: B

Design Category: D

Site Class: D

Seismic Restraint System: Light frame walls w/shear panels

BASIC MATERIALS STANDARDS

ALL BUILDING COMPONENTS AND CLADDING ELEMENTS ARE TO BE DESIGNED BY THE MANUFACTURERS ENGINEER FOR WIND LOADING BASED ON APPLICABLE BUILDING CODES.

A. CONCRETE
fc = 3,000 psi (Reg. Wt.)
ASTM A-665, Grade 60 and ASTM A-706 where welding of reinforcing is required

B. REINFORCING STEEL
ASTM A-618

C. WELDED WIRE FABRIC
ASTM A-36 U.N.O.
ASTM A-992/A572-50 or all beams & columns not provided by M.B. Supplier

D. WELDED WIRE FABRIC
Fy = 46 KSI UNDER ASTM A-500, GRADE B

E. STRUCTURAL TUBING
ASTM A-500, Fy = 46 KSI

F. STRUCTURAL PIPE
ASTM A-500, Fy = 46 KSI

G. BOLTS
ASTM A-325

H. WELD ELECTRODES
E70

I. STEEL DECK
ASTM A-611 (95,000 psi min.)
3,000 psi normal weight for any block

J. MASONRY
ASTM C90-00, fm = 500 psi min., ft = 1500 psi normal weight for any block

K. ANCHOR RODS:
ASTM F1554 (Gr. 36) w/ASTM A-563 heavy hex nut (U.N.O.)

L. EXPANSION BOLTS:
HLT XHW BOLT 11 (or eqvt)

M. EPOXY ANCHORS:
HLT HVA ANCHORING SYSTEM (or eqvt)

N. EPOXY ANCHORS:
Fy = 33 ksi UNDER ASTM A-663 STEEL

FOUNDATIONS

1. SOIL-BEARING CAPACITY AND PROPERTIES SHALL BE VERIFIED BY A REGISTERED GEOTECHNICAL SOILS ENGINEER AT THE TIME OF EXCAVATION. IF, AFTER EXCAVATION THE CONDITION OF THE SOIL INDICATES A SOIL BEARING CAPACITY OF LESS THAN 2500 psf THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY & THE FOOTINGS MAY BE REVISED IF NECESSARY. CONSULT GEOTECHNICAL ENGINEER FOR RECOMMENDATIONS.

2. A REGISTERED SOILS ENGINEER SHALL VERIFY ALLOWABLE DESIGN SOIL BEARING CAPACITY, SUBGRADE FILL BACK-FILL AND SOIL DESIGN PROPERTIES PRIOR TO CONSTRUCTION OF BUILDING FOUNDATION.

3. FOUNDATION WAS DESIGNED FOR THE FOLLOWING DESIGN PROPERTIES:

ALLOWABLE BEARING PRESSURE: 2500 psf

CAST-IN-PLACE CONCRETE

1. EACH TYPE OF CONCRETE SHALL HAVE A MIX DESIGN SUBMITTED FOR APPROVAL. SUBMIT TESTED STATISTICAL BACK-UP DATA PER A.C.I. REQUIREMENTS FOR EACH MIX DESIGN. CONCRETE MIX DESIGN SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

2. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY COMPRESSIVE STRENGTH:

- a. NORMAL WEIGHT CONCRETE (M5 LB/CF): 3,000 PSI
- b. SUB-GRADE: 3,000 PSI

3. CONCRETE SHALL BE PLACED, CURED & CONFORM TO A.C.I. STANDARDS & SPECIFICATIONS.

REINFORCEMENT - CONCRETE

- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED WELDED WIRE FABRIC SHALL CONFORM TO ASTM A615 AND SHALL BE LAPPED A MINIMUM OF 8". PROVIDE W.W.F. IN SHEETS, NOT ROLLS.
- DEFORM BAR ANCHORS (DBA'S) SHALL CONFORM TO ASTM A496. DBA'S SHALL BE AUTOMATICALLY MACHINE WELDED PER MANUFACTURERS RECOMMENDED PROCEDURES. EQUIPMENT: FLUX, ETC.
- REINFORCEMENT SHALL BE FREE FROM OIL, SCALE, AND RUST. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF A.C.I. STANDARDS AND SPECIFICATIONS. U.N.O. AND SPACING AS VERTICAL, VERTICAL, REINFORCING.
- ALL REINFORCEMENT AND EMBEDS SHALL BE SECURELY PLACED PRIOR TO PLACING CONCRETE.
- CONTINUOUS BARS LOCATED IN TURN DOWN SLABS, THICKENED SLABS, AND CONTINUOUS STRIP FOOTINGS SHALL HAVE 3/8" BAR DIAMETER LAP SPICE. ALL OTHER CONTINUOUS BARS SHALL BE LAP SPICED PER THE REINFORCING STEEL SPICE REFERENCE TABLE. PROVIDE CORNER BARS AT CORNERS AND INTERSECTIONS. PROVIDE TWO (2) #4 BARS x 4'-0" AT ALL REINFORCING CONTIGUOUS IN SLABS.
- REINFORCING SHOP DRAWINGS SHALL INCLUDE SECTIONS AND ELEVATIONS (WRITTEN DESCRIPTION IS NOT ACCEPTABLE).

CONCRETE TESTING

- AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST-IN-PLACE CONCRETE:
- SUMP PER ASTM C143. TO BE TAKEN WHEN EACH SET OF CYLINDERS IS PREPARED. SLUMP RANGE SHALL BE 4" TO 6" INCHES.
- COMPRESSIVE STRENGTH PER ASTM C39 & ASTM C39. A SEPARATE TEST SHALL BE REQUIRED FOR EACH 8" x 8" x 16" CYLINDER IN ANY DAY. FOR EVERY 50 CUBIC YARDS OR EVERY 5,000 SF OF SURFACE AREA. BREAK (1) CYLINDER @ SEVEN DAY, TWO (2) CYLINDERS AT TWENTY-EIGHT DAYS, AND HOLD A CYLINDER IN RESERVE. RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER IF REQUIRED.
- AIR CONTENT PER ASTM C231 & C773. TO BE TAKEN EACH TIME A SET OF CYLINDERS IS PREPARED.

6. CONSTRUCTION AND/OR CONTROL JOINTS SHALL BE PROVIDED IN SLAB-ON-GRADE SO THAT THE MAXIMUM SPACING OF JOINTS BETWEEN JOINTS SHALL NOT EXCEED 50'-0". THE MAXIMUM JOINT SPACING SHALL NOT EXCEED 15'.

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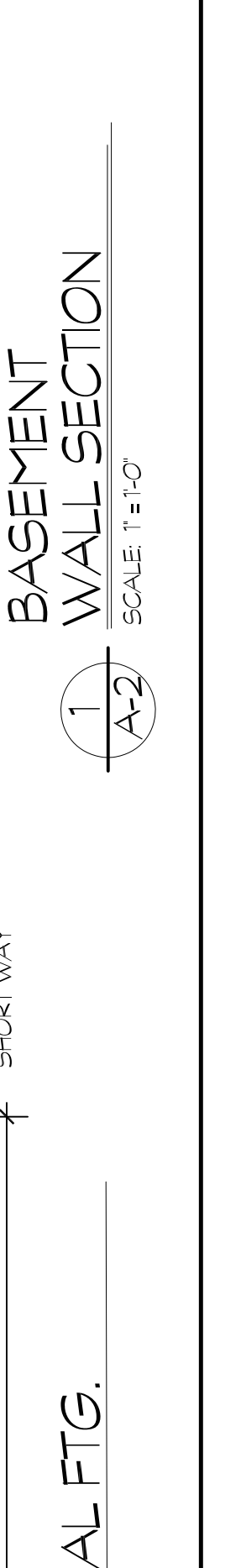
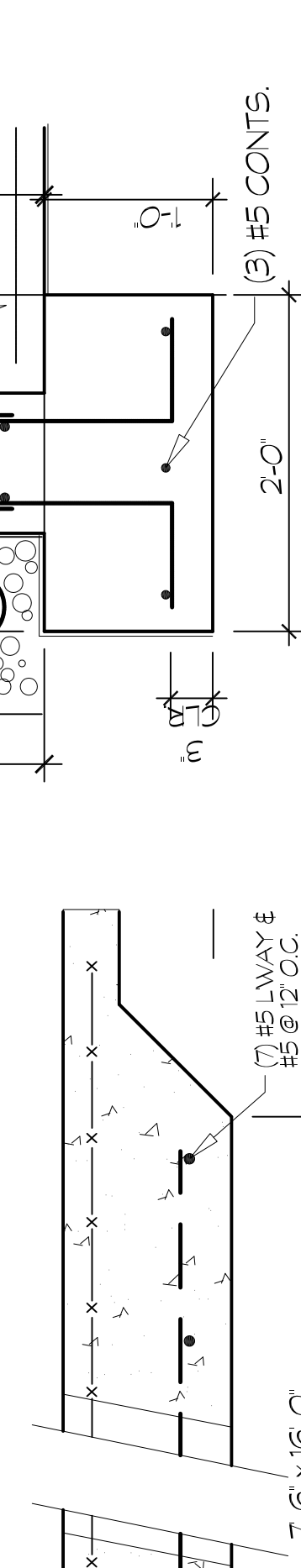
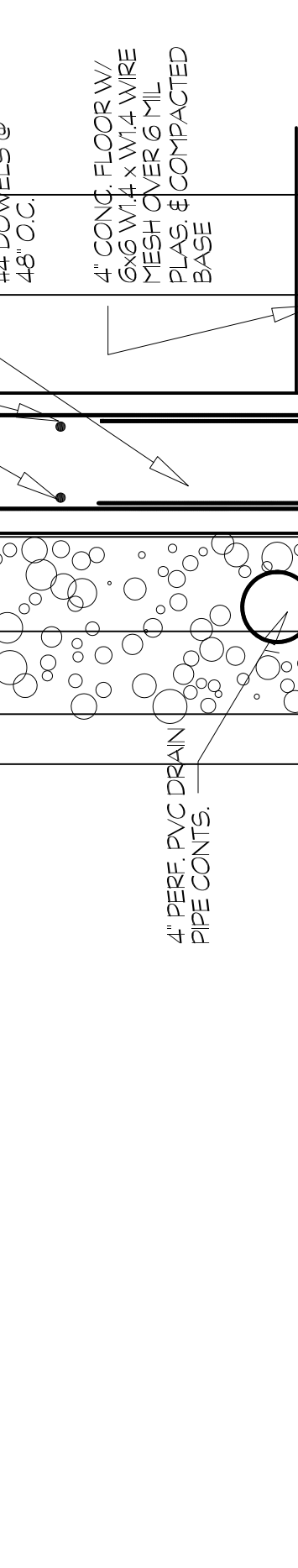
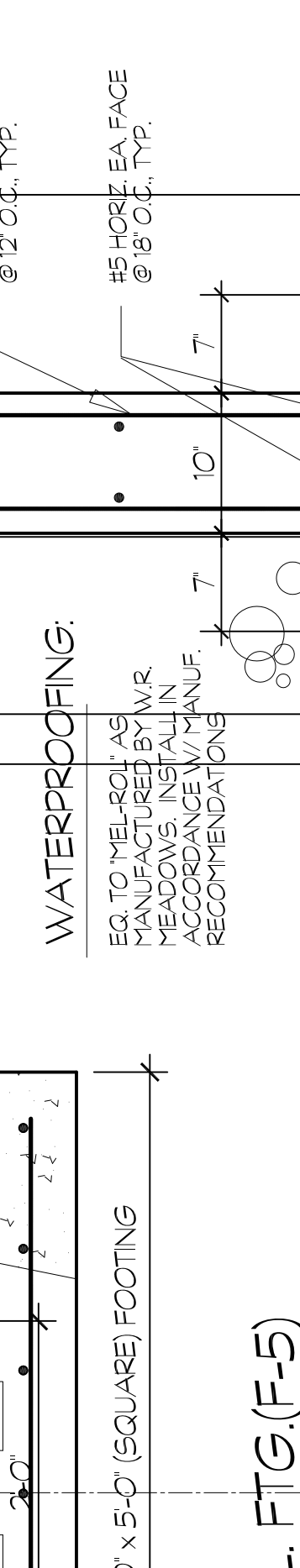
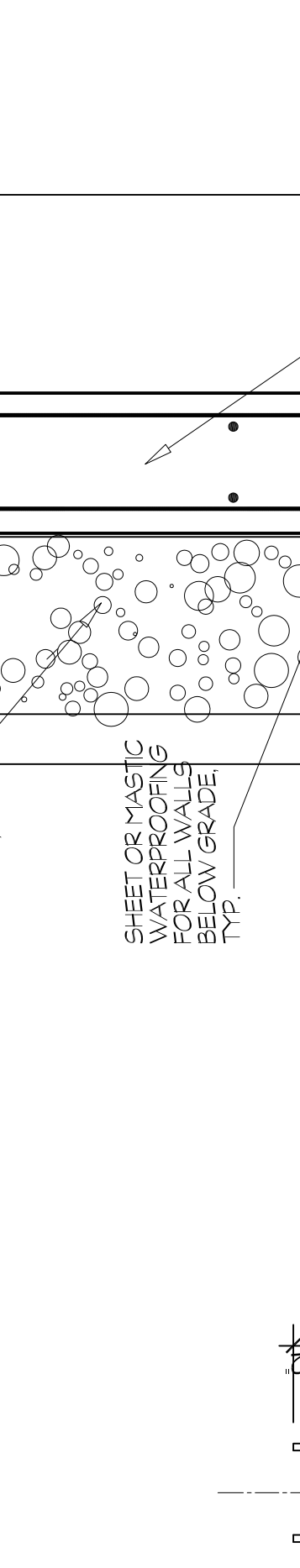
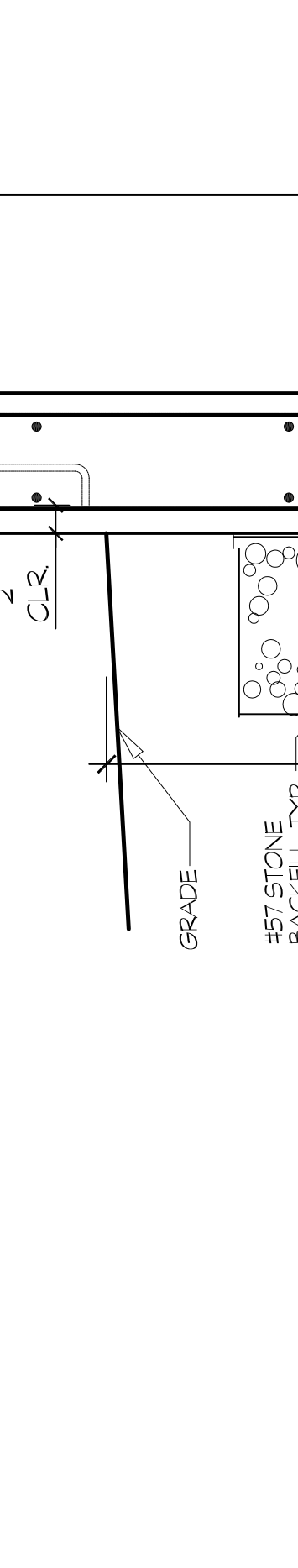
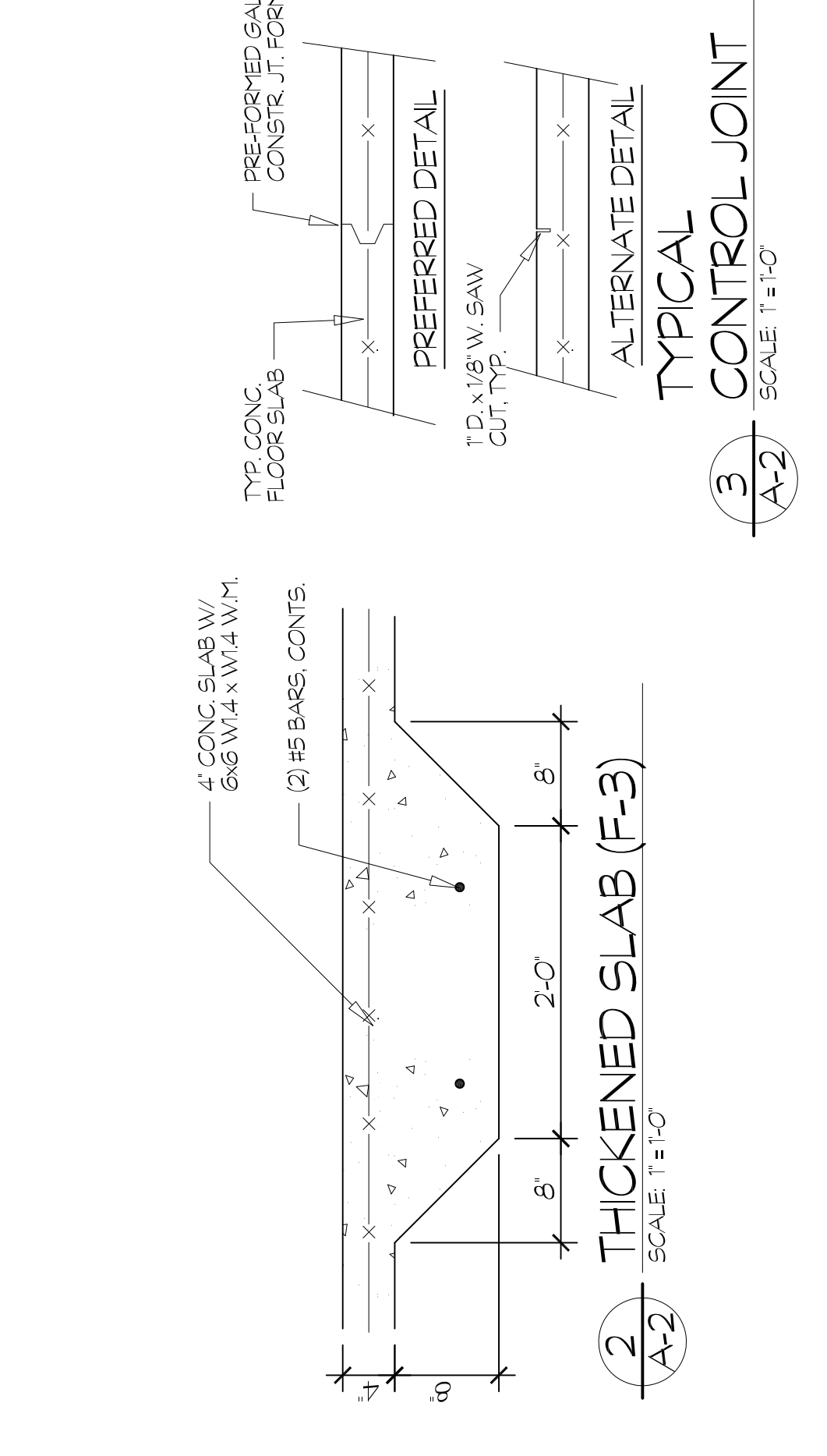
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new facility for:
washington seventh day baptist church
CRITTENDEN @ 16TH WASHINGTON, D.C.

project no: 2K70609
drawn by: RICK
check by: RICK
date: AUG. 18, 2008
scale: AS SHOWN
sheet no: A1

6/11/09

DISTRICT OF COLUMBIA
RICK A. JACK
APR 10 10 31 AM '09
REGISTERED ARCHITECT

THE DESIGN AND CONSTRUCTION OF THIS DRAWING IS THE SOLE PROPERTY OF THE ARCHITECT. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT & ENGINEER.

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