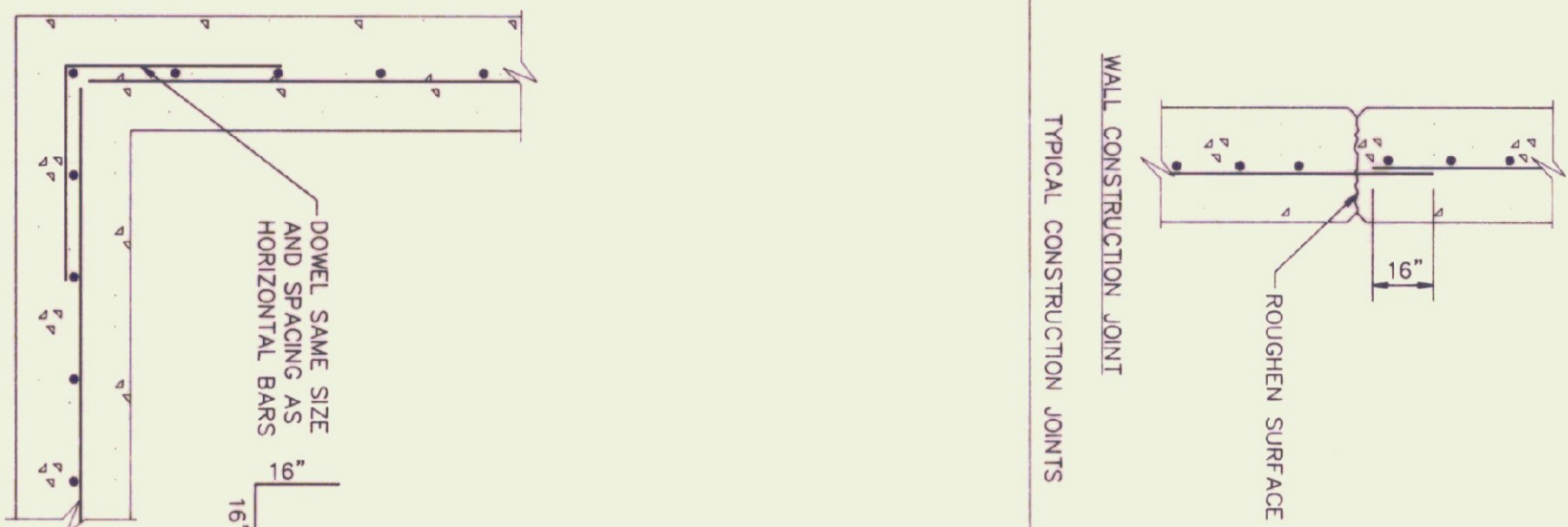
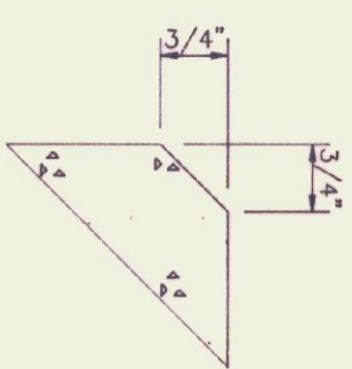


STRUCTURAL NOTES

1. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:  
STRUCTURAL SHAPES  
ASTM A36, Fy = 50,000 PSI  
BOLTS  
ASTM A325  
TUBE STEEL COLUMNS  
Fy = 46 KSI
2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND THE SPECIFICATIONS.
3. ALL SHOP CONNECTIONS SHALL BE BOLTED OR WELDED. ALL FIELD CONNECTIONS SHALL BE WELDED. ALL WELDS SHALL BE SPECIFICALLY CALLED FOR. BOLTS SHALL BE 3/4" MINIMUM WITH OPEN HOLES 1/16" LARGER, EXCEPT FOR COLUMN GROUT LEVELER PLATES WHICH ARE 3/16" LARGER, AND COLUMN BASE PLATES WHICH ARE 5/16" LARGER. CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS OR THOSE GIVEN IN ORIGINATOR. THE STRUCTURAL STEEL FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS.
4. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 2 MILS DRY FILM THICKNESS) WITH AN APPROVED RUST INHIBITIVE PRIME PAINT. STEEL SHALL BE THOROUGHLY CLEANED PRIOR TO PAINTING. THE CONTRACTOR SHOULD HAVE AVAILABLE THE EXACT SAME PAINT FOR FIELD TOUCH UP.
5. THERE WILL BE NO FIELD BURNING, CUTTING, OR OTHER ALTERATIONS OF STRUCTURAL STEEL WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
6. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL NECESSARY BRACING, CABLES, GIVING & SHORING REQUIRED TO ERECT AND HOLD THE STEEL FRAME PLUMB AND SQUARE UNTIL ALL OTHER STRUCTURAL COMPONENTS ARE INSTALLED. THE BRACING SHOULD BE DESIGNED TO SUSTAIN ANY WIND LOADS.
7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (ONE REPRODUCIBLE PRINT AND ONE ORIGINAL) TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING ITEMS:  
STRUCTURAL STEEL  
REINFORCING STEEL
8. IT IS REQUIRED THAT THE STRUCTURAL STEEL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. PHOTO COPYING OF THESE STRUCTURAL DRAWINGS WILL NOT BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER.



DETAIL  
TYPICAL CORNER REINFORCING  
SCALE: NONE  
20



DETAIL  
TYPICAL CHAMFER  
SCALE: NONE  
19

CONCRETE NOTES

1. ALL CONCRETE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS SUCH AS SITE, ARCHITECTURAL, ELECTRICAL AND MECHANICAL AND ANY SPECIFICATIONS ISSUED BY THE OWNER, ENGINEER, OR MANUFACTURER.
2. CONCRETE USED ON THE PROJECT SHALL BE NORMAL WEIGHT AND MEET REQUIREMENTS OF CURRENT GUIDELINES BY ACI AND MEET THE FOLLOWING REQUIREMENTS:  
A. A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 POUNDS PER SQUARE INCH.  
B. BE MADE WITH TYPE II PORTLAND CEMENT, ASTM C150, USING A MINIMUM OF 5 1/2 SACKS PER CUBIC YARD OF CONCRETE.  
C. BE MADE WITH PORTABLE WATER. THE WATER-CEMENT RATIO IS TO BE 0.60 FOR ALL CONCRETE.  
D. AGGREGATE TO MEET THE REQUIREMENTS OF ASTM C33. MAXIMUM AGGREGATE SIZE TO BE 1 INCH.  
E. SLUMP TO RANGE BETWEEN 3 INCHES AND 5 INCHES.  
F. ADMIXTURES - USE AN AIR ENTRAINING AGENT MEETING THE REQUIREMENTS OF ASTM C660 RESULTING IN TOTAL AIR RANGING BETWEEN 4% AND 6%. USE A WATER REDUCING AGENT MEETING THE REQUIREMENTS OF ASTM C664 FOR ALL CONCRETE UNDER NO CIRCUMSTANCES SHALL CALCIUM CHLORIDE BE USED.
3. CONCRETE SHALL BE DESIGNED, READY-MIXED, HANDLED, PLACED, CURED, ETC. ACCORDING TO RECOMMENDATIONS AND SPECIFICATIONS FOUND IN LOCAL CODES AND IN THE LATEST RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI).
4. REINFORCING STEEL TO MEET ALL THE REQUIREMENTS OF ASTM A615, GRADE 60. WELDED WIRE FABRIC TO MEET REQUIREMENTS OF ASTM A185.
5. REINFORCING STEEL SHALL BE SECURELY TIED AND HELD IN PROPER PLACE BEFORE AND MAINTAINED DURING THE POURING PROCESS OF APPROX. 4" AND 6" DIA. BARS. PLASTIC TIPPED ACCESSORIES FOR CONCRETE EXPOSURE TO WEATHER, WATER, OR VIEW.
6. LAP ALL BARS 30 BAR DIAMETERS UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. WHERE CONTINUOUS BARS ARE REQUIRED, RUN BARS CONTINUOUSLY AROUND CORNERS, DOWN INTO ANY INTERSECTING WALLS, AND LAPPED AT SPLICES AS NOTED ABOVE. ALL SPLICES ARE TO BE STAGGERED IF POSSIBLE.
7. CONCRETE SHALL COVER THE REINFORCING STEEL PER FOLLOWING TABLE. DIMENSIONS GIVEN ARE CLEAR DIMENSIONS:  

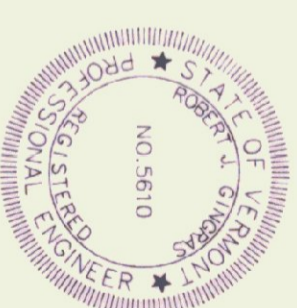
CONCRETE POURED AGAINST SOIL	3 INCHES
FORMED CONCRETE AGAINST SOIL	1 1/2 INCHES
#3 BARS AND SMALLER	2 INCHES
#4 BARS AND LARGER	2 1/2 INCHES
CONCRETE OVER EXPOSED REINFORCING BEAMS AND COLUMNS	3/4 INCH
SLABS, WALLS, AND JOISTS	1 1/2 INCHES
8. FOOTINGS ARE TO BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. USE THE ELEVATIONS AS SHOWN ON THE PLANS. THESE ELEVATIONS MAY BE REVISED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY WEAK SOIL, HIGH WATER, DELETERIOUS MATERIAL, UNSUITABLE FILL, OR ANY OTHER CONDITIONS AFFECTING THE BEARING CAPACITY OF THE SOIL. ALL FOOTINGS, CAISSONS, PILES, AND PIERS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS OTHERWISE SPECIFICALLY NOTED. ASSUMED ALLOWABLE SOIL BEARING PRESSING = 3000 PSF.
9. FOUNDATION WALLS TO BE POURED IN ALTERNATE LENGTHS, WITH EACH POUR NOT EXCEEDING 25 FEET. CONSTRUCTION JOINTS TO BE PLACED AT POINTS OF MINIMUM SHEAR HORIZONTAL JOINTS TO BE USED ONLY WHERE SHOWN ON THE DRAWINGS.
10. THE CONTRACTOR SHALL INSTALL OR GIVE OTHER TRADES INVOLVED IN THE PROJECT, THE APPLICABLE TO INSTALL BOLTS, NAILS, SLOTS, GLASS, SLICES, SEALS, AND OTHER ACCESSORIES TO BE VERIFIED BY THE CONTRACTOR BEFORE SETTING FORMS OR SLEEVES ARE IN PLACE.

ALUMINUM PANEL SIDING

1. PANELS SHALL BE BOLTED TO A PROFILE OF 7/8" DEEP, RISE AT 2 1/2" ON CENTER. PANELS SHALL PROVIDE A 45 1/2" COVERAGE WITH ONE COMPLETE RIB OVERLAP AT THE SIDELAPS. THE PANELS SHALL BE CONSTRUCTED FROM 0.032 THICK ALUMINUM ALLOY 3004-H16 CONFORMING TO ASTM B-209 WITH STUCCO EMBOSSED (MILL) FINISH.
2. PAINT FINISH - SHALL CONSIST OF ONE PRIMER COAT (MIN. 0.2 MILS THICK DRY FILM THICK) AND ONE FINISH COAT (MIN. 0.2 MILS THICK DRY FILM THICK). THE FINISH COAT SHALL BE A SILICONEZED POLYESTER WITH A MINIMUM 0.3 DRY FILM THICKNESS.
3. FLASHINGS - ALL BE FOLD DOOR FLASHINGS SHALL BE SHOP FABRICATED (AS SHOWN ON PLANS) FROM THE SAME MATERIAL WITH THE SAME THICKNESS, FINISH, AND COLOR AS THE SIDING.
4. CLOSURES - SHALL BE PRE-MOLDED NEOPRENE TO MATCH THE CONFIGURATION OF THE CORRUGATED PANEL AND SHALL BE IN LENGTHS AS SUPPLIED BY THE MANUFACTURER.
5. CALLING/SEALANT TAPE - CALLING SHALL BE A POLYURETHANE NON-HARDENING TYPE OR A BUTYL SEALANT TAPE WITH A MINIMUM THICKNESS OF 0.032 INCHES. CALLING OR SEALANT SHALL BE DONE IN A NEAT MANNER WITH EXCESS CALLING OR SEALANT REMOVED FROM EXPOSED SURFACES.
6. FASTENERS - ALL FASTENERS SHALL HAVE A COMBINATION STEEL AND NEOPRENE WASHER AND SHALL BE:  
A) PANEL TO FASTENERS ATTACHING SUPPORT MEMBERS SHALL BE STAINLESS STEEL #12-14 SELF-DRILLING, SELF TAPPING SCREW OF SUFFICIENT LENGTH TO PENETRATE THE SUPPORT MEMBER BY 1 INCH. ALL FASTENERS SHALL BE APPLIED IN ACCORDANCE WITH THE SIDING MANUFACTURER'S RECOMMENDATIONS FOR THE PROFILE.  
B) FLASHINGS AND SIDELAPS SHALL BE A STAINLESS STEEL #14 MP X 1" SELF DRILLING SETSCREW. FLASHINGS AND ACCESSORIES SHALL BE FASTENED APPROXIMATELY 12" ON.

BI-FOLD DOOR NOTES

1. THE DOOR SHALL BE AS MANUFACTURED BY WILSON INDUSTRIAL DOORS, INC., ELKHORN, WISCONSIN.
2. THE DOOR SHALL BE PROVIDED WITH A COLD WEATHER PACKAGE AND IT MUST BE FABRICATED TO ACCEPT ALUMINUM SHEETING ON BOTH SIDES OF THE DOOR.
3. INSTALLATION SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND THE MANUFACTURER SHALL FURNISH THE OWNER WITH A COMPLETE INSTALLATION AND OPERATOR'S MANUAL.
4. DOOR INSULATION SHALL BE 1/2" FIBERGLASS BATT INSULATION.
5. THE DOOR MANUFACTURER SHALL SUBMIT SHOP DRAWINGS (3 COPIES) TO THE ENGINEER AND OWNER FOR REVIEW PRIOR TO FABRICATION.
6. ELECTRICAL CONNECTIONS AND OPERATION SHALL BE DESIGNED AND INSTALLED BY OWNER.



NEW AIRPORT HANGAR DOOR  
HARTNESS STATE AIRPORT  
SPRINGFIELD, VERMONT  
STANDARD NOTES AND DETAILS

Sheet 59 of 3

Scale AS NOTED

DESIGNED BY: RAG  
DRAWN BY: RAG  
CHECKED BY: MJC  
DATE: SEPT 90  
Dwg. 22-002-5



CHENETTE ENGINEERING, INC.  
50 STATE STREET  
MONTPELIER, VERMONT 05602