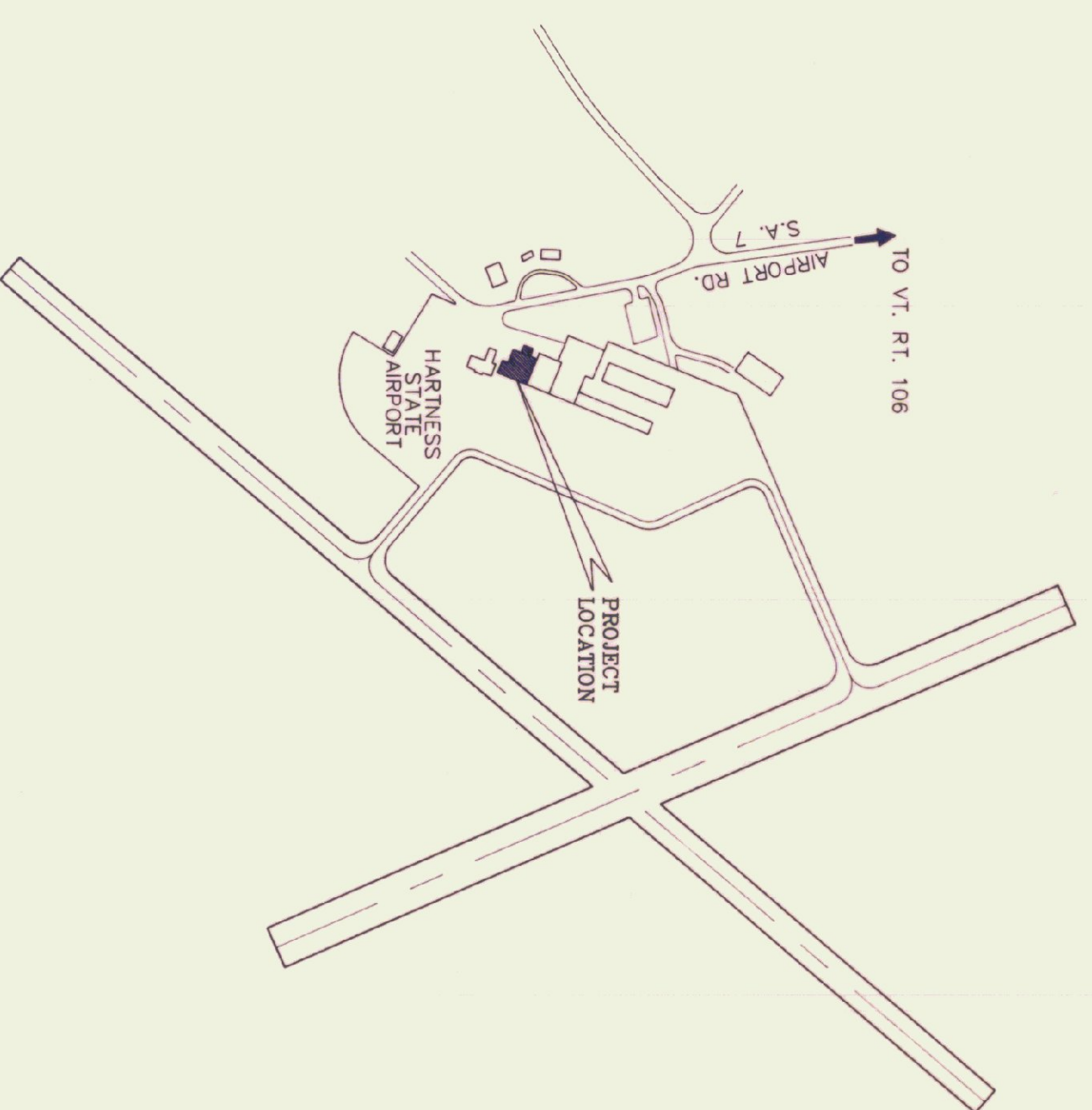


STATE OF VERMONT
AGENCY OF TRANSPORTATION
PAUL R. PHILBROOK, SECRETARY

STATE OF VERMONT
DEPARTMENT OF STATE BUILDINGS
JOHN J. ZAMPIERI, COMMISSIONER

NEW AIRPORT HANGAR DOOR HARTNESS STATE AIRPORT SPRINGFIELD, VERMONT

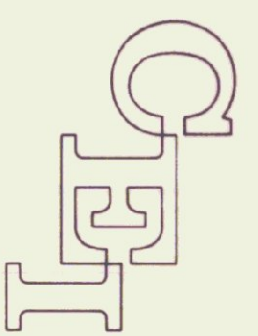
LOCATION MAP
NO SCALE



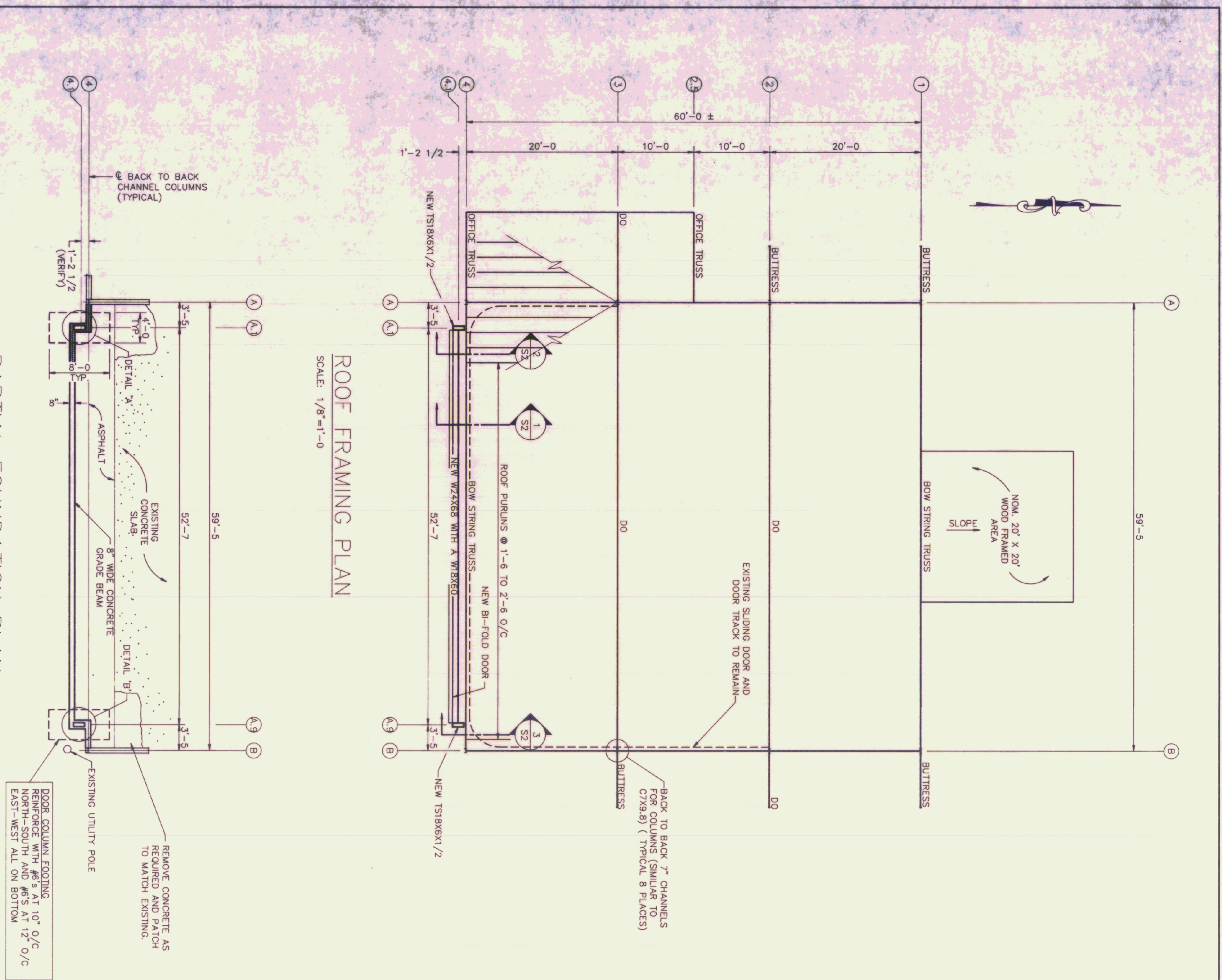
INDEX

S1	PLANS, ELEVATIONS, & DETAILS
S2	SECTIONS & DETAILS
S3	STANDARD NOTES & DETAILS

CIVIL/STRUCTURAL ENGINEERS



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

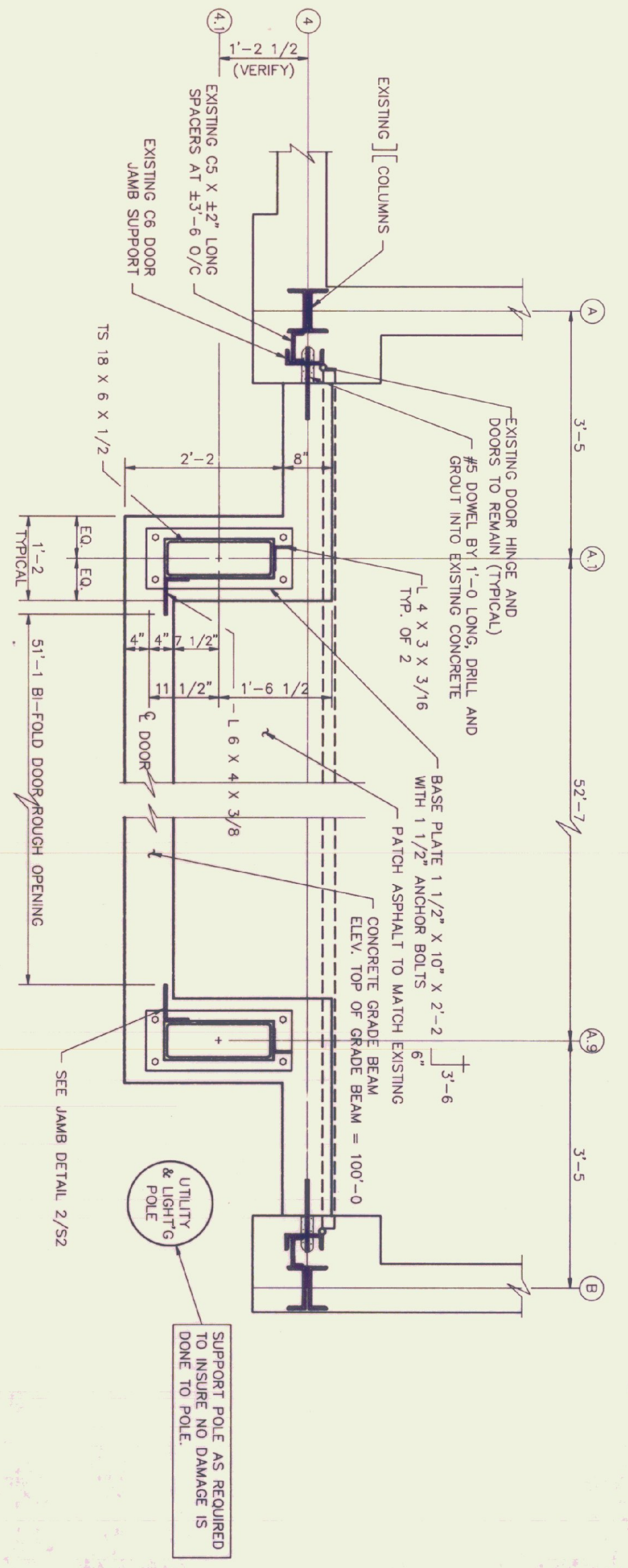


ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"
1. ELEVATION TOP OF NEW DOOR COLUMN FOOTINGS = 96'-0" MINIMUM.

DOOR COLUMN FOOTING REINFORCE WITH #6'S AT 10" O/C NORTH-SOUTH AND #5'S AT 12" O/C EAST-WEST ALL ON BOTTOM

REMOVE CONCRETE AS REQUIRED AND PATCH TO MATCH EXISTING

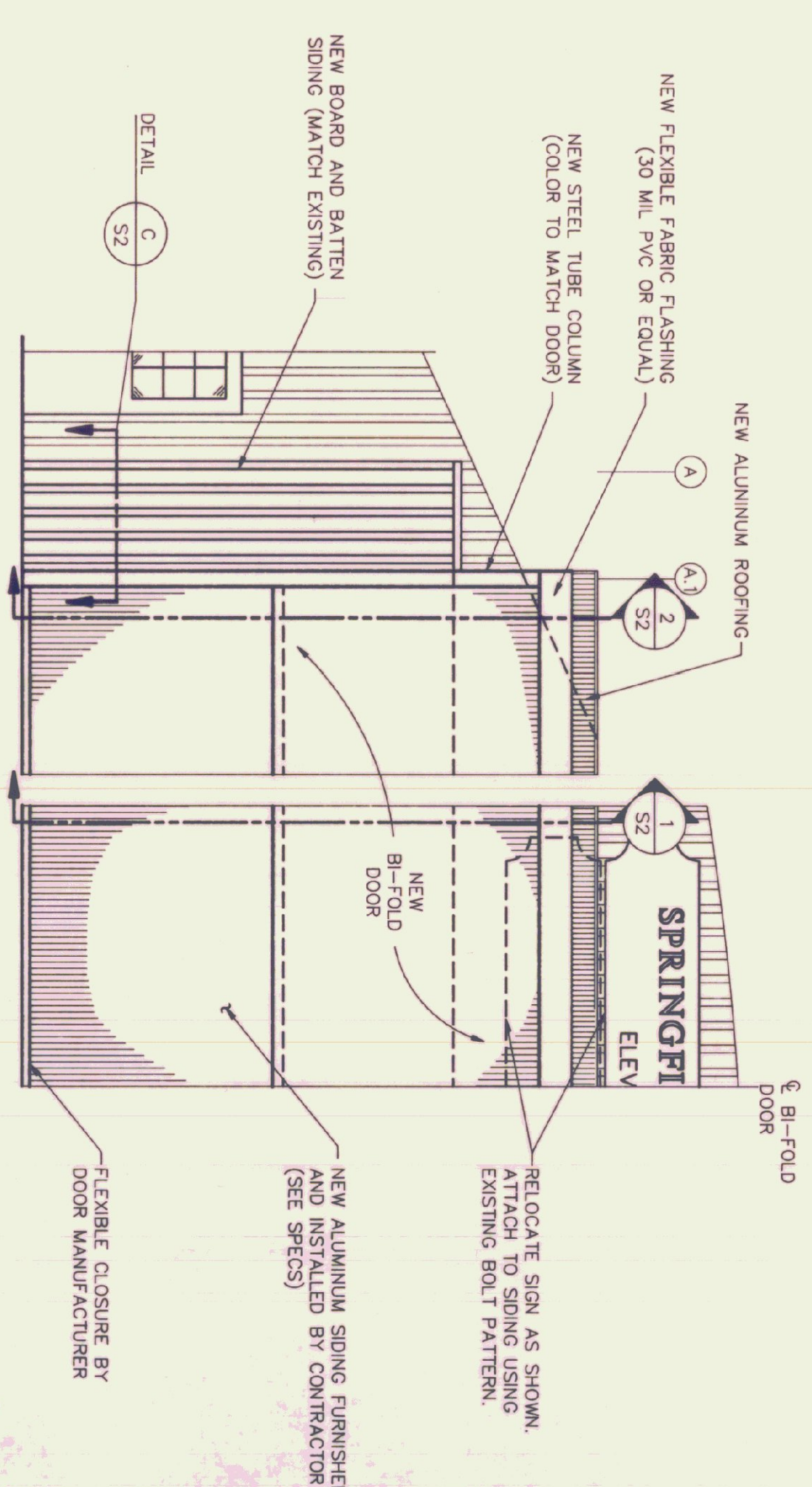


DETAIL 'A'
SCALE: 3/4" = 1'-0"

DETAIL 'B'
SCALE: 3/4" = 1'-0"

SUPPORT POLE AS REQUIRED TO INSURE NO DAMAGE IS DONE TO POLE

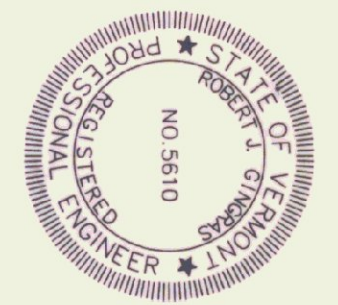
PARTIAL SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



NEW ALUMINUM SIDING FURNISHED AND ASSEMBLED BY CONTRACTOR (SEE SPECS)

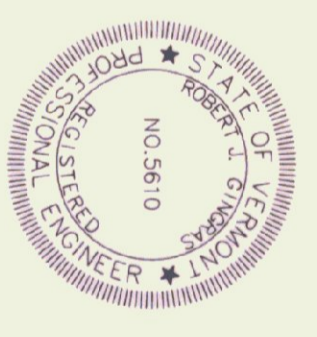
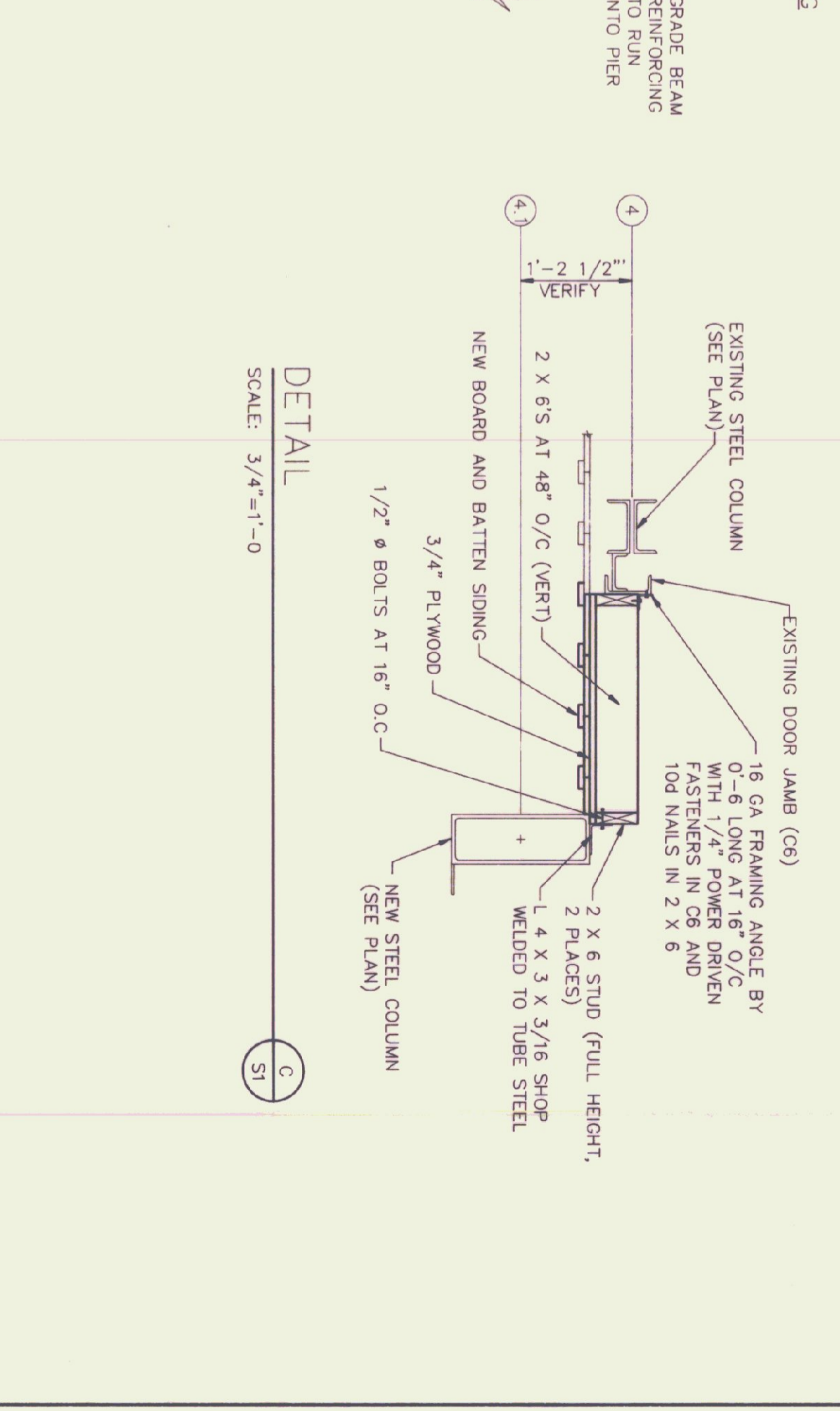
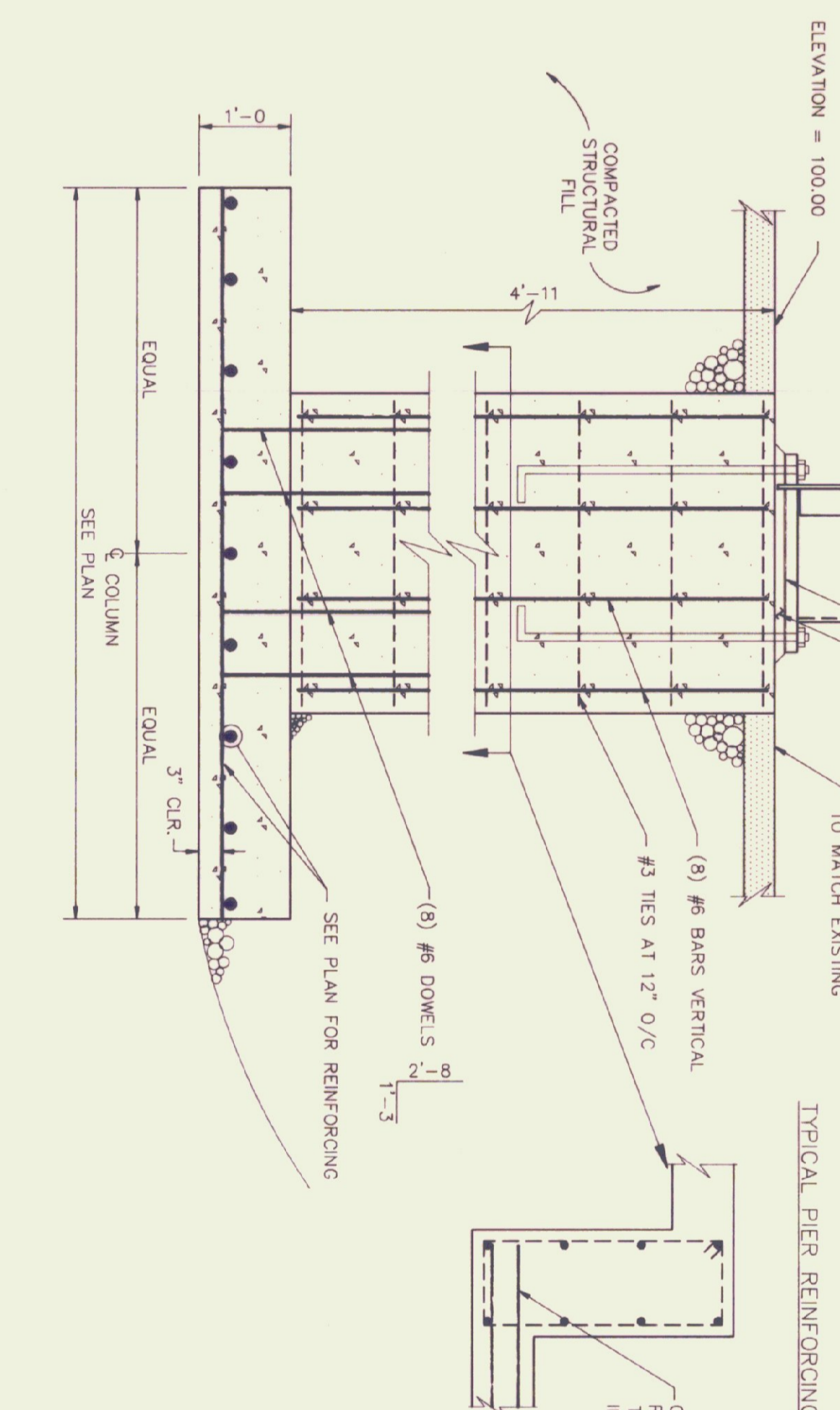
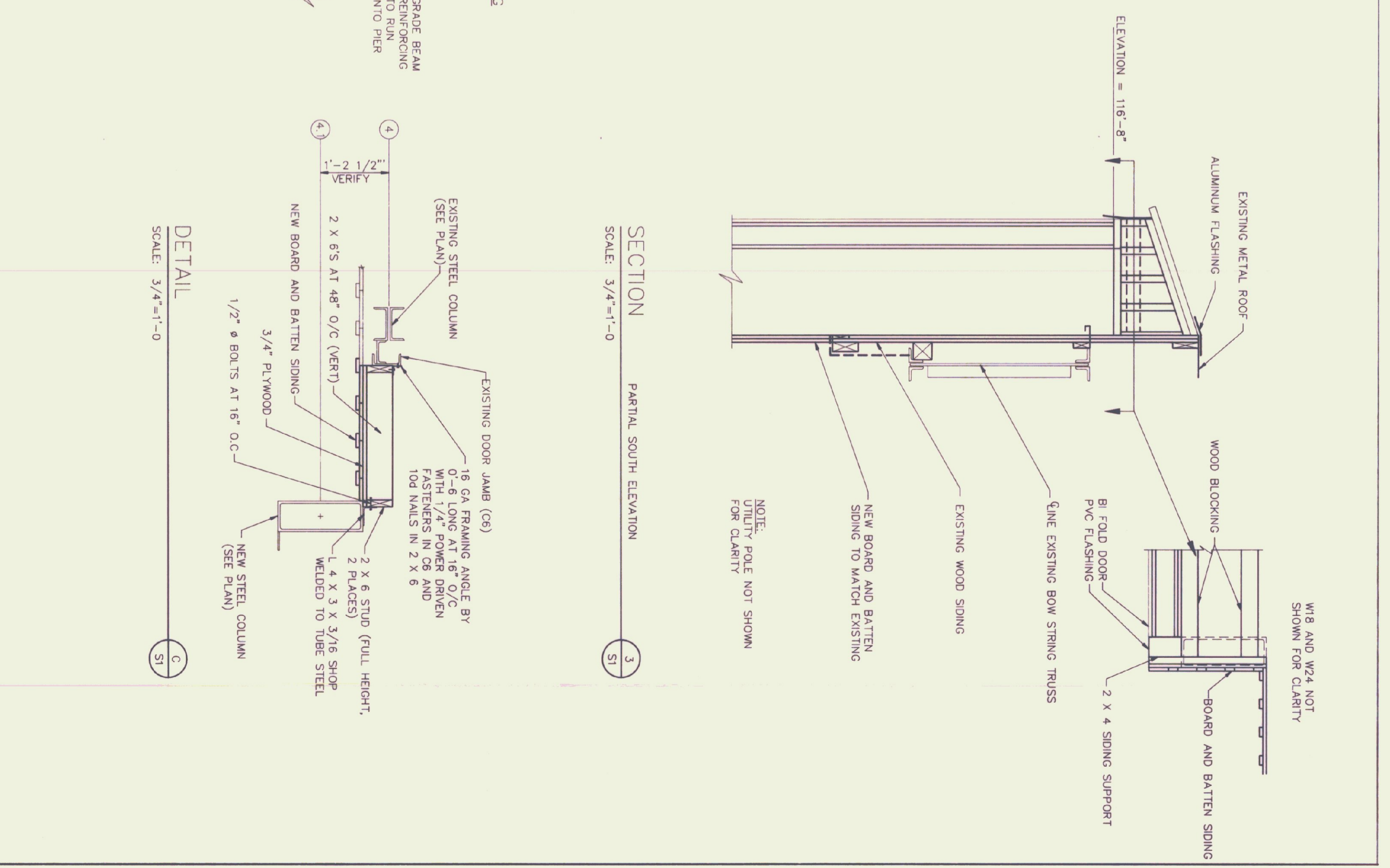
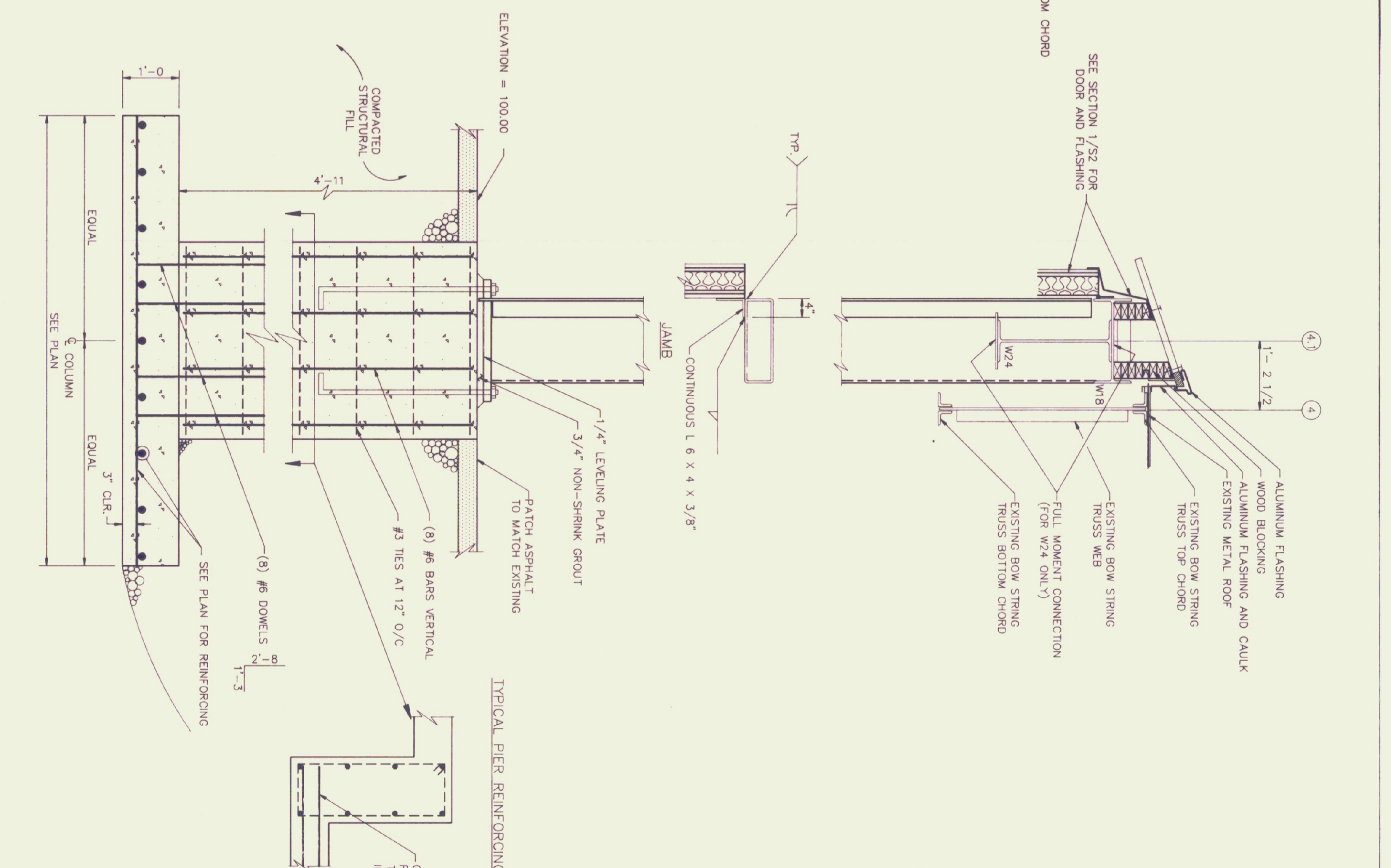
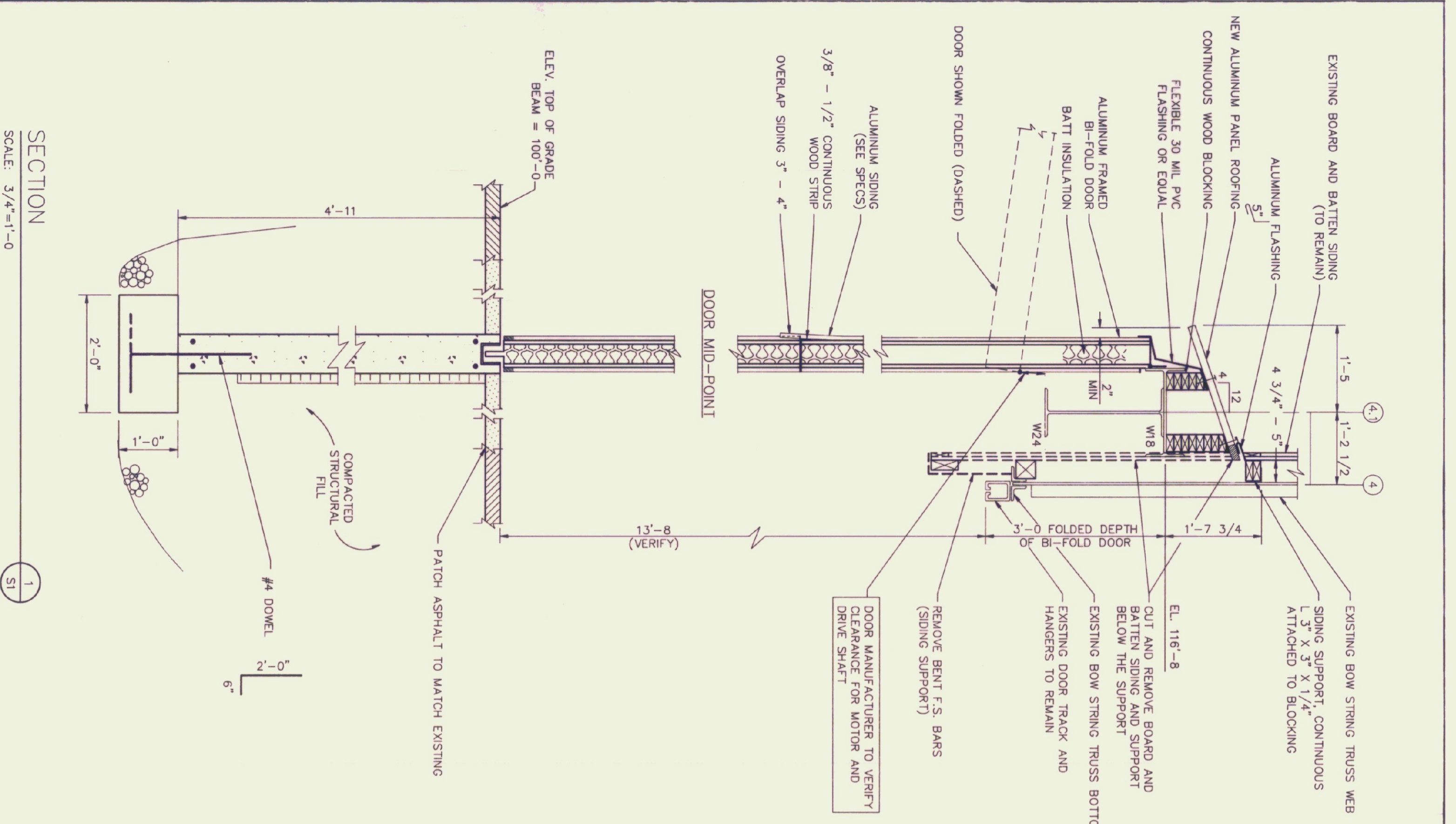
RELOCATE SIGN AS SHOWN, ATTACH TO SIDING USING EXISTING BOLT PATTERN.

DOOR MANUFACTURER BY FLEXIBLE CLOSURE



Rev No	Date	Description	Made By	Checked by	App'd by

NEW AIRPORT HANGAR DOOR HARTNESS STATE AIRPORT SPRINGFIELD, VERMONT PLANS, ELEVATIONS, AND DETAILS		S1 Sheet: SI of 3 Scale: AS NOTED Des. By: RLG Dwn. By: DDH Chk. By: MJC Date: SEPT 90 Dwg. 22-002-S
CHENETTE ENGINEERING, INC. 50 STATE STREET MONTPELIER, VERMONT 05602		



Rev No	Date	Description	Made by	Checked by	App'd by

NEW AIRPORT HANGAR DOOR
HARTNESS STATE AIRPORT
SPRINGFIELD, VERMONT
SECTION AND DETAILS

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

Scale AS NOTED
 Des. By RIG
 Dwn. By DDH
 Chk. By MJC
 Date SEPT 90

Sheet 52 of 3
S2
 Dwg. 22-002-5

STRUCTURAL NOTES

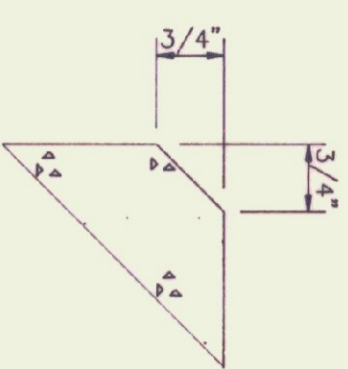
1. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
STRUCTURAL SHAPES
ASTM A36, Fy = 50,000 PSI
BOLTS
ASTM A325
TUBE STEEL COLUMNS
Fy = 46 KSI
2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND THE SPECIFICATIONS.
3. ALL 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 ORIGINATE. 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

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 A3 AND MEET THE FOLLOWING REQUIREMENTS:
A. A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 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". USE A WATER 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
#3 BARS AND SMALLER 1 1/2 INCHES
#4 BARS AND LARGER 2 INCHES
CONCRETE POURED AGAINST EXISTING
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 TO ACCOMMODATE THE SOIL CONDITIONS. THE ENGINEER SHALL BE RESPONSIBLE TO 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.



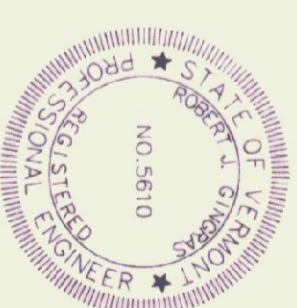
DETAIL
TYPICAL CHAMFER
SCALE: NONE
19

ALUMINUM PANEL SIDING

1. PANELS SHALL BE BOLTED TO A PROFILE OF 7/8" DEEP. BARS AT 24" ON CENTER. PANELS SHALL PROVIDE A 45 1/2" OVERLAP WITH ONE COMPLETE RIB OVERLAP AT THE SIDELAPS. THE PANELS SHALL BE CONSTRUCTED WITH ONE COMPLETE RIB OVERLAP AT THE H16 CONFORMING TO ASTM B-209 WITH STUCCO EMBOSSED (M11) FINISH.
2. PAINT FINISH - SHALL CONSIST OF ONE PRIMER COAT (MIN. 0.2 MILS THICK DRY FILM THICK) AND TWO FINISH COATS (MIN. 0.2 MILS THICK DRY FILM THICK) FOR A TOTAL OF 0.4 MILS THICK DRY FILM THICKNESS. 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/GENERAL TAP - CALLING SHALL BE A POLYURETHANE NON-HARDENING TYPE OR A BUTYL SEALANT TAP WITH A MINIMUM THICKNESS OF 0.035 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 1/2" ON.

BIFOLD DOOR NOTES

1. THE DOOR SHALL BE AS MANUFACTURED BY WILSON INDUSTRIAL DOORS, INC. ELKHORN, WISCONSIN.
2. THE DOOR SHALL BE PROVIDED WITH A 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

Des. By: RAG

Int. By: RAG

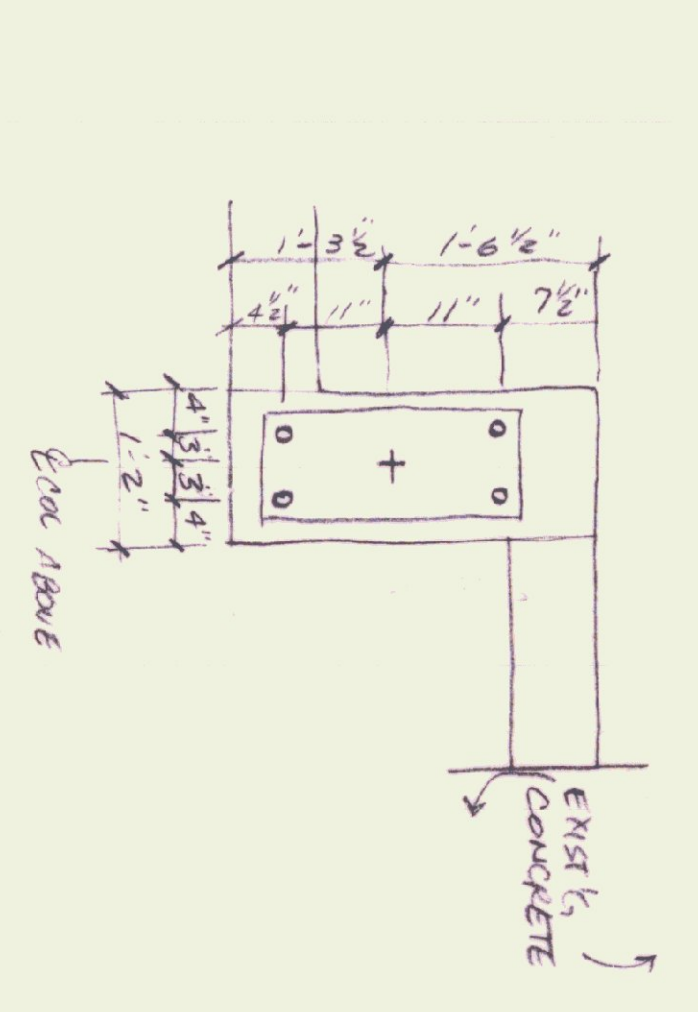
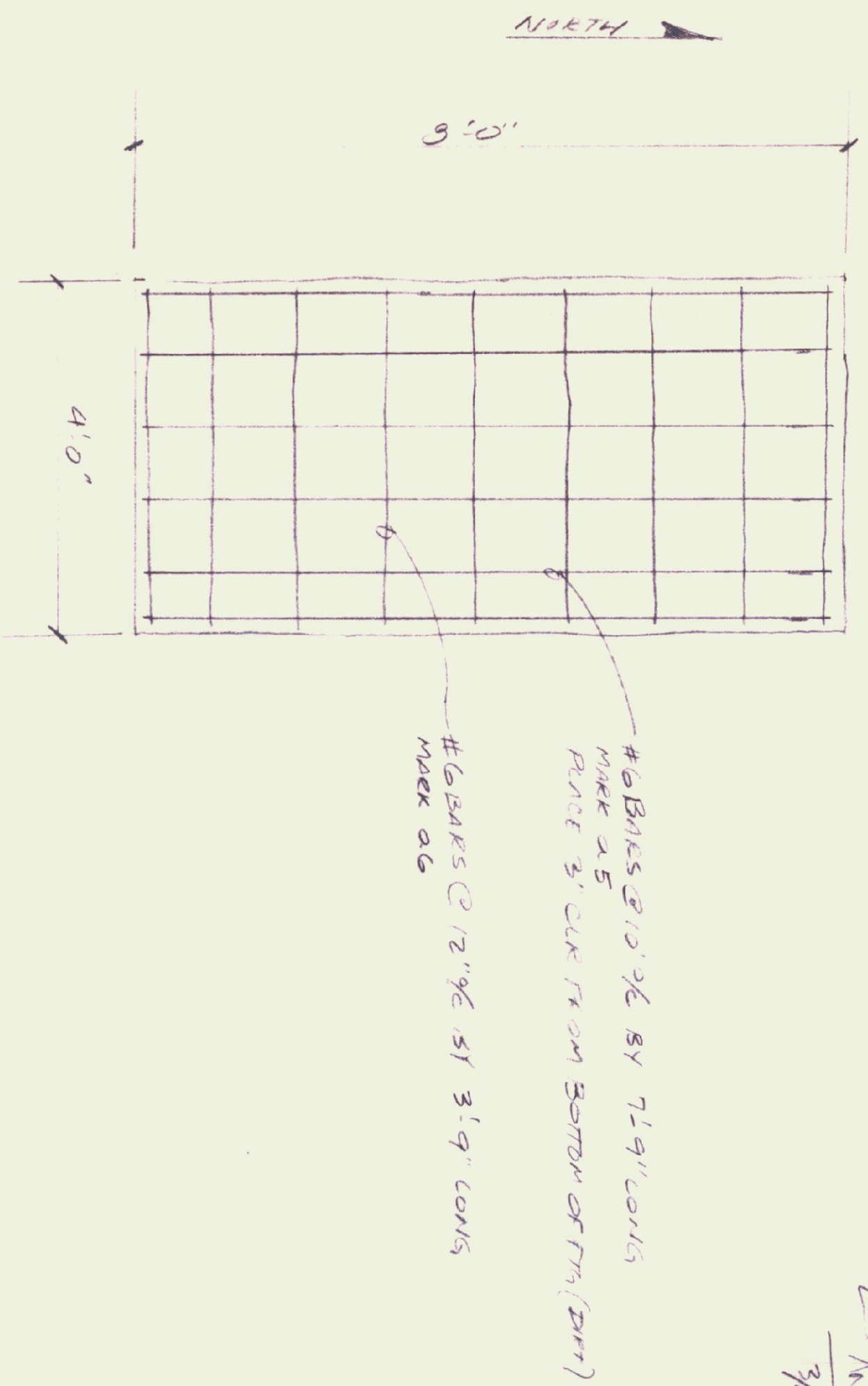
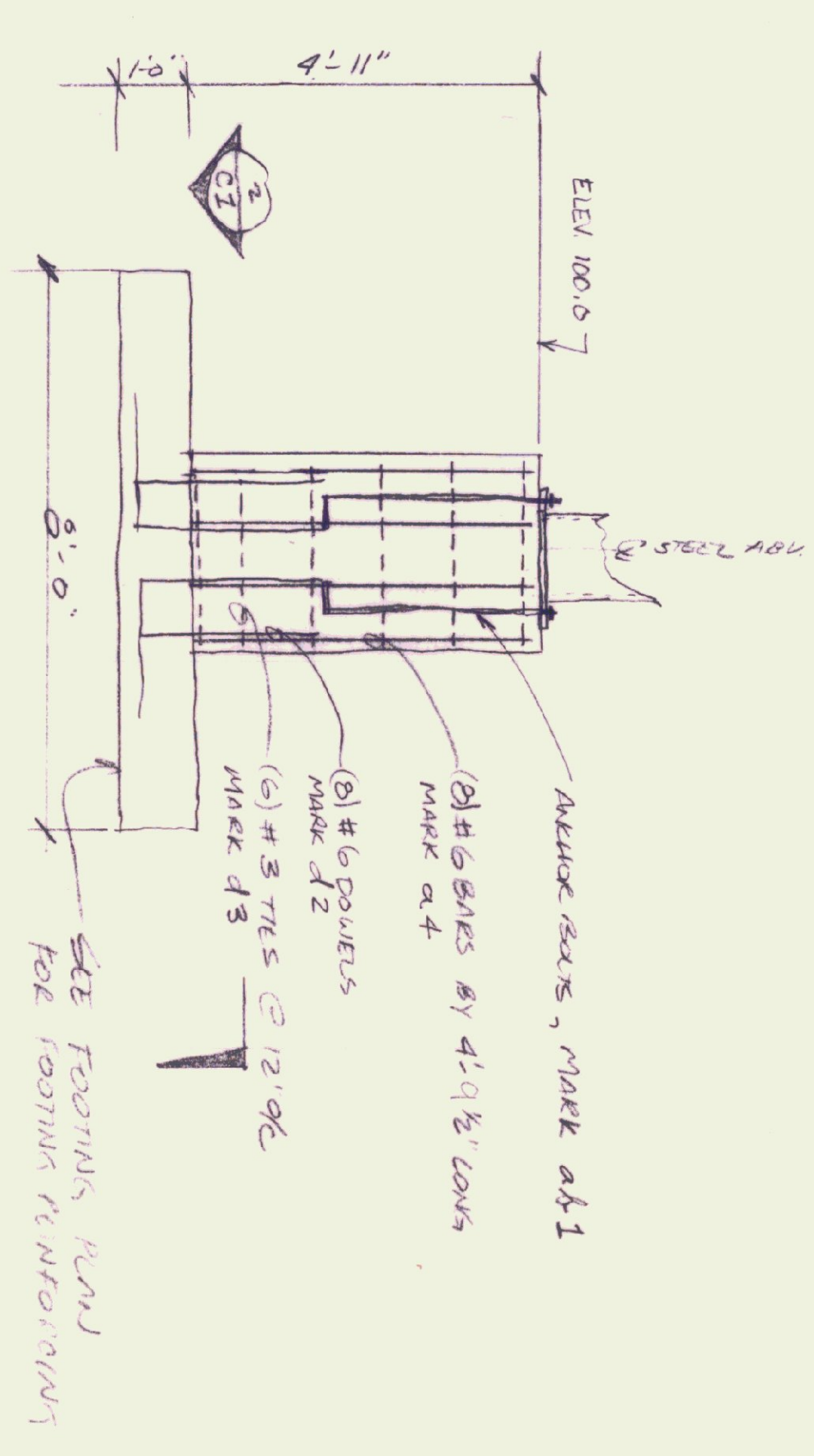
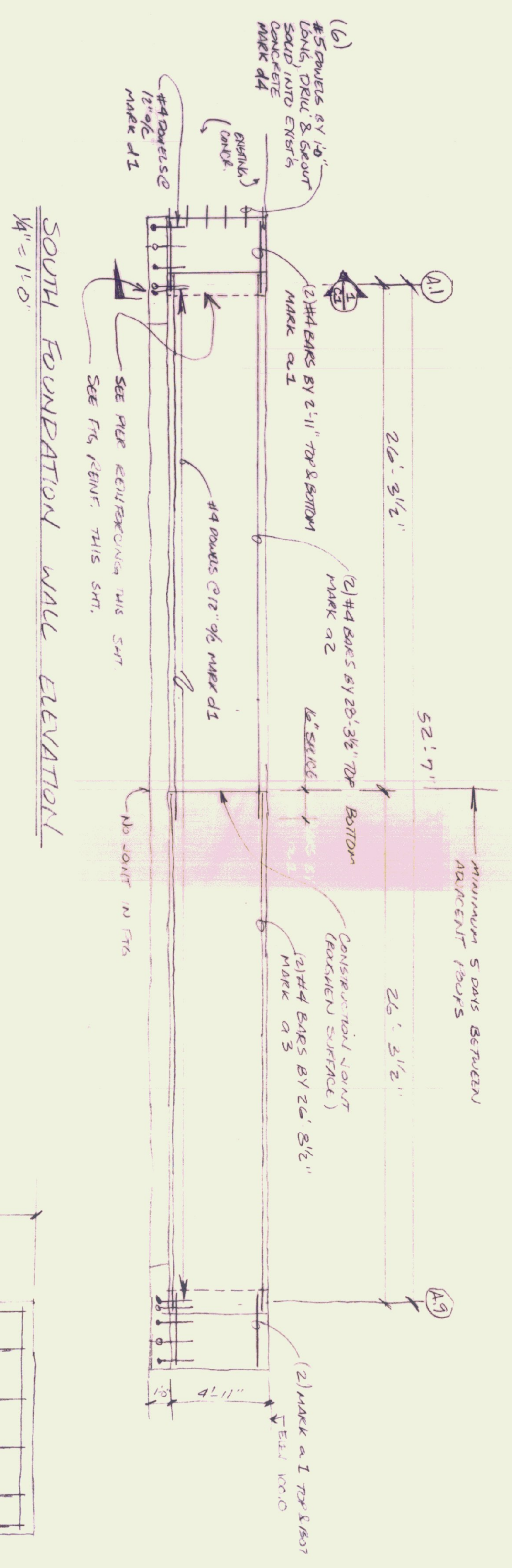
Chk. By: MJC

Date: SEPT 90

Dwg. 22-002-5



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



ANCHOR BOLT LAYOUT
3/4" = 1'-0"

SECTION 1: REINFORCEMENT
1/8" = 1'-0"

SECTION 2: FOOTING PLAN
3/4" = 1'-0"

BAR QUANTITIES				
MARK	BAR SIZE	BEND TYPE OR LENGTH	QUANTITY	REMARKS
a1	#4	STRAIGHT, 2'-11" LONG	8	
a2	#4	STRAIGHT, 28'-1 1/2" LONG	4	
a3	#4	STRAIGHT, 28'-8 1/2" LONG	4	
a4	#6	STRAIGHT, 4'-9 1/2" LONG	16	
a5	#6	STRAIGHT, 7'-9" LONG	12	
a6	#6	STRAIGHT, 3'-9" LONG	18	
d1	#4	DOUBLET	64	TRG TO WALL
d2	#6	DOUBLET	16	REB DOUBT
d3	#3	TIES FOR REB	12	TIES FOR REB

MARK	BAR SIZE	BEND TYPE OR LENGTH	QUANTITY	REMARKS
d4	#5	STRAIGHT DOUBLET 1'-0" LONG	12	EXISTING CONCRETE TO NEW WALL
a5	1 1/2" dia	3'-6" x 6"	8	A36 STEEL

Rev No	Date	Description	Rev No	Date	Description
1	9-26-90	ADD ANCHOR BOLTS			

REINFORCING STEEL
SPRINGFIELD HANAPAR
DOOR, Springfield, Vermont

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

Des. By: RJS
Chk. By: MJD
Date: 9-26-90

Scale: As Noted

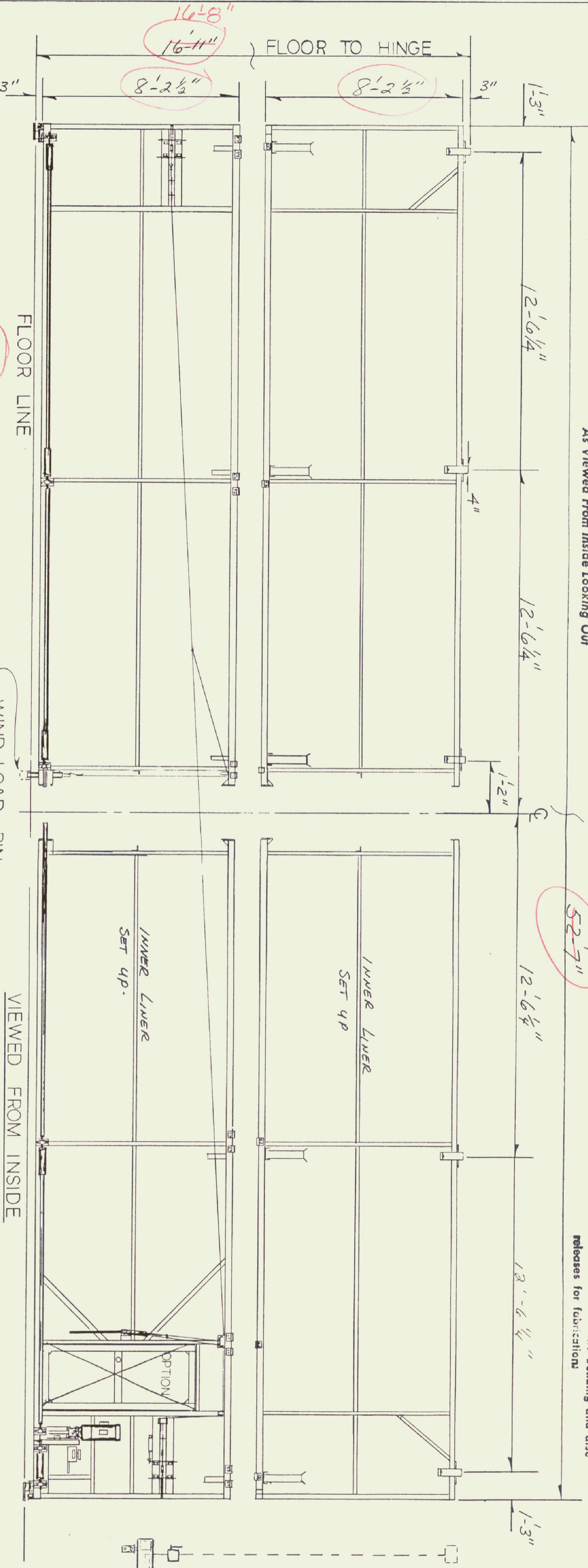
Sheet 1 of 1

Checked by: MJC
App'd by: MJC

C1

MOTOR CONTROLS RH LH
 OPTIONAL SERVICE RH LH
 DOOR As Viewed From Inside Looking Out

X Michael J. White
 This signature certifies that all dimensions on this print have been reviewed and coordinated with the building and also releases for fabrication.



SHEET LENGTH

8'-6 1/2\"/>
 8'-2 Bottom

SEE PAGE 54 IN THE INSTALLATION INSTRUCTION MANUAL FOR METHODS OF SHEETING DOOR.

COVERING FOR DOOR; NOT SUPPLIED BY WILSON
 USE STRUCTURAL SHEETING WITH 1/4\"/>
 MIN. ATTACHING SCREWS EVERY 6\"/>
 8\"/>
 AND STITCH SEAMS TO GIVE GOOD DIAPHRAM ACTION
 2 LBS. PER SQUARE FOOT
 MAXIMUM ADDITIONAL WEIGHT
 CAN BE ADDED TO DOOR

SPECIFICATIONS

- 5 HINGE
- 5 PICK UP
- COLD WEATHER
- 3-BUTTON CONTROL / U.S.O.
- Zinside Liner Set up

USE OF ARCHITECTURAL TYPE SHEETING IS PROHIBITED

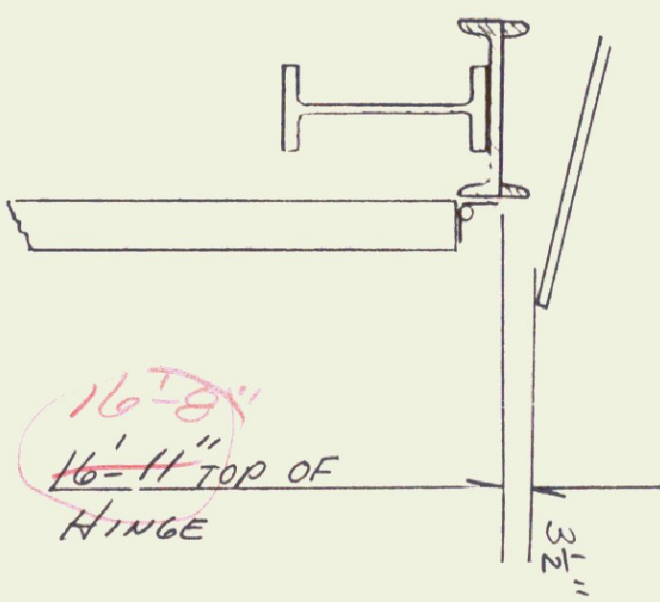
SHOP DRAWING REVIEW

- No Exception Taken
- Revise and Resubmit
- Make Corrections Noted
- Comments Attached

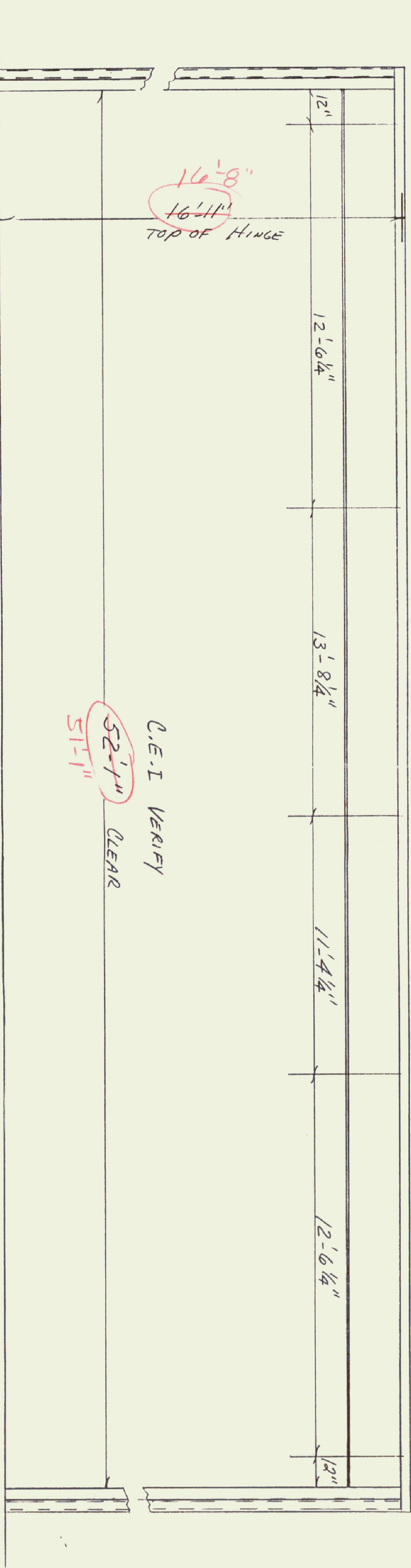
This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions and performing his work in a satisfactory manner.

CHENETTE ENGINEERING, INC.
 Date 2/14/91 By *MLC*

WILSON INDUSTRIAL DOORS, INC.
 P. O. Box 372 ELKHORN, WISCONSIN 53121 • DU 045446 1-800-558-5974
 NAME: State of Vermont Dept. of State Buildings
 ADDRESS: 4000 Rikers Ave, Montpelier, VT. 05602
 SIZE: 52'-1\"/>
 x 13'-11\"/>
 DATE: 3/11/91



USE OF ARCHITECTURAL TYPE SHEETING IS PROHIBITED



L 6X4X 3/8
3/8" x 4" PLATE
52'-1"
51'-1"
C.E.I. - FIELD VERIFY

C.E.I. VERIFY
52'-1"
51'-1"
CLEAR

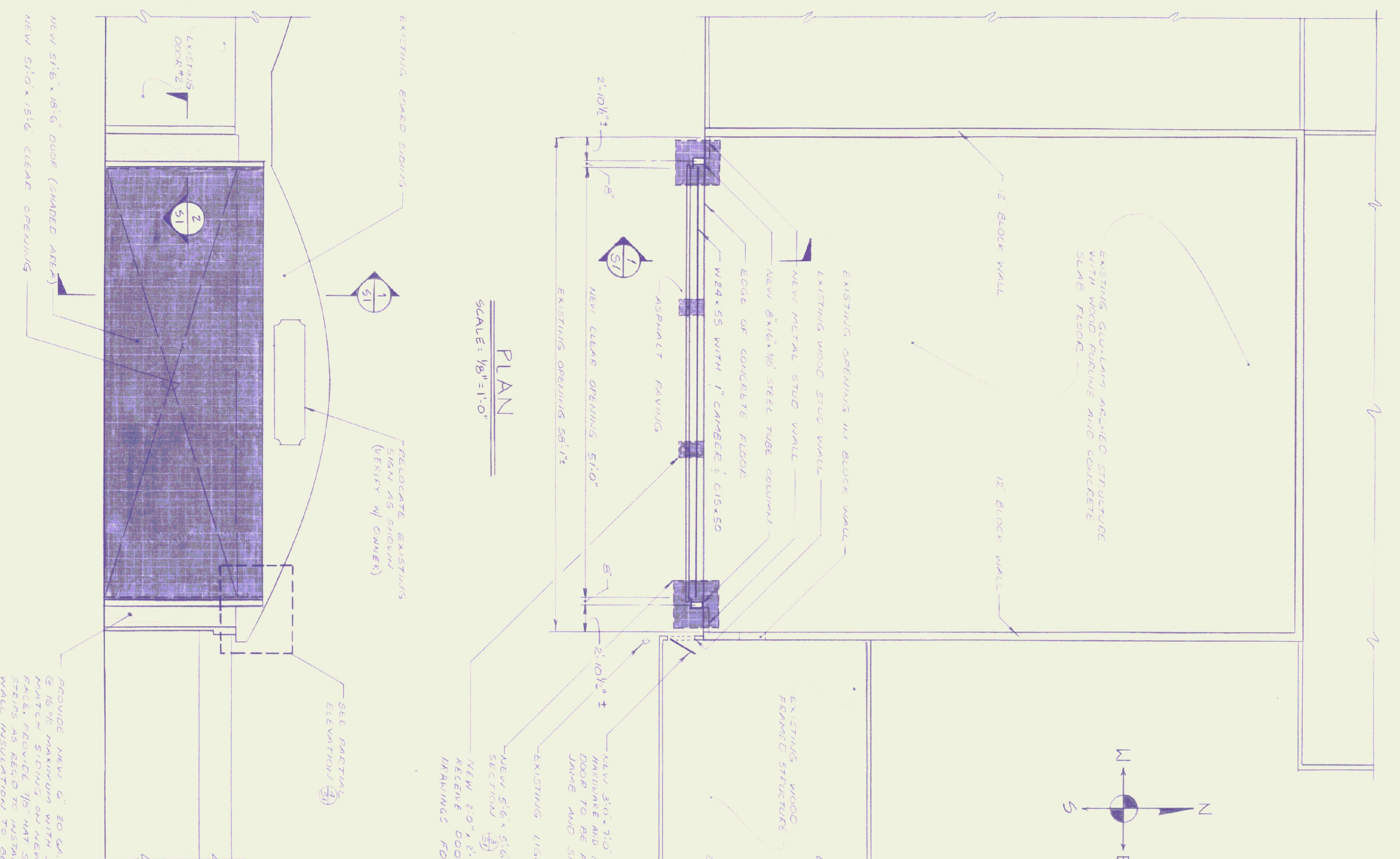
X *Metal drafts*
This signature certifies that all dimensions on this print have been reviewed and coordinated with the building end also releases for fabrication.

MOTOR CONTROLS RH LH
OPTIONAL SERVICE RH LH
DOOR As Viewed From Inside Looking Out

SHOP DRAWING REVIEW!

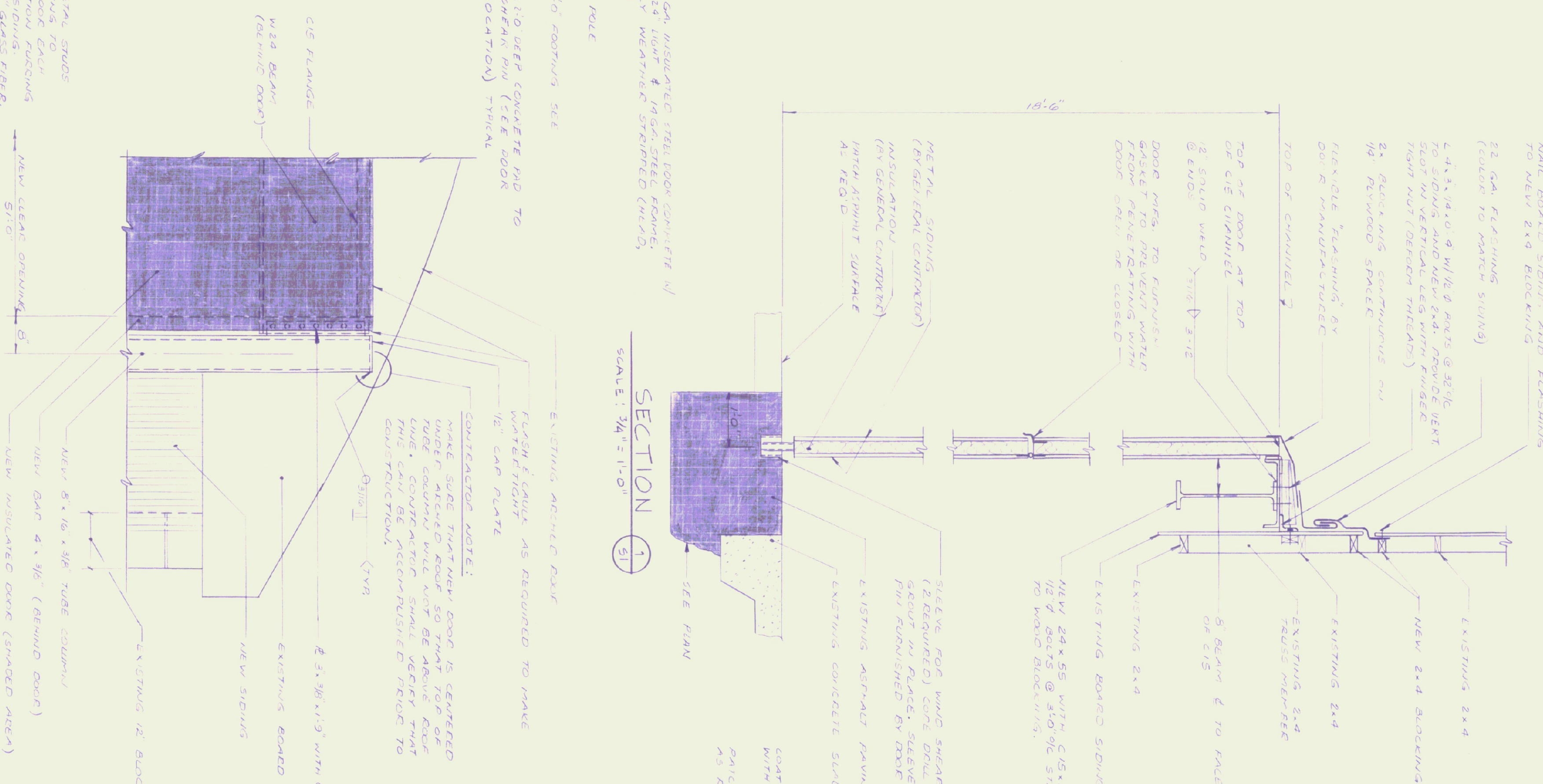
No Exception Taken
 Revise and Resubmit
 Make Corrections Noted
 Comments Attached
This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions and performing his work in a satisfactory manner.

CHENETTE ENGINEERING, INC.
Date 3/14/91 By MK



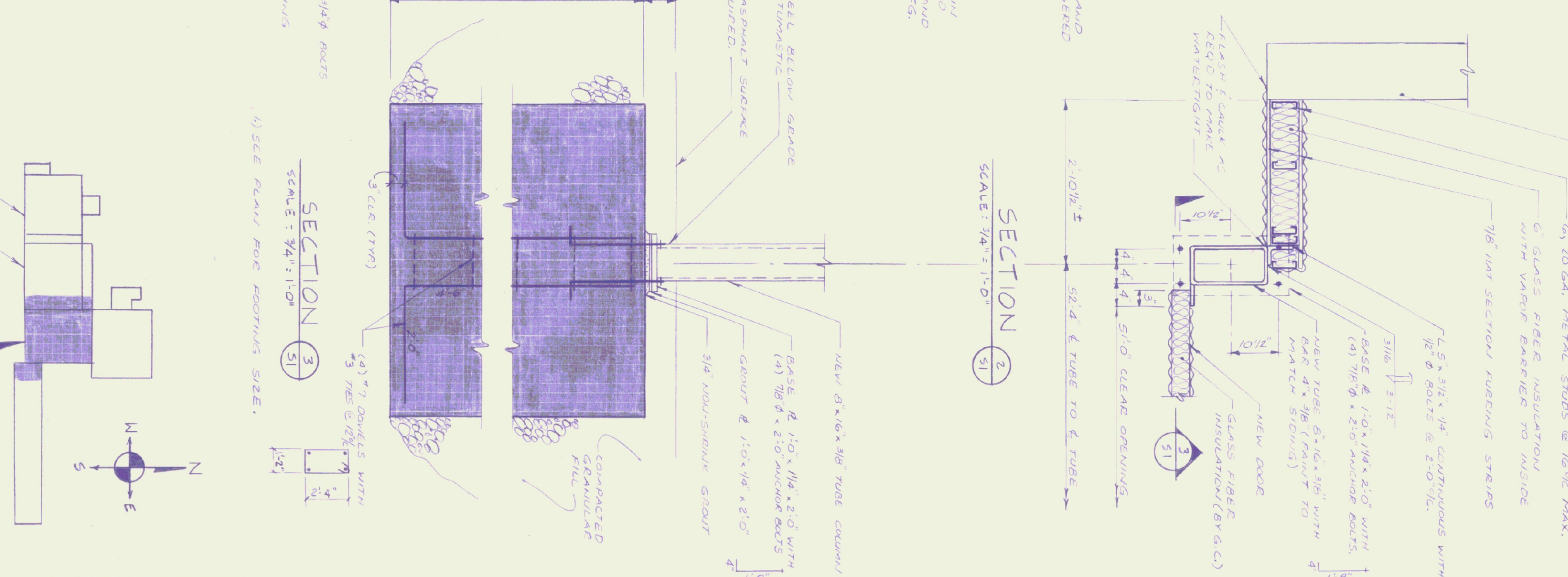
PLAN
SCALE: 1/8" = 1'-0"

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



SECTION 1
SCALE: 3/4" = 1'-0"

PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0"

SECTION 3
SCALE: 3/4" = 1'-0"

KEY PLAN

	HANGAR DOOR #3 HARTNESS AIRPORT SPRINGFIELD VERMONT	Lawes Consulting Engineers, Inc. Route 2A Williston, Vermont 05495	STATE OF VERMONT DIVISION OF BUILDINGS 2 WESTERN AVENUE MONTPELIER, VERMONT
	DRAWN: 54C PROJ. No.: 85706 CHECKED: DATE: 1/11/85 SKC/TFB	PLAN AND DETAILS	No. DATE REVISION

FOUNDATION NOTES

1. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS WITH THE FOLLOWING REQUIREMENTS:
PORTLAND CEMENT - ASTM C150, TYPE II, MINIMUM 5 SACKS PER CUBIC YARD.
AGGREGATE - ASTM C33, 1/2 MAXIMUM SIZE.
WATER - POTABLE WITH A MAXIMUM WATER CEMENT RATIO OF 0.55.
SLOPE - 3" TO 5".
ADMITTANCE - USE AIR ENTRAINING AGENT CONFORMING TO ASTM C260 WITH 4-6% TOTAL AIR.
DESIGN MIX - SUBMIT A CURRENT DESIGN MIX WITH 28 DAY COMPRESSIVE STRENGTH TESTS, TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
3. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60 EXCEPT STIRRUPS AND TIES TO BE GRADE 40.
4. REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING POURING OPERATIONS USING NUMBERED CHAINS AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
5. FOOTINGS SHALL REST ON SUITABLE UNDISTURBED SOIL OR COMPACTED GRANULAR FILL HAVING MINIMUM BEARING CAPACITY OF 3000 PSF. ELEVATIONS OF BOTTOM OF FOOTINGS ARE SHOWN ON PLANS, BUT ARE SUBJECT TO REVISION WHEN TRUE SOIL CONDITIONS ARE EXPOSED BY EXCAVATION. THE ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY WEAK STRATA, WATER CONDITIONS OR OTHER POOR BEARING CONDITIONS.
6. CONTRACTOR TO DESIGN, ERECT AND INSTALL ALL TEMPORARY SHEETING, SHORING AND BRACING NECESSARY TO SAFELY COMPLETE THE CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND CONTINUOUSLY DEMATER THE SITE TO FACILITATE CONSTRUCTION AND SAFE WORKING CONDITIONS.
8. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH A.C.I. STANDARDS WILL BE REQUIRED FROM THE CONTRACTOR FOR REINFORCING STEEL PRIOR TO CONSTRUCTION.

STRUCTURAL NOTES


1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE A.I.S.C. AND TO THE REQUIREMENTS OF THE LOCAL BUILDING CODES.
2. ALL WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - AWS/A5.1" OF THE AMERICAN WELDING SOCIETY.
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
STRUCTURAL SHAPES
ASTM A36, Fy = 36,000 PSI
BOLTS
ASTM A325
ASTM A500, GRADE B, Fy = 46,000 PSI
STRUCTURAL TUBING
ASTM A500, GRADE B, Fy = 46,000 PSI
4. ALL SHOP CONNECTIONS SHALL BE BOLTED OR WELDED. ALL FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDING IS SPECIFICALLY CALLED FOR. BOLTS SHALL BE 3/4" MINIMUM WITH OPEN HOLES 1/8" LARGER, EXCEPT FOR COLUMN GRID PLATES WHICH ARE 3/16" LARGER AND ALL BOLTS SHALL BE 3/16" LARGER. CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS OR THOSE GIVEN IN THE ALSO UNIFORM LOAD TABLES, WHICHEVER IS GREATER.
5. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 2 MILS DRY FILM THICKNESS) WITH AN APPROVED RUSH INHIBITIVE PRIME PAINT. STEEL SHALL BE THOROUGHLY CLEANED PRIOR TO PAINTING. FIELD TOUCH UP WITH THE SAME PAINT WILL BE REQUIRED.
6. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY GUYING AND BRACING REQUIRED TO ERECT AND MAINTAIN THE STEEL FRAME PLUMB AND SQUARE UNTIL THE PERMANENT BRACING AND SUPPORT DETAILS ARE INSTALLED.
7. THERE WILL BE NO FIELD BURNING, CUTTING OR OTHER ALTERATIONS OF STRUCTURAL STEEL WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (ONE REPRODUCIBLE PRINT AND TWO BLUE PRINTS) TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR THE STRUCTURAL STEEL.

GRANULAR FILL NOTES

1. GRANULAR FILL SHALL BE AN APPROVED, WELL GRADED BANK RUN OR CRUSHER RUN GRAVEL MEETING THE REQUIREMENTS OF THE FOLLOWING TABLE:
- | SIZE DESIGNATION | % PASSING |
|------------------|-----------|
| 2" | 100 |
| No. 4 | 40-70 |
| No. 100 | 5-20 |
| No. 200 | 4-8 |

2. THE MATERIAL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557, MODIFIED PROCEDURE.

BIFOLD DOOR NOTES

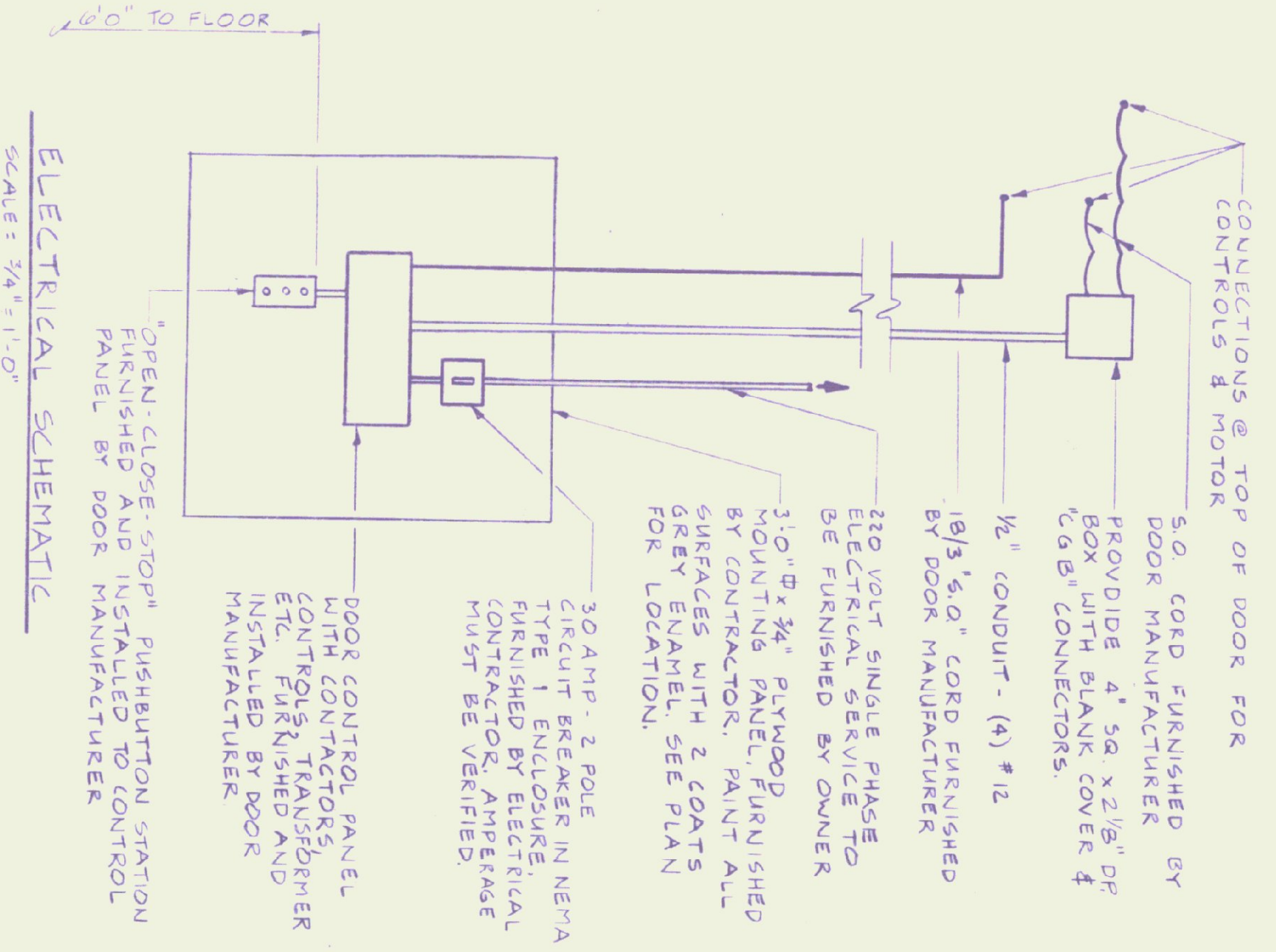
1. HORIZONTAL BIFOLD DOOR SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
2. THE DOOR SHALL BE MANUFACTURED BY WILSON INDUSTRIAL DOORS, INC., WALWORTH, WISCONSIN. DOORS OF EQUAL QUALITY BY ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THE ENGINEER, BUT THE SUBSTITUTION MUST HAVE WRITTEN APPROVAL FROM THE OWNER AND RECEIPT OF BIDS. SUGGESTED ALTERNATE MANUFACTURERS ARE FLEMING STEEL COMPANY AND MOSHER DOORS, INC. DESIGN DETAILS ON THESE PLANS ARE FOR A WILSON DOOR. SHOULD AN ALTERNATE MANUFACTURER BE ACCEPTED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REVISION APPROVAL OF THE DESIGN AND DETAILS TO ACCOMMODATE THE ALTERNATE DOOR. SAID REVISIONS MUST HAVE APPROVAL OF THE ENGINEER.
3. THE DOOR SHALL BE PROVIDED WITH THE COLD WEATHER PACKAGE AND AUTOMATIC LOCKS. THE DOOR MUST BE FABRICATED SO THAT IT WILL ACCEPT HEAVY SIDING ON BOTH THE INTERIOR AND EXTERIOR SURFACES WITHOUT FIELD APPLIED STUDS OR GIRTS.
4. INSTALLATION OF THE BIFOLD DOOR SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION MANUAL, AND SHALL BE SUPERVISED BY A REPRESENTATIVE OF THE MANUFACTURER. ONE COPY OF THE MANUAL SHALL BE FURNISHED TO THE OWNER AND ONE TO THE ENGINEER PRIOR TO CONSTRUCTION.
5. DOOR INSULATION SHALL BE 3 1/2" MELON-REINFORCED, FOIL-BACKED, FIBERGLASS INSULATION.
6. METAL SIDING SHALL BE 7/8" DEEP .032" ALUMINUM WITH A BAKED FINISH. SIDING SHALL BE MANUFACTURED BY REMOND METALS COMPANY OR APPROVED EQUAL. SIDING COLOR SHALL BE AS DETERMINED BY OWNER. SIDING BY ALTERNATE MANUFACTURERS WILL BE CONSIDERED, BUT THE SUBSTITUTION MUST HAVE WRITTEN APPROVAL OF THE ENGINEER. SIDING COMBINATION SHALL BE AS SHOWN:


PROVIDE 3 EXTRA 10'-0" LONG SHEETS FOR OWNER'S FUTURE USE.


7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (5 COPIES) TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING ITEMS:
BIFOLD DOOR
INSULATION
METAL SIDING
ELECTRICAL ITEMS

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL STATE AND LOCAL CODES AND REGULATIONS.
2. ALL ELECTRICAL CONTROL AND POWER WIRING SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER'S REPRESENTATIVE.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND SHALL PAY ALL INSPECTION FEES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER A CERTIFICATE OF INSPECTION UPON COMPLETION OF THE PROJECT.
4. ALL CONDUIT SHALL BE "EMT" WITH STEEL SET-SCREW COUPLINGS.
5. ALL WIRE SHALL BE COPPER - "THHN" INSULATION.
6. ALL 5.0. CORD SHALL BE FURNISHED BY THE DOOR MANUFACTURER. ALL CONNECTIONS ON THE DOOR AND TO MOTORS SHALL BE INSTALLED AT THE FACTORY, WITH LEADS RE-ROUTED FOR CONNECTIONS TO REMOVE CONFLICTS AS SHOWN ON "ELECTRICAL SCHEMATIC" ON THESE DRAWINGS.
7. DESIGN LOADS:
WEIGHT OF DOOR FRAME 1850 LBS.
WEIGHT OF SIDING AND INSULATION 1900 LBS. (2 PSF MAXIMUM)
TOTAL 3750 LBS.
WIND LOAD = 20 PSF



ELECTRICAL SCHEMATIC
SCALE = 3/4" = 1'-0"

 Lawes Consulting Engineers, Inc. ROUTE 2A WILLISTON, VERMONT 05495	STATE OF VERMONT DIVISION OF BUILDINGS 2 WESTERN AVENUE MONTPELIER, VERMONT 05602
	No. DATE REVISION
DRAWN BY: S.K.C. CHECKED BY: SKC/TFS DATE: 1/13/85	PROJ. No.: 8576 DATE: 1/13/85
HANGAR DOOR #3 HARTNESS AIRPORT SPRINGFIELD VERMONT	
SPECIFICATIONS AND DETAILS	



