

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, TYPE II, MINIMUM 5 SACKS PER CUBIC YARD.
WATER - PORTABLE WITH A MAXIMUM WATER CEMENT RATIO OF 0.55.
SLUMP - 3" TO 5".
ADMIXTURES - USE AIR ENTRAINING AGENT CONFORMING TO ASTM C260 WITH 4-6% TOTAL AIR. USE WATER REDUCING AGENT CONFORMING TO ASTM C494 IN ALL CONCRETE.
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 APPROVED CHAIRS 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 TO 200 PSF. ELEVATIONS OF BOTTOM OF FOOTINGS ARE SHOWN ON PLANS, BUT ARE SUBJECT TO ADJUSTION 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, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND BRACING NECESSARY TO SAFELY COMPLETE THE CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND CONTINUOUSLY DEWATER THE SITE TO FACILITATE CONSTRUCTION AND SAFE WORKING CONDITIONS.
8. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH ACI STANDARDS WILL BE REQUIRED FROM THE CONTRACTOR FOR REINFORCING STEEL PRIOR TO CONSTRUCTION.

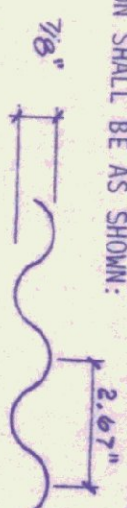
STRUCTURAL NOTES

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 - ANS/AWS D1.1" OF THE AMERICAN WELDING SOCIETY.
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
STRUCTURAL SHAPES
ASTM A36, Fy = 36,000 PSI
BOLTS
ASTM A325
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 NOTED FOR. BOLTS SHALL BE 3/4" MINIMUM WITH OPEN HOLES 1/16" LARGER, EXCEPT FOR COLUMN CONNECTIONS WHICH ARE 5/16" LARGER AND FOR THE LOADS INDICATED ON THE DRAWINGS OR THOSE GIVEN IN THE AISC UNIFORM LOAD TABLES, WHICHEVER IS GREATER.
5. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 2 MILS DRY FILM THICKNESS) WITH AN APPROVED RUSH IMITATING 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 HOLD 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

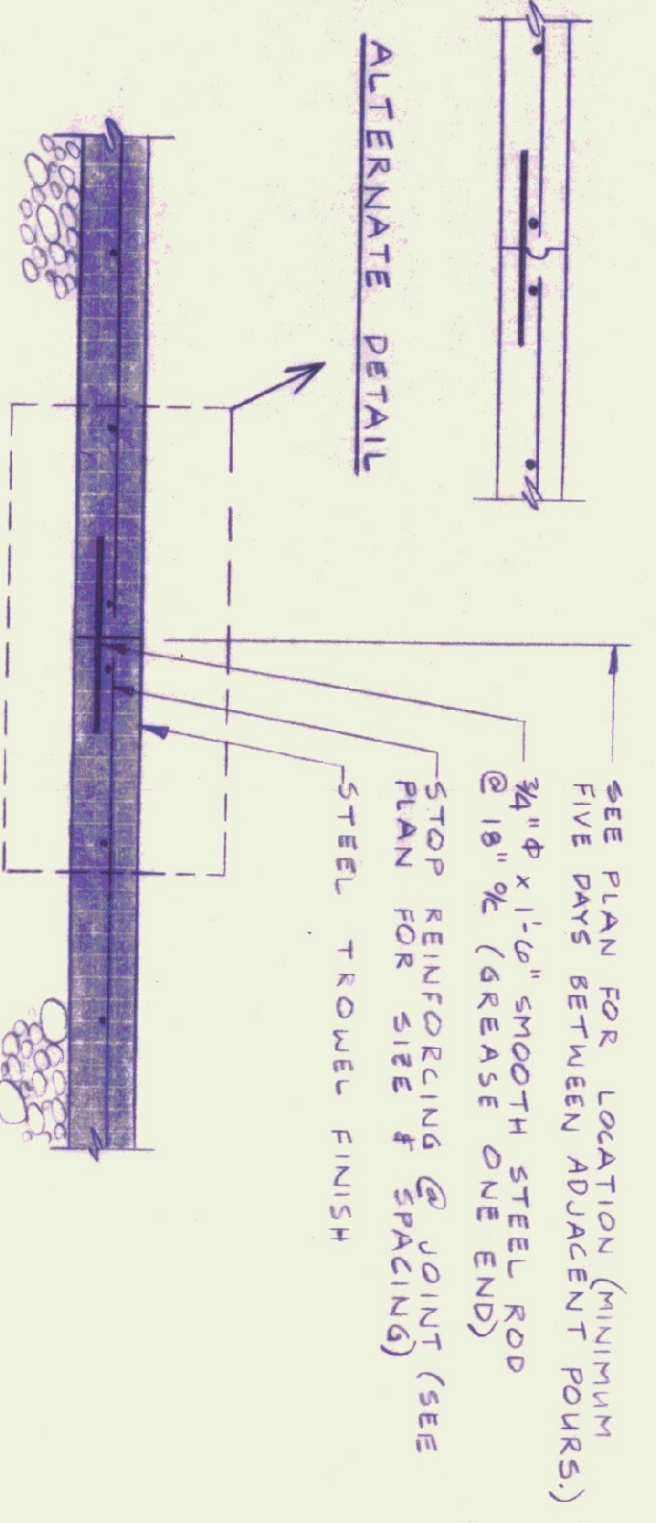
NO.	SIZE DESIGNATION	% PASSING
100	2"	100
40-70	1/2"	100
5-20	3/4"	100
4-8	1/4"	100

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., WILMINGTON, MASSACHUSETTS. THE ENGINEER'S QUALITY BY ALTERNATE MANUFACTURERS WILL BE CONSIDERED BY THE OWNER AND RECEIPT OF BIDDING. THE SUBSTITUTION MUST HAVE WRITTEN APPROVAL OF THE OWNER PRIOR TO MOHAR DOORS, INC. DESIGNED ALTERNATE MANUFACTURERS ARE FLEMING STEEL COMPANY AND ALTERNATE MANUFACTURER BE ACCEPTED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REVISION 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 METAL 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 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" INCH-REINFORCED, FOLDED, FIBERGLASS INSULATION.
6. METAL SIDING SHALL BE 7/8" DEEP, .032" ALUMINUM WITH A BAKED ENAMEL FINISH. SIDING SHALL BE DETERMINED BY OWNER. SIDING BY ALTERNATE MANUFACTURERS WILL BE COMPLETED. BID SUBSTITUTION MUST HAVE WRITTEN APPROVAL OF THE ENGINEER. SIDING CONFIGURATION SHALL BE AS SHOWN:

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

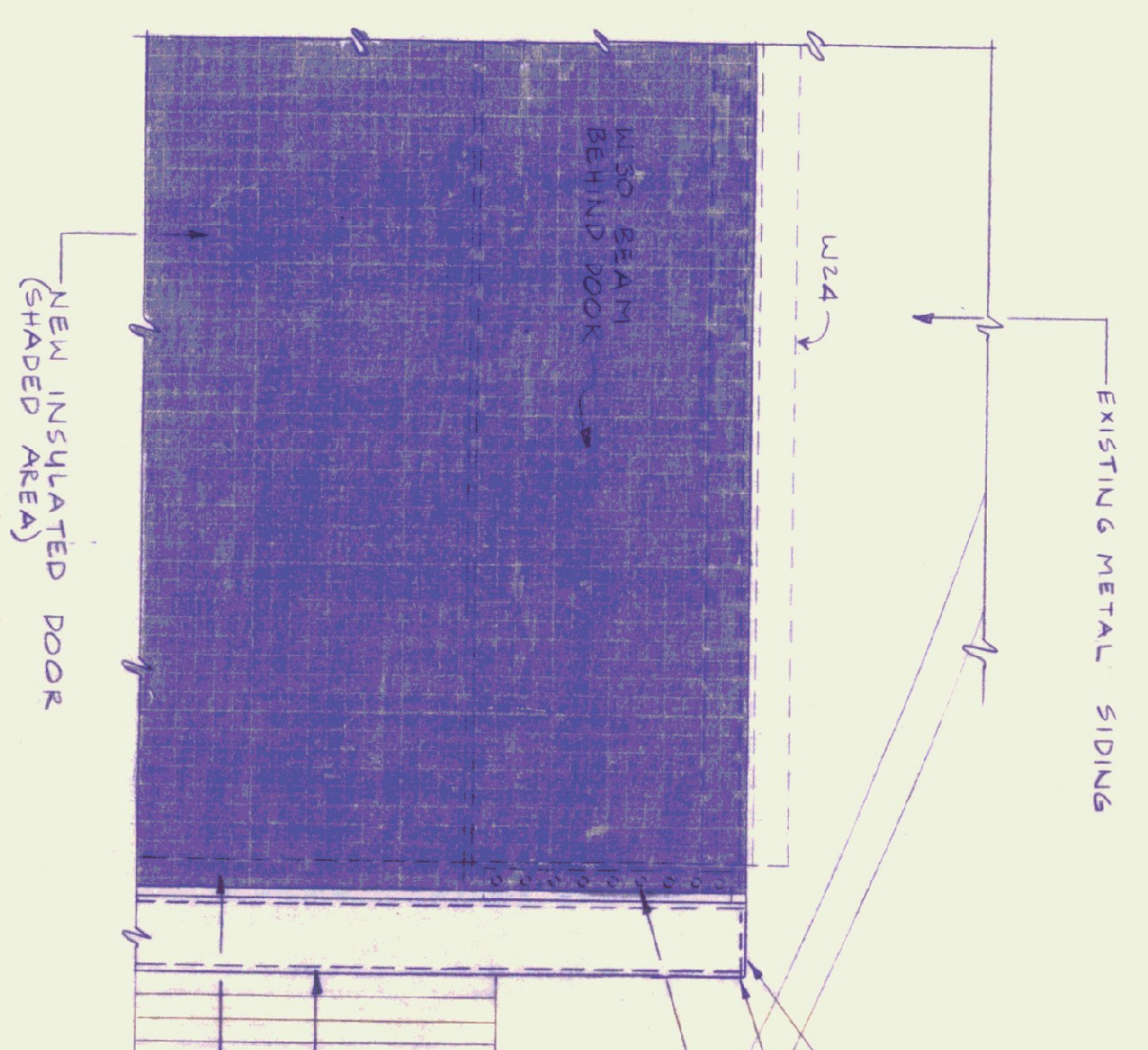
ELECTRICAL NOTES

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 "BMT" WITH STEEL SET-SCREW COUPLINGS.
5. ALL WIRE SHALL BE COPPER - "THHN" INSULATION.
6. ALL S.O. CORD SHALL BE FINISHED BY THE DOOR MANUFACTURER. ALL CONNECTIONS ON THE DOOR, TO CONTROLS AND TO MOTORS, SHALL BE INSTALLED BY THE FACTORY, WITH LEADS REQUIRED FOR CONNECTIONS TO REMOTE CONTROLS AS SHOWN ON "ELECTRICAL SCHEMATIC" ON THESE DRAWINGS.
7. DESIGN LOADS:
WEIGHT OF DOOR FRAME 1880 LBS.
WEIGHT OF SIDING AND INSULATION 1900 LBS. (2 PSF MAXIMUM)
TOTAL 3780 LBS.
WIND LOAD = 20 PSF



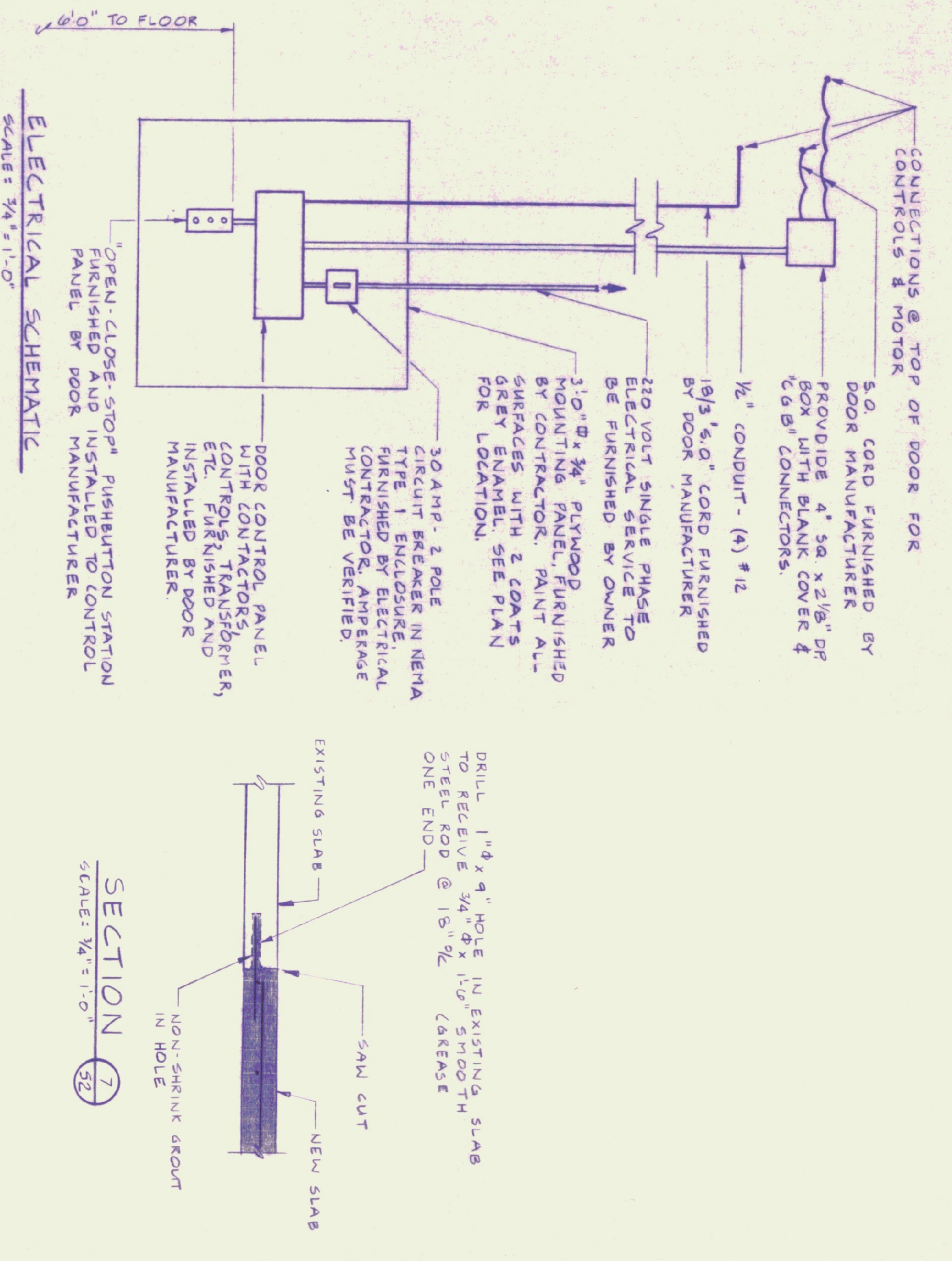
SLAB-ON-GRADE CONSTRUCTION JOINT

NOTE: SLABS TO BE CONTINUOUSLY CURED WITH WATER AND APPROVED SOAKING AGENT FOR A MINIMUM OF SEVEN DAYS.



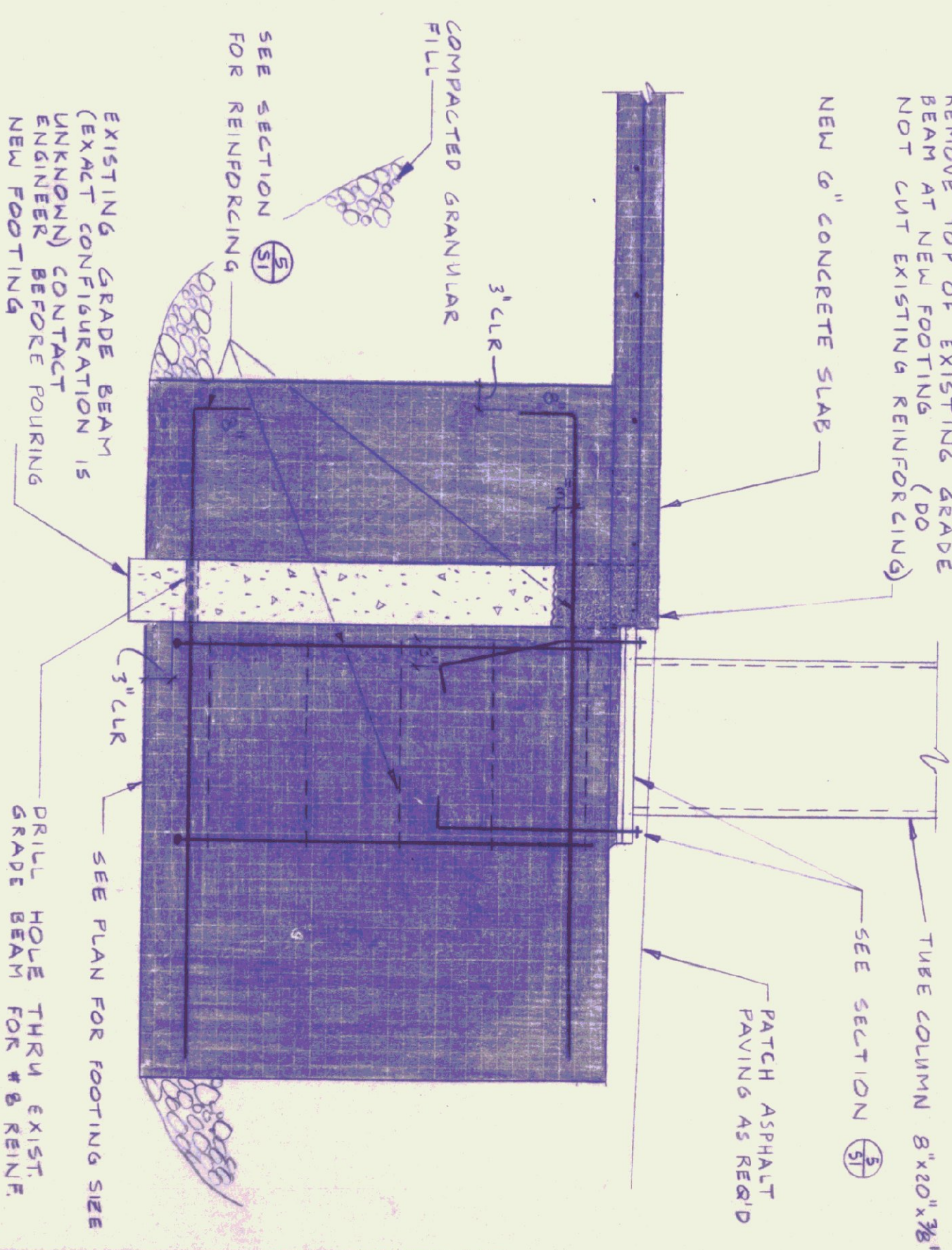
PARTIAL ELEVATION

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




ELECTRICAL SCHEMATIC

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



SECTION

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

 <p>Lawes Consulting Engineers, Inc. Route 2A Williston, Vermont 05495</p>	<p>STATE OF VERMONT DIVISION OF BUILDINGS 2 WESTERN AVENUE MONTPELIER, VERMONT 05602</p>	<p>NO. DATE REVISION</p>	<p>STATE OF VERMONT PROFESSIONAL ENGINEER STEPHEN K. HAYES NO. 5133</p>
	<p>HANGAR DOOR CALDONIA COUNTY STATE AIRPORT LYNDONVILLE VERMONT</p>	<p>SPECIFICATIONS AND DETAILS</p>	<p>PROJ. NO. 0575 DATE 11-23-85</p>