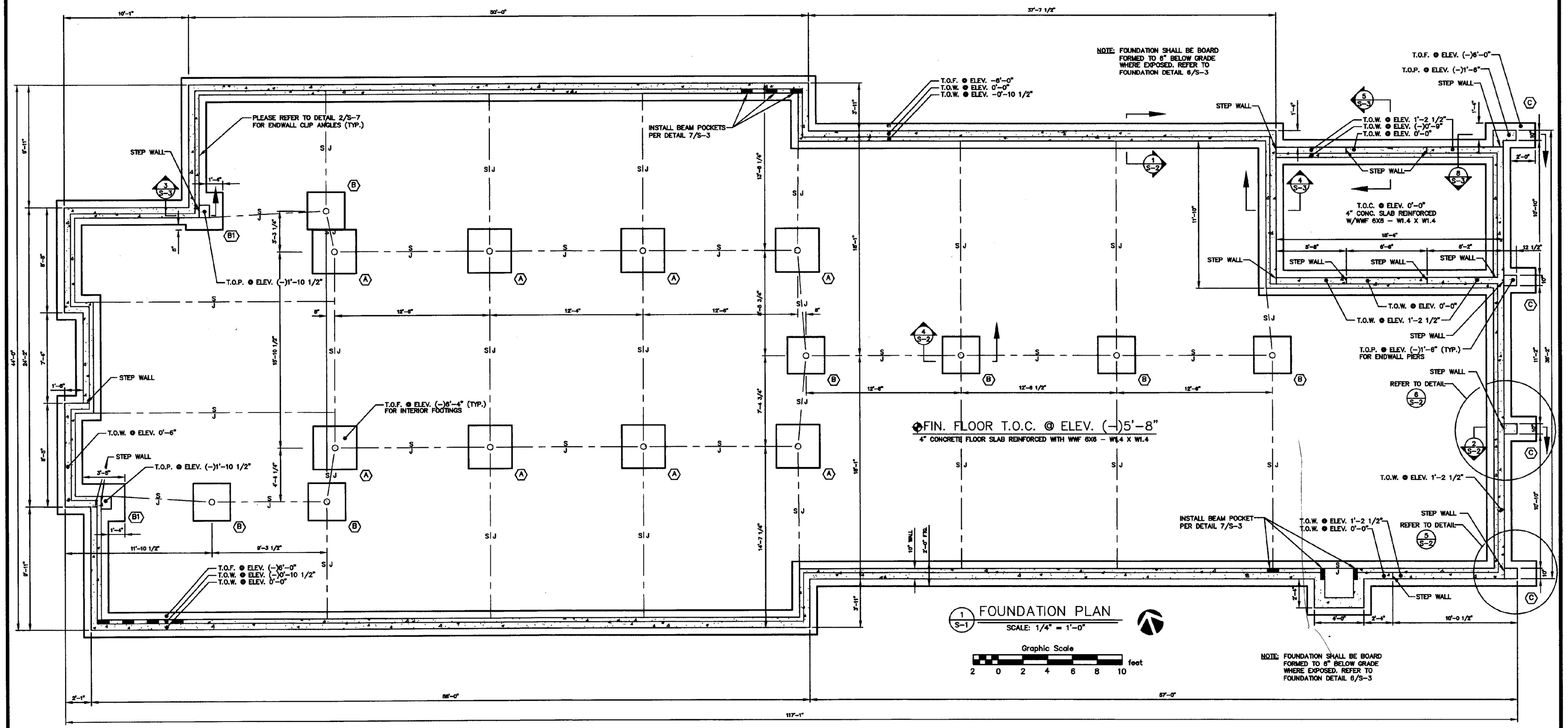
NOTE: REFER TO SHEET A6 FOR CONCRETE RELATED TO SHED.



1 S-1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

PROJECT SUMMARY

1. Project Description:

CONSTRUCTION OF A NEW WELCOME CENTER AT THE WILLISTON I-89 REST AREAS.

2. Project Contacts:

Project Architect – Duncan-Wieniewski Architecture
255 South Champlain Street
Burlington, VT 05401
Contact: Michael Wieniewski
(802) 864-6693

Project Engineer – Champlain Consulting Engineers
85 Prim Road, P.O. Box 453
Colchester, Vermont 05446
Contact: Greg Bombardier
(802) 863-8060

JOB SITE SAFETY NOTES:

(1) PROVIDE ADEQUATE SAFETY FOR ALL WORKERS AND THE GENERAL PUBLIC ON AND NEAR THE JOB SITE AT ALL TIMES.

(2) FOLLOW THE SAFETY PROCEDURES SET FORTH BY THE VERMONT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, (VOSHA), AT A MINIMUM, AT ALL TIMES.

(3) ALL HOLES SHALL BE FILLED, COVERED OR BARRICADED AT THE END OF EACH WORKING DAY.

(4) AT THE END OF EACH WORKDAY, ALL UNFINISHED WORK SHALL BE IDENTIFIED IN SUCH A MANNER SO AS TO WARN UNAUTHORIZED PERSONNEL FROM ENTERING OR USING THE UNFINISHED AREA.

GENERAL NOTES:

(1) THE STRUCTURAL PLANS AND DETAILS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL PLANS FOR THE WELCOME CENTER PREPARED BY DUNCAN WIENIEWSKI ARCHITECTURE. REFER TO ARCHITECTURAL DRAWINGS SHEET A-6 FOR CONCRETE RELATED TO SHED.

(2) PRIOR TO COMMENCING ANY CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. THE PROJECT ARCHITECT SHALL BE NOTIFIED IMMEDIATELY WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT DRAWINGS AND ACTUAL FIELD CONDITIONS.

(3) DO NOT SCALE DIMENSIONS FROM THE DRAWINGS. WHERE DIMENSIONS ON THE PROJECT DRAWINGS ARE UNCLEAR, CONTACT THE PROJECT ARCHITECT IMMEDIATELY FOR CLARIFICATION.

(4) IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE PROJECT DRAWINGS REFLECT THE LATEST REVISIONS.

(5) ALL WALLS, FOOTINGS AND PIERS SHALL BE CONSTRUCTED WITH CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. REINFORCING STEEL SHALL BE NEW, DEFORMED BARS, GRADE 60 CONFORMING WITH THE REQUIREMENTS OF ASTM SPECIFICATION A615.

(6) CONCRETE USED FOR FLOOR SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. AIR-ENTRAINED.

(7) WELDED WIRE FABRIC SHALL BE PROVIDED IN FLAT SHEETS AND SHALL BE PLAIN, COLD-DRAWN, ELECTRICALLY WELDED FABRIC CONFORMING TO ASTM A185, AND WIRE MEETING ASTM A82.

(8) ALL FOOTINGS SHALL BE PLACED ON COMPACTED GRANULAR BACKFILL OR UNDISTURBED EARTH HAVING A MINIMUM ALLOWABLE BEARING STRESS OF FOUR TONS PER SQUARE FOOT.

(9) COMMONLY USED ABBREVATIONS ARE AS FOLLOWS:
T.O.W. – TOP OF FOUNDATION WALL
T.O.F. – TOP OF FOUNDATION FOOTING
T.O.C. – TOP OF CONCRETE SLAB
T.O.S. – TOP OF STEEL
T.O.P. – TOP OF CONCRETE PIER

(10) CONSTRUCTION OR CONTRACTION JOINTS IN FLOOR SLABS AND WALLS SHALL BE PLACED AT NOT GREATER THAN TWENTY-FOUR (24) FEET ON-CENTERS.

(11) RELATED SPECIFICATION SECTIONS:
THE FOLLOWING SPECIFICATION SECTIONS SHALL BE REFERENCED FROM THE PROJECT MANUAL TO SUPPORT THE BUILDING DRAWINGS FOR THIS PROJECT.
SECTION 01340 – SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
SECTION 01410 – TESTING SERVICES
SECTION 03300 – CAST-IN-PLACE CONCRETE
SECTION 05100 – STRUCTURAL STEEL
SECTION 05210 – STEEL JOISTS
SECTION 05300 – METAL DECKING
SECTION 06100 – ROUGH CARPENTRY

(12) THE 1997 "BOCA" NATIONAL BUILDING CODE WAS USED AS A REFERENCE TO DEVELOP THE DESIGN LOAD CRITERIA FOR THIS PROJECT. THE DESIGN LOADS ARE SUMMARIZED AS FOLLOWS:

ROOF
DEAD LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 20 PSF

LIVE LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 40 PSF (SNOW)

LOFT
DEAD LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 15 PSF

LIVE LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 125 PSF (MECHANICHAL)

FLOOR
DEAD LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 78 PSF

LIVE LOAD:
(a) UNIFORM DISTRIBUTED LOAD = 100 PSF (PUBLIC PLACE)

(13) THE GENERAL CONTRACTOR SHALL CONTACT "DIG SAFE" AT (1-888-225-4977) SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION TO ACCURATELY ESTABLISH THE LOCATION OF ALL UNDERGROUND UTILITIES LOCATED ON THE PROJECT SITE.

(14) ANCHOR BOLTS SHALL BE ASTM A307 WITH THE FOLLOWING MINIMUM EMBEDMENT LENGTHS:
3/4" DIA. – 12" MIN. EMBEDMENT (INCLUDES 5" HOOK)
PROJECTED 4 1/2" MIN.

(15) COORDINATE ALL NECESSARY UTILITY PENETRATIONS WITH RESPECTIVE SUBCONTRACTORS.

(16) STRUCTURAL DRAWINGS REF. FF. ELEV. @ 0.00' = CIVIL DRAWINGS REF. ELEV. @ 605.00'.

FOOTING				PIER		
MARK	DIMENSION	REINFORCING	DOWELS	DIMENSION	REINFORCING	TIES
A	3'-6" X 3'-6" X 12"	4-#5 BARS, E.W.	—	—	—	—
B	3'-0" X 3'-0" X 12"	3-#5 BARS, E.W.	—	—	—	—
B1	3'-0" X 3'-0" X 12"	3-#5 BARS, E.W.	4-#5 BARS	10" X 12"	4-#5 BARS	#3 BARS @ 10" O.C.
C	2'-0" X 3'-2" X 12"	3-#5 BARS, E.W.	4-#5 BARS	10" X 12 1/2"	4-#5 BARS	#3 BARS @ 10" O.C.

2 S-1 FOOTING AND PIER SCHEDULE

REVISIONS	BY

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NO. 4496
REGISTERED
PROFESSIONAL ENGINEER

INTERSTATE 89 SOUTHBOUND
WILLISTON INFORMATION CENTER
WILLISTON VERMONT

FOUNDATION PLAN

PROJECT # IM-BRLDG(4)

DRAWN	CCE
CHECKED	GJB
SCALE	1/4" =1'-0"
DATE	01/16/01
JOB NO.	93114
SHEET	S1sb

OF 8 SHEETS

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