



No Child Left Inside

Developing Outdoor Learning at PFE

Why outdoor and experiential education?

- Enhances student achievement, particularly in STEM subjects (Klemmer, et al. 2005)
- Fosters critical thinking and group problem solving (Ernst & More 2004)
- Nurtures social and emotional skills
- Generates stewardship of the natural world
- Reflects the values and resources in Transylvania County
- Responds to students' need for experience that prepares them for higher education and the modern workplace (Pellegrino & Hilton, Eds. 2012)



Outdoor Classroom:

Purpose: Have an outdoor learning space to be used for standard classroom instruction outside or to have specialized instruction related to science/outdoor topics.

Proposed Location: End of the K-1 hallway

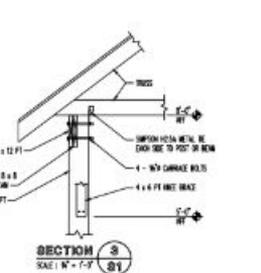
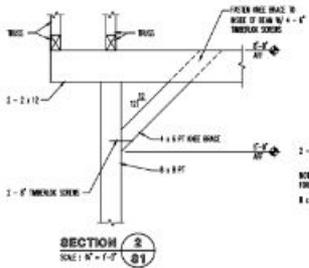
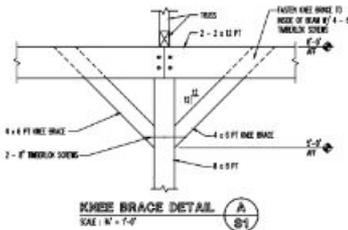
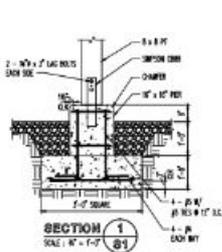
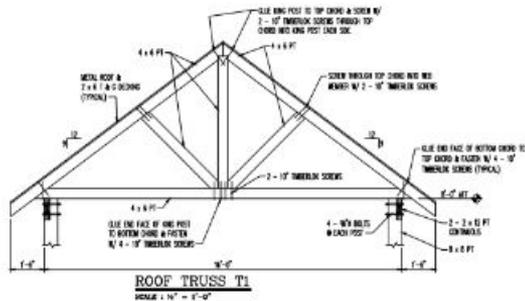
Timeframe: Completed by March 2017.

Resources: Go Green Builders has volunteered all design and labor for the project. ROPE is seeking donations for building materials.



Click here to see a similar project by
Going Green Builders: [Sutton Knob
Pavilion Project Video](#)

THIS DRAWING IS A COMPONENT OF GENERAL AND SHALL NOT BE REPRODUCED, ALIENED OR RELEASED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF THE INVENTOR. THESE CHANGES ARE PROTECTED BY THE U.S. GOVERNMENT COPYRIGHT LAWS AND © COPYRIGHT 2015, ROYAL ENGINEERING, INC. ALL RIGHTS RESERVED.

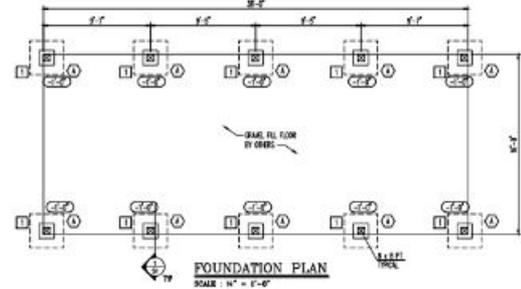


GENERAL CRITERIA
S_u = 65 ksi S_y = 33 ksi
S_u = 65 ksi S_y = 33 ksi
SEA CATEGORY: 2
SEA CLASS: 3
DESIGN CATEGORY: C
R = 1.5 = 1.8
OSCE LATERAL FORCE
RESISTING SYSTEM
OS BRIDGE MEMBER NAME:
ANALYSIS: PRESSURE S COEFFICIENT
LATERAL FORCE
WIND SEAN: 3.4E

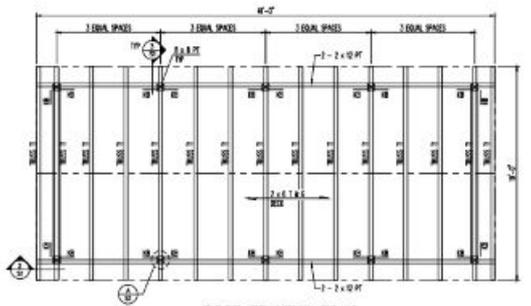
ROOF LOADS
L₁ = 10 PSF
D_L = 10 PSF
S_L = 30 PSF

WIND CRITERIA
WIND SPEED: 90 MPH
WIND DIR: 10
EXPOSURE: C = 1.8

SNOW CRITERIA
GROUND SNOW LOAD: 0 PSF
WIND SEAN: 3.4E



- FOOTING NOTES**
- THE FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2,500 PSF.
 - ALL FOOTINGS SHALL BE PLACED ON UNDEVELOPED OR UNCOMPACTED FILL CONFORMING TO MSJ 02L 02070. ALL EXISTING EXCAVATIONS SHALL BE DRAINED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE TO PREVENT SOIL BEARING CAPACITY.
 - ALL CONCRETE SHALL OBTAIN A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. ALL CONCRETE BE FORMED WITH A SLUMP OF 2 - 3 INCHES. IF ADDITIONAL SLUMP UP TO 4\"/>
- FOOTING SCHEDULE**
- 1 - 2'-0" x 1'-0" x 1'-0" x 1'-0" PER ROW
- PIER SCHEDULE**
- 1 - 10" x 10" x 10" x 10" - 88 BARS
2 - 10" x 10" x 10" x 10" - 88 BARS



CODE
CODE: 2015 NORTH CAROLINA STATE BUILDING CODE
RISK: 7-10

MATERIAL SPECS
WIND MEMBER: 2X4 OR 2X6 PRESSURE TREATED S.E.: CONFORM WITH TABLE

LEGEND
10 - 4 x 4 KNEE BRACE

REI
ROYAL
ENGINEERING
INC.
P.O. BOX 1248
GREENSBORO, NC
3270 GREEN LAKE
P.O. BOX 1248
GREENSBORO, NC
27402-1248
royal@rei-engineering.com

1	FOUNDATION PLAN
2	ROOF TRUSS T1
3	SECTION 1
4	SECTION 2
5	SECTION 3
6	KNEE BRACE DETAIL A
7	FOUNDATION PLAN
8	ROOF FRAMING PLAN
9	SECTION 1
10	SECTION 2
11	SECTION 3
12	KNEE BRACE DETAIL A
13	FOUNDATION PLAN
14	ROOF FRAMING PLAN
15	SECTION 1
16	SECTION 2
17	SECTION 3
18	KNEE BRACE DETAIL A
19	FOUNDATION PLAN
20	ROOF FRAMING PLAN
21	SECTION 1
22	SECTION 2
23	SECTION 3
24	KNEE BRACE DETAIL A
25	FOUNDATION PLAN
26	ROOF FRAMING PLAN
27	SECTION 1
28	SECTION 2
29	SECTION 3
30	KNEE BRACE DETAIL A
31	FOUNDATION PLAN
32	ROOF FRAMING PLAN
33	SECTION 1
34	SECTION 2
35	SECTION 3
36	KNEE BRACE DETAIL A
37	FOUNDATION PLAN
38	ROOF FRAMING PLAN
39	SECTION 1
40	SECTION 2
41	SECTION 3
42	KNEE BRACE DETAIL A
43	FOUNDATION PLAN
44	ROOF FRAMING PLAN
45	SECTION 1
46	SECTION 2
47	SECTION 3
48	KNEE BRACE DETAIL A
49	FOUNDATION PLAN
50	ROOF FRAMING PLAN
51	SECTION 1
52	SECTION 2
53	SECTION 3
54	KNEE BRACE DETAIL A
55	FOUNDATION PLAN
56	ROOF FRAMING PLAN
57	SECTION 1
58	SECTION 2
59	SECTION 3
60	KNEE BRACE DETAIL A
61	FOUNDATION PLAN
62	ROOF FRAMING PLAN
63	SECTION 1
64	SECTION 2
65	SECTION 3
66	KNEE BRACE DETAIL A
67	FOUNDATION PLAN
68	ROOF FRAMING PLAN
69	SECTION 1
70	SECTION 2
71	SECTION 3
72	KNEE BRACE DETAIL A
73	FOUNDATION PLAN
74	ROOF FRAMING PLAN
75	SECTION 1
76	SECTION 2
77	SECTION 3
78	KNEE BRACE DETAIL A
79	FOUNDATION PLAN
80	ROOF FRAMING PLAN
81	SECTION 1
82	SECTION 2
83	SECTION 3
84	KNEE BRACE DETAIL A
85	FOUNDATION PLAN
86	ROOF FRAMING PLAN
87	SECTION 1
88	SECTION 2
89	SECTION 3
90	KNEE BRACE DETAIL A
91	FOUNDATION PLAN
92	ROOF FRAMING PLAN
93	SECTION 1
94	SECTION 2
95	SECTION 3
96	KNEE BRACE DETAIL A
97	FOUNDATION PLAN
98	ROOF FRAMING PLAN
99	SECTION 1
100	SECTION 2
101	SECTION 3
102	KNEE BRACE DETAIL A
103	FOUNDATION PLAN
104	ROOF FRAMING PLAN
105	SECTION 1
106	SECTION 2
107	SECTION 3
108	KNEE BRACE DETAIL A
109	FOUNDATION PLAN
110	ROOF FRAMING PLAN
111	SECTION 1
112	SECTION 2
113	SECTION 3
114	KNEE BRACE DETAIL A
115	FOUNDATION PLAN
116	ROOF FRAMING PLAN
117	SECTION 1
118	SECTION 2
119	SECTION 3
120	KNEE BRACE DETAIL A
121	FOUNDATION PLAN
122	ROOF FRAMING PLAN
123	SECTION 1
124	SECTION 2
125	SECTION 3
126	KNEE BRACE DETAIL A
127	FOUNDATION PLAN
128	ROOF FRAMING PLAN
129	SECTION 1
130	SECTION 2
131	SECTION 3
132	KNEE BRACE DETAIL A
133	FOUNDATION PLAN
134	ROOF FRAMING PLAN
135	SECTION 1
136	SECTION 2
137	SECTION 3
138	KNEE BRACE DETAIL A
139	FOUNDATION PLAN
140	ROOF FRAMING PLAN
141	SECTION 1
142	SECTION 2
143	SECTION 3
144	KNEE BRACE DETAIL A
145	FOUNDATION PLAN
146	ROOF FRAMING PLAN
147	SECTION 1
148	SECTION 2
149	SECTION 3
150	KNEE BRACE DETAIL A
151	FOUNDATION PLAN
152	ROOF FRAMING PLAN
153	SECTION 1
154	SECTION 2
155	SECTION 3
156	KNEE BRACE DETAIL A
157	FOUNDATION PLAN
158	ROOF FRAMING PLAN
159	SECTION 1
160	SECTION 2
161	SECTION 3
162	KNEE BRACE DETAIL A
163	FOUNDATION PLAN
164	ROOF FRAMING PLAN
165	SECTION 1
166	SECTION 2
167	SECTION 3
168	KNEE BRACE DETAIL A
169	FOUNDATION PLAN
170	ROOF FRAMING PLAN
171	SECTION 1
172	SECTION 2
173	SECTION 3
174	KNEE BRACE DETAIL A
175	FOUNDATION PLAN
176	ROOF FRAMING PLAN
177	SECTION 1
178	SECTION 2
179	SECTION 3
180	KNEE BRACE DETAIL A
181	FOUNDATION PLAN
182	ROOF FRAMING PLAN
183	SECTION 1
184	SECTION 2
185	SECTION 3
186	KNEE BRACE DETAIL A
187	FOUNDATION PLAN
188	ROOF FRAMING PLAN
189	SECTION 1
190	SECTION 2
191	SECTION 3
192	KNEE BRACE DETAIL A
193	FOUNDATION PLAN
194	ROOF FRAMING PLAN
195	SECTION 1
196	SECTION 2
197	SECTION 3
198	KNEE BRACE DETAIL A
199	FOUNDATION PLAN
200	ROOF FRAMING PLAN
201	SECTION 1
202	SECTION 2
203	SECTION 3
204	KNEE BRACE DETAIL A
205	FOUNDATION PLAN
206	ROOF FRAMING PLAN
207	SECTION 1
208	SECTION 2
209	SECTION 3
210	KNEE BRACE DETAIL A
211	FOUNDATION PLAN
212	ROOF FRAMING PLAN
213	SECTION 1
214	SECTION 2
215	SECTION 3
216	KNEE BRACE DETAIL A
217	FOUNDATION PLAN
218	ROOF FRAMING PLAN
219	SECTION 1
220	SECTION 2
221	SECTION 3
222	KNEE BRACE DETAIL A
223	FOUNDATION PLAN
224	ROOF FRAMING PLAN
225	SECTION 1
226	SECTION 2
227	SECTION 3
228	KNEE BRACE DETAIL A
229	FOUNDATION PLAN
230	ROOF FRAMING PLAN
231	SECTION 1
232	SECTION 2
233	SECTION 3
234	KNEE BRACE DETAIL A
235	FOUNDATION PLAN
236	ROOF FRAMING PLAN
237	SECTION 1
238	SECTION 2
239	SECTION 3
240	KNEE BRACE DETAIL A
241	FOUNDATION PLAN
242	ROOF FRAMING PLAN
243	SECTION 1
244	SECTION 2
245	SECTION 3
246	KNEE BRACE DETAIL A
247	FOUNDATION PLAN
248	ROOF FRAMING PLAN
249	SECTION 1
250	SECTION 2
251	SECTION 3
252	KNEE BRACE DETAIL A
253	FOUNDATION PLAN
254	ROOF FRAMING PLAN
255	SECTION 1
256	SECTION 2
257	SECTION 3
258	KNEE BRACE DETAIL A
259	FOUNDATION PLAN
260	ROOF FRAMING PLAN
261	SECTION 1
262	SECTION 2
263	SECTION 3
264	KNEE BRACE DETAIL A
265	FOUNDATION PLAN
266	ROOF FRAMING PLAN
267	SECTION 1
268	SECTION 2
269	SECTION 3
270	KNEE BRACE DETAIL A
271	FOUNDATION PLAN
272	ROOF FRAMING PLAN
273	SECTION 1
274	SECTION 2
275	SECTION 3
276	KNEE BRACE DETAIL A
277	FOUNDATION PLAN
278	ROOF FRAMING PLAN
279	SECTION 1
280	SECTION 2
281	SECTION 3
282	KNEE BRACE DETAIL A
283	FOUNDATION PLAN
284	ROOF FRAMING PLAN
285	SECTION 1
286	SECTION 2
287	SECTION 3
288	KNEE BRACE DETAIL A
289	FOUNDATION PLAN
290	ROOF FRAMING PLAN
291	SECTION 1
292	SECTION 2
293	SECTION 3
294	KNEE BRACE DETAIL A
295	FOUNDATION PLAN
296	ROOF FRAMING PLAN
297	SECTION 1
298	SECTION 2
299	SECTION 3
300	KNEE BRACE DETAIL A
301	FOUNDATION PLAN
302	ROOF FRAMING PLAN
303	SECTION 1
304	SECTION 2
305	SECTION 3
306	KNEE BRACE DETAIL A
307	FOUNDATION PLAN
308	ROOF FRAMING PLAN
309	SECTION 1
310	SECTION 2
311	SECTION 3
312	KNEE BRACE DETAIL A
313	FOUNDATION PLAN
314	ROOF FRAMING PLAN
315	SECTION 1
316	SECTION 2
317	SECTION 3
318	KNEE BRACE DETAIL A
319	FOUNDATION PLAN
320	ROOF FRAMING PLAN
321	SECTION 1
322	SECTION 2
323	SECTION 3
324	KNEE BRACE DETAIL A
325	FOUNDATION PLAN
326	ROOF FRAMING PLAN
327	SECTION 1
328	SECTION 2
329	SECTION 3
330	KNEE BRACE DETAIL A
331	FOUNDATION PLAN
332	ROOF FRAMING PLAN
333	SECTION 1
334	SECTION 2
335	SECTION 3
336	KNEE BRACE DETAIL A
337	FOUNDATION PLAN
338	ROOF FRAMING PLAN
339	SECTION 1
340	SECTION 2
341	SECTION 3
342	KNEE BRACE DETAIL A
343	FOUNDATION PLAN
344	ROOF FRAMING PLAN
345	SECTION 1
346	SECTION 2
347	SECTION 3
348	KNEE BRACE DETAIL A
349	FOUNDATION PLAN
350	ROOF FRAMING PLAN
351	SECTION 1
352	SECTION 2
353	SECTION 3
354	KNEE BRACE DETAIL A
355	FOUNDATION PLAN
356	ROOF FRAMING PLAN
357	SECTION 1
358	SECTION 2
359	SECTION 3
360	KNEE BRACE DETAIL A
361	FOUNDATION PLAN
362	ROOF FRAMING PLAN
363	SECTION 1
364	SECTION 2
365	SECTION 3
366	KNEE BRACE DETAIL A
367	FOUNDATION PLAN
368	ROOF FRAMING PLAN
369	SECTION 1
370	SECTION 2
371	SECTION 3
372	KNEE BRACE DETAIL A
373	FOUNDATION PLAN
374	ROOF FRAMING PLAN
375	SECTION 1
376	SECTION 2
377	SECTION 3
378	KNEE BRACE DETAIL A
379	FOUNDATION PLAN
380	ROOF FRAMING PLAN
381	SECTION 1
382	SECTION 2
383	SECTION 3
384	KNEE BRACE DETAIL A
385	FOUNDATION PLAN
386	ROOF FRAMING PLAN
387	SECTION 1
388	SECTION 2
389	SECTION 3
390	KNEE BRACE DETAIL A
391	FOUNDATION PLAN
392	ROOF FRAMING PLAN
393	SECTION 1
394	SECTION 2
395	SECTION 3
396	KNEE BRACE DETAIL A
397	FOUNDATION PLAN
398	ROOF FRAMING PLAN
399	SECTION 1
400	SECTION 2
401	SECTION 3
402	KNEE BRACE DETAIL A
403	FOUNDATION PLAN
404	ROOF FRAMING PLAN
405	SECTION 1
406	SECTION 2
407	SECTION 3
408	KNEE BRACE DETAIL A
40	

Native Garden:

Purpose: The garden will help facilitate lessons on life cycles, animal migration, and adaptations and will be a nationally registered Monarch Way Station.

Proposed Location: Near outdoor classroom.

Timeframe: Begins March 2017

Lori Stroup of the Pisgah Ranger District will donate seeds for the garden, Gaia Herbs will donate compost, and the local Master Gardeners club has volunteered to help with plant labels.



Community Involvement:

- 80+ PFE parents/families expressed interest in volunteering to help with this initiative.
- Platt Architecture provided site consultation.
- Going Green Builders has donated architectural plans and labor to complete the project.
- The Ranger Organization of Parents and Teachers (ROPE) is coordinating some aspects of the project and fundraising efforts.
- A wide-range of community organizations have offered teaching resources, lessons, and teacher training.



Our Proposal:

- Seeking BOE approval for building the outdoor classroom
- PFES Admin/ROPE will work to secure materials at a discounted rate
- PFES Admin/ROPE will continue to seek donations/funds

