

Scope of Work

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- 4 **I. Scope of Solicitation**
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I. SCOPE OF SOLICITATION

13 Clemson University desires to hire a contractor to build a fiber optic network to multiple off
14 campus sites. This RFP is for the initial fiber build to the off campus locations identified in
15 Section III, Scope of Work, #2 along with establishing an annual contract with one-year renewal
16 options for future on campus and off campus work to include labor and materials as identified in
17 Section III, Scope of Work , #3.

AWARD

19 Award will be made to one Offeror. Award will be made to the highest ranked, responsive and
20 responsible Offeror whose offer is determined to be the most advantageous to the University.
21

MAXIMUM CONTRACT PERIOD – ESTIMATED

23 (Dates provided are estimates only. Any resulting contract will, begin on the date specified in
24 the notice of award.)
25

For Initial Project:

27 Initial Start Date: 03/01/2013. End Date: 06/30/2013. Clemson University anticipates
28 completion of the initial project outlined in Section III, Scope of Work , #2 prior to 06/30/2013.
29

Contract for Future Work:

31 Initial Start Date: 03/01/2013. End Date: 02/28/2018.
32

Timeline for Project Completion:

34 These services are estimated to take place March 2013 through June 2013. Clemson University
35 prefers that the project be completed prior to June 30, 2013; however, Clemson University will
36 retain control in the selection of the start date for project initiation as well as project completion,
37 which will be specified in the notice of award.
38

39
40 **Deadline for Receipt of Questions:** All questions must be emailed to Tammy Crooks at
41 duncant@clemsun.edu prior to January 31, 2013, 12:00 Noon ET.
42

43 **Mandatory Site Visit:** A Mandatory Site Visit will be held on January 28, 2013, 1:00 PM ET,
44 Clemson University Procurement Services, Administrative Services Building, 108 Perimeter
45 Road, Clemson, SC 29634, Room 102 with a maximum of two representatives from each
46 Offeror.

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48

49 **II. INSTRUCTIONS TO OFFERORS**

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51 **DESCRIPTIVE LITERATURE – LABELLING:** Include Offeror’s name on the cover of any
52 specifications or descriptive literature submitted with your proposal.

53

54 **SUBMITTING YOUR PROPOSAL:** Regardless of specific requirements below or in this
55 document, Offerors are required to submit their proposal electronically through the Clemson
56 University online bidding system. To do so you must login (registering first) at
57 <https://sciquest.ionwave.net/prod/default.aspx?company=clemson>, and follow specific
58 instructions for this solicitation. You should register several days in advance of the bid closing
59 date so you can be approved and login in time to submit a response. Do NOT simply email or
60 mail in proposals based on this scope of work document. You must attach your complete
61 proposal response as two separate .pdf files in the online bidding system - one file as a technical
62 only (i.e. no cost information) and one file as a cost proposal. Submit any additional files if
63 required as redacted proposals. These attachments must address all the specific requirements
64 outlined in Section II, Instructions to Offerors, as well as Section III, Scope of
65 Work/Specifications.

66

67 **REQUIRED PROPOSAL CONTENT:** Qualified Offerors are encouraged to submit a
68 proposal to build the fiber optic network as outlined within this solicitation specification. Each
69 proposal must meet the minimum requirements contained within this solicitation to be
70 considered for a contract award.

71

72 **INFORMATION FOR OFFERORS TO SUBMIT** - In addition to information requested
73 elsewhere in this solicitation, Offerors should submit the following information for purposes of
74 evaluation:

75

1. Cover Letter

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77 Offeror’s shall provide a cover letter that contains a commitment to provide the
78 products and services described in this solicitation. The cover letter must
79 include the name and signature of a representative of the Offeror who is
80 authorized to negotiate a contract with the University and should summarize the
81 overall benefits to selecting your company and what your company considers to
82 be the most important factors involved in the selection of outside plant fiber
83 optic installation contractor.

83

84 2. Table of Exceptions

85

86 A summary must state whether your proposal does or does not fully comply
87 with the requirements defined in this solicitation and shall provide a detailed list
88 of exceptions to the Scope of Work or other solicitation requirements including
any attachments. This list must be in table form and must identify the page,

89 section number, provision and specific exception, non-conformance and/or
90 substitute language proposed. Failure to identify any specific items of non-
91 compliance will result in the University assuming compliance. The University,
92 at its sole discretion, may modify or reject any exception or proposed change,
93 and an exception may also make a proposal non-responsive.
94

95 **3. Executive Summary**

96 The Executive Summary shall condense and highlight the contents of the
97 solution being proposed by the Contractor in such a way as to provide the
98 Evaluation Committee with a broad understanding of the Contractor's Technical
99 Proposal. Contractor's must present their understanding of the project scope of
100 work. Contractor's shall summarize how their Technical Proposal meets the
101 requirements of the Request for Proposal, and why they are best qualified to
102 perform the work required herein.
103

104 **4. References**

105 The Contractor shall provide a minimum of 4 references with contact information
106 including company name, contact person, mailing address, email address, and
107 telephone number. Three of these references must be from local accounts
108 currently serviced within a 250-mile radius, for whom comparable work has been
109 performed. Clemson reserves the right to check any reference(s), regardless of
110 the source of the reference information, including but not limited to, those that are
111 identified by the company in the proposal, those indicated through the explicitly
112 specified projects, those that are identified during the review of the proposal, or
113 those that result from communication with other entities involved with similar
114 projects. Failure to include references may make a proposal non-responsive.
115

116 Information to be requested and evaluated from references may include, but is not
117 limited to, some or all of the following: project description and background, job
118 performed, functional and technical abilities, communication skills and
119 timeliness, cost and schedule estimates and accuracy, problems (poor quality
120 deliverables, contract disputes, work stoppages, etc.), overall performance, and
121 whether or not the reference would rehire the firm or individual.
122

123 **5. Office Location**

124 The Offeror's office location responsible for performance pursuant to an award of
125 a contract with Clemson University must be identified along with the location of
126 all technicians responding to Clemson University's service needs as indicated in #
127 6B below.
128

129 **6. Qualifications:**

130
131 **A. Summary of Contractor's Corporate Experience:** The Contractor shall
132 provide a summary matrix listing the Contractor's previous projects similar to
133 this Request for Proposal in size, scope and complexity. The Evaluation

134 Committee will use no more than three (3) narrative project descriptions
135 submitted by the Contractor during its evaluation of the proposal.

136

137 The Contractor must provide narrative descriptions to highlight the
138 similarities between their experience and this Request for Proposal. These
139 descriptions must include:

140

141 1) The time period of the project;

142 2) The contractor's responsibilities;

143 3) For reference purposes, a customer name (including the name of a contact
144 person, a current telephone number, a facsimile number and e-mail
145 address);

146 4) Each project description shall identify whether the work was performed as
147 the prime contractor or as a subcontractor. If a Contractor performed as
148 the prime contractor, the description must provide the originally scheduled
149 completion date and budget, as well as the actual (or currently planned)
150 completion date and actual (or currently planned) budget.

151

152 Contractor and subcontractor(s) experience must be listed separately.
153 Narrative descriptions submitted for subcontractors must be specifically
154 identified as subcontractor projects.

155

156 B. **Contractor Key Staff:** The Contractor is expected to propose sufficient staff
157 with the requisite skills and abilities to meet all requirements in this RFP. The
158 Contractor must identify the personnel and provide resumes and references for
159 the identified key staff and the vendor equipment for which they are certified
160 to operate or support. If the Contractor's methodology deems other staff as
161 key, the Contractor must identify the positions, provide representative job
162 descriptions, identify the personnel and provide resumes and references. In
163 addition, the Contractor must provide representative job descriptions for any
164 other positions identified in the Contractor's proposed staffing plan.

165

166 Provide narrative explanation of your technician training program.

167

168 7. Services:

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170 A. Provide narrative explanation of policies and procedures to include:

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172 • Obtaining SCDOT and railroad Permits

173 • Duke Energy pole attachment agreements

174 • Notifying PUPS811

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176 8. Insurance

177 The successful Offeror shall provide satisfactory evidence of all required
178 insurance coverage and licenses PRIOR TO PERFORMANCE or AS PART OF
179 TECHNICAL PROPOSAL.

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9. Materials/Supplies/Parts

Offerors in response to this RFP shall propose a turnkey system, including 100% parts, materials, supplies, equipment, tools, labor, travel, meals, lodging, all expenses, and on-site time for any maintenance, remedial and emergency repairs.

10. Vendor Value Added Service

Include any value added service that can be provided by your company at no additional cost to Clemson University. Use separate document and identify as Attachment 1.

11. Additional Enhancements

Include any additional enhancements that may benefit the project such as any specifications for future expansion, or for services, products or capabilities that will likely be needed by Clemson University at some time in the future. Additional enhancements must be identified clearly in technical proposal. Offeror must indicate if these enhancements are included in proposed solution at no cost or if they can be included at additional costs. Any costs associated with these enhancements must be outlined in Cost Proposal and identified as additional enhancements.

12. Installation/Work Plan/Timeline

The successful Offeror, as part of the Cost proposal price, will be responsible for labor, materials and installation of the proposed products/services as may be requested by Clemson University. Such assistance shall include telephone, e-mail, and on-site support. All other work required to complete the base solution must be included in the fixed price cost, this should include a detailed timeline for completion. Cost must include travel, meals, lodging and all expenses. As part of the initial project (base solution), the Offeror will keep Clemson University personnel informed of the steps required to install and maintain the solution through a formal knowledge transfer. Clemson University's main point of contact throughout this project is Charlie Breece, Director of Structured Cabling for Clemson University.

Offerors must provide detailed information on the installation requirements as well as detailed information on the schedule. Clemson University anticipates a project start date no later than 03/01/2013, with anticipated completion of 06/30/2013. Offeror's must provide a detailed timeline with dates of initiation and completion. Include all requirements, if any, for university resources that must be used for each step of installation.

Along with the timeline, provide a detailed work plan. The detailed work plan should include a complete work breakdown structure with all tasks having work forecasts, clear deliverables, and appropriate dependencies. The plan should

226 prove that the target dates are achievable and support is provided. Any on-site
227 visits required to perform the services herein must be included in the cost of the
228 base solution. This must include all travel, meals, lodging and expenses.
229

230 13. Payment Schedule

231 A. All Offerors must provide a detailed payment schedule; however, Clemson
232 University would prefer the following:

- 233 1) 40% within 30 days after receipt of order
- 234 2) 15% on the first of each month (April, May, June)
- 235 3) Final 15% upon successful completion

236 B. See following example based on award of \$100,000 total solution:

- 237 1) 40%, 30 days after receipt of order - \$40,000
 - 238 2) 15%, April 1st - \$15,000
 - 239 3) 15%, May 1st - \$15,000
 - 240 4) 15%, June 1st - \$15,000
 - 241 5) Final 15% upon successful completion - \$15,000
- 242

243 14. Technical Proposal

244 Provide a technical proposal with a detailed description of how your service meets
245 the requirements documented above in this section as well as Section III/Scope of
246 Work/Specifications. Offeror's proposed solution must describe and identify all
247 products/services to fulfill the scope of this RFP document which must be
248 identified as Offeror's "base solution". It is the intent of Clemson University to
249 acquire the best base solution possible and for evaluation purposes, it is
250 imperative that Offeror's completely and carefully word and convey all of the
251 information requested. Offers should be prepared simply and economically,
252 providing a straightforward, concise description of Offeror's capabilities to satisfy
253 the requirements of the RFP. Emphasis should be on completeness and clarity of
254 content. Offeror's must demonstrate a thorough understanding of the project
255 purpose, scope, activities, requirements and responsibilities. Technical Proposal
256 responses must be complete and detailed, must address each section using
257 identical section titles, and must follow the order and use the numbering scheme
258 contained in the RFP. Offeror's must discuss their approach and methodology for
259 each of the activities and deliverables in the proposal and identify key dates.
260

261 Again, the base solution **must** describe/identify/include all products/services to
262 fulfill the scope of this RFP document. However, there may be additional
263 products/services/enhancements/add-ons that have **not** been requested in the
264 scope of the RFP document but **will be required** for Offeror's product/service to
265 fulfill the scope of the RFP document. If this is the case, Offeror's **must**
266 identify/describe/include these additional products/services in their technical
267 proposal as the "base solution". Any additional products/services/enhancements/
268 add-ons Offeror **requires** in the base solution to fulfill the scope of the RFP **must**
269 also be identified/included in the Offeror's Cost Proposal as the cost of the "base
270 solution". If your offer includes any additional enhancements and/or add-on
271 components or services that is **not required** to fulfill the scope of the RFP, these

272 products/services **must** be identified and described in your Technical Proposal as
273 well as your Cost Proposal documents and labeled in each proposal as Appendix
274

275 A so that Clemson University can easily and clearly identify what is included in
276 your technical base solution and what is included in your cost base solution.
277 Including a separate appendix for products/services **not** included in the base
278 solution will aide in our evaluation process along with providing a complete
279 understanding of your offer contents. Offers which include either modifications
280 to any of the solicitation's contractual requirements or an offeror's standard terms
281 and conditions may be deemed non-responsive and not considered for award.
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283 **15. Cost Proposal**

284 The cost of the proposed products/services must be itemized by Offeror in the
285 Cost Proposal, addressing the requirements listed throughout proposal document.
286 Offeror's proposed solution must describe and identify all products/services to
287 fulfill the scope of this RFP document which must be identified as Offeror's "base
288 solution". It is the intent of Clemson University to acquire the best base solution
289 possible and for evaluation purposes, it is imperative that Offeror's completely
290 and carefully word and convey all of the information requested. For each
291 requirement, the Offeror's response to the item must be presented, along with
292 which product/service addresses the requirement. At the end of the document in
293 the Cost Proposal, the Offeror must present all products/services identified as
294 necessary to fulfill the requirements of the RFP document and the cost of each
295 must be listed separately as the "base solution". Again, the base solution **must**
296 describe/identify/include all products/services to fulfill the scope of this RFP
297 document. However, there may be additional
298 products/services/enhancements/add-ons that have **not** been requested in the
299 scope of the RFP document but **will be required** for Offeror's product to fulfill
300 the scope of the RFP document. If this is the case, Offeror's **must**
301 identify/describe/include these additional products/services in their Cost Proposal
302 as the "base solution". If your offer includes any additional enhancements and/or
303 add-on components or services that is **not required** to fulfill the scope of the
304 RFP, these products/services **must** be identified and described in your Cost
305 Proposal and labeled as Appendix A so that Clemson University can easily and
306 clearly identify what is included in your cost base solution. Including a separate
307 appendix for products **not** included in the base solution will aide in our evaluation
308 process along with providing a complete understanding of your offer contents.
309 All costs must be included in the Cost Proposal. Cost Proposal must be separate
310 from the Technical Proposal as stated above in RFP Submittal section. **Do not**
311 **include cost in Technical Proposal. These should be submitted as two**
312 **separate documents via .PDF attachments in the online bidding system.**
313 **Total cost to fulfill requirements specified herein must also be indicated in**
314 **Bid Line Item Pricing in online bidding system.** Your separate cost proposal
315 may go into more detail in terms of cost breakdown, options, etc..., but it must
316 also clearly indicate the cost you enter into the online system. This is the cost that
317 will be used for evaluation purposes and should reflect the cost for the base

318 technical proposal you are offering in response to this solicitation. If there are
319 conflicts in the costs you propose or Clemson cannot clearly determine a total cost
320 for your proposal, your response may be deemed non-responsive.

321 ***** Please see Section VI, Cost Schedule, for additional information. *****

322

323 **III. SCOPE OF WORK / SPECIFICATIONS**

324

325 **1. Introduction:**

326 Clemson Computing and Information Technology (CCIT) is the primary provider of
327 computing and information technology resources, services and support to Clemson
328 University and its affiliates. CCIT also provides telecommunications services to the
329 university and maintains several enterprise applications and databases for the state of
330 South Carolina.

331 CCIT exists to ensure that all faculty, staff and students have the information technology
332 tools, services, infrastructure and support to carry out the university's tri-fold mission of
333 research, education and service. Working in conjunction with the entire university
334 community, CCIT provides direction, planning and deployment of IT and communication
335 services and networks that are reliable, capable and scalable.

336 It is imperative that CCIT extend its information technology infrastructure to these off
337 campus sites and extend the same ability to teach and perform research at these locations
338 that exists on campus.

339

340 **2. Services Needed**

341 2.1 Design and build fiber optic infrastructure to several buildings off campus.

342 a) Obtaining proper permits for direct bore/trench road crossing and railroad
343 crossing from SCDOT and RR authority.

344 b) Obtaining pole attachment agreements from Duke Energy

345 c) Installing steel strand along existing Duke Energy power poles

346 d) over lashing fiber to the steel strand

347 e) Installing fiber in the ground using directional bore and trench methods

348 f) Properly attaching cables to buildings

349 g) Proper building entry

350 h) Installing handholes

351 i) Fiber termination, testing and documentation

352 2.2 All work must be done per state, local and federal codes and regulations following
353 manufactures recommended installation procedures, BICSI and industry standards
354 using approved cable and hardware.

355

356 2.3 The successful contractor must submit a complete parts list of materials to be used,
357 including but not limited to the cable, connectors, termination enclosures, connector

- 358 panels, handholds, steel strand and pole attaching hardware to build a complete end-
359 to-end system ready for use.
360
- 361 2.4 CCIT must approve all parts and materials to be used.
362
- 363 2.5 Approved products include are not limited to :
364 a) Corning Cable Systems fiber optic cable, connectors and hardware.
365
- 366 2.6 The successful contractor will be required to submit all necessary documentation
367 and drawings needed in order to obtain pole attachment permits from Duke
368 Energy, road crossing permits from SCDOT, and railroad crossings permits from
369 the proper authority.
- 370 2.7 The successful contractor must submit plans and costs for any “make-ready” work
371 associated with pole attachments for Duke Energy.
372
- 373 2.8 The successful contractor must request locates for all underground utilities from
374 SC811 prior to doing any boring or trenching and must restore any disturbed areas
375 to the same condition is was prior to work beginning.
376
- 377 2.9 All underground cable will be installed inside a 2” smooth wall duct and must
378 contain a locating wire/tape.
379
- 380 2.10 The successful contractor will be required to splice fiber to existing Clemson
381 owned fiber in existing enclosures and terminate fiber in the buildings as specified
382 for each site following manufactures recommended installation procedures, BICSI
383 and industry standards.
384
- 385 2.11 Upon completion the contractor must submit as-built drawings and test results per
386 cable manufacturer requirements, BICSI and industry standards.
387
- 388 2.12 Contractor must attach all outside plant cable to the buildings at designated
389 locations using approved hardware and methods.
390
- 391 2.13 Proper water blocking and fire stopping products must be used as required for all
392 wall penetrations.
393
- 394 2.14 All work must be approved by the University codes official Tom Henderson.
395
- 396 2.15 The successful contractor must have all required business licenses and insurance
397 as required by Clemson University and the State of SC.
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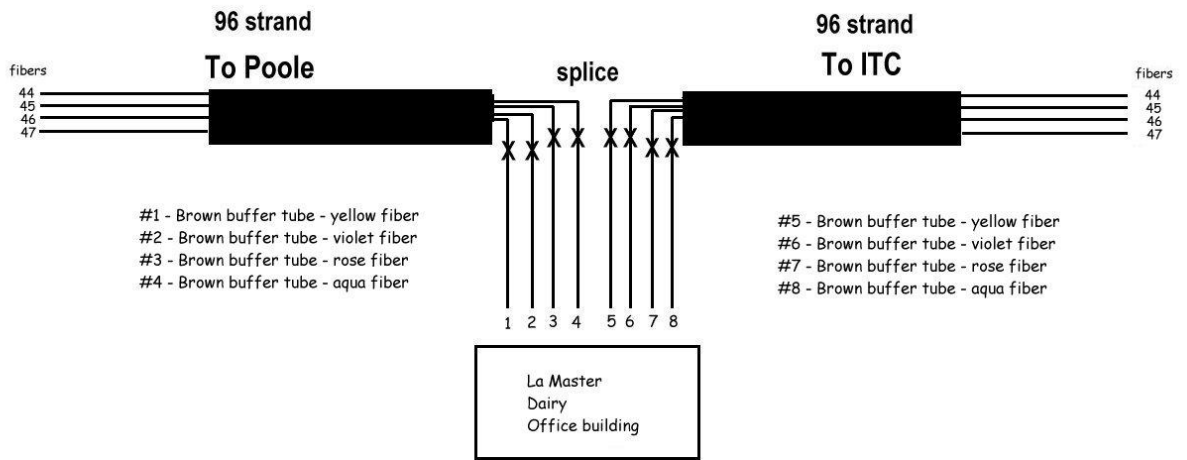
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2.16 The scope of work herein specifies installing fiber infrastructure to only the sites listed in this RFP, however upon completion of this RFP, the successful contractor may be asked to provide quotes and install additional fiber infrastructure to other off campus sites not listed.

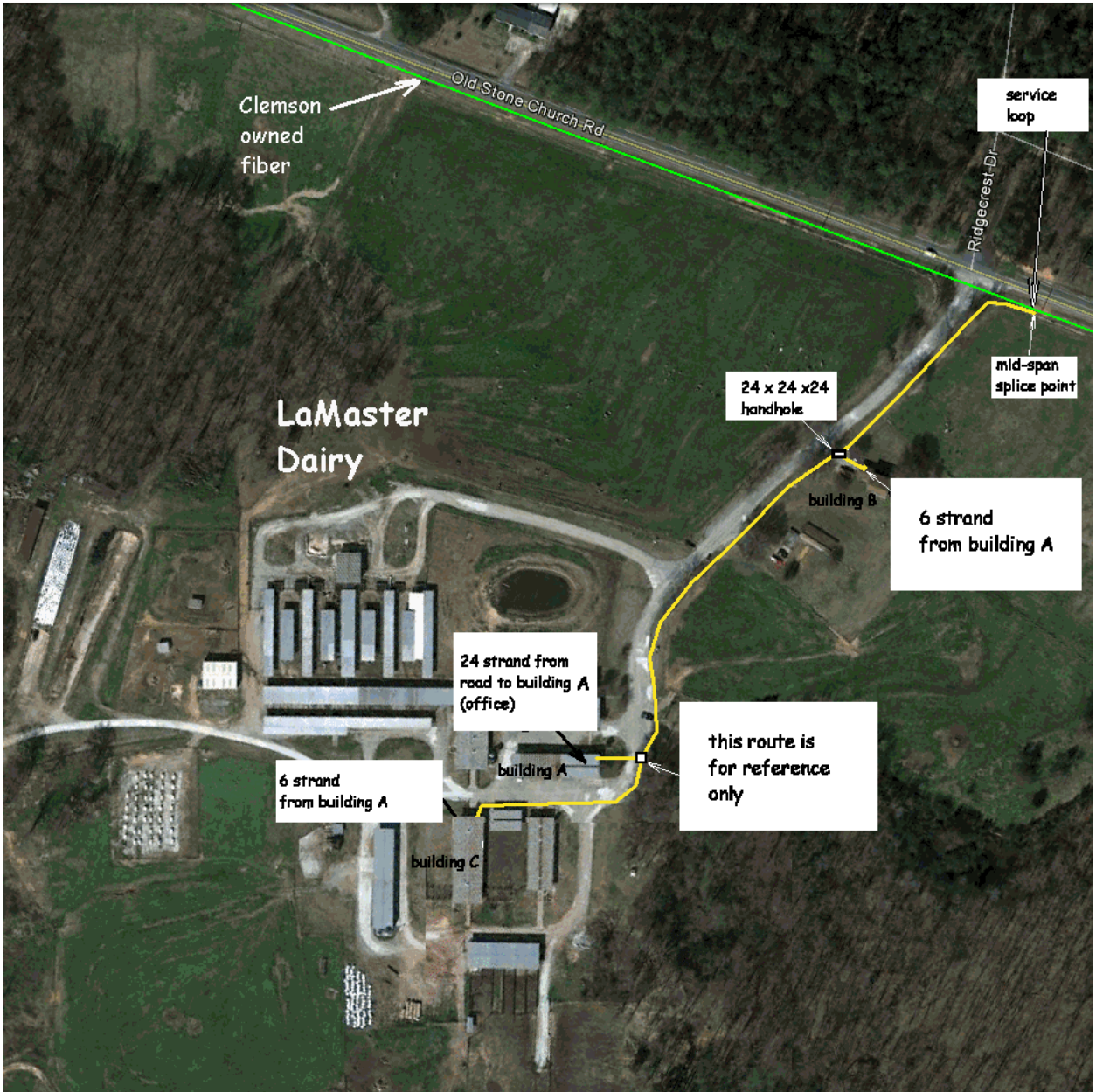
1. LaMaster Dairy
2. Morgan Poultry Center
3. Garrison Arena
4. Outdoor Lab
5. Equine Center
6. Swine Center
7. Clemson Applied Technology

2.17 **LaMaster Dairy**

As shown on the drawing below, bore/trench/bury approximately 1200 feet of 2” smooth wall innerduct and install 24 strand OSP singlemode fiber from Clemson owned fiber service loop along Old Stone Church road near the intersection of Ridgecrest Drive and the entrance to La Master Dairy to building A (office) at LaMaster dairy. Place one handhole outside Building B (residence) and place one outside building A (the route shown is for reference, the actual route and handhole locations will likely vary based on other underground utilities on the site). Do a mid-span splice onto the existing Clemson owned fiber at the road as indicated and terminate 8 strands in Building A (as shown) in the designated location. Install a 6 strand fiber from Building A to the designated location in building B (residence) and terminate all 6 strands on both ends using LC UniCam connectors. Also install 6 strand fiber from building A to building C using the most appropriate trench/bore/aerial method (actual route may vary). Terminate both ends on LC UniCam connectors, secure inside enclosures, test and document installation.



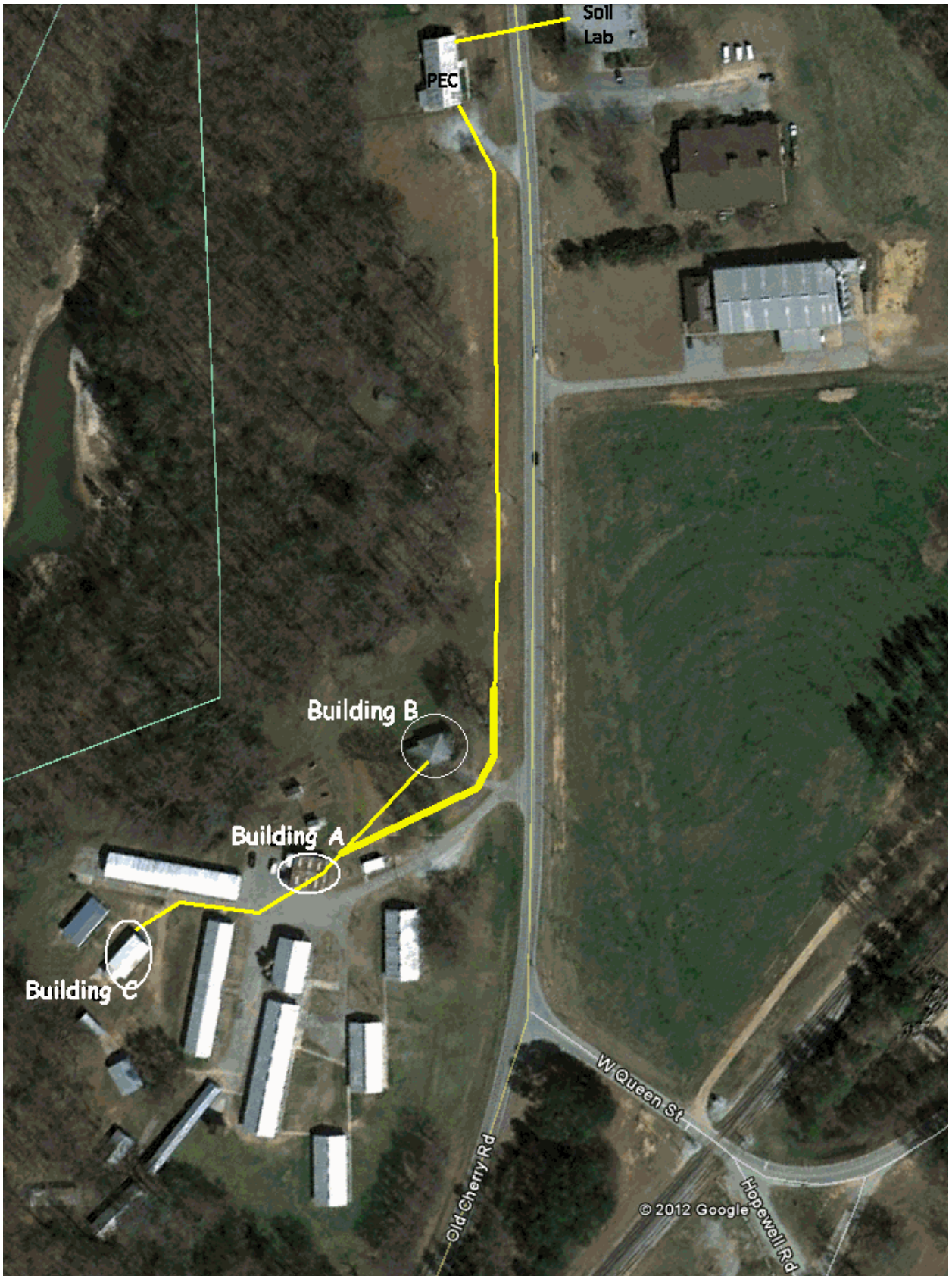
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433 2.18 **Morgan Poultry farm**

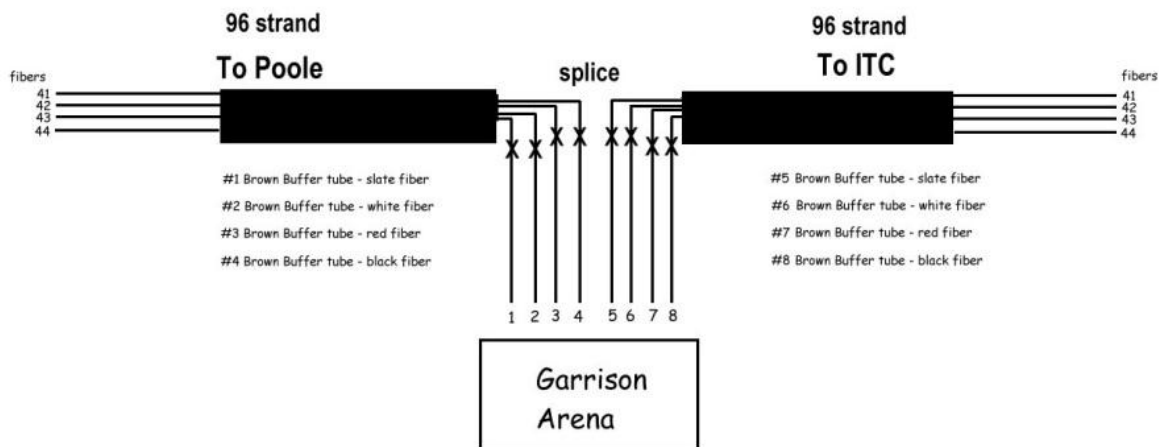
434 As shown on the drawing below, trench/bore and install approximately 1100 feet
435 of smooth wall 2” innerduct and 24 strand OSP singlemode fiber from the PEC
436 building to building A (office) along Old Cherry road. (Actual route may vary
437 based on other underground utilities) Terminate the PEC building end on LC
438 UniCam connectors and secure inside the existing enclosure. Terminate in
439 building A in the designated location using LC UniCam connectors. Secure inside
440 enclosure in building A per manufacturers recommended procedures and industry
441 standards. Next install 6 strand fiber from building A to buildings B and C per the
442 drawing using the most appropriate method (aerial/trench/bury). Terminate both
443 ends of these drops on LC UniCam connectors at designated location, secure
444 inside enclosure, test and document installation.
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448 2.19 **Garrison Arena**

449 As shown on the drawing below, install approximately 1.7 miles of 48 strand
 450 singlemode aerial fiber from the Clemson owned fiber and splice point located
 451 near Tri County Tech and Highway 76 to Garrison arena along Woodburn road
 452 using aerial installation to a point near the intersection of Woodburn road and
 453 Arena Blvd. Install a 24" x 36" x 24" handhole at this location, trench/direct bore
 454 from this location westerly approximately 1000ft and install 2" smooth wall
 455 innerduct from the handhole to the existing manhole along Arena Blvd. Route the
 456 fiber down the pole through the handhole through the newly installed innerduct
 457 into the manhole and continue through the existing conduit into the Garrison
 458 arena telecom room. Place a guard over fiber on pole to protect it. Terminate the
 459 fiber inside the Garrison arena TR in the designated location on LC UniCam
 460 connectors and secure it inside the enclosure per manufacturers recommended
 461 procedures and industry standards. Splice the opposite end of the fiber near Tri
 462 County onto the Clemson owned fiber in existing splice enclosure near Tri
 463 County as indicated Make sure to properly reseal the enclosure when finished.
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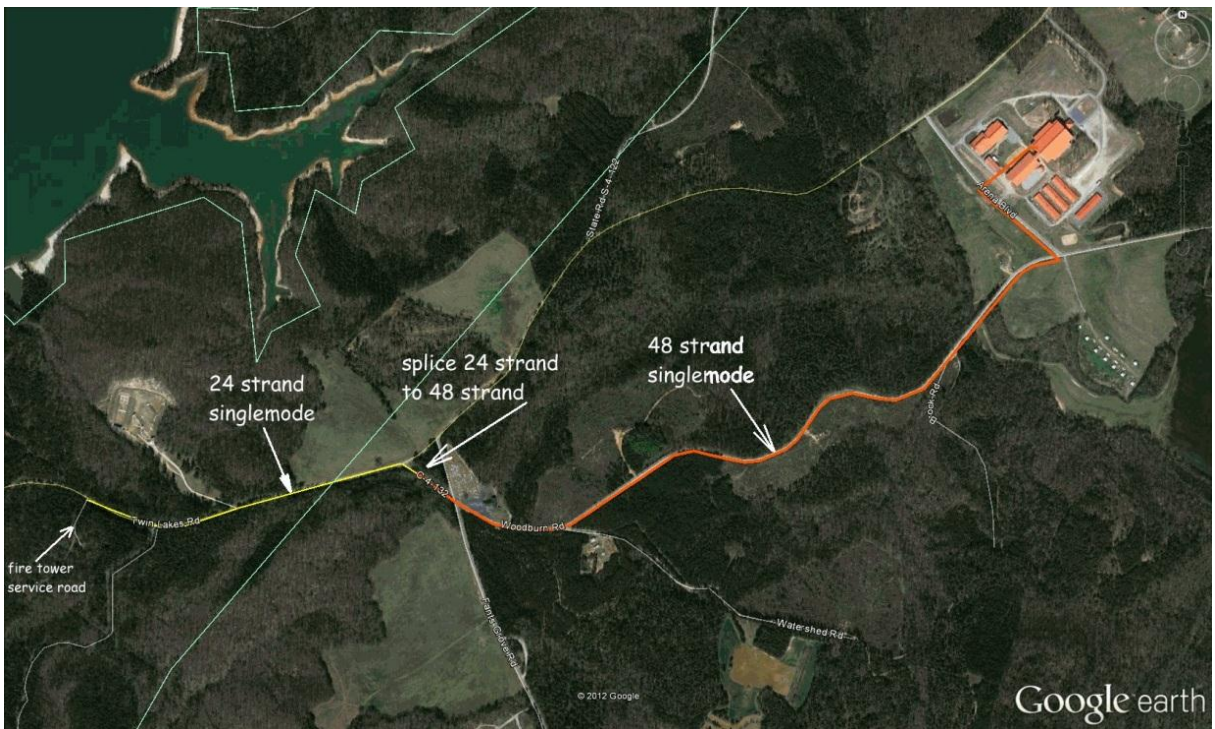
2.20 Outdoor lab

As shown on the drawing below, install approximately 9K feet of 48 strand singlemode OSP aerial fiber from the Garrison arena TR through the conduit to Arena Rd; continue in conduit out to handhole near intersection of Woodburn road. Transition at handhole to aerial installation and continue south along Woodburn Rd to the intersection with Twin Lakes Rd.



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End the 48 strand fiber as shown near the intersection of Twins Lakes Rd. Splice on 24 strand singlemode and continue aerial approximately 3500 feet south along Twin Lakes Rd to the Fire Tower Service Rd as shown.



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483 Install a 24" x 36" x 24" handhole at the intersection of the Fire Tower Service Rd, route the
 484 fiber down the pole into the new handhole. Install a guard over the fiber on the pole to
 485 protect it. Bore/trench/bury approximately 1000 feet of 2" smooth wall innerduct and install
 486 24 strand OSP singlemode fiber from the handhole along the service road to the out building
 487 near the fire tower. Terminate the fiber inside the existing cabinet at the rear of the out
 488 building in an enclosure with LC UniCam connectors and secure it inside the enclosure per
 489 manufacturers recommended procedures and industry standards.
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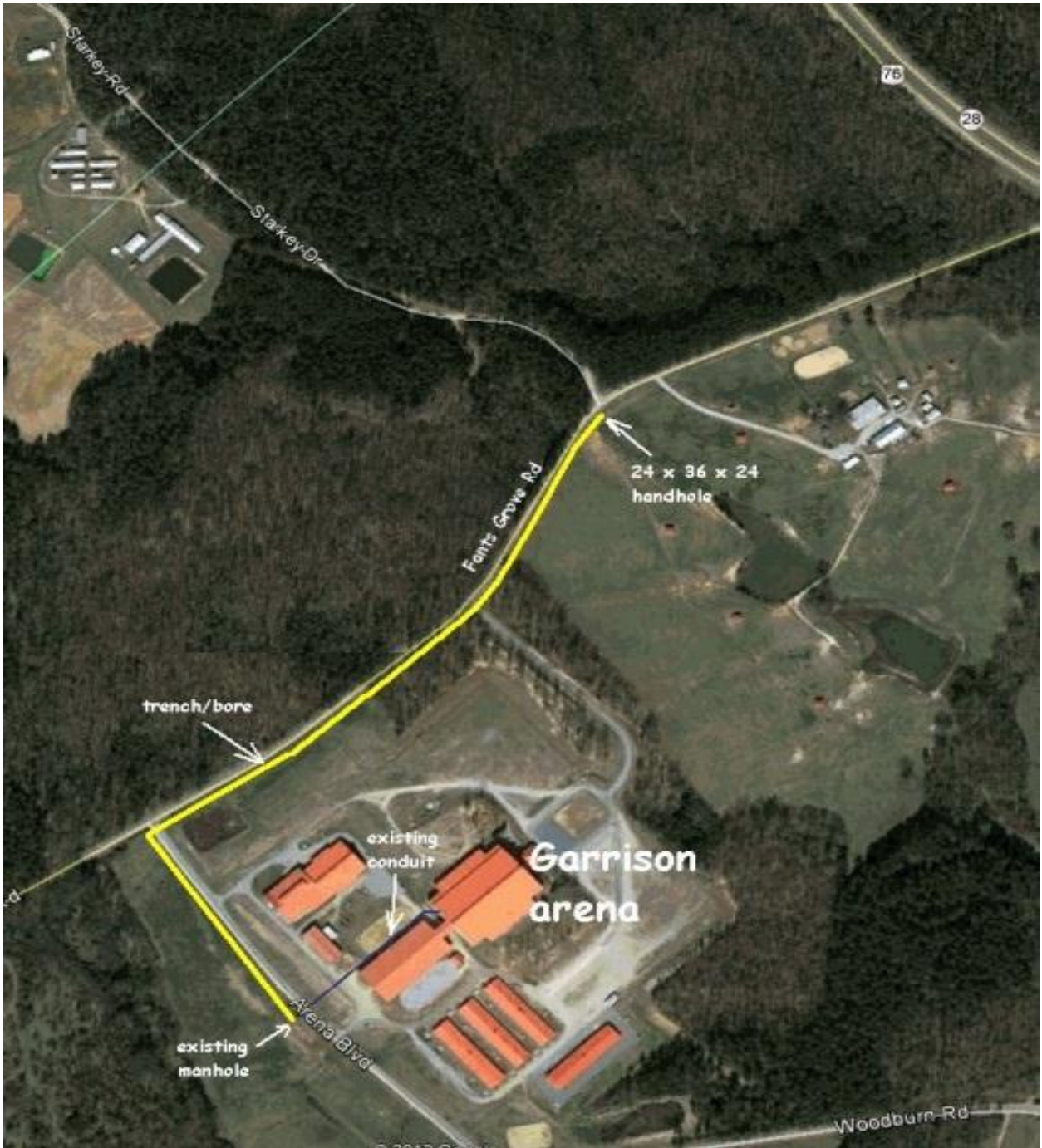


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2.21 **Equine Center & Swine Center**

Bore/trench/bury approximately 12K feet of 2" smooth wall innerduct and install 48 strand OSP singlemode fiber from the Garrison arena TR to a handhole at the intersection of Fants Grove Rd and Starkey Rd in the following manner. Exit Garrison arena TR through the conduit to the existing manhole along Arena Rd, trench/bore from the manhole westerly to the intersection of Fants Grove Rd. Continue trench/bore North along Fants Grove Rd to the intersection of Starkey Rd, install an 18" x 24" x 24" handhole at roughly 500ft intervals along this route, ending with a 24 x 36 x 24 handhole near the intersection of Starkey Road.



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A. Equine Center

From the handhole near the intersection of Fants Grove Rd and Starkey Rd continue trench/bore/innerduct north approximately 300 ft to the entrance to the Equine Center, place a 18" x 24" x 24" handhole at the entrance and continue trench/bore/innerduct easterly approximately 800 ft along the entrance road to building A. Place a 18" x 24" x 24" handhole about midpoint along the entrance road. Install approximately 1500 feet of 24 strand singlemode fiber from the handhole near Starkey road through the innerduct to building A. Terminate the fiber inside building A in the designated location per manufacturers recommended procedures and industry standards and fusion splice the other end of the fiber onto fibers 1-24 of the 48 strand fiber going to Garrison arena and secure splice enclosure in the handhole. Run two additional 6 strand singlemode fiber drops at the Equine center from building A to buildings B and C as shown using aerial or most appropriate method. Terminate both ends on LC UniCam connectors in the designated location per manufacturers recommended procedures and industry standards.



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B. Swine Center

Bore under Fants Grove Rd from the handhole to the pole at the entrance of Starkey Rd. Install approximately 1500 feet of 24 strand singlemode fiber from the handhole near the intersection of Starkey road to the building A. Terminate in building A in the designated location using LC UniCam connectors. Secure inside enclosure in building A per manufacturers recommended procedures and industry standards and fusion the other end of the fiber onto fibers 25-48 of the 48 strand fiber going to Garrison arena and secure splice enclosure in the handhole.



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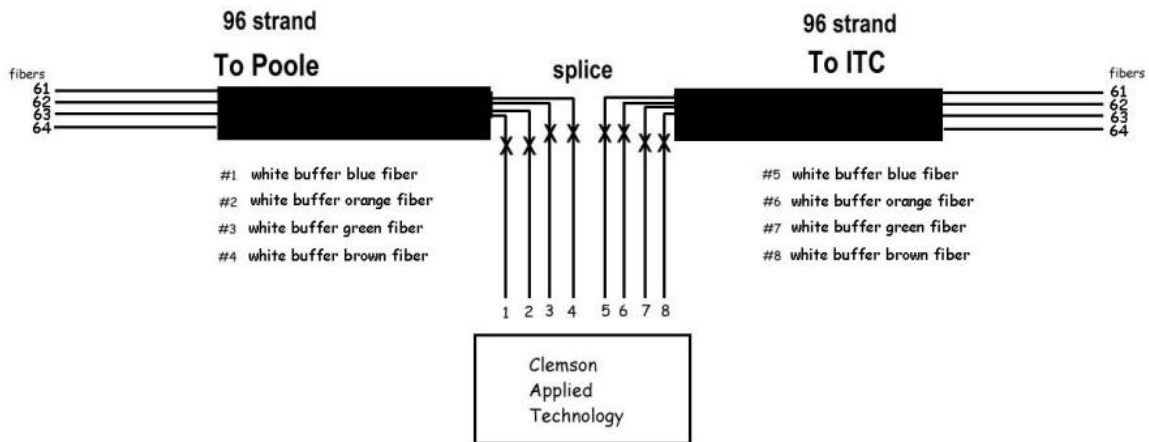
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2.22 **Clemson Applied Technology Center**

Install approximately 1.25 miles of 48 strand singlemode aerial fiber from the Clemson owned fiber splice point near the intersection of South Mechanic St and Highway 76 in Pendleton to the Clemson Applied Technology Center on Westinghouse Road as shown. SCDOT permit and a railroad permit will be required for this fiber run.



543 Enter the existing Clemson enclosure along Highway 76 near the intersection of S.
 544 Mechanics St. and splice 4 strands of the 48 strand fiber onto the Clemson owned 96
 545 strand fiber. Terminate the other end inside the CAT building in designated location on
 546 LC UniCam connectors. Secure inside enclosure per manufacturers recommended
 547 procedures and industry standards.



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 551 **3. Future Work**
 552 Clemson University would like to establish an annual contract for any future work at off
 553 campus or on campus locations to include materials and labor. This contract will have an
 554 option to renew up to four additional years at one year intervals at the discretion of
 555 Clemson University. The scope of work herein specifies installing fiber infrastructure to
 556 only the sites listed in this RFP; however, upon completion of this RFP, there may be
 557 additional installation of fiber infrastructure to other off campus sites that were not listed
 558 as well as some on campus sites. There could possibly be some additional work that may
 559 be requested at these off campus sites listed throughout the RFP scope that was not
 560 identified and will not be known until after award. Offerors must detail all laborers along
 561 with hourly rates in their Cost Proposal as identified in Section VI, Cost Schedule, #2
 562 below. These rates must include all travel, meals, lodging and expenses including
 563 overhead. Clemson University reserves the right to negotiate a percentage off list price
 564 for frequently used materials with the highest ranked offeror prior to award for any future
 565 work throughout the contract period.

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572 **IV. TERMS AND CONDITIONS – SPECIAL**

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574 **1. Assignment**

- 575 A. The Contractor must not assign the whole or any part of this Agreement without
576 the advance written approval of Clemson University. Any assignment will be
577 subject to all terms and conditions of the Contract between Clemson University
578 and the Contractor.
- 579 B. The Contractor will be responsible for all permitting and for restoring any
580 disturbed areas to its original condition.
- 581 C. The Contractor will be responsible for any damages to persons or property
582 resulting from their work.

583
584 **2. AWARD CRITERIA:** Offers will be evaluated using only the factors stated below.
585 Evaluation factors are stated in the relative order of importance, with the first factor being
586 the most important. Once evaluation is complete, all responsive Offertory will be ranked
587 from most advantageous to least advantageous.

- 588
589 A. Technical Proposal: The degree, completeness, and suitability of the Offeror's
590 proposed technical solutions to meet or exceed the requirements of this RFP.
591 (40%)
- 592 B. Qualifications: The Offeror's experience, references and key staff must provide
593 evidence of its depth and breadth of experience, and evidence of successful past
594 performance with projects of this similar size and scope. (35%)
- 595 C. Cost: Cost of the services provided by the vendor. (25%)

596
597 **VI. COST SCHEDULE**

- 598 1. Please provide an Excel spreadsheet with material and labor costs for each site listed
599 separately. Add costs for each site together for a grand total. Grand total must be entered
600 into online bidding system for line item #1 base solution costs for evaluation purposes.
601 Evaluation will be based on grand total for all seven projects listed throughout this scope
602 of work.
- 603
604 2. **Future Work** - The scope of work herein specifies installing fiber infrastructure to only
605 the sites listed in this RFP; however, upon completion of this RFP, there may be
606 additional installation of fiber infrastructure to other off campus sites that were not listed
607 as well as some on campus sites. There could possibly be some additional work that may
608 be requested at these off campus sites listed throughout the RFP scope that was not
609 identified and will not be known until after award. Therefore, Clemson University is
610 requesting all vendors provide a separate file outlining all laborers and hourly rates
611 associated w/these laborers for any future work required throughout a five year contract
612 period. These rates must include all travel, meals, lodging and expenses including
613 overhead. The evaluation process will not be based on these rates. The evaluation will
614 only be based on the grand total of all seven projects as stated in #1 above. Clemson
615 University reserves the right to negotiate a percentage off list price for frequently used
616 materials with the highest ranked offeror prior to award for any future work throughout
617 the contract period.