SERVICE SPECIFICATION / PHYSICAL INFRASTRUCTURE

Campus and outside-plant fiber

GHT-SVC-005 • Revision 1.0 • 06 September 2026 • 1 / 3

Route and utility discovery, civil coordination, cable construction, splicing, testing, strand records, and restoration planning, combined into one build.

Intended outcome

A protected interbuilding route with identified strands, splice records, measured loss, route markers, and information needed for future repair.

Service scope

Outside-plant fiber begins where the cable leaves the protected building environment. Cable construction, water blocking, armor, strength, conduit, handholes, aerial support and building transition must match the route.

The optical design starts with the communications system, distance and loss budget. Fiber count should also account for resilience, restoration and credible growth because civil work usually dominates the difficulty of adding capacity later.

How the system fits together

01 Building entrance	Transition, protection and termination at each facility
02 OSP route	Conduit, handholes, direct-buried or aerial support system
03 Fiber cable plant	Cable, splices, closures, connectors and spare strands
04 Optical service	Transceivers and applications constrained by distance and loss

Typical project triggers

- Buildings depend on leased or bandwidth-limited links
- Conduit, handhole or route ownership is uncertain
- A new building or exterior system needs backbone connectivity
- Existing fiber lacks strand maps or baseline tests

Delivery and acceptance

The final project scope identifies quantities, locations, dependencies, and the evidence required at each delivery stage.

01 Route and utility discovery

Map endpoints, property limits, utilities, civil conditions, permits and access.

Acceptance evidence: Route exhibit, risk register and utility coordination record

02 Optical design

Select topology, cable construction, fiber count, closures, entries and link-loss budget.

Acceptance evidence: Strand plan, component schedule and calculated loss budget

03 Construct and place

Coordinate civil work, inspect pathway, place cable and protect building transitions.

Acceptance evidence: Daily route photos, footage/marker log and installation exceptions

04 Splice, test and document

Complete splicing, end-to-end testing and route/strand closeout.

Acceptance evidence: Splice records, OLTS results, OTDR traces where scoped and as-built map

Handover deliverables

- Route and entrance plan
- Strand, splice and closure schedule
- Calculated and measured loss records
- Route-marker and closeout photo set
- As-built map and restoration information

Closeout: GHT and the customer review the agreed evidence, record unresolved exceptions and owners, and confirm acceptance against the signed project scope.

Planning and scope boundaries

Revision 1.0 • 06 September 2026 • 3 / 3

Customer and site inputs

- Endpoint locations, distance and service requirements
- Property, easement, permit and utility information
- Existing conduit, handhole, pole and entrance condition
- Topology, fiber count and loss budget
- Restoration, outage and future-growth requirements

Constraints and coordination

- Utility locating, permitting and property rights
- Water, temperature, loading and cable-environment compatibility
- Pulling tension, bend radius and pathway condition
- Civil restoration, weather and controlled work windows

Commercial scope and responsibilities

This specification describes the service framework. The signed statement of work defines included equipment, quantities, software licenses, integrations, access windows, schedule, pricing, warranty, and support coverage. Additional construction, electrical work, recurring subscriptions, and ongoing support require an explicit line item.

The customer appoints an acceptance owner and provides authorized access, required site information, and decisions. GHT records assumptions, coordinates assigned work, and submits changes for agreement before expanding the scope.

Technical references

Fiber Optic Association — Fiber Optic Network Design | Source review: 2026-08-20

Fiber Optic Association — Outside Plant Fiber Optic Installation | Source review: 2026-08-20

Fiber Optic Association — FOA-6a: Fiber Optic Cable Plants | Source review: 2026-08-20

BICSI — BICSI Library of ICT Manuals and Standards | Source review: 2026-08-20

Service guide and project discussion | Source review: 2026-09-06