

Iowa Communications Network Statement of Work

OSP Log #61190105,

New Links 1126B – 12f/A, 1126C – 12f/D, 1125C – 12f/A, 2 Cable Insertions on existing Link 1126A.

Madison County: Winterset backbone extension to the Winterset High School, service to the school Bus Garage and the new School District Administration Office

Project Overview:

The ICN intends to extend the ICN Backbone from the corner of East Jefferson Street and North 10th Street to the Winterset Community School District (WCSD) High School. Also, ICN will extend fiber to the WCSD School Bus Garage and to the WCSD administrative offices currently under construction. The project will be in four phases:

Phase 1

Extend a 12-strand armored fiber connection from the existing ICN Backbone cable at the northwest corner of N 10th Street and E Jefferson Street to an existing ICN handhole in the Right of Way in front of 814 South 4th Avenue, a distance of approximately 7043 feet. At 814 S. 4th Ave, the new cable will be spliced to an existing ICN cable to the High School.

Phase 2 (HOT CUT)

A mid-span insertion is to be performed on the ICN backbone, north of E. Jefferson Street along the west side of N. 10th Street. A bore of approximately 128 feet and two handholes will be required for the insertion. Contractor shall also expose the duct/cable at the mid-point of the insertion, cut the duct and pull the existing fiber back to the two handholes during the midnight splice window. Contractor shall provide a pulling crew to be on site at midnight on the night of the cut-over.

Phase 3

Extend a 12-strand dielectric fiber and tracer wire to the WCSD School Bus Garage first floor data location. A second mid-span insertion is required at the Bus Garage, 923 East Lane Street. The location of the mid-span insertion is on the west side of N. 10th Street north of East Lane St. A bore of approximately 183 feet and two handholes will be required for the insertion. Contractor shall also expose the cable at the mid-point of the insertion, cut the duct and pull the existing fiber back to the two handholes. Another bore of approximately 71 feet will be required to serve the building. See Building Entry detail for installation of T-Adapter, Tracer and Ground Rod. Phase 3 will take place after the mid-span insertion in Phase 2. The existing cable will be dead at that point, so all work will be performed during the day.

Phase 4

Extend a new 12-strand armored from an existing ICN handhole on the southeast corner of 4th Avenue and US Highway 169/Iowa Highway 92, to the new WCSD administrative office at 303 Wambold Drive (the frontage road along the north side of US Hwy 169/Iowa 92). This will require new conduit of approximately 331 feet to the Owner's handhole and installing fiber in the Owners new conduit approximately 200 feet from the Owner's handhole into the building first floor data room. It is located approximately 1000 feet west of the intersection of US Highway 169 and Iowa Highway 92.

Please see the maps and pictures in the attached CONSTRUCTION DRAWING(S). All work to be completed per the attached STANDARD INSTALLATION REQUIREMENTS and TYPICALS except where noted within this STATEMENT OF WORK (SOW). Upon notification of completion, the ICN will perform a review using the attached PUNCHLIST. Any corrections will need to be made prior to ICN issuing payment for work completed.

SPlicing EXCLUDED FROM THIS CONSTRUCTION BID / SPlicing SHALL BE COORDINATED WITH NOC OSP

ICN Responsibilities:

1. Project Management
2. ICN will secure all necessary DOT, County, or City ROW permits.
3. **ICN Provided Materials per attached table:** Contractor shall pick up ICN-provided materials at the ICN warehouse in Des Moines. Contact the ICN warehouse 48 hours in advance to pick up materials; contact Paul Damge (515-725-4749) to ensure availability.

Contractor Responsibilities:

1. Contractor shall supply all other materials required for proper installation, including but not limited to: HDPE, Grounding and Tracer Wires, Rock, Wire Mesh, etc.
2. ICN is transitioning from the polymer-concrete handholes (New Basis, Martin, Quazite, etc.) to ICN furnished Channell Bulk handholes that are composed of polymer resin. Contractors shall follow the manufacturer's installation practices. Backfill around the handhole in lifts, compacting each lift, prior to backfilling another lift. A hand tamper may be required. Mechanical compaction of pits and final compaction around handholes is required. A backhoe bucket is NOT an acceptable method of compaction.
3. Construction permits and/or bonds as required by ROW jurisdiction.
4. Contractor SHALL coordinate all work on the existing live fiber with ICN. The contractor SHALL NOT perform any work on the existing fiber without specific permission from ICN.
5. Contractor SHALL perform work on the live fiber at the date and time specified by ICN.
6. The contractor shall comply with all City of Winterset requirements.
 - 6.1 Contractor shall pothole all utilities using a HydroVac.
 - 6.1.1 Potholes shall be backfilled with sand up to 6 inches below grade.
 - 6.1.2 The top 6 inches shall be compacted black dirt with the original sod on top at grade.
 - 6.2 The Contractor shall meet with the City of Winterset prior to beginning work.
 - 6.3 The Contractor shall coordinate with the City throughout the project and shall arrange for a final inspection, by the City, of all work, including any damage caused by the contractor
7. The Contractor shall provide ICN with a written statement from the City, that the City has inspected and approves of the Contractor's work.
8. Contractor shall have available on-site, a copy of this Scope of Work and the Construction Plan any time work is being performed. Failure to have the required documents on site and available to those actually performing the work, may result in work being suspended until this requirements is met.

Locate Facilities (The conduit/cable installation contractor is responsible for placement of all locate facilities and wires in preparation for the splicing contractor): Locate pedestals shall be placed at locations shown on the Construction Plans per ICN Typical Drawings attached.

1. **Tracer Wire** - The contractor shall furnish and install a "#12 AWG, Solid HF CCS 30 Mil HDPE High Flex Tracer Wire" orange in color and labeled "Caution Communication Line" (standard communication tracer wire).
2. **Armored Cable** will be used at all location except the Building Entry at the Bus Garage.
3. **Dielectric Cable and building entrance at the Bus Garage**
 - 3.1. Install 2-inch HDPE from the South handhole of the mid-span insertion to the building per the Construction Plan.
 - 3.2. Transition to 2-inch Galvanized Iron Pipe (GIP) at the building.
 - 3.3. Route the GIP up the side of the building to a Hoffman box approximately 6 feet above grade.
 - 3.4. Penetrate the outside wall of the building behind the Hoffman Box. Ensure penetration is sealed when finished.
 - 3.5. Install a T-Connector, Ground Rod, ½" GIP and Hoffman box as shown in the Typical Drawing in the Construction Plan.
 - 3.6. Install dielectric cable and tracer wire from the south handhole of the mid-span insertion to the Bus Garage data location.
 - 3.7. Route the fiber and tracer as shown.

Bid/Job Showing: NA

Work Start Date: Work may begin upon award of the bid and completion of the contract. The ICN anticipates work in July 2019.

Completion Date: Not later than August 30th with Desired Completion date of August 16th for Phases 1-3. Phase 4 is dependent on building construction by the Building Owner.

Only written modifications to this Scope of Work are binding - Verbal changes to this scope of work by any person or persons are not binding, unless confirmed in writing.

Quotes:

1. Quotes must be received by Sheri Stephens, ICN Contracting, **NLT 2PM on June 21st, 2019.**
2. Contractors must submit a quote for Construction Bid as outlined in the SOW and per the Construction Drawings. ICN requires a breakdown of lump sum bids into labor and materials.

Quotes must delivered to:
Sheri Stephens

ICN Contracting
Grimes State Office Building
400 East 14th Street
Des Moines, IA 50319
Fax: 515-725-4774
E-Mail: sheri.stephens@iowa.gov

Completion of Work:

1. Upon notification of construction completion, ICN will have 2 weeks to complete the Punch List.
2. Upon initial completion of Punch List, the Contractor will have 2 weeks to correct any issues identified on the Punch List.
3. Upon notification of corrections, the ICN will have 1 week to verify corrections were completed to the ICN's satisfaction.
4. No payment will be made until all work is completed per the contract unless agreed upon by both parties.

Attachments: The following are included by reference and as provided within Bid Documents.

Statement of Work (SOW), this document

Construction Drawings (includes Materials list and Typical Installation Sheets)

Punch List

Standard Installation Requirements