

**APPLICATION AND AGREEMENT FOR USE OF  
HIGHWAY RIGHT-OF-WAY FOR UTILITIES ACCOMMODATION**

FOR DEPARTMENT USE ONLY

Permit Number 29U-2018-002	Highway Number US 61	County Des Moines
DOT Project Number NHSX-61-2 (62) --3H-29		Expiration/Completion Date 03/31/2018

APPLICANT (INDIVIDUAL OR COMPANY)

First Name Brent	Middle Initial	Last Name Giese	Phone Number 319-588-7285	Ext.
Company Name CenturyLink			Phone Number	Ext.
Street Address 900 Locust St		City/Town Dubuque	State IA	ZIP Code 52001
e-Mail Address brent.giese@centurylink.com		Secondary e-Mail Address		

INSTALLATION TO BE ACCOMMODATED

Approval is hereby requested to enter within the state highway right-of-way for the accommodation of a utility installation as detailed on the attachments and further described as follows:

The installation shall consist of:  
This IADOT permit is to place new fiber cable and copper cable between Burlington and Mediapolis for the U.S. 61 Reconstruction project #NHSX-061-2(52)-3H-29. The new cables will be placed due to the realignment and grading of U.S. 61. See sheets for new locations of cables.

and shall be located as shown on the detailed plan attached hereto. (See current Iowa Department of Transportation Utility Accommodation Policy for submittal of detailed plan requirements. See Section 115.8 (3).) <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>

**WORK SITE LOCATION**

The proposed work as described above is located in Section 24 , Twp. 70N  
Range 3W on Highway No. 61 generally located .9 (miles) northwest  
(direction) from UA 61 from MP 43 to Upper Flint/Bottom Flint Rd (city, county line, or other landmark). Work proposed is more specifically located as being from ~~43~~ 43.41 (Milepost #) and ~~1166+68~~ 1166+68 (Highway Station) to ~~45~~ 44.33 (Milepost #) and ~~1214+44~~ 1219+00 (Highway Station) on the west both side of highway.

**Disclosure Statement:** The information furnished on this form will be used by the Department of Transportation to determine approval or denial of the application. Failure to provide all pertinent information will result in denial of the application. Information furnished is public information and copies may be provided to the public upon request.

The utility company, corporation, applicant, permit holder or licensee, (hereinafter referred to as the Permit applicant) agrees with the Iowa Department of Transportation (hereafter referred to as the Department) that the following stipulations and those special requirements as listed on this document shall govern under this permit after it is approved by the Department.

**A. General**

1. The installation shall meet the requirements of local municipal, county, state, and federal franchise rules and regulations, regulations and directives of the Iowa State Commerce Commission; the Iowa Department of Natural Resources, all rules and regulations of the Department and any other laws or regulations applicable.
2. The Permit Holder shall be fully responsible for any future adjustments of the facilities within the established highway right-of-way caused by highway construction or maintenance operations.
3. As per Section 115.8(8) of the Utility Accommodation Policy, As-Built plans are due within 90 days after completion of construction, the utility owner shall submit to the district representative an as-built plan.
4. The work described in this permit shall be completed as proposed in compliance with the stipulations and special requirements within one year from the date Department approval is received for said request. Failure on the part of the Permit Holder to abide by the stipulations or in constructing the work described as stipulated and within the time frame stated shall render this agreement and request null and void. The Permit Holder also agrees to save the State of Iowa and the Department harmless of any damages or losses that may be sustained by any person, or persons, on account of the conditions and requirements of this agreement.
5. Non-compliance with any of the terms of the Department's policy, permit, or agreement, may be considered cause for shut-down of construction operations, revocation of the permit, or withholding of relocation reimbursement and/or withholding of future application approvals until compliance is confirmed. The cost of any work deemed necessary to be performed by the State in removal of non-complying construction will be assessed against the Permit Holder.

## **B. Construction and Maintenance**

1. The location, construction and maintenance of the utility installation covered by this application shall be in accordance with the current Department's Utility Accommodation Policy. <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>
2. Before beginning any work in the highway right-of-way, it is the responsibility of the Permit Holder to obtain an easement from the drainage district if necessary. The Department assumes no responsibility for advising the Permit Holder of each location of a drainage district crossing. It is the Permit Holder's responsibility to locate these crossings and obtain any necessary easements or permission from the drainage district. See Code of Iowa, Chapter 468 for additional information.
3. A copy of the approved permit shall be available on the job site at all times for examination by Department personnel.
4. Operations in the construction and maintenance of this utility installation shall be carried on in such a manner as to cause minimum interference to or distraction of traffic on said highway.
5. Traffic protection shall minimally be in accordance with Part VI of the current Manual on Uniform Traffic Control Devices for Streets and Highways. The applicant shall be responsible for correctly using traffic control devices including signs, warning lights, and channelizing devices as needed while work is in progress or the clear zone is impacted. Flagging operations are the responsibility of the applicant. The Department's TC XXX Series Standards are the preferred traffic control specification plans. [http://www.iowadot.gov/design/stdplne\\_tc.htm](http://www.iowadot.gov/design/stdplne_tc.htm)
6. The applicant shall seed and mulch all disturbed areas within the highway right-of-way and shall be responsible for the vegetative cover until it becomes well established. Any surfaced areas such as driveways or shoulders and sodded waterways and plantings which are disturbed shall be restored to their original condition. Any damage to any other underground facilities during installation shall be repaired at the permit holder's expense.
7. All personnel in the highway right-of-way shall wear ANSI 107 Class 2 apparel at all times when exposed to traffic or construction equipment.
8. As per Policy Section 115.4(9) parking or storage in the clear zone is prohibited. When not in actual use, vehicles, equipment and materials shall not be parked or stored within the clear zone or median.
9. Unless specifically noted in Special Requirements section, all work performed within the right-of-way shall be restricted to 30 minutes after sunrise to 30 minutes before sunset.
10. Pedestals shall be placed within 12 inches of the right-of-way line.
11. All above and below ground appurtenances (pedestals, hydrants, drains, accesses, etc.) shall be marked with high visibility posts and signs. The minimum height requirement for the signs shall be 5 foot. Urban Roadway Sections may be exempted with department approval.

## **C. Liability**

1. To the extent allowable by law, the Permit Holder agrees to indemnify, defend, and hold the Department harmless from any action or liability arising out of the design, construction, maintenance, placement of traffic control devices, inspection, or use of the Permit Holder's facilities. This agreement to indemnify, defend, and hold harmless applies to all aspects of the Department's application review and approval process, plan and construction reviews, and funding participation.
2. The Permit Holder shall indemnify and save harmless the State of Iowa, its agencies and employees, from any and all causes of action, suits at law or in equity, for losses, damages, claims or demands, and from any and all liability and expense of whatsoever nature, arising out of or in connection with the Permit Holder's use or occupancy of the public highway.
3. The State of Iowa and the Department assume no responsibility for damages to the Permit Holder's property occasioned by any construction or maintenance operations on said highway if the facilities are not located in accordance with this permit.
4. The State of Iowa, its agencies or employees, will be liable for expense incurred by the Permit Holder in its use and occupancy of the highway right-of-way only when negligence of the State, its agencies or employees, is the sole proximate cause of such expense. Whether in contract, tort or otherwise, the liability of the State, its agencies and employees, is limited to the reasonable, direct expense to repair damaged utilities, and in no event will such liability extend to loss of profits or business, indirect, special, consequential or incidental damages.

## **D. Notification**

1. The Permit Holder is responsible for contacting **Iowa One-Call (1-800-292-8989)** and request the location of all underground utilities forty-eight (48) hours before excavation. Before beginning work in the highway right-of-way, the Permit Holder shall also contact any other known utility located in the area of the proposed work.
2. The Permit Holder agrees to give the Department forty-eight (48) hour notice of its intention to start construction or to perform routine maintenance on the highway right-of-way. Said notice shall be made to the local DOT contact person whose name is shown on Page 3.
3. **511 Notification**-In accordance with Iowa Code section 321.348, cities and utilities **may not obstruct or close** primary highways or primary highway extensions (State highways within city limits) **without prior consent of the Iowa DOT**, except in emergency situations. Before setting up a lane closure or a vertical/horizontal restriction of any kind on a primary highway, call your local Iowa DOT Maintenance garage and call the Traffic Management Center per attached documents. Except in emergency situations, a 10 day advance notice is required. <http://www.iowadot.gov/traffic/utility/pdfs/511UtilityNotification.pdf>

## **E. Buy America**

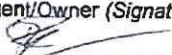
Buy America applies to relocations of utility facilities that must move due to highway projects under certain specific conditions that include reimbursable locations and relocations due to interstate projects. Please contact the Department's District Engineering Operation Technician (EOT) for more information on Buy America requirements or visit the following link: <http://www.iowadot.gov/traffic/utility/utility.htm>

Permit Number: 29U-2018-002

Special Requirements - in addition to the stipulations above, the following special requirements shall apply to this permit:

**Applicant Signature and Agreement**

The undersigned have read the stipulations of this permit agreement as stated, as well as attachments which may be included, and by signing this application agree to abide by all stipulations and to complete the work as proposed in compliance with the stipulations and attachments within one year from the date Department approval is granted for said request. Failure on the part of the applicant to abide by the stipulations or to construct the work desired as stipulated and within the time frame stated shall render this agreement and request null and void. The undersigned also agrees to save harmless the State of Iowa and the Iowa Department of Transportation from any damage or losses that may be sustained by any person or persons on account of the conditions and requirements of this agreement.

Name of Agent (Print or Type) <i>JEFF GIESE</i>	Agent/Owner (Signature) 	Title <i>ENGINEER II</i>
Name of Owner (Print or Type) <i>CENTURY LINK</i>	Date <i>03-01-18</i>	
e-Mail Address <i>jeff.giese@centurylink.com</i>		

**CITY ACTION (IF PROPOSED WORK IS WITHIN AN INCORPORATED CITY, CITY ACTION IS REQUIRED)**

"The undersigned city joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned city and recommends action on said permit application as noted below by the delegated city official".


Recommend Approval       Do Not Recommend Approval       None Required

Handwritten Signature	Title	Date
Type or Print Name	Authorized Official for the City of	
e-Mail Address		

**COUNTY ACTION (IF PROPOSED WORK CROSSES COUNTY RIGHT-OF-WAY, COUNTY ACTION IS REQUIRED)**

"The undersigned county joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned county and recommends action on said permit application as noted below by the delegated county official".

Recommend Approval       Do Not Recommend Approval       None Required

Handwritten Signature 	Title <i>County Engineer</i>	Date <i>3-5-18</i>
Type or Print Name <i>Brian J Carter</i>	Authorized Official for the County of <i>Des Moines</i>	
e-Mail Address <i>office@dmcroads.org</i>		

**FEDERAL HIGHWAY ADMINISTRATION ACTION (WHEN REQUIRED)**

Recommend Approval       Do Not Recommend Approval       None Required

Authorized FHWA Representative Signature	Date
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**DEPARTMENT OF TRANSPORTATION FINAL ACTION**

Application Approved       Application Denied      Permit Number: **29U-2018-002**

Authorized Highway District Representative <i>Brenda Sanders</i>	Signature 	Date <i>03/08/18</i>
e-Mail Address <i>brenda.sanders@iowadot.us</i>		

Notice of intention to commence activities on the highway rights-of-way shall be submitted by the applicant a minimum of 48 hours prior to actually commencing the activities as herein granted by this approved application. Notice is to be given to the following Iowa Department of Transportation representative. Except in emergencies a 10 day advance notice is required for lane restrictions of any kind:

Local DOT Contact Person (Type or Print Name) <i>Lauren Giarmo or Marv May</i>	Phone Number <i>319-385-2211</i>
Street Address <i>205 E Taft St</i>	City/Town <i>Mt Pleasant</i>
	State ZIP Code <i>IA 52641</i>
e-Mail Address <i>lauren.giarmo@iowadot.us or marv.may@iowadot.us</i>	

Permit Number: **29U-2018-002**

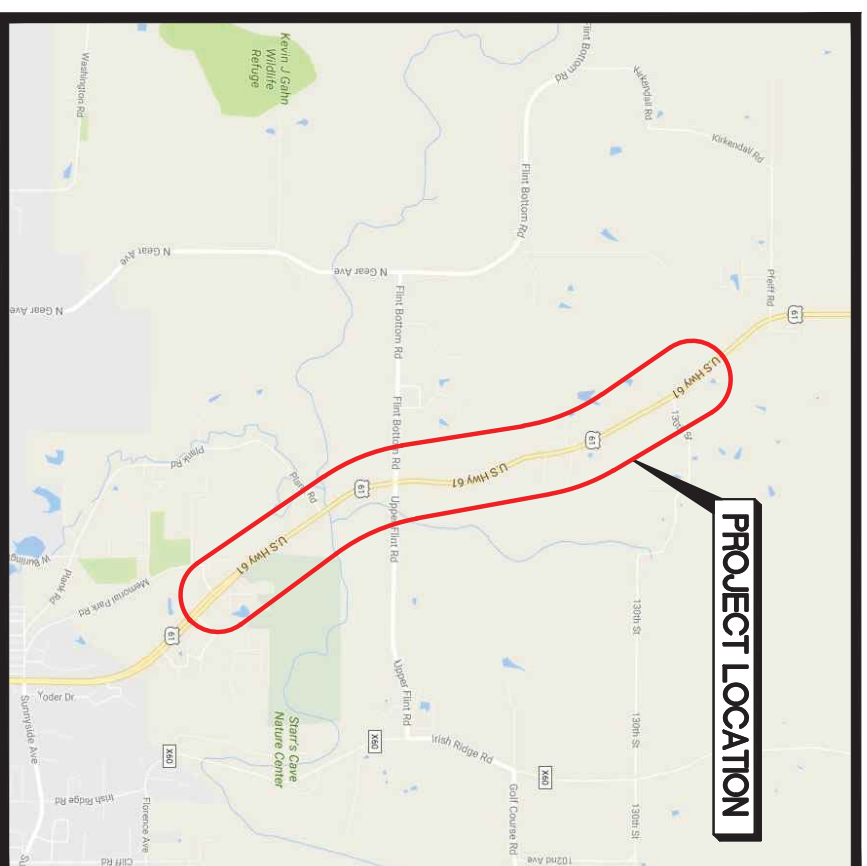
Des Moines County, IA.

# U.S. Hwy 61

## CenturyLink Relocation Plans

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LOCATION MAP  
NOT TO SCALE



Plans Prepared By:



TT ENG: Stephanie Hellquist  
PHONE: 651-283-6774  
E-MAIL: shellquist@terratechllc.net  
TT# CL16.1000E  
<http://www.terratechllc.net>

Plans Prepared For:

NOTES:  
ALL EXISTING AND PROPOSED CONDITIONS ARE BASED ON INFORMATION PROVIDED BY OTHERS. CENTURYLINK CANNOT BE RESPONSIBLE FOR THE ACCURACY OF INFORMATION AND/OR PLANS PROVIDED BY OUTSIDE PARTIES. FACILITY LOCATIONS, DEPTHS AND ELEVATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.  
PROPOSED DESIGN MODIFICATIONS ARE RECOMMENDATIONS ONLY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

FOR REFERENCE ONLY



Know what's below.  
Call before you dig.

CTL JOB: N\_\_\_\_\_  
GEO CODE: \_\_\_\_\_  
WC CALL: \_\_\_\_\_  
ENGINEER: Brent Giese  
PHONE: \_\_\_\_\_  
E-MAIL: [brentgiese@centurylink.com](mailto:brentgiese@centurylink.com)

REV.	DATE
E.1	02-10-2018

SHEET 1 of 42  
DATE: Mar 06, 2018

# Legend

## Alignment, Boundary and Right of Way

	Existing	Proposed
CENTERLINE		
RIGHT OF WAY LINE		
<b>Pavement</b>		
ABOVE GROUND FEATURES (PAVEMENT, CURB SIDEWALK, ETC.)		
ABOVE GROUND FEATURES (PAVEMENT, CURB SIDEWALK, ETC.)		
<b>Drainage</b>		
CONTOUR MAJOR (5')		
CONTOUR MINOR (1')		
<b>Utilities</b>		
OVERHEAD WIRES		
FORCEMAIN		
SANITARY SEWER		
STORM SEWER		
WATERMAIN		

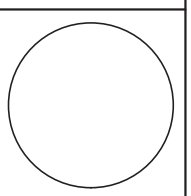
# Legend

## CenturyLink Facilities

	Existing	Removal/Abandon	Original Proposed	Proposed
BURIED FIBER OPTIC CABLE				
BURIED TELEPHONE CABLE				
BURIED TELEPHONE DUCT				
OVERHEAD FIBER OPTIC CABLE				
OVERHEAD TELEPHONE CABLE				
PEDESTAL				
HAND HOLE				
CROSS BOX				
POLE				
VAULT / MANHOLE				
FACILITY LABELLING				



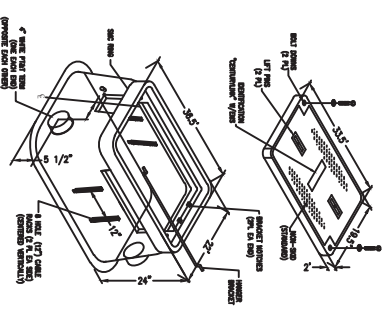
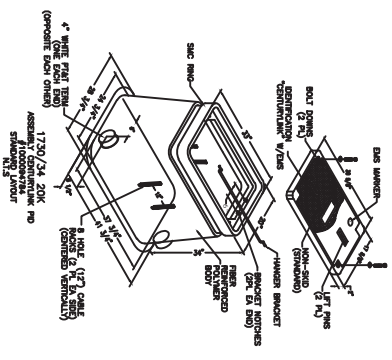
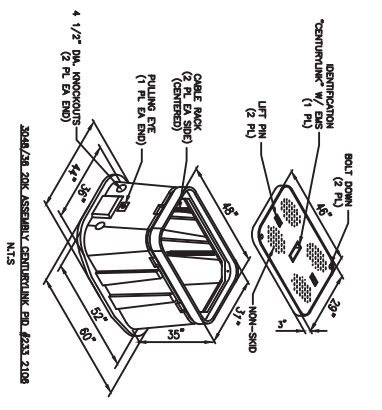
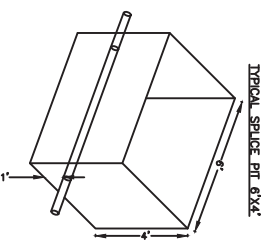
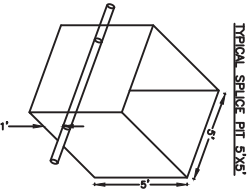
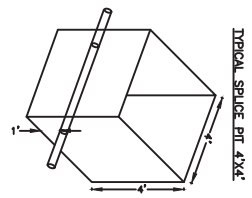
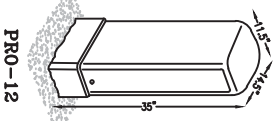
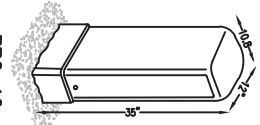
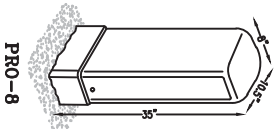
TT  
 TT ENG: Stephanie Hellquist  
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 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



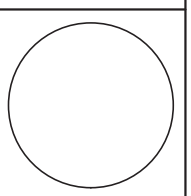
IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #NH8X-061-2(G2)-31-29  
 Des Moines County, IA  
**U.S. Hwy 61**  
 CenturyLink Relocation Plans  
 Legend  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

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 N. \_\_\_\_\_

Sheet  
**B.2**  
 Sheet 3 of 42



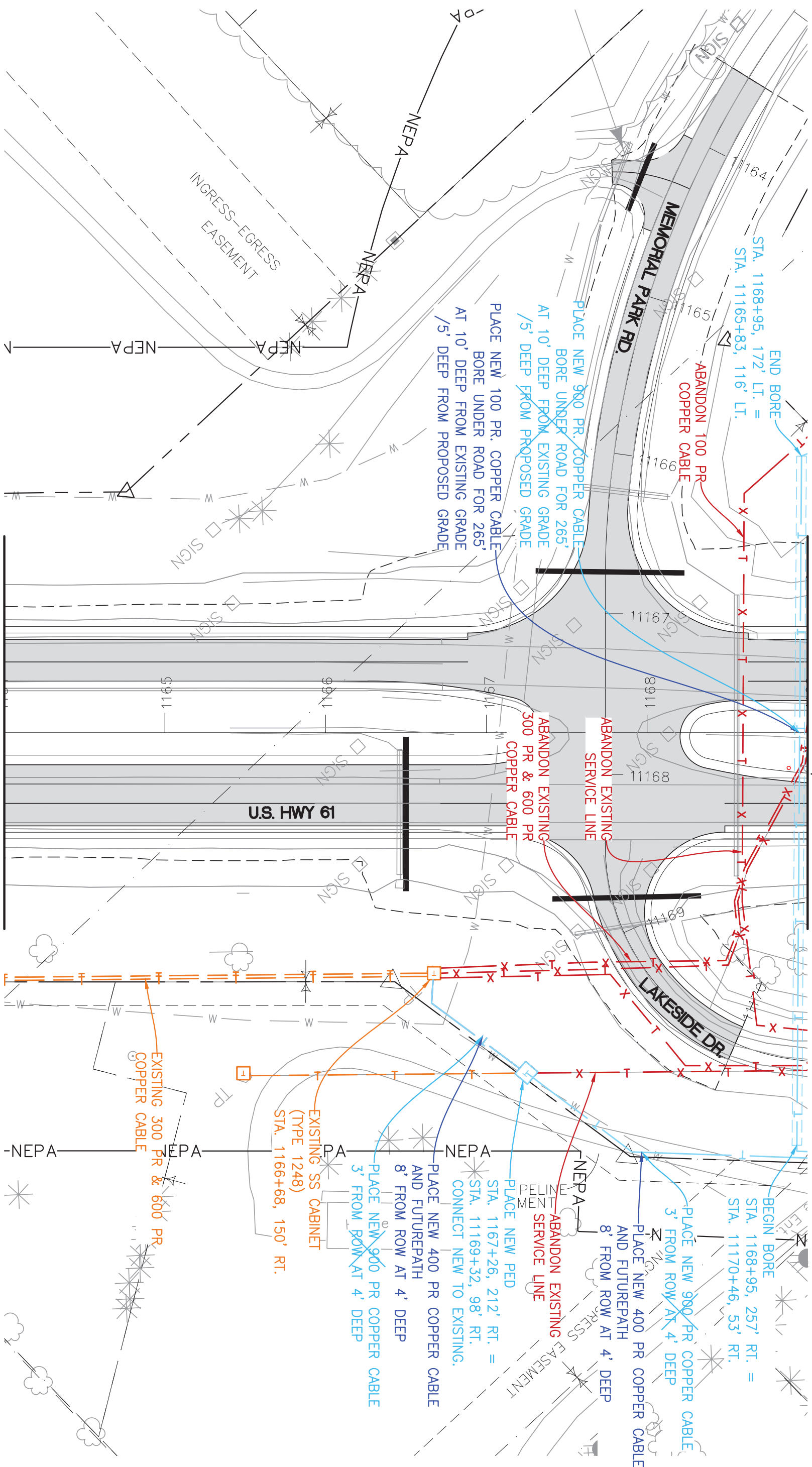
**TERRA TECHNOLOBITES**  
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**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WISX-061-2(G2)-3H-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 Typical Details  
 Project No: CL16.1000E | Date: Mar 06, 2018 | File:

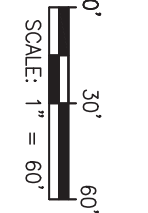
  
**Century Link™**  
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 PHONE: \_\_\_\_\_  
 E-MAIL: brentgiese@centurylink.com  
 N. \_\_\_\_\_

MATCH LINE - STA 1169+00, SEE SHEET C3



MATCH LINE - STA 1164+00, SEE SHEET C1

**TERRA TECHNOLOGIES**  
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**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-2(62)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1164+00 - Sta 1169+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

**CenturyLink**  
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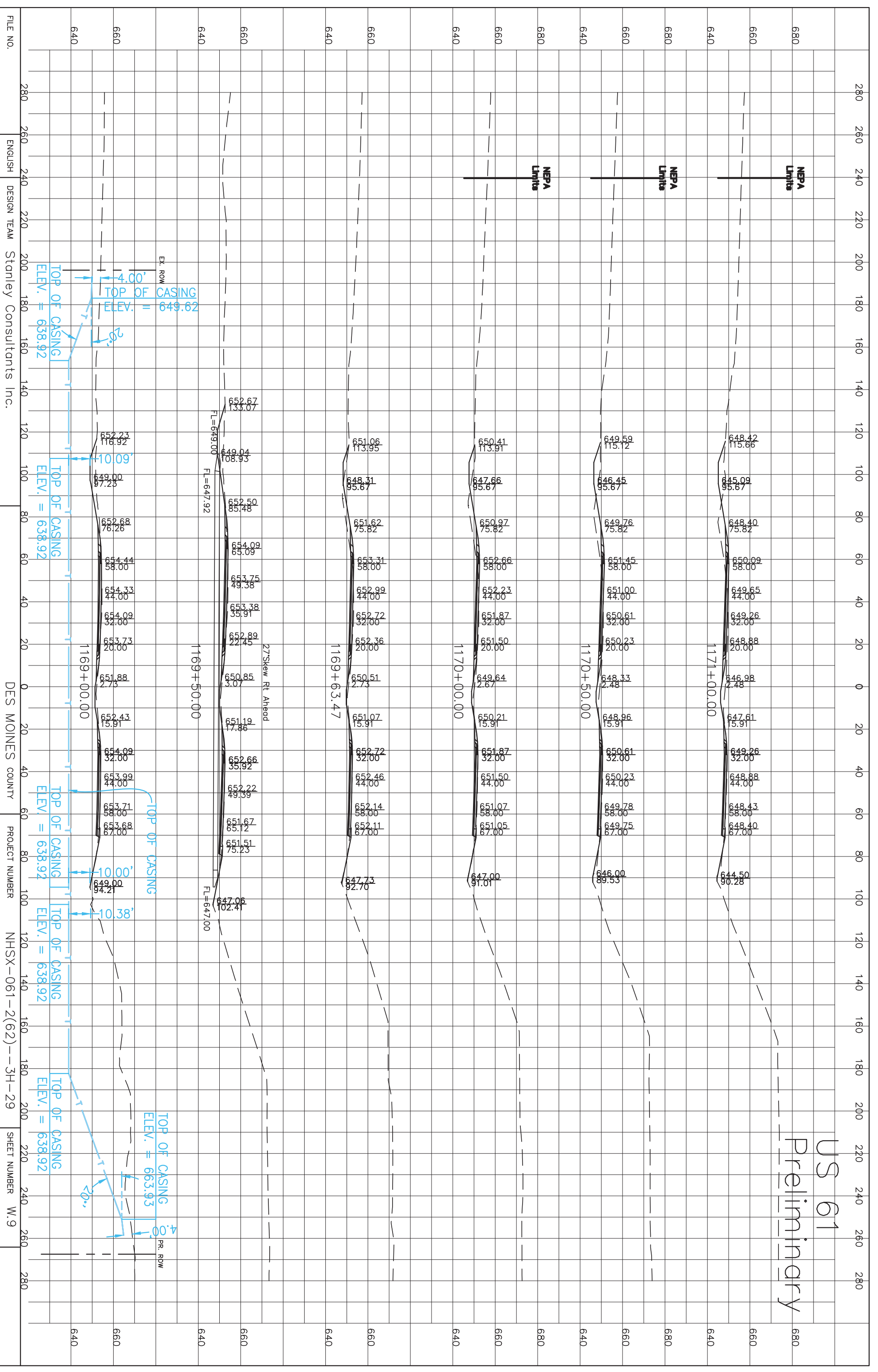
**LEGEND**

EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-X-FO-X-	FO
BURIED TELEPHONE	-X-T-X-	T
BURIED TELEPHONE DUCT	-X-T-D-X-	T-D
OVERHEAD TELEPHONE	-X-OHT-X-	OHT

\*SEE SHEET B.2 FOR LEGENDS

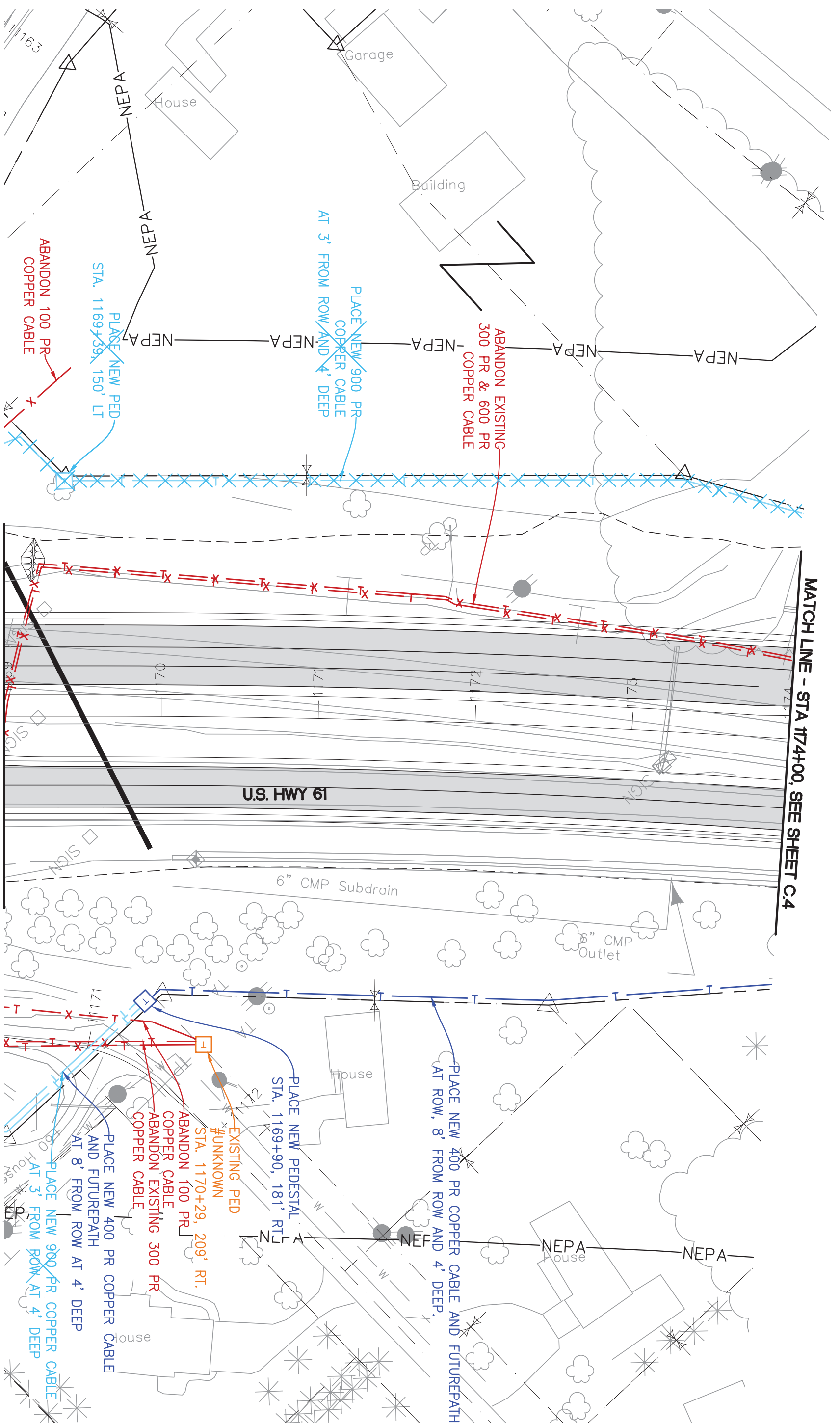
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**C.2**  
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# US 61 Preliminary

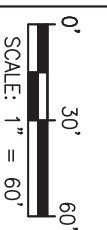
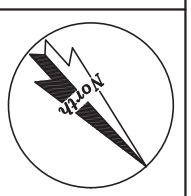


FILE NO. ENGLISH DESIGN TEAM Stanley Consultants Inc. DES MOINES COUNTY PROJECT NUMBER NHSX-061-2(62)--3H-29 SHEET NUMBER W.9





**TERRA TECHNOLOGIES**  
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 http://www.terra-tech.com



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1169+00-Sta 1174+00)  
 Project No.: CL16.1000E Date: Mar 06, 2018 File:

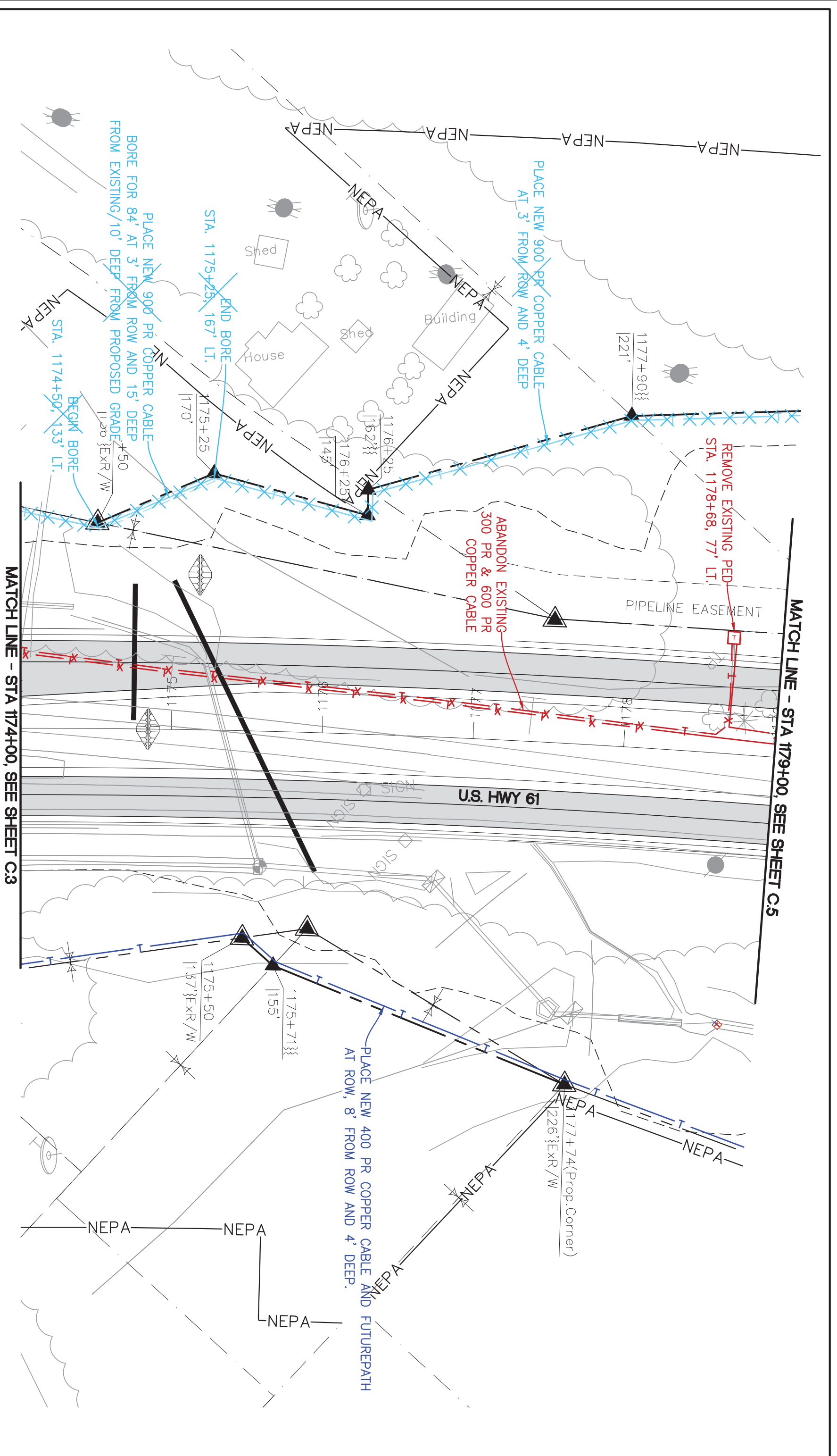
**CenturyLink**  
 CenturyLink™  
 CITL ENG: Brent Giese  
 PHONE: 563-383-3333  
 E-MAIL: brenygiese@centurylink.com

**LEGEND**

EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-R- -R- -R-	-R- -R- -R-
BURIED TELEPHONE	-T- -T- -T-	-T- -T- -T-
BURIED TELEPHONE DUCT	-X- -X- -X-	-X- -X- -X-
OVERHEAD TELEPHONE	-OH- -OH- -OH-	-OH- -OH- -OH-

\*SEE SHEET B.2 FOR LEGENDS

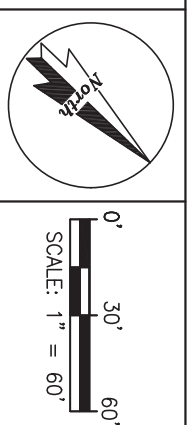
**Sheet**  
**C.3**  
 Sheet 8 of 42



MATCH LINE - STA 1179+00, SEE SHEET C5

MATCH LINE - STA 1174+00, SEE SHEET C3

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 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #A8X-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
 CenturyLink Relocation Plans  
 US HWY 61 (Sta 1174+00-Sta 1179+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

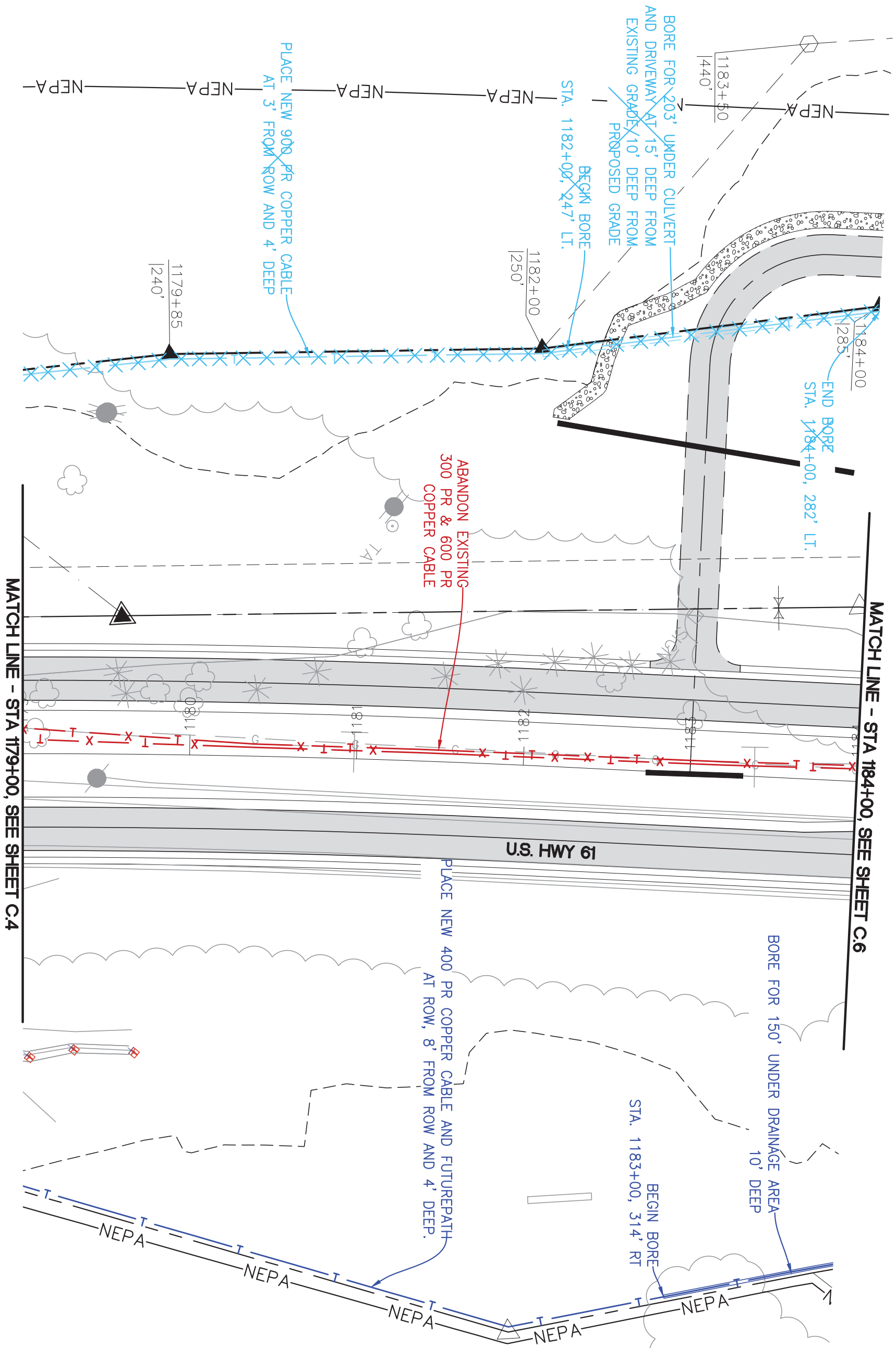
**CenturyLink**  
 CTL ENG: Brent Giese  
 PHONE: [Redacted]  
 E-MAIL: brenthgiese@centurylink.com  
 N. [Redacted]

**LEGEND**

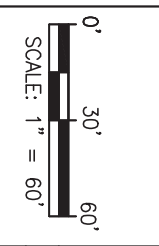
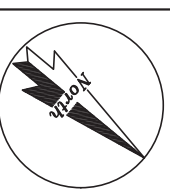
EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-X-FO-X-	FO
BURIED TELEPHONE	-X-T-X-	T
BURIED TELEPHONE DUCT	-X-T-D-X-	T-D
OVERHEAD TELEPHONE	-X-OHT-X-	OHT

\*SEE SHEET B.2 FOR LEGENDS

**Sheet**  
**C.4**  
 Sheet 9 of 42



TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WBX-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1179+00—Sta 1184+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

CenturyLink™  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenygiese@centurylink.com  
 N. \_\_\_\_\_

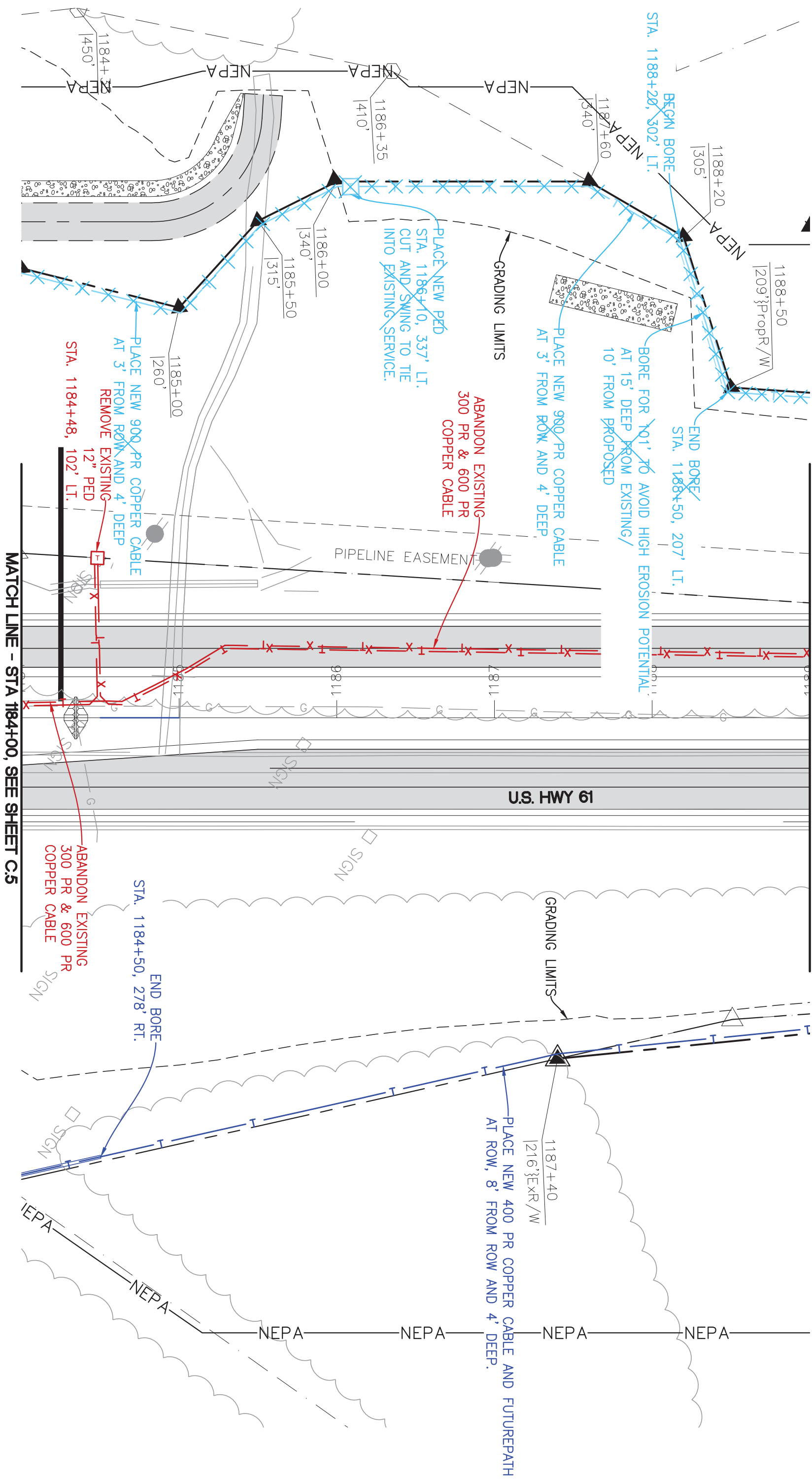
**LEGEND**

LEGEND	EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	—FO—	-X-FO-X-	—FO—
BURIED TELEPHONE	—T—	-X-T-X-	—T—
BURIED TELEPHONE DUCT	—T—	-X-T-X-	—T—
OVERHEAD TELEPHONE	—OHT—	-X-OHT-X-	—OHT—

\*SEE SHEET B.2 FOR LEGENDS

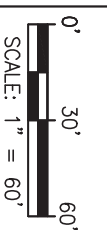
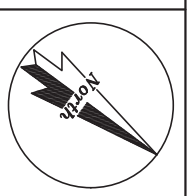
**Sheet**  
**C.5**  
 Sheet 10 of 42

MATCH LINE - STA 1189+00, SEE SHEET C.7



MATCH LINE - STA 1184+00, SEE SHEET C.5

**TERRA TECHNOLOGIES**  
 TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
 CenturyLink Relocation Plans  
 US HWY 61 (Sta 1184+00 - Sta 1189+00)  
 Project No.: CL16.1000E Date: Mar 06, 2018 File:

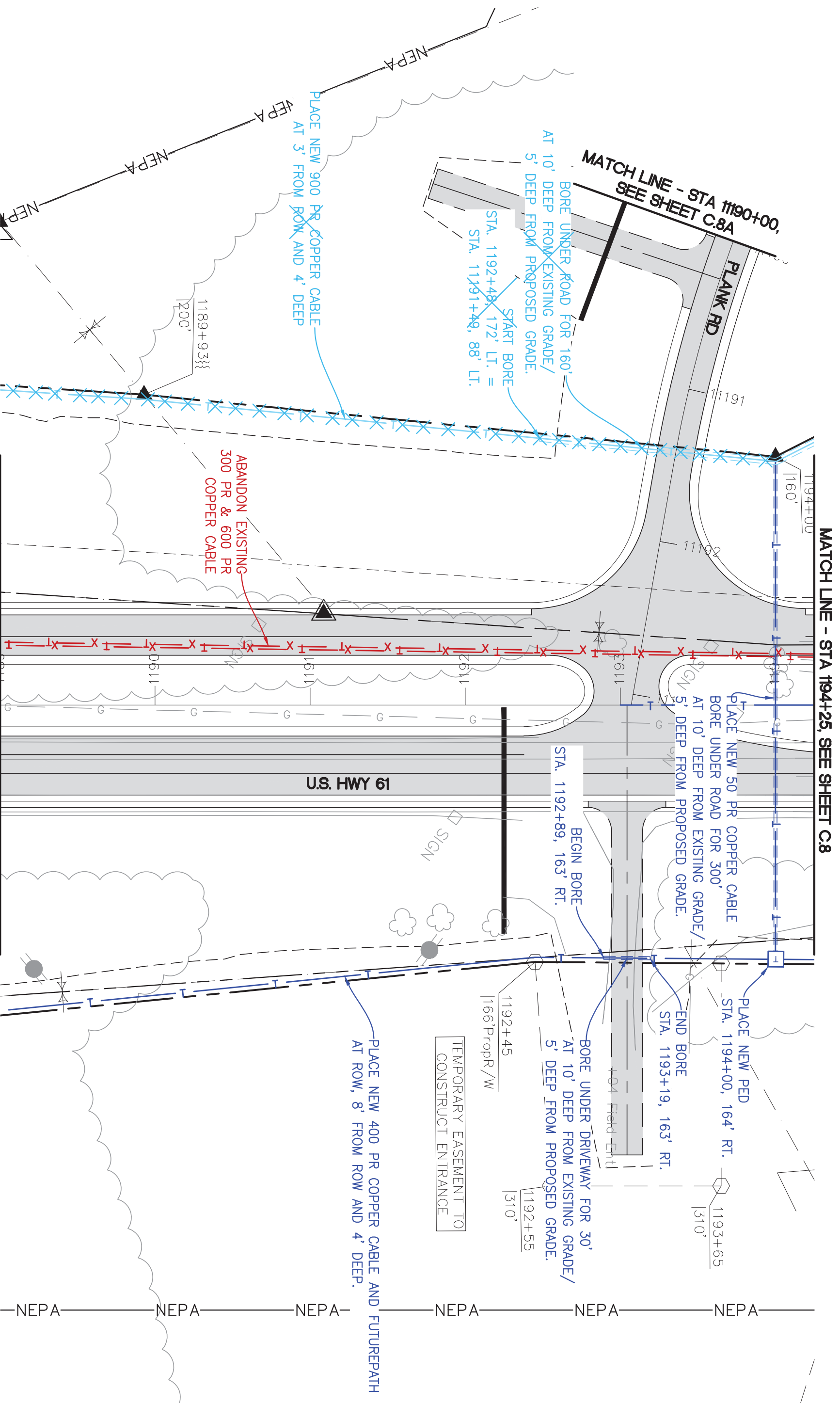
**CenturyLink**  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenthgese@centurylink.com  
 N. \_\_\_\_\_

**LEGEND**

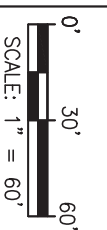
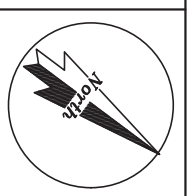
EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-X- FO -X-	FO
BURIED TELEPHONE	-X- T -X-	T
BURIED TELEPHONE DUCT	-X- T -X-	T
OVERHEAD TELEPHONE	-X- OHT -X-	OHT

\*SEE SHEET B.2 FOR LEGENDS

**Sheet**  
**C.6**  
 Sheet 11 of 42



**TERRA TECHNOLOGIES**  
 TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #W8X-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1189+00 - Sta 1194+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

**CenturyLink™**  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenygiese@centurylink.com  
 N. \_\_\_\_\_

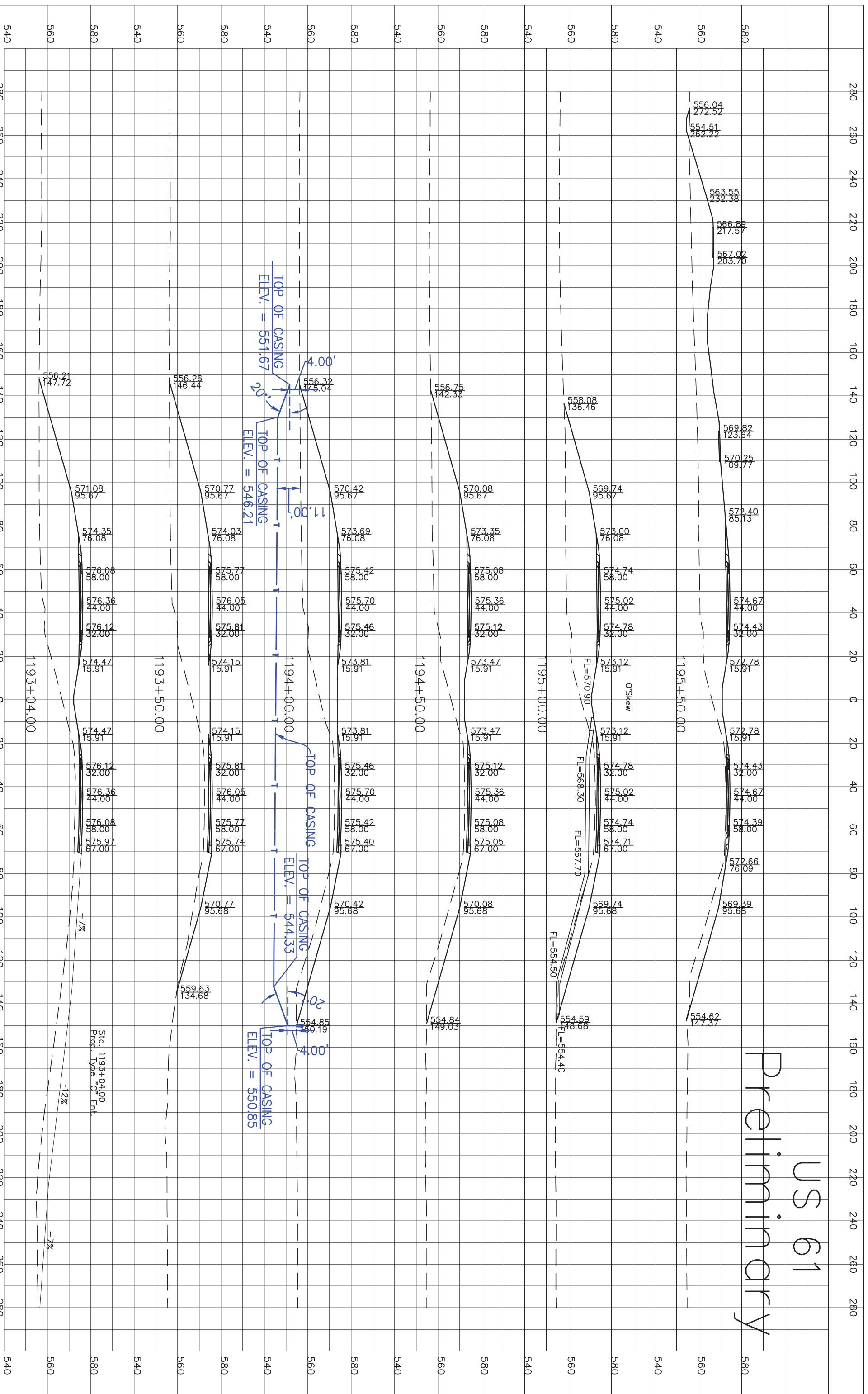
**LEGEND**

EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	<del>FO</del>	FO
BURIED TELEPHONE	<del>T</del>	T
BURIED TELEPHONE DUCT	<del>T-D</del>	T-D
OVERHEAD TELEPHONE	<del>OHT</del>	OHT

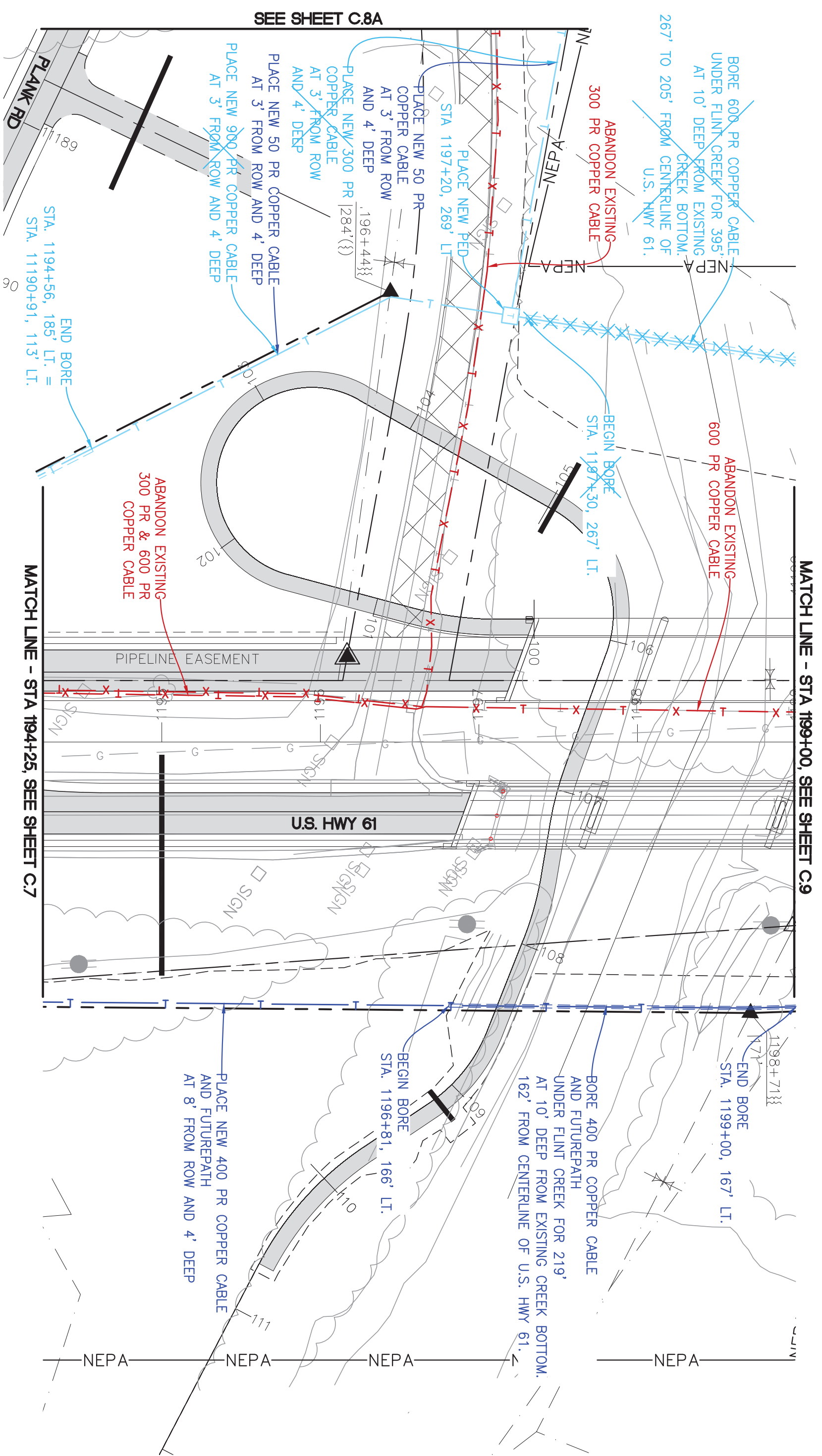
\*SEE SHEET B.2 FOR LEGENDS

**Sheet**  
**C.7**  
 Sheet 13 of 42

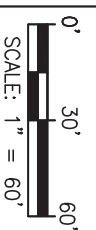
# US 61 Preliminary



FILE NO. ENGLISH DESIGN TEAM Stanley Consultants Inc. DES MOINES COUNTY PROJECT NUMBER NHSX-061-2(62)--3H-29 SHEET NUMBER W.21



TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



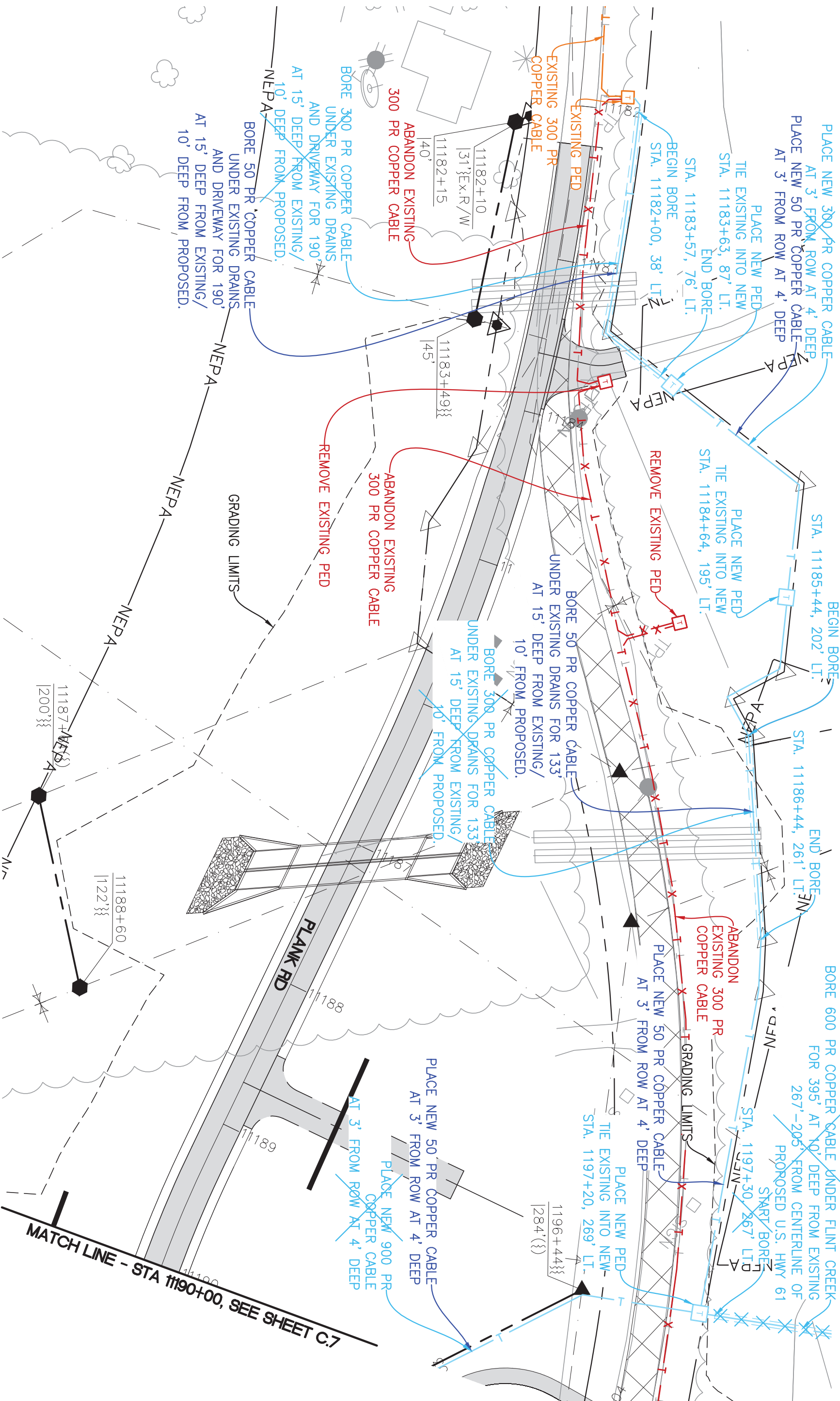
**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WBX-061-2(62)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1194+00-Sta 1199+00)  
 Project No: CL16.1000E Date: Mar 06, 2018 File:

**CenturyLink™**  
 CTL ENG: Brent Giese  
 PHONE:  
 E-MAIL: brenrigese@centurylink.com  
 N.

**LEGEND**

BURIED FIBER OPTIC	EXISTING	REMOVE/ABANDON	PROPOSED
BURIED TELEPHONE	FO	X-FO-X	FO
BURIED TELEPHONE DUCT	T	X-T-X	T
OVERHEAD TELEPHONE	OH	X-OH-X	OH
*SEE SHEET B.2 FOR LEGENDS			

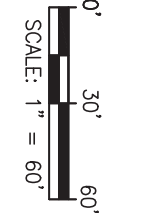
**Sheet**  
**C.8**  
 Sheet 15 of 42



SEE SHEET C.8



TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT#: CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WB8X-061-2(62)-3H-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 Plank Rd (Sta. 11182+00 - Sta. 11190+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

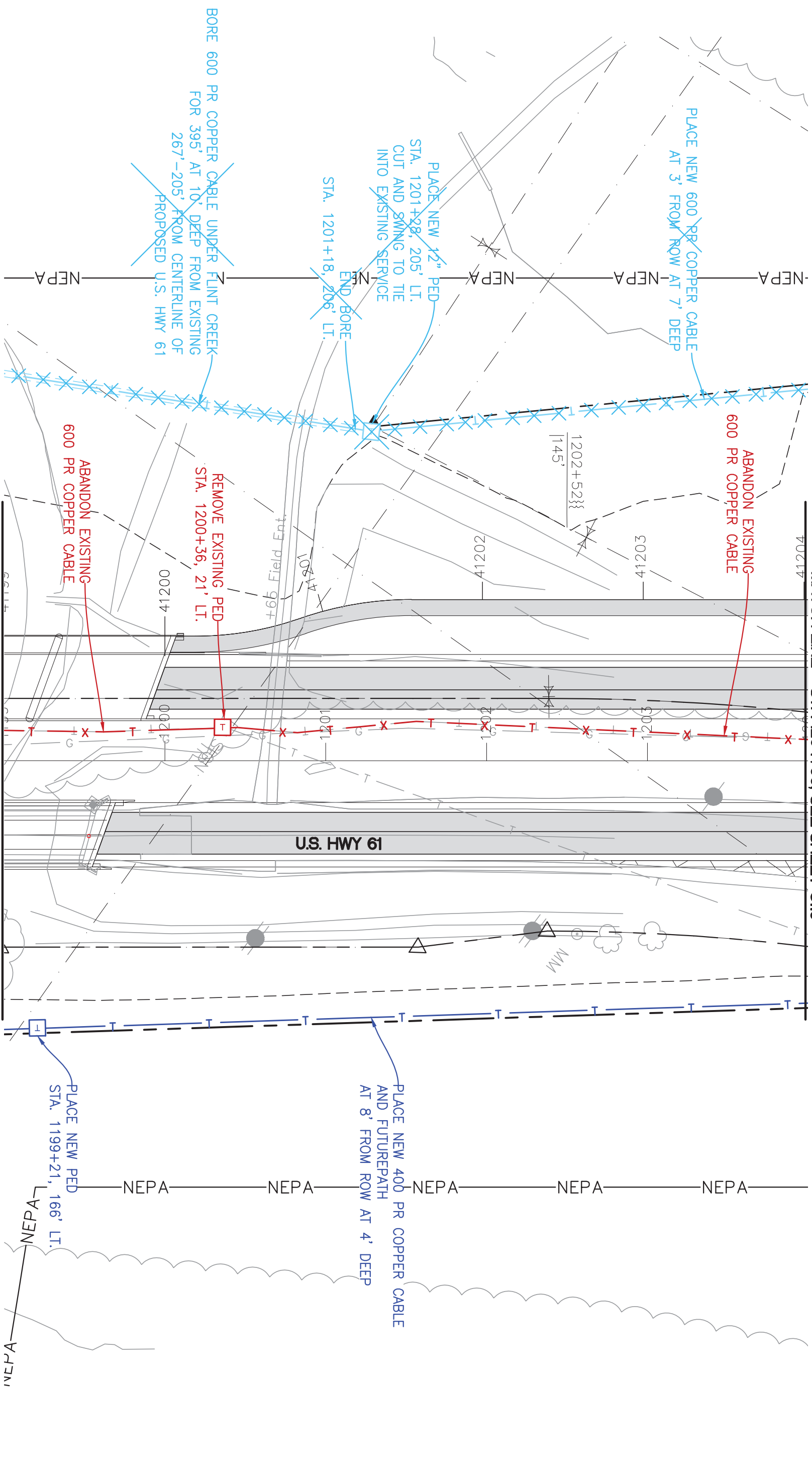
**CenturyLink™**  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenthgiese@centurylink.com  
 N. \_\_\_\_\_

LEGEND	
	EXISTING BURIED FIBER OPTIC
	EXISTING BURIED TELEPHONE
	EXISTING OVERHEAD TELEPHONE
	REMOVE/ABANDON BURIED FIBER OPTIC
	REMOVE/ABANDON BURIED TELEPHONE
	REMOVE/ABANDON OVERHEAD TELEPHONE
	PROPOSED BURIED FIBER OPTIC
	PROPOSED BURIED TELEPHONE
	PROPOSED OVERHEAD TELEPHONE

**Sheet C.8A**  
 Sheet 16 of 42

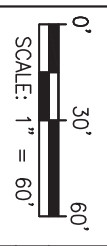


MATCH LINE - STA 1204+00, SEE SHEET C:10



MATCH LINE - STA 1199+00, SEE SHEET C:8

**TERRA TECHNOLOGIES**  
**TT**  
 TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16:1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WBX-061-2(G2)-3H-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 US HWY 61 (Sta 1199+00 - Sta 1204+00)  
 Project No: CL16:1000E | Date: Mar 06, 2018 | File:

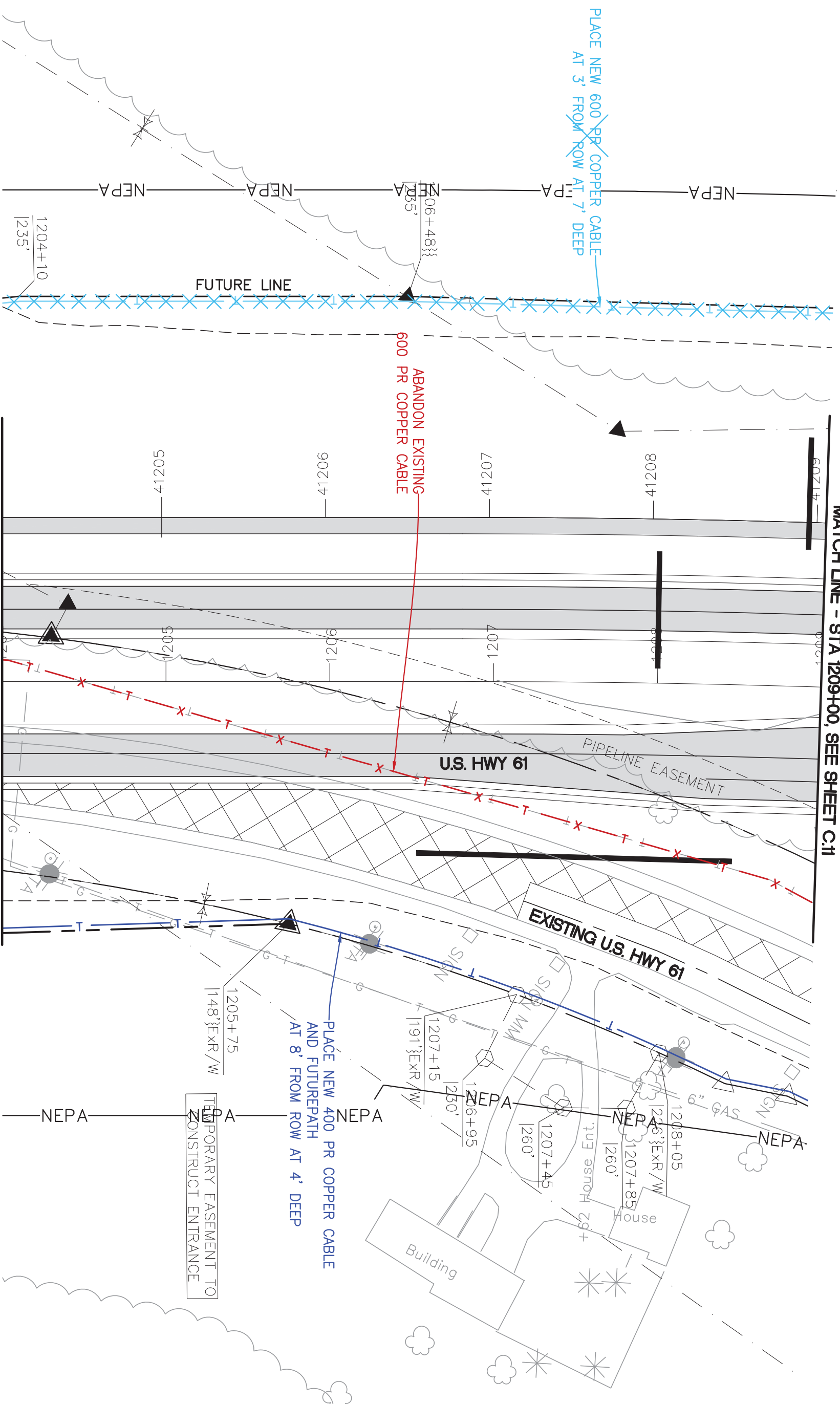
**CenturyLink™**  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenthgiese@centurylink.com  
 N. \_\_\_\_\_

**LEGEND**

<b>EXISTING</b>	<b>REMOVE/ABANDON</b>	<b>PROPOSED</b>
BURIED FIBER OPTIC	<del>FO</del>	FO
BURIED TELEPHONE	<del>T</del>	T
BURIED TELEPHONE DUCT	<del>OH</del>	OH
OVERHEAD TELEPHONE	<del>X-OH</del>	X-OH
*SEE SHEET B:2 FOR LEGENDS		

**Sheet**  
**C:9**  
 Sheet 17 of 42

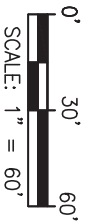
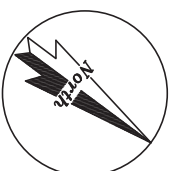
MATCH LINE - STA 1209+00, SEE SHEET C.11



MATCH LINE - STA 1204+00, SEE SHEET C.9



TT  
 TERRA TECHNOLOGY  
 TT# CL16.1000E  
 http://www.terratechllc.net



IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WBX-061-2(62)-3H-29

Des Moines County, IA  
**U.S. Hwy 61**

CenturyLink Relocation Plans  
 US HWY 61 (Sta 1204+00-Sta 1209+00)

Project No.: CL16.1000E Date: Mar 06, 2018 File:



CenturyLink  
 CIL ENG: Brent Giese  
 PHONE: 563-383-3333  
 E-MAIL: brenygiese@centurylink.com

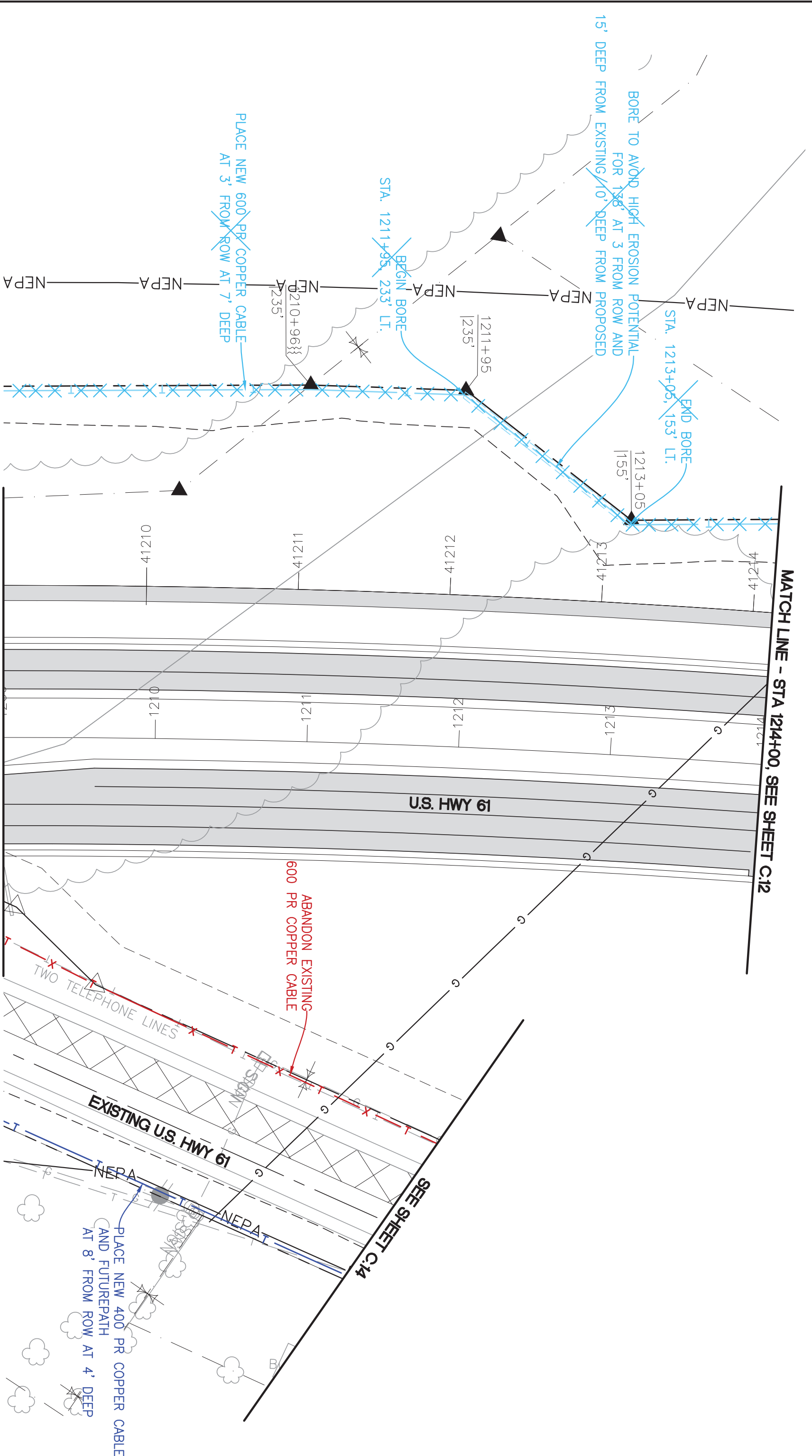
LEGEND	
	EXISTING BURIED FIBER OPTIC
	EXISTING BURIED TELEPHONE
	EXISTING OVERHEAD TELEPHONE
	REMOVE/ABANDON BURIED FIBER OPTIC
	REMOVE/ABANDON BURIED TELEPHONE
	REMOVE/ABANDON OVERHEAD TELEPHONE
	PROPOSED BURIED FIBER OPTIC
	PROPOSED BURIED TELEPHONE
	PROPOSED OVERHEAD TELEPHONE


\*SEE SHEET B.2 FOR LEGENDS

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

Sheet  
**C.10**

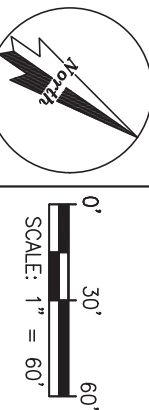
Sheet 18 of 42





TT  
TERRA TECHNOLOGIES


TT ENG: Stephanie Hellquist  
PHONE: 651-283-6774  
E-MAIL: shellquist@terratechllc.net  
TT# CL16.1000E  
http://www.terratechllc.net



0'  
30'  
60'  
SCALE: 1" = 60'

**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #WBX-061-2(C2)-31-29**  
Des Moines County, IA  
**U.S. Hwy 61**  
CenturyLink Relocation Plans  
US HWY 61 (Sta 1209+00 - Sta 1214+00)

Project No.: CL16.1000E Date: Mar 06, 2018 File:



CenturyLink  
CTL ENG: Brent Giese  
PHONE:  
E-MAIL: brenthgiese@centurylink.com

**LEGEND**

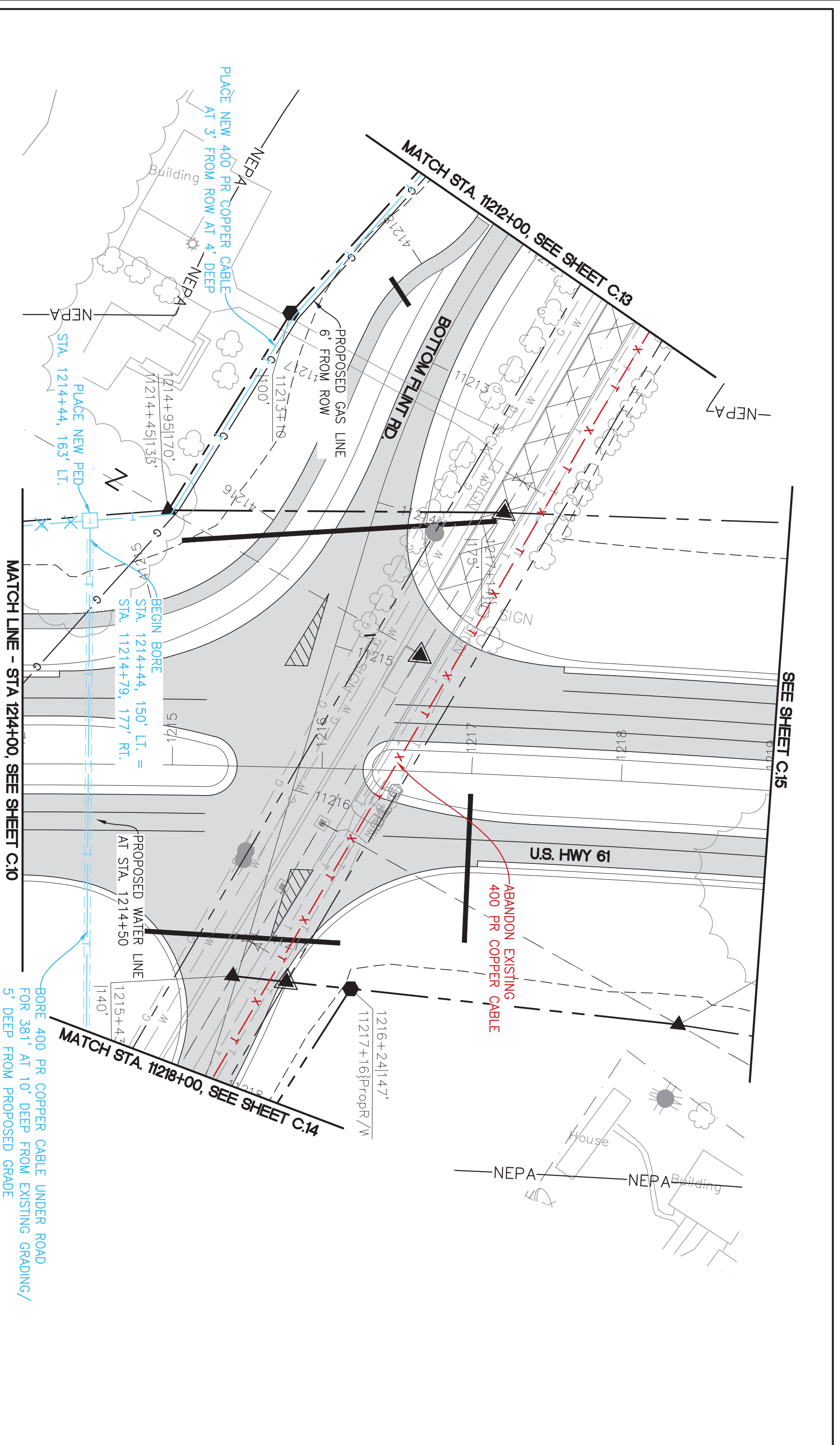
EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-x-FO-x-	FO
BURIED TELEPHONE	-x-T-x-	T
BURIED TELEPHONE DUCT	-x-T-x-	T
OVERHEAD TELEPHONE	-x-OHT-x-	OHT

\*SEE SHEET B.2 FOR LEGENDS

**Sheet**

**C.11**

Sheet 19 of 42



SEE SHEET C.15

U.S. HWY 61

MATCH STA. 11212+00, SEE SHEET C.13

MATCH STA. 11218+00, SEE SHEET C.14

MATCH LINE - STA 1214+00, SEE SHEET C.10

BORE 400 PR COPPER CABLE UNDER ROAD FOR 381' AT 10' DEEP FROM EXISTING GRADING/ 5' DEEP FROM PROPOSED GRADE

ABANDON EXISTING 400 PR COPPER CABLE

PROPOSED GAS LINE 6' FROM ROW

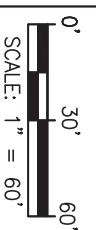
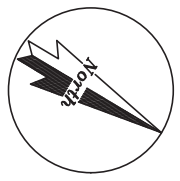
PROPOSED WATER LINE AT STA. 1214+50

BEGIN BORE STA. 1214+44, 150' LT. = STA. 11214+79, 177' RT.

PLACE NEW PED AT STA. 1214+44, 163' LT.

PLACE NEW 400 PR COPPER CABLE AT 3' FROM ROW AT 4' DEEP

TT  
 TERRA TECHNOLOGY  
 TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-2(62)-31-29  
 Des Moines County, IA  
**U.S. Hwy 61**  
 CenturyLink Relocation Plans  
 US HWY 61 (Sta 1214+00 - Sta 1219+00)  
 Project No.: CL16.1000E Date: Mar 06, 2018 File:

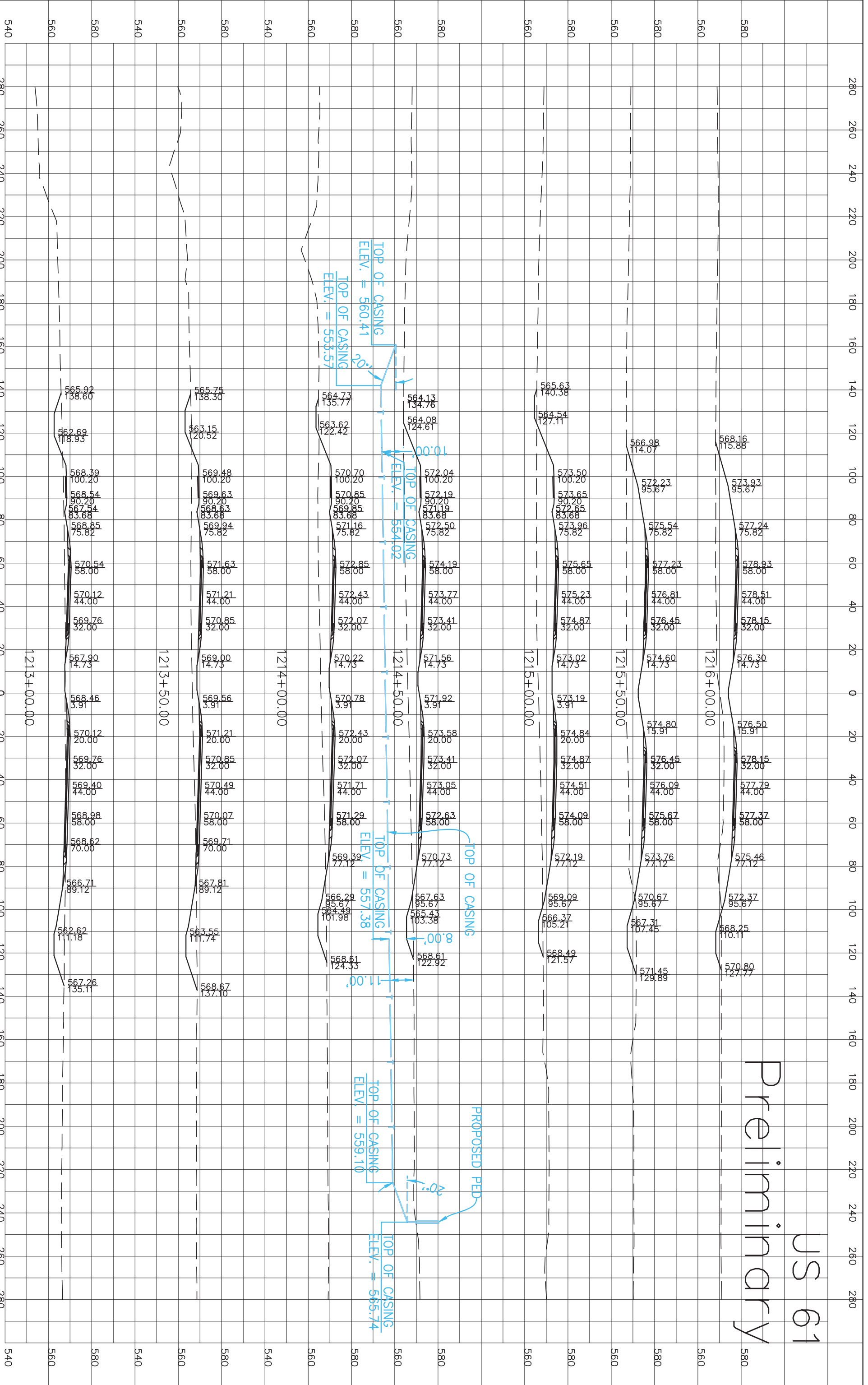
CenturyLink  
 CIL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenygiese@centurylink.com  
 N. \_\_\_\_\_

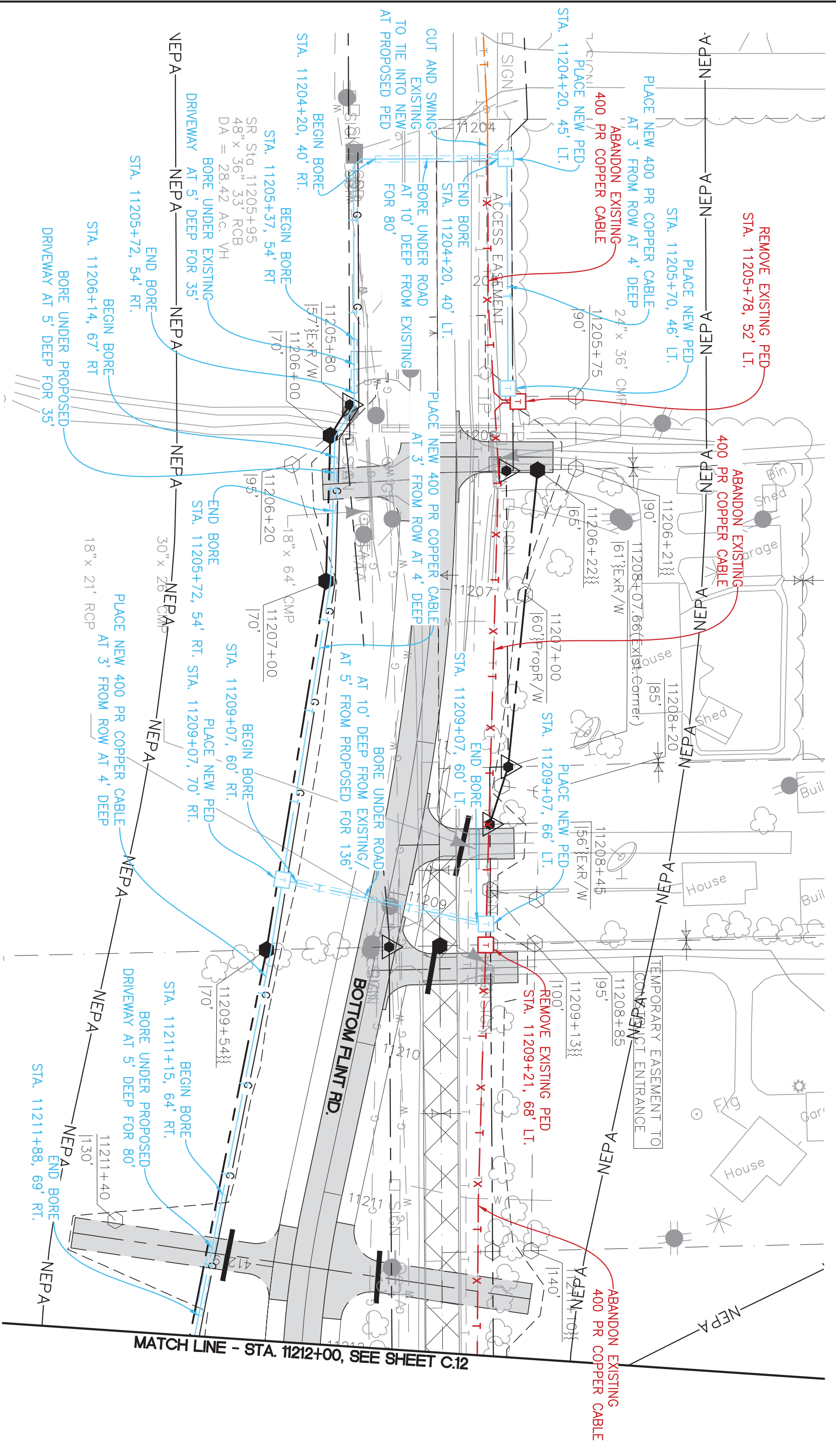
**LEGEND**

EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-X-FO-X-	FO
BURIED TELEPHONE	-X-T-X-	T
BURIED TELEPHONE DUCT	-X-T-D-X-	T-D
OVERHEAD TELEPHONE	-X-OHT-X-	OHT

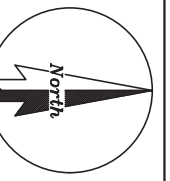
\*SEE SHEET B.2 FOR LEGENDS

# US 61 Preliminary





**TERRA TECHNOLOGIES**  
**TTT**  
 TT ENG: Stephanie Heilquist  
 PHONE: 651-283-6774  
 E-MAIL: sheilquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-2(G2)-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 Bottom Flint Rd (Sta. 11203+00-11212+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

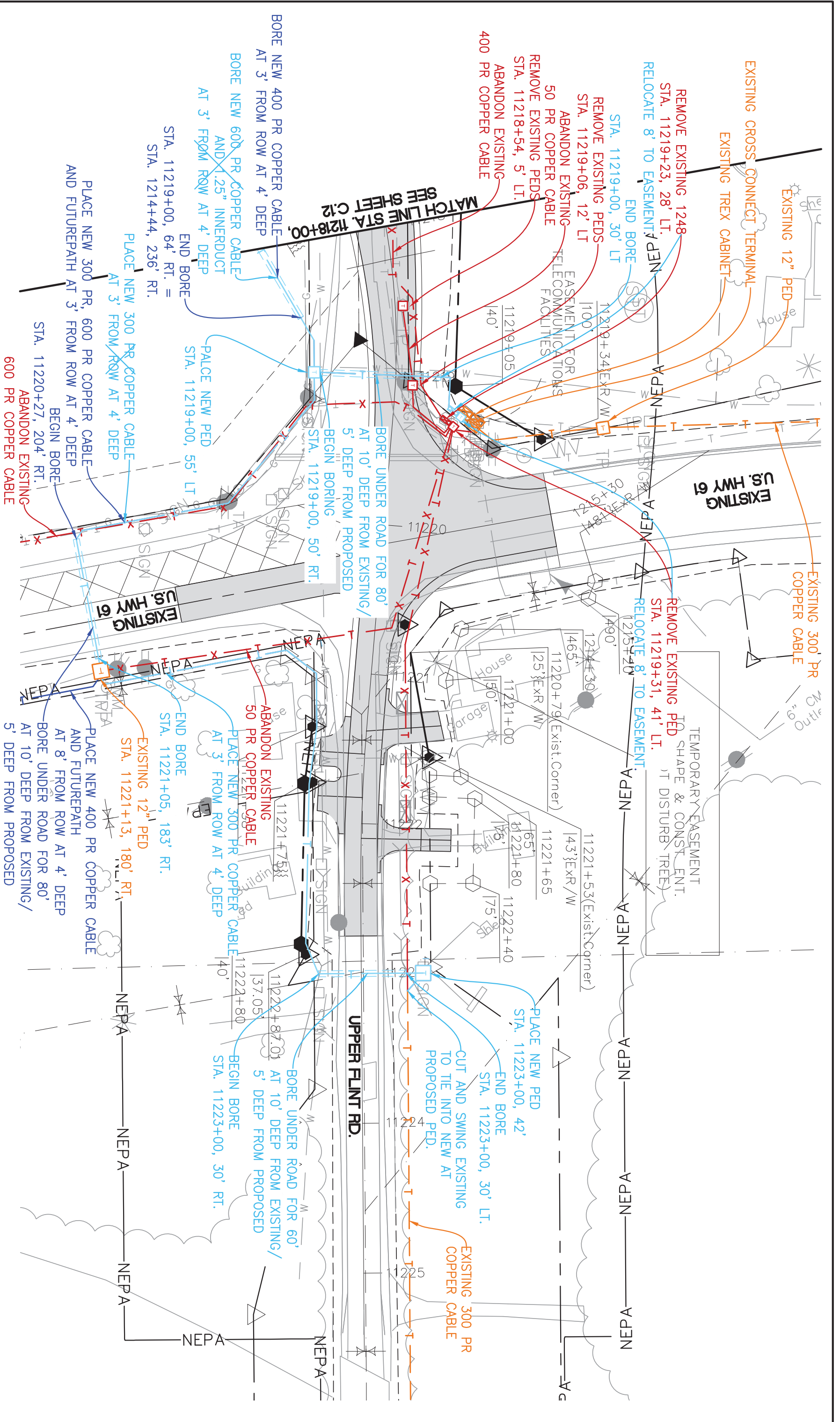
**CenturyLink™**  
 CIL ENG: Brent Giese  
 E-MAIL: brenthgiese@centurylink.com

**LEGEND**

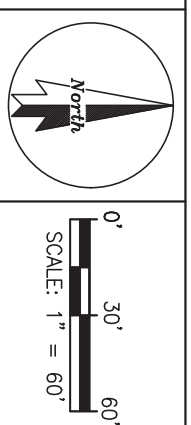
	EXISTING		PROPOSED
	EXISTING		PROPOSED
	EXISTING		PROPOSED
	EXISTING		PROPOSED
	REMOVE/ABANDON		
	REMOVE/ABANDON		

\*SEE SHEET B.2 FOR LEGENDS





**TERRA TECHNOLOGIES**  
 TT ENG: Stephanie Hellquist  
 PHONE: 651-283-6774  
 E-MAIL: shellquist@terratechllc.net  
 TT# CL16.1000E  
 http://www.terratechllc.net



**IOWA - DEPARTMENT OF TRANSPORTATION - PROJECT #IHX-061-262-31-29**  
 Des Moines County, IA  
**U.S. Hwy 61**  
**CenturyLink Relocation Plans**  
 Flint Rd (Sta. 11218+00 - Sta. 11225+00)  
 Project No.: CL16.1000E | Date: Mar 06, 2018 | File:

**CenturyLink™**  
 CTL ENG: Brent Giese  
 PHONE: \_\_\_\_\_  
 E-MAIL: brenygiese@centurylink.com  
 N. \_\_\_\_\_

**LEGEND**

EXISTING	REMOVE/ABANDON	PROPOSED
BURIED FIBER OPTIC	-X-FO-X-	FO
BURIED TELEPHONE	-X-T-X-	T
BURIED TELEPHONE DUCT	-X-T-D-X-	T-D
OVERHEAD TELEPHONE	-X-OHT-X-	OHT
		OHT

\*SEE SHEET B.2 FOR LEGENDS





[www.iowadot.gov](http://www.iowadot.gov)

Office of Traffic and Safety  
800 Lincoln Way Ames, Iowa 50010  
Phone: 515-239-1014  
Email: [bryan.bradley@dot.iowa.gov](mailto:bryan.bradley@dot.iowa.gov)

## Notification of width or height restrictions on Iowa primary highways – LANE CLOSURE RESTRICTIONS AND PROCEDURES

**To:** Contractors initiating a lane closure on public primary highways

**Subject:** Notification of width or height restrictions on Iowa primary highways

**Date:** February 17, 2014

In accordance with the stipulations on all Utility Accommodation permits, utilities may not obstruct or close primary highways without prior consent of the Iowa DOT, except in emergency situations. The permit holder must notify the DOT 48 hours in advance of its intention to start construction or perform routine maintenance on the highway right-of way. The purpose of this note is to remind you of these requirements and provide guidance on how to give proper notice and information to the Iowa DOT.

Even short term partial closures can have a significant impact on the operation of highway system. The Iowa DOT is working hard to improve the accuracy of the information provided by the Iowa 511 traveler information system, (<http://511ia.org/>) but we need your help. Besides providing real-time information to the traveling public, this system is also used by the Iowa DOT to route oversize loads. Having accurate information on the location, extent and duration of lane restrictions is critical for their routing processes.

Before setting up a lane closure or any vertical/horizontal restriction on a primary highway, call your local Iowa DOT maintenance garage, as shown on the Iowa DOT Districts web page, <http://www.iowadot.gov/districtshome.html> to discuss timing and date of the closure/restriction. Once the maintenance garage concurs with the timing and date, it is your responsibility to call the Iowa DOT Traffic Operations Center (TOC) at (515-239-1440). The TOC will add the information to the 511

system, which generates an automatic message to Iowa DOT Motor Carrier Services (MCS) and the District office.

**This notification does not replace the need for a permit application. Permits are required for utility accommodation and for any and all work on right of way, except emergency work.**

Except in emergency situations, 48 hour advance notice is the minimum required. The preference is for a 10 day notice as permits for oversize loads are issued up to 10 days in advance. If a 10 day notice is not possible, MCS will have to check for permitted loads on those routes for possible conflicts and work with the permit holders and DOT Maintenance office to resolve the conflicts. In emergency situations, notification should be provided as soon as possible.

When providing notice to the Iowa DOT, you will need to supply detailed information about the restriction. It is advised you have this information (last 2 pages) when you call the TOC. The same detailed information to be provided is also listed at:

[http://www.iowadot.gov/local\\_systems/mailling/2014/january/511\\_information\\_form.pdf](http://www.iowadot.gov/local_systems/mailling/2014/january/511_information_form.pdf).

If you have any questions, **please do not reply to this note**. Instead, you may contact either your local Iowa DOT maintenance garage or the TOC.

Thank you in advance for your cooperation.

Sincerely,



Bryan Bradley

State Utility Engineer

515-239-1014

[bryan.bradley@iowa.gov](mailto:bryan.bradley@iowa.gov)

Iowa Department of Transportation

# 511 Information Required

Before setting up a lane closure or a vertical/horizontal restriction of any kind on a primary highway extension, call your local Iowa DOT maintenance garage to discuss timing and date of the closure/restriction. Once the maintenance garage concurs with the timing and date, call the Iowa DOT Traffic Operations Center (TOC) at **515-239-1440**. The TOC will put the information in the 511 system, which generates an automatic message to Iowa DOT Motor Carrier Services (MCS) and the District office.

The following information is required to enter a maintenance/construction event into the Iowa DOT 511 system.

Requestor: \_\_\_\_\_  
Contact number: \_\_\_\_\_

Route(s) affected:

Project description:  
\_\_\_\_\_

Project begin location (detailed description including cross streets and mile markers):  
\_\_\_\_\_  
\_\_\_\_\_

Project end location (detailed description including cross streets and mile markers):  
\_\_\_\_\_  
\_\_\_\_\_

Country/Countries:  
\_\_\_\_\_  
\_\_\_\_\_

24 hour project contact:  
\_\_\_\_\_

Name \_\_\_\_\_  
Phone \_\_\_\_\_

- Describe the impact on traffic:
- Closed
  - Closed intermittently
  - Intermittent lane closure
  - Alternating lane closures
  - Reduced to one lane
  - Reduced to two lanes
  - Reduced to three lanes

- Right lane closed
- Left lane closed
- Center lane closed
- Right shoulder closed
- Left shoulder closed
- Exit ramp closed
- Entrance ramp closed

- Additional project information (pilot car, flagger, etc.):
- Two center lanes are closed
  - Left exit ramp closed
  - Shoulder closed
  - Bridge closed
  - Intersecting road closed
  - Local road closures in area
  - Left lane of exit ramp closed
  - Road construction
  - Work in the median
  - Opposing traffic
  - Single lane traffic alternating directions

Will there be temporary overhead signals? (15' standard height restriction)  Yes  No

If yes, please provide the location of the temporary overhead signals in the space provided.

Are there any other width or height restrictions:  Yes  No

If yes, please describe:

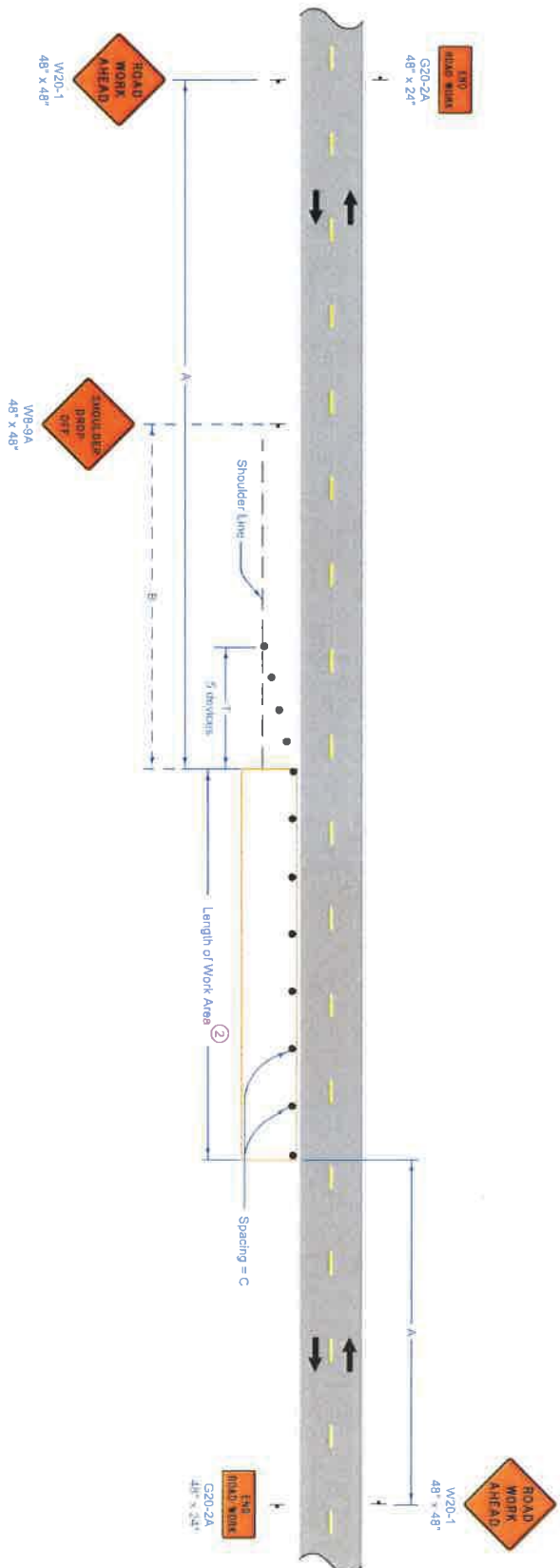
Additional public website comments:

Project beginning date and time:

Project ending date and time:

**Times of closure**  Continuous  Weekdays (Monday – Friday)  Nights

Times of closure:



**LEGEND**

- Traffic Sign
- 42" Channelizer
- Work Area
- Direction of Traffic

SPEED LIMIT (mph)	A	B	C ②	T
35 or less	500'	250'	40'	100'
40 - 45	700'	350'	80' ①	200'
50 or greater	1000'	500'	100' ①	200'

When a pavement edge drop-off exists, install a **SHOULDER DROP-OFF** sign.

No pavement edge drop-offs greater than pavement depth will be allowed during non-working hours.

Shoulder edge drop-offs shall be mitigated according to Article 1107.08.L2 of the Standard Specifications.

For work lasting less than one hour, refer to TC-1.

- ① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fill requirement of Article 1107.08 of the Standard Specifications does not apply. Reduce channelizer spacing to 40 feet.
- ② For work areas less than 200 feet long, use channelizers spaced at 20 foot centers or use a vehicle with an amber revolving light or amber strobe light.

Possible Contract Item:  
Traffic Control



**STANDARD ROAD PLAN**

REVISIONS: Modified general notes, changed title and replaced the DOT logo in the title block with the new version.

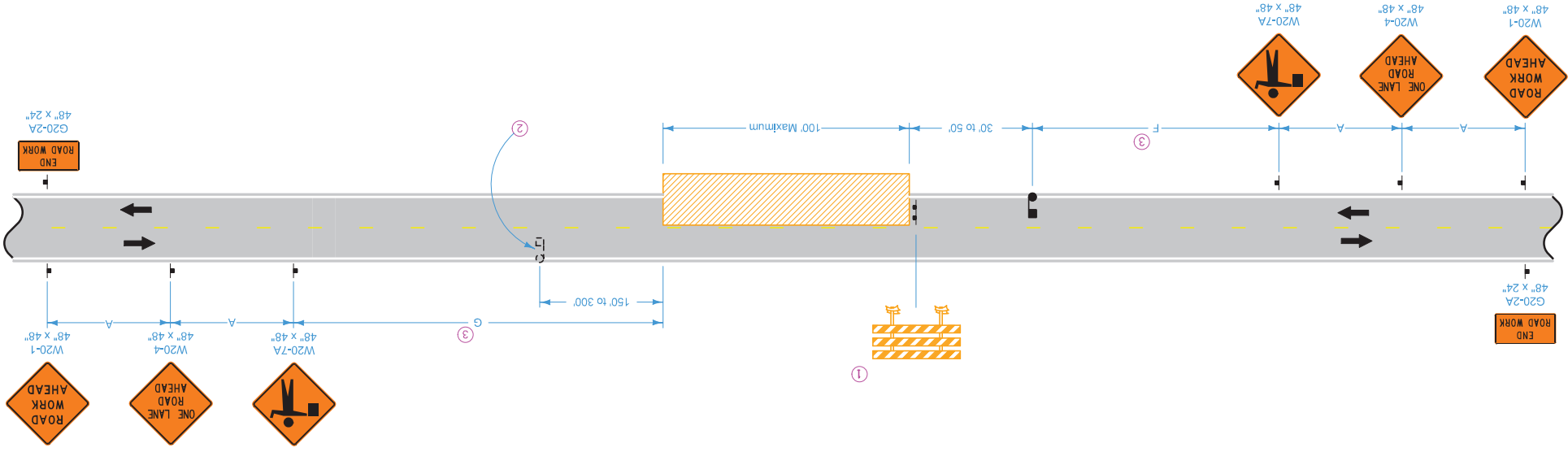
DATE: 04-27-15

SHEET 1 of 1

TC-202

**WORK WITHIN 15 FT OF TRAVELED WAY**

Possible Contract Items:  
Flaggers  
Traffic Control



SPEED LIMIT (mph)	F and G Range	F + G Max.
50 or greater	500'	4000'
40 - 45	350'	3700'
35 or less	250'	3500'

**LEGEND**

- Traffic Sign
- Flagger
- Work Area
- Type III Barricade
- Direction of Traffic

- ① A vehicle with an amber revolving light or amber strobe light may be substituted for the Type III barricade.
- ② Provide a second flagger if:  
The flagger's view of approaching traffic in the open lane is less than 1/4 mile or the work site is in an area of restricted sight distance (such as a "No Passing" zone); or  
Excessive traffic delays are encountered.
- ③ F and G distances are to remain as near minimum values as work permits. However, to be able to move the work area without moving the advance signing, F and G distances may be varied within the limits of the table. Maximum movement can be achieved by setting one F or G value at the minimum and the other value at its maximum.

**LANE CLOSURE WITH FLAGGERS**

APPROVED BY DESIGN METHODS ENGINEERS  
*Deanna M. Fisher*

REVISIONS: Removed "or Vertical Panel" from 47' Channelizer in Legend.

REVISION	04-17-12	3
<b>STANDARD ROAD PLAN</b>		
of Transportation		
Iowa Department		

SHEET 1 of 1  
**TC-213**

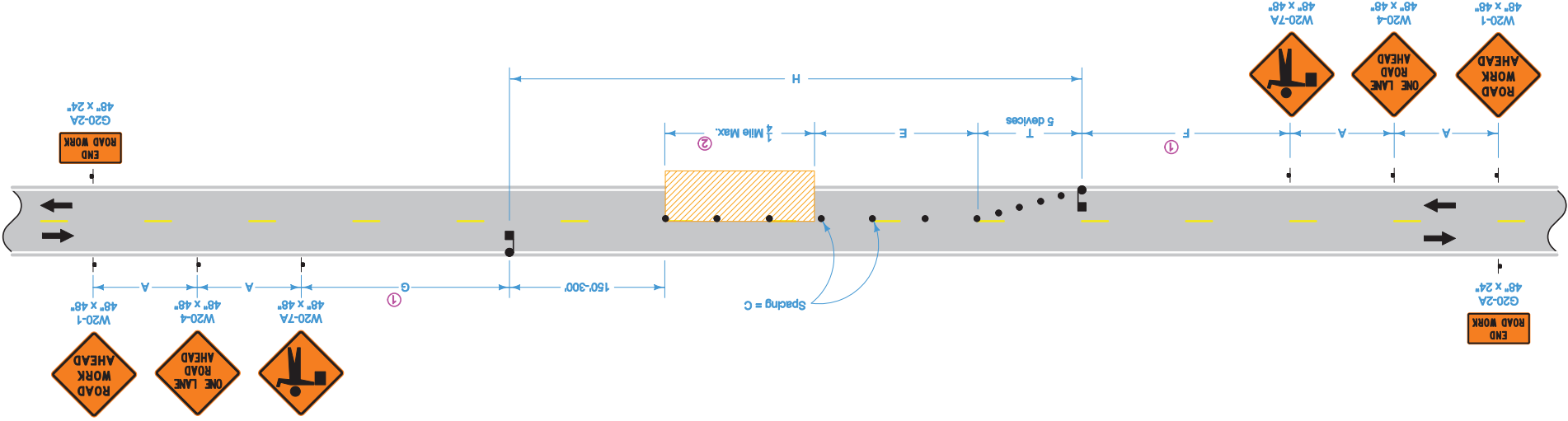
Possible Contract Items:  
Flaggers  
Traffic Control

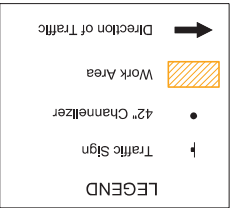
- ① Keep F and G distances as near to minimum values as work permits. However, to allow advancement of the work area without moving signs, F and G distances may be varied within the limits of the table. Maximum movement can be achieved by setting one F or G value at the minimum and the other value at its maximum.
- ② If length of work area exceeds 1/4 mile, use TC-214.

50 or greater	500'	100'	200'-300'	1000'-3000'	4000'	2000'	100'
40 - 45	350'	80'	0'-200'	700'-3000'	3700'	2000'	100'
35 or less	250'	40'	0'-200'	500'-3000'	3500'	2000'	50'
SPEED LIMIT (mph)	A	C	E	F and G Range	F + G Max.	H	T

**LEGEND**

- Direction of Traffic
- ▨ Work Area
- 42" Channelizer
- Flagger
- ⊥ Traffic Sign





40 or less	500'	250'	40'	100'
LIMIT (mph)	A	B	C	T
65 - 70	1500'	500'	100'	230'
55 - 60	1500'	500'	100'	200'
45 - 50	700'	350'	80'	200'

- ① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fillet requirement of Article 1107.08 of the Standard Specifications does not apply. Reduce channelizer spacing to 40 feet.
- ② For work areas less than 200 feet long, use channelizers spaced at 20 foot centers or use a vehicle with an amber revolving light or amber strobe light.

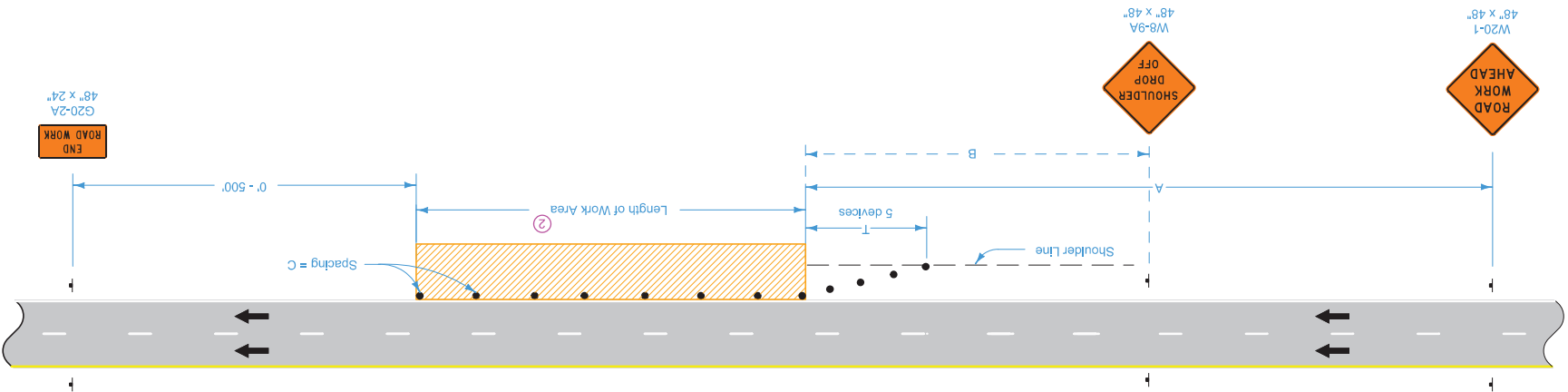
For work lasting less than one hour, refer to TC-1.

When a pavement edge drop-off exists, install a SHOULDER DROP-OFF sign.

No pavement edge drop-offs greater than pavement depth will be allowed during non-working hours.

Shoulder edge drop-offs shall be mitigated according to Article 1107.08.L2 of the Standard Specifications.

Possible Contract Item:  
Traffic Control



**IOWA DOT**

**STANDARD ROAD PLAN**

**TC-402**

REVISION 04-21-15 8

APPROVED BY DESIGN METHODS ENGINEER *Chuan Smith*

WORK WITHIN 15 FT OF TRAVELED WAY

REVISIONS: Modified general notes, changed title and replaced the DOT logo in the title block with the new version.



# LANE CLOSURE ON DIVIDED HIGHWAY

APPROVED BY DESIGN METHODS ENGINEER

*Brian Smith*

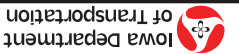
REVISIONS: Clarified lane line drop-off in the general notes.

SHEET 1 of 1

TC-418

REVISION 8 10-15-13

## STANDARD ROAD PLAN



Iowa Department of Transportation

Possible Contract Item:  
Traffic Control

- ① Refer to SI-881 for sign details.
- ② Where side road speed limit is 40 mph or less, a distance of 200 feet is allowed.
- ③ Place a ROAD WORK AHEAD sign on the opposite side of the intersection in a similar location.
- ④ For roadways with a posted speed limit of 60 mph or greater before road work:
  - Place SPEED LIMIT 55 signs prior to the lane closure as shown.
  - When the length of closure is greater than 1 mile, install SPEED LIMIT 55 signs in the closed lane at 1-mile intervals.
  - Remove or cover all existing signs that conflict with 55 mph speed limit while 55 mph speed limit is in effect.

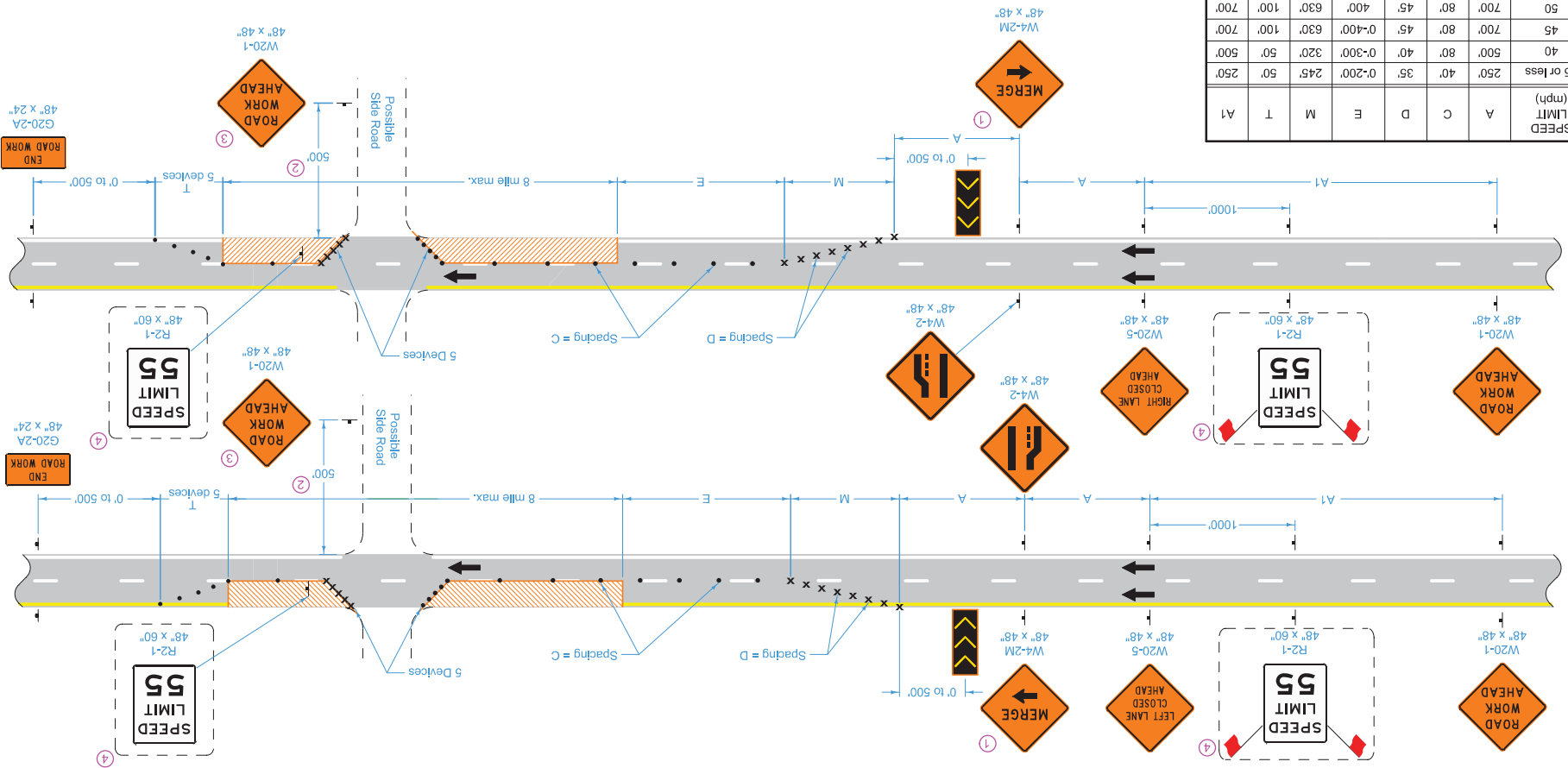
When the Average Daily Traffic (ADT) exceeds 20,000 vehicles per day or when a traffic queue extends beyond the advanced signing, place RIGHT/LEFT LANE CLOSED 4 MILES and RIGHT/LEFT LANE CLOSED 2 MILES signs (W20-5) on both sides of the roadway 4 miles and 2 miles in advance of the lane closure, respectively, as appropriate.

Where there is a lane line drop-off or rise, do not allow traffic to cross over the drop-off or rise, except for ramp locations where a BUMF (W8-1) sign is placed.

Lane line drop-offs greater than a nominal 4 inches are not allowed during non-working hours.

LEGEND	
←	Direction Of Traffic
+	Traffic Sign
x	Drum
▶▶▶	Arrow Board
▨	Work Area

SPEED LIMIT (mph)	A	C	D	E	M	T	A1
35 or less	25'	40'	35'	0:200'	245'	50'	250'
40	50'	80'	40'	0:300'	320'	50'	500'
45	70'	80'	45'	0:400'	630'	100'	700'
50	70'	80'	45'	400'	400'	100'	700'
55 - 60	100'	100'	55'	600'	770'	100'	2000'
65 - 70	100'	100'	65'	700'	910'	100'	2000'



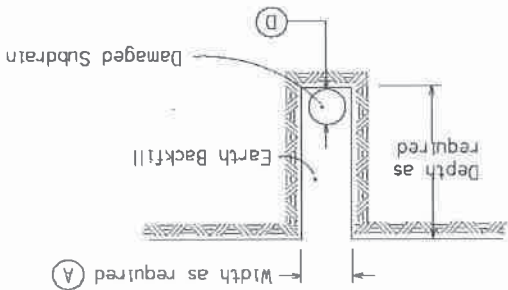
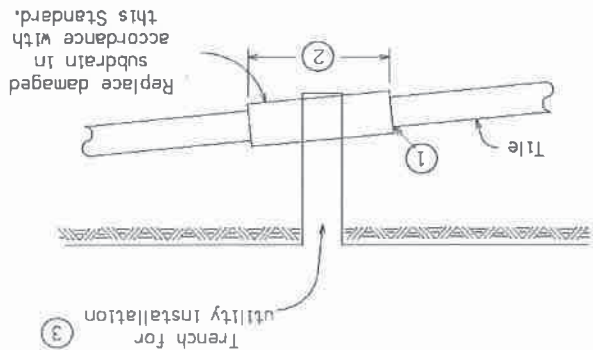
- ① Concrete collar to be placed around joint where existing tile line and corrugated aluminumized metal pipe connect.
- ② Minimum length of corrugated metal pipe shall be 4 feet. Minimum length of 2 feet on each side of the tile line break location.
- ③ Trench shall be backfilled with 8 inches loose material, compacted to 6 inches with a minimum of 95% compaction of natural density.
- A. Backfill and compact area around drain tile to be completed by hand until new tile is completely covered.
- B. Area shall require inspection by the Iowa Department of Transportation inspectors or their designated personnel prior to backfilling of trench.
- \* "Roadway Embankment Area" is defined as the area lying between the foreslopes of a two-lane roadway and from near foreslope to far foreslope of a four lane roadway.

NOTES:  
 Tile lines disturbed within the right-of-way (outside the Roadway Embankment Area \*) limits shall be repaired as follows:  
 May be repaired with schedule 40 PVC pipe of compatible size or in accordance with the replacement schedule-case 'A' as listed above. Replacement with schedule 40 PVC pipe shall require using a connecting device of a Femco plain and plain flexible pipe coupling or equal.  
 Tile lines disturbed within the "Roadway Embankment Area" shall be replaced in accordance with the replacement schedule - case 'A' stated above and as follows:  
 Concrete collar to be placed around joint where existing tile line and corrugated aluminumized metal pipe connect.

\* Replacement sizes provide equivalent capacity based on 6" settlement assuming a 0.20% slope with  $n = 0.013$  for concrete pipe and  $n = 0.025$  for corrugated pipe (Manning Formula)

REPLACEMENT SCHEDULE - CASE 'A'		Existing Tile ①	Proposed Subdrain Size	Concrete Pipe	Coated C.M.P.
		4	6	8	10
		6	8	10	12
		8	10	12	15
		10	12	15	18
		12	15	18	21
		15	18	21	24
		18	21	24	30
		21	24	30	36
		24	30	36	36
		>24			*

Note:  
 Replacement of drainage tile shall be accomplished so as to cause the minimum of disturbance to existing field tile. The repaired drainage tile shall be left in a functional condition with special emphasis placed on maintaining existing flow line elevations.



Tile Line Repair Guideline