

SEE SHEET 2 FOR  
INDEX OF SHEETS,  
GENERAL NOTES,  
AND  
COMMITMENTS

**Project Description:**

Proposed residential network buildout

**Geographic Information:**


State: Illinois  
County: McHenry  
City: Lake in the Hills

**List of Permitting Authorities:**

1. Lake in the Hills
2. McHenry County
3. None
4. None
5. None
6. None

i3Broadband - Engineering Department  
PHONE: (309) 670-0400 ext. 400  
EMAIL: engineering@i3broadband.com

Project Designer: **Steven Berchtold**  
Const. Manager: **Nemanja Stanojevic**  
Market Manager: **Coty Keosprasa**

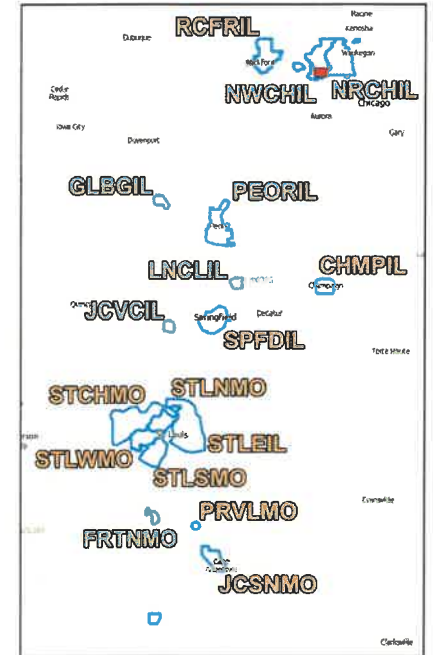
 FOR LOCATING SERVICES  
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(800) 344-7483 (MO)  
or 811 (US)

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# PLANS FOR PROPOSED FIBER INSTALLATION

**Market:** NWCHIL  
**Chassis:** NWCHILMXKC06  
**Sector:** NWCHIL2104  
**Bore Footage:** 20750  
**Passings:** 346



**SUBMITTED  
FOR PERMITTING**

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## INDEX OF SHEETS

C1	Cover Sheet
N1	Index, General Notes, and Commitments Sheet
DT1	Typical Vault Details Sheet
DT2	Typical Vault Installation Details Sheet
L1	Symbol Reference Legend Sheet
PO1	Project Overview Map
D1 - D4	Duct and Vault Installation Maps
F1 - F4	Fiber Installation Maps

## SPECIAL PERMITTING COMMITMENTS

McHenry County DOT

- 1 Require a minimum of a 4" duct to be used, boring at a minimum of 36" depth.
- 2 Provide a proper IDOT approved traffic control plan.
- 3 Min. 36" required outside of pavement crossings.
- 4 Min. 30" for stormdrain crossings
- 5 No open cut of a County Highway allowed.

## GENERAL PLAN NOTES

1. These notes shall be applicable to all operations performed under this contract, except when they conflict with any SPECIAL PERMIT COMMITMENTS (SEE THIS SHEET). In such cases, the notes in that section shall supercede these notes.
2. All care should be taken to mitigate damage to existing utilities. OneCall shall be contacted before any boring or excavation.
3. Note that handholes drawn on the shared lot line can be adjusted to either side of the lot line as necessary, which is standard on i3Broadband prints. Handholes that are shifted to one side of a lot line need to be placed on that side of the lot line, generally to comply with an easement, or to avoid a driveway or large tree.
4. Construction change order requests shall be coordinated with the appropriate i3 Construction Department Representative and CLEARLY DOCUMENTED ON THESE PLANS AS RED-LINED AS-BUILT DRAWINGS.
5. Any damage to adjacent properties caused by construction operations within the work area shall be fully restored to their ORIGINAL CONDITION.
6. Dimensions (approximate, in feet) shown generally indicate total Right-of-Way width, or Utility Easement width relative to nearest lot line. Rights-of-Way and Utility Easements are not necessarily uniform (i.e. not split evenly a cross street centerline or property line). Contact i3 as needed for clarity.
7. SLACK NOTES:  
 -All taps are to have 4' of slack at the head, 55' at the splice case, and no slack storage anywhere else.  
 -Mainline cable to have 55' at all ends/cut points and 110' at all #3 or larger handholes where cable is uncut.  
 -Any other abnormalities will be noted on prints.
8. The CONTRACTOR shall be required to comply with all Federal, State, and Local laws/ordinances, in addition to all i3broadband contract documents.



602 High Point Lane  
 East Peoria, Illinois  
 (309) 670-0400 ext. 400  
 i3broadband.com

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 FOR SHEET  
 NORTH ARROW  
 AND SCALE

PROJECT ENGINEER:  
 Steven Berchtold

### REVISIONS

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/	/24	No. _____
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PROPOSED FIBER INSTALLATION PLANS

INDEX, GENERAL NOTES, AND COMMITMENTS

SECTOR: NWCHELL2104

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SHEET:

**N1**

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PROJECT ENGINEER:

Steven Berchtold

REVISIONS

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PROPOSED FIBER INSTALLATION PLANS

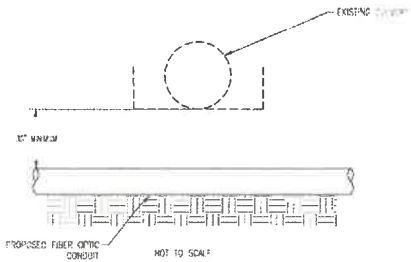
TYPICAL VAULT INSTALLATION DETAILS

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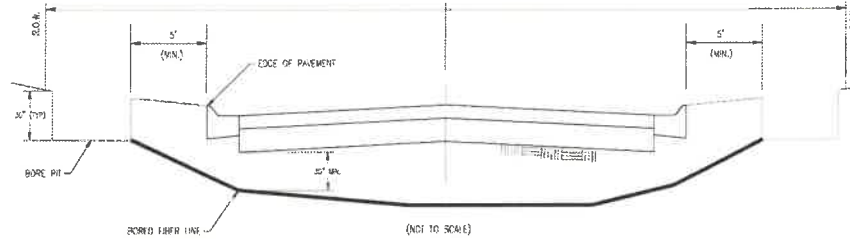
SECTOR: NWCCHIL2104

SHEET:

DT2



FIBER OPTIC CONDUIT AND CULVERT SEPARATION  
TYPICAL VERTICAL SEPARATION

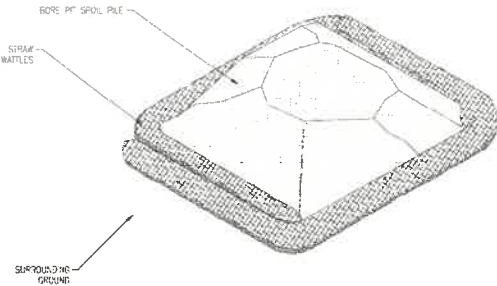


BORED ROAD CROSSING  
TYPICAL DETAIL

NOTES  
1. DETAIL TO BE CONSULTED WHEN PLANS INDICATE A HANDHOLE ON OTHER SIDE OF A ROAD CROSSING. IF A HANDHOLE IS INDICATED ON ONLY ONE SIDE OF THE ROADWAY, THE BORE MAY CONTINUE BEYOND THE CROSSING. DISTANCES AND DEPTHS AS SHOWN ON THE DETAIL ARE TO BE APPROXIMATE.

ADDITIONAL NOTES

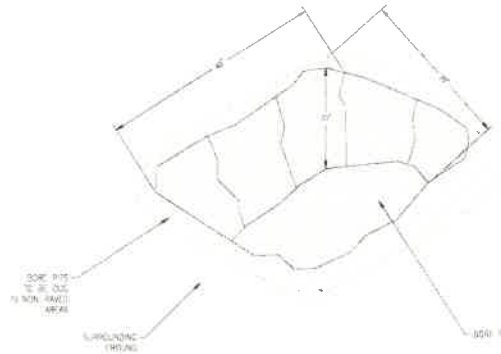
- CONTRACTOR TO APPLY FOR EROSION CONTROL PERMITS TO CITY PRIOR TO CONSTRUCTION.
- ALL AREAS DISTURBED BY CONSTRUCTION TO BE REPLACED IN KIND WITH LIKE MATERIALS.
- RESTORATION OF UNPAVED/GRASSY AREAS SHALL BE AS FOLLOWS:
  - TERRACE REMOVED DURING DISTURBANCE SHALL BE SALVAGED.
  - UPON BACKFILLING OF EXCAVATION, PROVIDE 4" TOPSOIL AT SURFACE.
  - PROVIDE CLASS A SEED AND FERTILIZER PER DOT ROAD AND BRIDGE CONSTRUCTION SPECIFICATIONS.
  - COVER AREAS WITH 140-25 TS EROSION CONTROL BLANKET, OR APPROXIMATE EQUIV.
    - BLANKET TO EXTEND MINIMUM OF 6' BEYOND AREA TO BE RESTORED.
    - BLANKET TO BE ANCHORED PER MANUFACTURER'S REQUIREMENTS.
    - ANY BLANKET OVERLAPS SHALL BE A MINIMUM OF 12".
    - WHEN BLANKET IS PLACED ON A SLOPE, THE DOWNSTREAM BLANKET SHALL BE BENEATH THE UPSTREAM.
- DISTURBANCE OF PAVEMENT/HARD SURFACES IS TO BE AVOIDED. IF THIS IS UNAVOIDABLE, CONTRACTOR TO COORDINATE WITH UTILITY, ENGINEER, AND CITY ON THE PROPER PLACEMENT OF THE UTILITY AND REQUIREMENTS FOR RESTORATION. SITE-SPECIFIC ADDITIONAL DETAILS WILL BE PROVIDED TO CITY BY UTILITY AND ENGINEER IN THESE INSTANCES.



- NOTES
- INSTALLATION TO BE COMPLETED ACCORDING WITH MANUFACTURER'S SPECIFICATIONS.
  - FIBER WATTLES SHOULD BE RE-PILED AFTER EVERY SIGNIFICANT STORM EVENT TO CLEAR AND DISPOSE OF SEDIMENT AND DEBRIS.

SPECIFICATIONS  
WATTLES SHALL BE A STRAW-FILLED TUBE OF FLEXIBLE NETTING MATERIAL. IT SHALL BE A MACHINE PRODUCED TUBE OF COMBATED ROY STRAW THAT IS CERTIFIED WELD FREE. CORNED, BY A MANUFACTURER WHOSE PRINCIPAL BUSINESS IS WATTLE MANUFACTURING. THE NETTING SHALL CONSIST OF SEAMLESS, HIGH DENSITY POLYETHYLENE, AND ETHYLENE VINYL ACETATE AND CONTAIN ULTRAVIOLET LIGHT INHIBITORS. THE WATTLE SHALL HAVE A MINIMUM MASS PER UNIT WEIGHT OF 1.6 LBS/FT<sup>2</sup>, A MINIMUM DIAMETER OF 2.0 - 2.2 INCHES, A MINIMUM NET STRAND THICKNESS OF 0.03 INCHES, A MINIMUM NET ANNET THICKNESS OF 0.03 INCHES AND A MINIMUM NETTING UNIT WEIGHT OF 0.35 OUNCES/FT<sup>2</sup>. THE SEDIMENT RETENTION CAPACITY OF THE WATTLE SHALL BE 33 LBS/FOOT. FIBRE CONTENT SHALL BE 100 PERCENT CERTIFIED ROY STRAW WITH A MINIMUM LENGTH OF 3.0.

EROSION & SEDIMENT CONTROL  
BORE PIT SPOIL PILE



- NOTES
- BORE PITS TO BE REQUIRED ON 140-25 (OR EQV.) AND LARGER HANDHOLES.
  - EROSION AND SEDIMENT CONTROL FOR BORE PITS PER STANDARD DETAIL.
  - BORE PITS TO BE DUG IN NON-PAVED AREAS ONLY. DISTANCE FROM PAVEMENT PER CITY ORDINANCE, NOT TO BE LESS THAN 5 FEET. NO CURB RAMPS MAY BE DISRUPTED.
  - IF BORE PITS IN PAVED AREAS ARE UNAVOIDABLE, CONTRACTOR TO COORDINATE WITH ENGINEER AND CITY ON LOCATION AND RESTORATION REQUIREMENTS.
  - BORE PIT TO BE EXCAVATED NO MORE THAN 48 HOURS IN ADVANCE OF BORING OPERATIONS. BORE PIT SHALL BE BACKFILLED WITHIN 48 HOURS OF COMPLETION OF BORING OPERATION AND INSULATION OF HANDHOLE.

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# SYMBOL REFERENCE LEGEND



602 High Point Lane  
East Peoria, Illinois  
(309) 670-0400 ext. 400  
fbroadband.com

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FOR SHEET  
NORTH ARROW  
AND SCALE

PROJECT ENGINEER:  
Steven Berchbald

REVISIONS

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/	/24	No. _____

PROPOSED FIBER INSTALLATION PLANS

SYMBOL REFERENCE LEGEND

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SECTOR: NWCIL2104

SHEET:

11

## CONSTRUCTION

- Duct/Conduit**
- Primary
  - Secondary
  - Third Order
  - Fourth Order
  - - - In Building
- Shelters**
- Shelters
- Cabinets**
- Cabinets
- Vaults/Handholes**
- Pedestrian Rated**
- Unknown Size (Pedestrian)
  - HH 0 (12x12 or eq.)
  - HH 1 (PE-14 or eq.)
  - HH 2 (PE-20 or eq.)
  - HH 3 (PE-30 or eq.)
  - HH 6 (2x3 or eq.)
- Tier 15 Rated**
- Unknown Size (Tier Rated)
  - HH 0 (12x12 or eq.)
  - HH 1 (PE-14 or eq.)
  - HH 2 (PE-20 or eq.)
  - HH 3 (PE-30 or eq.)
  - HH 6 (2x3 or eq.)
  - HH 12 (3x4 or eq.)
  - HH 15 (3x5 or eq.)
  - HH 16 (4x4 or eq.)
- Unknown/Other**
- Unknown Type/Size (3 Owned, See Notes)
- Building Terminations (OFDCs)**
- Building Terminations (OFDCs)
- Cable Terminations**
- Cable Terminations
- Duct Terminations**
- Buried Endcap
  - Stubbed Above Ground (Bkg. Termination)
  - Wall Box
  - Other/Unknown

- Splice Cases**
- Typo A
  - Starfighter 3000
  - 3M
  - Typo B (No Grounding)
  - Typo C
  - Coyote
  - Typo D
  - Typo D (No Grounding)
- Internal Taps**
- 2 Ports
  - 4 Ports
  - 6 Ports
  - 8 Ports
  - 12 Ports
- Splitters**
- Calix
  - Zhone
  - Unknown
- Additional Cable Slack**
- Additional Cable Slack
- Taps**
- 2 Ports
  - 4 Ports
  - 6 Ports
  - 8 Ports
  - 12 Ports
- Mainline Cables**
- 1F
  - 4F
  - 6F
  - 8F
  - 12F
  - 24F
  - 48F
  - 72F
  - 96F
  - 144F
  - 216F
  - 288F
  - 432

## INSTALLED

- Shelters**
- Shelters
- Cabinets**
- Cabinets
- Vaults/Handholes**
- Pedestrian Rated**
- Unknown Size (Pedestrian)
  - HH 0 (12x12 or eq.)
  - HH 1 (PE-14 or eq.)
  - HH 2 (PE-20 or eq.)
  - HH 3 (PE-30 or eq.)
  - HH 6 (2x3 or eq.)
- Tier 15 Rated**
- Unknown Size (Tier Rated)
  - HH 0 (12x12 or eq.)
  - HH 1 (PE-14 or eq.)
  - HH 2 (PE-20 or eq.)
  - HH 3 (PE-30 or eq.)
  - HH 6 (2x3 or eq.)
  - HH 12 (3x4 or eq.)
  - HH 15 (3x5 or eq.)
  - HH 16 (4x4 or eq.)
- Unknown/Other**
- Unknown Type/Size (3 Owned, See Notes)
- Third Party Vaults/Handholes**
- BBN (Formerly PEG) Handhole
  - Status Handhole
  - 3rd Party (All Other)
- Fiber Manholes**
- AT&T Manhole
  - Fiber Optic Manhole
- Building Terminations (OFDCs)**
- Building Terminations (OFDCs)
- Cable Terminations**
- Cable Terminations
- Duct Terminations**
- Buried Endcap
  - Stubbed Above Ground (Bkg. Termination)
  - Wall Box
  - Other/Unknown
- Duct Field Repairs**
- Duct Field Repairs

- Splice Cases**
- Typo A
  - Starfighter 3000
  - 3M
  - Typo B
  - Typo B (No Grounding)
  - Typo C
  - Coyote
  - Typo D
  - Typo D (No Grounding)
  - Gator (Field Repair)
- Internal Taps**
- 2 Ports
  - 4 Ports
  - 6 Ports
  - 8 Ports
  - 12 Ports
- Splitters**
- Calix
  - Zhone
  - Unknown
- Additional Cable Slack**
- Additional Cable Slack

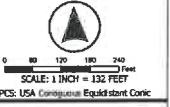
- Taps**
- 2 Ports
  - 4 Ports
  - 6 Ports
  - 8 Ports
  - 12 Ports
- Mainline Cables**
- 1F
  - 4F
  - 6F
  - 8F
  - 12F
  - 24F
  - 48F
  - 72F
  - 96F
  - 144F
  - 216F
  - 288F
  - 432

## MISC.

- Utility Easement**
- Utility Easement
- Parcels**
- Duct and Vault Installation Maps
  - Fiber Installation Maps
- Sector Boundaries**
- Cover & Index Map (Project)
  - Index Map (All)
  - Project Sector
  - Non Project Sectors
- Drop Arrows**
- Drop Arrow (Visible)
- Index Sheet Borders**
- Project Sheet Boundaries

- Duct/Conduit**
- Primary
  - Secondary
  - Third Order
  - Fourth Order
  - In Building

SUBMITTED FOR PERMITTING



PROJECT ENGINEER:  
Steven Berchtold

REVISIONS

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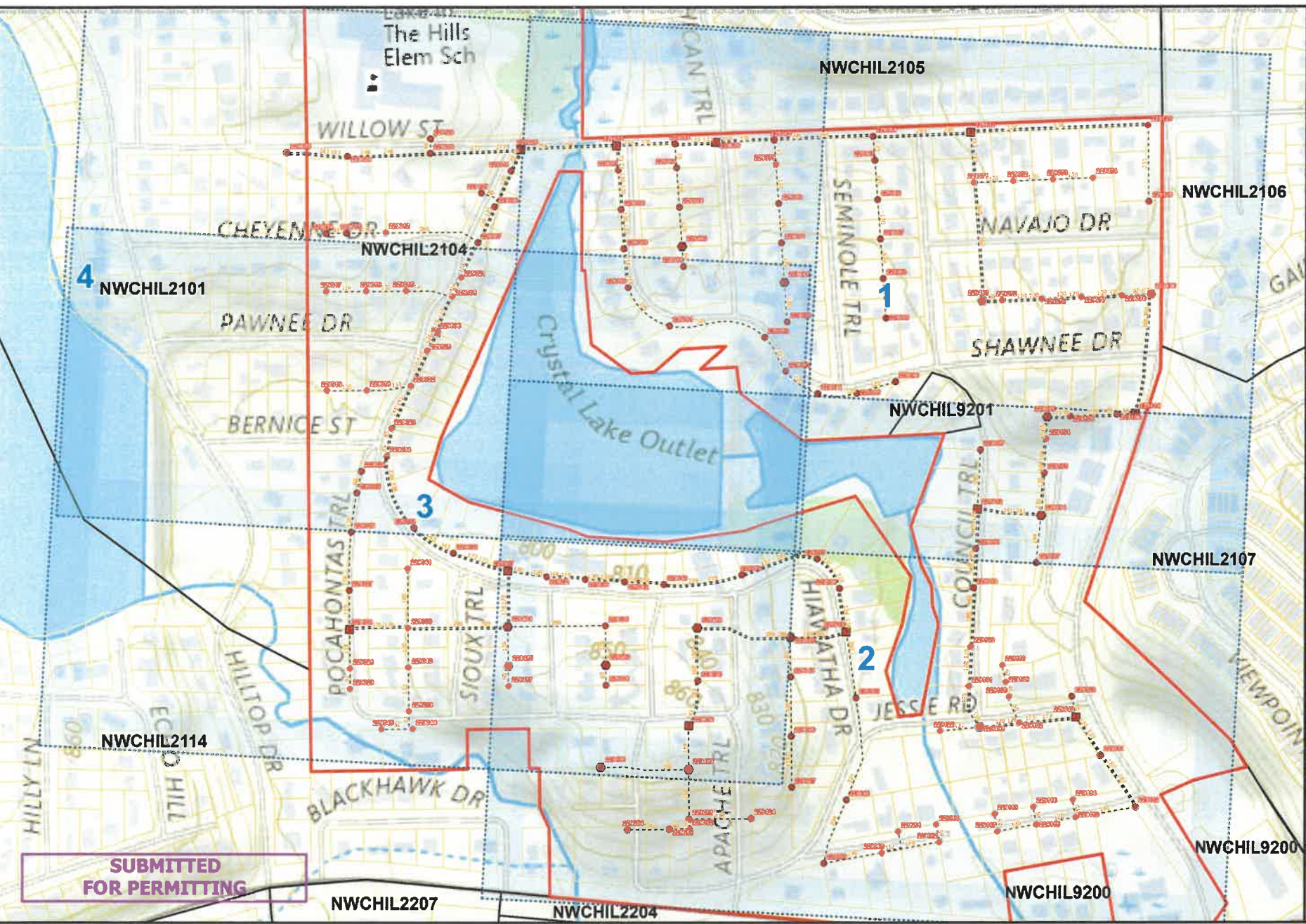
**PROPOSED FIBER INSTALLATION PLANS**

**PROJECT OVERVIEW (INDEX) MAP**

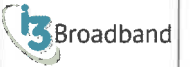
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SHEET: **PO1**



Facilities leaving project boundaries shown only for reference. Only facilities entirely inside of project boundaries to be considered part of the project scope unless otherwise specified.



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East Peoria, Illinois  
(309) 670-0400 ext. 400  
ibroadband.com



0 30 60 90 120 Feet  
SCALE: 1 INCH = 75 FEET  
PCS USA Contiguous Equal-Antennaz Conic

- SHEET NOTES:**
1. See Sheet D12 for typical road crossing and bore pit details.
  2. Method of conduit installation shall be either Directional Bore or Plastic Bore, UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIAL PERMITTING COMMITMENTS (See Sheet M1).
  3. Additional conduit locations (other than Primary) are shown offset for representation ONLY. Additional ducts shall follow the same general bore-path as the Primary Duct.

**PROJECT ENGINEER:**  
Steven Berchtold

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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
SECTOR: NWCHIL2104

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SHEET:  
**D1**



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**3 Broadband**  
 602 High Point Lane  
 East Peoria, Illinois  
 (309) 670-0400 ext. 400  
 13broadband.com



- SHEET NOTES:**
- See Sheet D12 for typical road crossing and bore pit details.
  - Method of conduit installation shall be either Directional Bore or Missile Bore, UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIAL PERMITTING COMMITMENTS (See Sheet N1).
  - Additional conduit locations (other than primary) are shown offset for representation ONLY. Additional ducts shall follow the same general bore-path as the Primary Duct.

**PROJECT ENGINEER:**  
 Steven Berchold

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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
 SECTOR: NWCCHIL2104

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SHEET:  
**D2**

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lbroadband.com



0 30 60 90 120 Feet  
SCALE: 1 INCH = 75 FEET  
PCS: USA Continuous Equidistant Conic

**SHEET NOTES:**  
1. See Sheet D12 for typical road crossing and bore pit details.  
2. Method of conduit installation shall be either Directional Bore or Missile Bore, UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIAL PERMITTING COMMITMENTS (See Sheet N1).  
3. Additional conduit locations (other than Primary) are shown offset for representation ONLY. Additional ducts shall follow the same general bore-path as the Primary Duct.

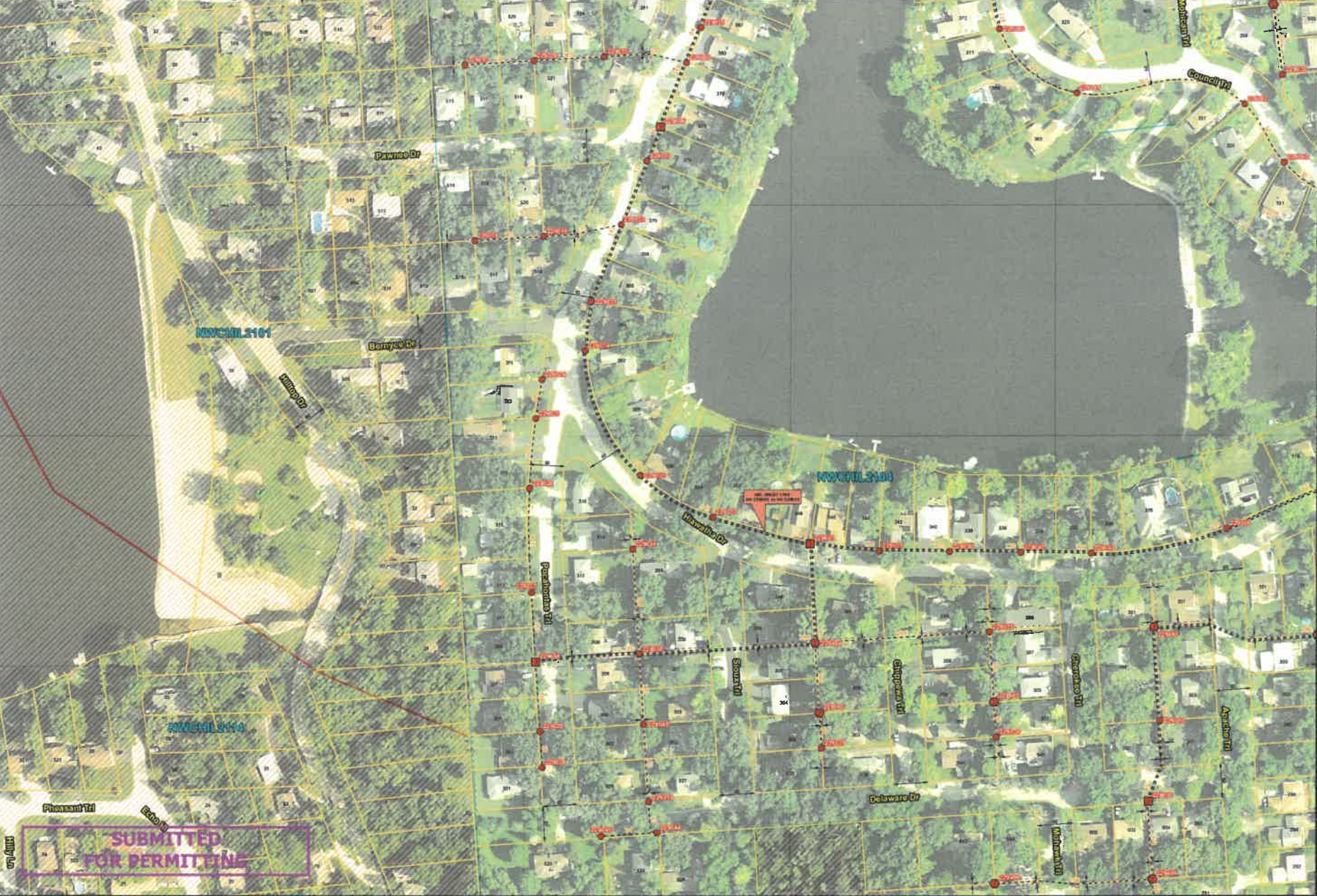
**PROJECT ENGINEER:**  
Steven Berchtold

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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
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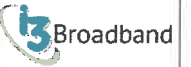
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**SHEET:**  
**D3**



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0 30 60 90 120 Feet  
SCALE: 1 INCH = 75 FEET  
PCS: USA Contiguous Equal-Angle Conic

**SHEET NOTES:**  
1. See Sheet D02 for typical road crossing and bore pit details.  
2. Method of conduit installation shall be either Directional Bore or Missile Bore, UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIAL PERMITTING COMMITMENTS (See Sheet N1).  
3. Additional conduit locations (other than Primary) are shown offset for representation ONLY. Additional ducts shall follow the same general bore-path as the Primary Duct.

**PROJECT ENGINEER:**  
Steven Berchtold

**REVISIONS**

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**PROPOSED FIBER INSTALLATION PLANS**

**FIBER INSTALLATION PLAN MAPS**

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SECTOR: NWCCHIL2104

SHEET:

**D4**

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East Peoria, Illinois  
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ibroadband.com



0 30 60 90 120 Feet  
SCALE: 1 INCH = 75 FEET  
PCS: USA Contiguous Equal-Angle Conic

- SHEET NOTES:**
1. Fiber cable and tags are shown as offset from proposed conduit for cartographic representation ONLY. Fiber shall be installed within proposed conduit.
  2. Contractor shall field verify all dimensions prior to installing fiber cable.
  3. See Sheet N1 for installed floor cable slack requirements.

**PROJECT ENGINEER:**  
Steven Berchtold

REVISIONS	
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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
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SECTOR: NWCHIL2104

SHEET:  
**F1**

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Facilities leaving project boundaries shown only for reference. Only facilities entirely inside of project boundaries to be considered part of the project scope unless otherwise specified.



602 High Point Lane  
 East Peoria, Illinois  
 (309) 670-0400 ext. 400  
 ibroadband.com



SCALE: 1 INCH = 75 FEET  
 PCL USA Contiguous Equatorial Conic

**SHEET NOTES:**  
 1. Fiber cables and taps are shown in offset from proposed conduit for cartographic representation ONLY. Fiber shall be installed within proposed conduit.  
 2. Contractor shall field verify all dimensions prior to installing fiber cable.  
 3. See Sheet #1 for installed fiber cable stock requirements.

**PROJECT ENGINEER:**  
 Steven Berchtold

REVISIONS	
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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
 SECTOR: NWCHEL2104

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SHEET:  
**F2**

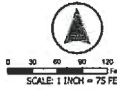


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fbroadband.com



- SHEET NOTES:**
1. Fiber cables and taps are shown as offset from proposed conduit for cartographic representation ONLY. Fiber shall be installed within proposed conduit.
  2. Contractor shall field verify all dimensions prior to installing fiber cable.
  3. See Sheet N1 for installed fiber cable block requirements.

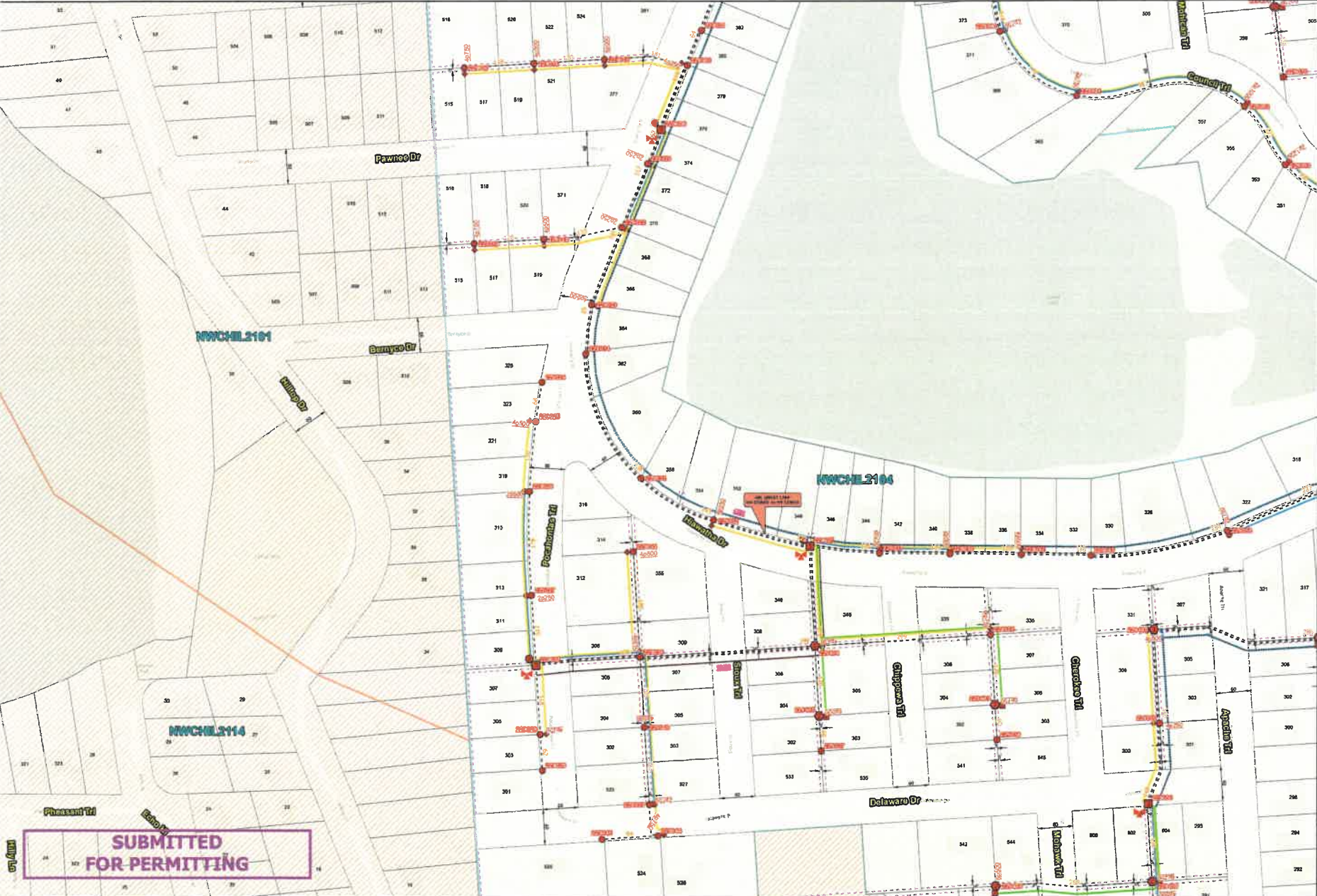
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Steven Berchtold

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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
**SECTOR: NWCHEL2104**

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**SHEET:**  
**F3**



Facilities leaving project boundaries shown only for reference. Only facilities entirely inside of project boundaries to be considered part of the project scope unless otherwise specified.

**13 Broadband**  
 602 High Point Lane  
 East Peoria, Illinois  
 (309) 670-0400 ext. 400  
 13broadband.com



- SHEET NOTES:**
1. Fiber cables and taps are shown as offset from proposed conduit for cartographic representation ONLY. Fiber shall be installed within proposed conduit.
  2. Contractor shall field verify all dimensions prior to installing fiber cable.
  3. See Sheet N1 for installed fiber cable stack requirements.

**PROJECT ENGINEER:**  
 Steven Berdtold

**REVISIONS**

/	/24	No.	_____
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**PROPOSED FIBER INSTALLATION PLANS**  
**FIBER INSTALLATION PLAN MAPS**  
 SECTOR: NWCHIL2104

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