CITY OF BLOOMINGTON UTILITIES
Engineering Department

Date: 9/4/19

Utility Relocation **Conflict Analysis** for:	City of Bloomington Utilities
Facility Type:	Water, sanitary sewer and storm sewer

This form is strictly to be used as a tool for responding to the conflict analysis request. It should NOT be construed as the official work plan to be included in the final project documents.

Section 1: General Information

A. Project Information

Name or route number:	7th St. Bike Lane Improvements
Geographical limits:	From B-Line Trail to Woodlawn Ave.
General description of work:	Added bike lane and intersection improvements
Date conflict analysis will be needed:	9/5/2019
Bid date:	Spring 2020
Name of designer and contact information	Nick Murphy American Structurepoint Email: nmurphy@structurepoint.com t 317.547.5580
Date Conflict Analysis Response Due:	9/5/2019

B. Utility Designated Contact – Information

Designated Contact Name:	Jane Fleig, PE
Office telephone:	812-349-3631
Mobile telephone:	N/A
Email address:	fleigj@bloomington.in.gov
Agency name	City of Bloomington Utilities
Address:	600 E Miller Dr
City, State, Zip Code:	Bloomington, IN 47402
Construction Emergency Contact:	
Name:	24 hr operator
Number:	812-339-1444

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C. By signing here, the Utility has determined to the best of their ability that they do not have facilities within the project area:

Signature of Utility Representative | Print Name | Date

Note: A signature by the utility representative at item "(C)" fulfills the requirement to complete the rest of this form and affirms their contact information above is correct.

INDOT/LPA Utility Coordinator Contact Information

Utility Coordinator Name:	Jeremy Ross
Office Telephone:	(317)547-5580
Mobile Telephone:	(317)493-6488
Email Address:	utilitycoordination@structurepoint.com
Agency Name:	American Structurepoint, Inc.
Address:	7260 Shadeland Station
City, State, Zip Code	Indianapolis, IN 46256

Section 2: A narrative description of the facility relocation that will be required [IAC 13-3-3(c)]:

A. Describe what types of existing active and inactive facilities are present:

Multiple sizes and types of water infrastructure and appurtenances with the majority being shown on the plan set received 8/6/19.

Multiple sizes and types of gravity sanitary sewer and appurtenances with the majority being shown on the plan set received 8/6/19.

16" C.I. Sanitary Force main infrastructure and appurtenances at the intersection of 7th & Lincoln which does not appear to be shown on the plan set received 8/6/19.

Multiple sizes and types of storm sewer infrastructure and appurtenances with the majority being shown on the plan set received 8/6/19.

B. Describe the location of existing active and inactive facilities:

Extensive water, sanitary sewer and storm sewer infrastructure and appurtenances, both active and abandoned, approximately as shown on the plan set received 8/6/19.

C. Describe in detail locations of conflicts – provide station and offset and nature of the conflict:

Please note plans we received on 8/6/19 do not scale exactly to 1"=20' so stations and offsets listed are APPROXIMATE ONLY.

Sta 16+90 Line A, 30 Rt – existing storm tunnel top very shallow and may be in conflict when sidewalk removed. Tunnel top may need modified or bike path elevated at this location.

Str 107 & 109 are shown on existing gas line. Revise location of inlets or have the gas line moved.

Str 108 – please verify existing 15" vcp pipe from existing manhole at approx. Sta 17+36, 10' Rt ties into this existing inlet you intend to replace with a manhole. Our GIS shows the 15" vcp connecting directly to the existing storm tunnel but our information may be incorrect.

Str 110 is shown connecting to existing storm pipe. Our GIS indicates the existing pipe is 12" VCP which makes it very difficult to extend with new storm pipe (typically HDPE). Please consider replacing the storm pipe to the existing manhole.

Existing Fire hydrant, Sta 20+37, 22' Lt will be too close to roadway with proposed curb modifications. Hydrant would need extended north and east.

Existing Storm manhole Sta 20+36, 5' Rt shown in proposed grassy (?) median will need to be raised by contractor.

Existing Fire hydrant, Sta 24+14, 24' Lt will be too close to roadway with proposed curb modifications. Hydrant would need extended north.

Proposed Str 114 may be on top of the existing 8" water main that extends north on Washington Street. Please verify there will not be a conflict with this main.

Proposed Str 115 is shown on existing gas line. Revise location of inlet or have the gas line moved.

There are many existing storm inlets along the south side of 7th St that will now be in the proposed bike lane, these existing grates should be checked to verify they are "bicycle friendly" and would not need to be switched out during construction.

Proposed Str 117 may be in conflict with the existing 4" water main that extends north on Lincoln St. Please verify there will not be a conflict.

Existing Str east of proposed Str 117 will need an acceptable casting to replace the curb inlet and still provide access to the junction of the two pipes.

Proposed Str 118 may be in conflict with the existing 16" sanitary force main running north and south along Lincoln St (F.M. not shown on plan). Please verify there will not be a conflict.

The existing water meter pit Sta 52+21, 19' Lt may need to be moved north.

The existing water meter pit Sta 52+74, 18' Lt will need to be moved north out of the proposed curb line.

From Fess Ave to Woodlawn Ave there are existing 12" & 15" VCP Storm mains directly under the proposed raised median. While these pipes are likely deep enough to avoid conflict, their elevations should be verified and the pipe condition televised.

In the intersection of Fess and 7th there would appear to be a storm manhole that is paved over (Sta 57+00, Rt). When this casting is raised to grade it would be in conflict with the proposed raised median. Could another curb cut be used here?

In the intersection of Park and 7th (Sta 60+24, 5' Rt) there is an existing storm manhole and casting that appears to be partially within the proposed raised median. If this manhole has an existing eccentric top, it may be possible to spin it so that it is entirely within either the pavement or the raised curb. If not, it may be necessary to provide another curb cut in this location.
There is an existing storm manhole at Sta 63+10, 7' Rt that *may* be in conflict with the proposed raised

median. Please verify there will not be a conflict.

D. Described proposed solutions to remediate conflict, including design changes to be considered:

See above.

E. If relocation is required, how long will it take to do the relocation, in calendar days:

See below.

F. By signing here, the Utility has determined to the best of their ability that they have facilities within the project area and **the majority of the facilities should not be in conflict if the above comments are taken into consideration. This is based upon the plans received on 8/6/19.**

	Jane Fleig, PE	**9/4/19**
Signature of Utility Representative	Print Name	Date

Note: *A signature by the utility representative at item "(F)" fulfills the requirement to complete the rest of this form and affirms the contact information above is correct.*

Section 3: ***Please complete this section if you believe relocation may be required.***

A. If relocation is required, what is the approximate time involved in the relocation effort?

At this point it appears CBU will have to relocate two fire hydrants and one or two water meters.

-For the fire hydrant at Sta 22+33 Lt, CBU would require the existing curb island/brick paving and tree be removed prior to relocation. CBU would require 7 days notice to schedule this relocation and 1 day to perform the work. Please note CBU would backfill the trench with #53 stone and the contractor would complete all other restoration.

-For the fire hydrant at Sta 24+14 Lt, CBU may disturb the existing sidewalk and grass in order to excavate for the new hydrant location. We would need to know if it will be CBU's responsibility to replace the sidewalk and grass if damaged or whether it could just be part of the project. CBU would require 7 days notice to schedule this relocation and 1 day to relocate the fire hydrant. If CBU must replace any sidewalk or grass disturbed, an additional 3 days will be required.

-The water meter at Sta 52+21 Lt may be okay or may need to be relocated; we may not know until the new curb line is staked. If the meter must be relocated, CBU may disturb the existing sidewalk and grass in order to excavate for the new meter pit. We would need to know if it will be CBU's responsibility to replace the sidewalk and grass if damaged or whether it could just be part of the project. CBU would require 7 days notice to schedule this relocation and 2 days to relocate the meter. If CBU must replace any sidewalk or grass disturbed, an additional 3 days will be required.

-For the water meter at Sta 52+74 Lt, CBU may disturb the existing sidewalk and grass in order to excavate for the new meter pit. We would need to know if it will be CBU's responsibility to replace the sidewalk and grass if damaged or whether it could just be part of the project. CBU would require 7 days notice to schedule this relocation and 2 days to relocate the meter. If CBU must replace any sidewalk or grass disturbed, an additional 3 days will be required.

We believe all of the other issues with CBU infrastructure will be included in the project (ie-adjusting castings to grade). Please let us know if there is anything else for which CBU will be responsible.

B. If relocation is required, what utility related issues could cause delays in keeping the project on schedule for relocation? (*For example, lead time on material, RR permits, etc.)*

Not aware of any at this time.