# BRISTOL

#### **TOWN COUNCIL WORK SESSION**

Tuesday, January 16, 2024 at 7:00 PM Council Chambers – Bristol Municipal Complex

#### **AGENDA**

This meeting will be held in the Bristol Municipal Complex is open for in-person participation.

The meeting is also livestreamed on YouTube on Town of Bristol Indiana channel.

Link to livestream is available on Town website.

- 1. CALL MEETING TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ROLL CALL
- 4. APPROVAL OF AGENDA

#### **REPORTS**

- 5. TOWN MANAGER
  - a. United Engineering presentation on pedestrian bridge
- 6. CLERK-TREASURER
- 7. TOWN ATTORNEY
- 8. QUESTIONS ABOUT UPCOMING COUNCIL MEETING AGENDA ITEMS
- 9. OTHER COMMENTS OR QUESTIONS
  - a. Marshal Albin
    - Det Priem resignation
    - Officer Mosher update
- 10. MOTION TO ADJOURN

Section 5, Item a.

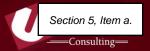
Bristol, Indiana
Tuesday January 16, 2024

## Preliminary Design Meeting

Town of Bristol Pedestrian Bridge



### **Project Team**



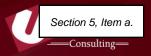
#### **Town of Bristol**

Mike Yoder, Town Manager

#### **United Consulting**

- Brian Frederick, P.E., Project Team Leader
- Marcus Gahagen, E.I., Design Engineer

### Presentation Agenda

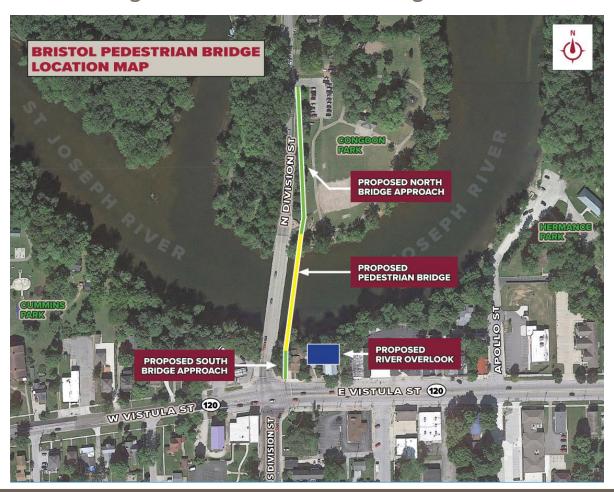


- Project Purpose and Need
- Preliminary Alignment
- Design Criteria
- Utilities Impacts
- Permits and Environmental Impacts
- Right-of-Way Impacts
- Construction Cost Estimate
- Questions / Comments

### Project Purpose and Need

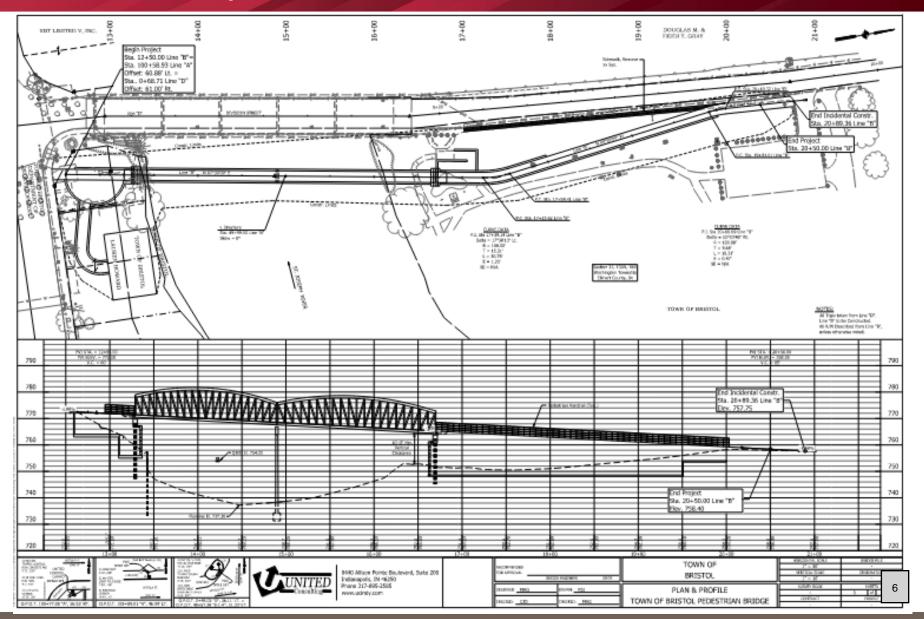


■ The purpose of this project is to provide pedestrians with a safe crossing over the St. Joseph River connecting Downtown Bristol and Congdon Park.



### Preliminary Plan and Profile



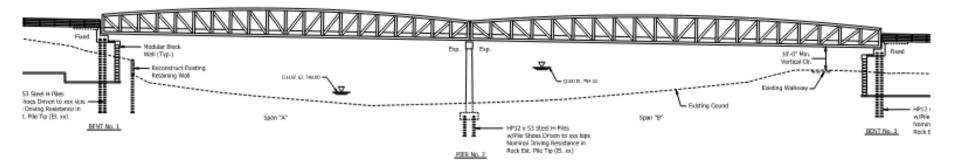


### Preliminary General Plan

P.G. El. 771.39



STRUCTURE TO BE BUILT TO A -1.80% GRADE



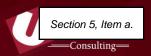
#### Scale: 1/16" = 1'-0"

345'-0" Out to Out Bridge Floor 10"-6" R.C. 10"-6" R.C. 160"-0" t Bent to t Pier 180'-0" t. Her to t. Bent. Approach = — Apgroach Slab 15+00 05+00 Line "B" N 7°39'09" E s. Pier No. 2. 9th, 16+70.00 5to, 13+29.00 "B" Sta. 14+50,00 "8"

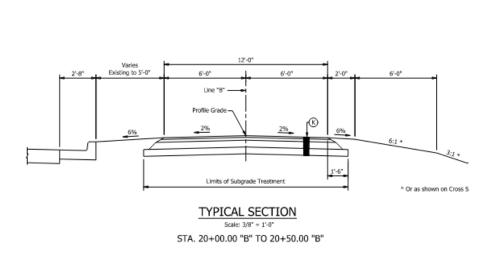
P.G. EL 758.48

P.G. El. 765.24

### Design Criteria



- Guide for Development of Bicycle Facilities, Fourth Edition and Indiana Design Manual were used to design the proposed alignments and typical sections
- Preliminary design meets current design standards and are ADA compliant.



16'-0" Max.

12'-0" Clear Roadway

6'-0"

5"

Concrete Curb (Typ.)

Profile Grade

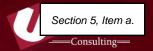
Slope 2%

Concrete Deck

**Pedestrian Path Section** 

**Bridge Section** 

### **Utilities Impacts**



- Utilities are located within the project area.
  - Town of Bristol (Water)
  - Town of Bristol (Sewer)
  - Elkhart Co. Fiber
  - Commercial Broadband Solutions
  - Frontier
  - NIPSCO Electric
  - NIPSCO Gas



- All utilities were sent Initial Notice Letters on September 20, 2023.
- Verifications of Facilities and Conflict Analysis are the next step in the design phase.

### Environmental / ROW Impacts



- Anticipated Permits
  - Section 401 WQC and Section 404
  - Indiana Department of Natural Resources Construction in Floodway Permit
- Environmental Impacts
  - Anticipated tree clearing along the bank for the entire length of the project.
- Right-of-Way Impacts
  - 1 parcel is required to construct a retaining wall around the proposed landing area at the South approach to the bridge.

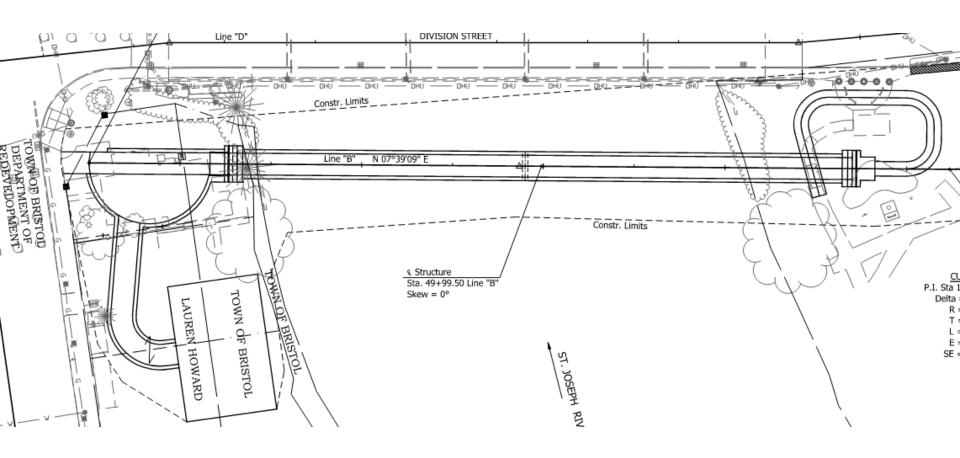
### **Construction Cost**



- **■** Preliminary Design Construction Cost Estimate (2025 Construction)
  - \$4,800,000

### North Approach Alternative





### Questions?





| PROJECT     | DESIGNATION |
|-------------|-------------|
| Sec. 17-1-1 |             |
| CONTRACT    | BRIDGE FRE  |

| STRUCTURE INFORMATION |                                     |   |                     |                   |  |  |  |  |  |  |
|-----------------------|-------------------------------------|---|---------------------|-------------------|--|--|--|--|--|--|
| STRUCTURE             | TYPE                                | SPAN AND SKEW                             | OVER                | STATION           |  |  |  |  |  |  |
|                       | PEDESTRIAN<br>STEEL TRUSS<br>BRIDGE | TWO SPANS:<br>160'-0", 180'-0"<br>SNEW 0" | ST. JOSEPH<br>RIVER | 14+99.50 Line "8" |  |  |  |  |  |  |



#### OFFICIALS OF THE TOWN OF BRISTOL

DATE: \_\_\_\_\_\_\_

MIKE YODER, TOWN MANAGER

CATHY ANTONELLI, CLERK TREASURER

JILL SWARTZ, DEPUTY CLERK & ASSISTANT TOWN MANAGER

MIKE ALSIN, TOWN MARSHAL

JEFF BEACHY, COUNCIL PRESIDENT

CATHY BURKE, COUNCIL MEMBER

ANDREW MEDFORD, COUNCIL MEMBER

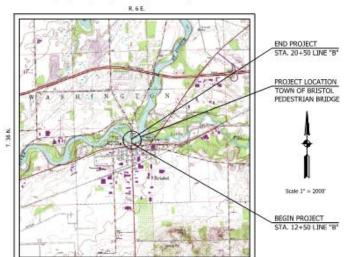
DOUG DESMITH, COUNCIL MEMBER

#### TOWN OF BRISTOL TOWN COUNCIL

#### **BRIDGE PLANS**

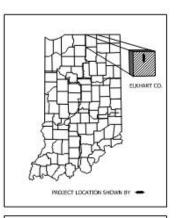
FOR SPANS OVER 20 FEET
TOWN OF BRISTOL RIVERWALK
OVER
ST. JOSEPH RIVER

Town of Bristol Pedestrian Bridge, Riverwalk over St. Joseph River. Located 0.97 Miles South of Indiana I-89/90 Toll Read in Section 27, of Township 38 North, Rainge 6 East, Washington Township, in Elithert County Indiana.



LOCATION MAP ELKHART COUNTY





LATITUDE: 41°43'19" LONGITUDE: 85°49'02"

BRIDGE LENGTH : ROADWAY LENGTH : TOTAL LENGTH ; 0.065 ML 0.087 ML 0.152 ML

[INDIANA DEPARTMENT OF TRANSPORTATION

USED WITH THESE PLANS]

14



8440 Allison Pointe Boulevard, Suite 200 Indianapolis, IN 46250 Phone 317-995-2385 THE REPORT OF THE PARTY OF THE

DESIGNATION
SURVEY BOOK SHEETS



#### UTILITIES

ELECTRIC: NIPSCO

1039 Pennsylvania Ave. South Bend, IN 46601

Attn: Jordan Bontrag Ph: (574) 304-4164

AS: NIPSCO

NIPSCO 801 E. 86th Merriville, IN 46410 Attn: Dean Garrett Ph: (219) 647-6260

WATER AND SEWER: Town of Bristol

P.O. Bax 902 Bristol, IN 46507

Attn: Dean Rentfrow Ph: (574) 304-2218 COMMUNICATIONS:

Frontier Communications 8001 Jefferson Blvd. Fort Wayne, IN 46804 Attn: Bruse Basan

Ph: (574) 259-9976 ext.5235 Surf Broadband Solutions

3325 Middlebury St. Elkhart, IN 46516 Attn: Kyle Hicks Ph: (219) 380-2051

Elkhart County Highway Dept. (Fiber)

610 Steury Ave. Goshen, 3N 46528 Attn: Ben Hudson Ph: (574) 533-0538

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| SHEET NO. | DESCRIPTION     |
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| 1         | TITLE           |
| 2         | INDEX           |
| 3         | TYPICAL SECTION |
| 4         | TRUSS DETAILS   |
| 5         | PLAN & PROFILE  |
| 6-7       | GENERAL PLAN    |
| .8        | BRIDGE SUMMARY  |
| 9-11      | CROSS SECTIONS  |
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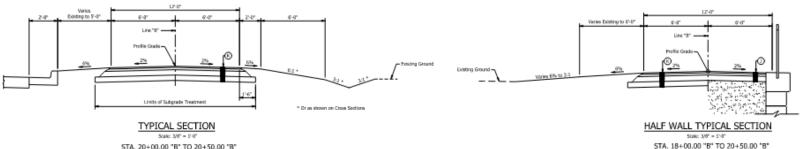
Call 811 or 800-382-5544

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8440 Allison Pointe Boulevard, Suite 200 Indianapolis, IN 46250 Phone 317-895-2585

|            |                 | TOWN OF     | HOREZONTAL SCALE | - |
|------------|-----------------|-------------|------------------|---|
| CHOMINMED  |                 | TOWN OF     | AS NOTED         |   |
| LAPPROVAL. |                 | PRICTOL     | VERTION, SOME    | É |
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|            |                 | NA US STATE | SURVEY BOOK      |   |

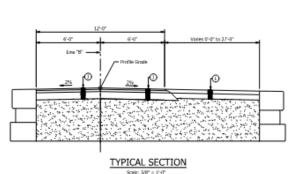




STA. 20+00.00 "B" TO 20+50.00 "B"

Cast-In-Place — Concrete Coping (Typ.) Modular Block Existing Ground -TYPICAL SECTION Scale: 3/8" = 1'-0"

STA. 16+82.50 "B" TO 18+00.00 "B"



LEGEND

- HMA for Sidewalk Consisting of:
  165 bit/sys HMA, Type 8, Surface 9.5 mm on
  275 bit/sys HMA, Type 8, Intermediate, 19.0 mm on
  6\* Compactor Appropriate, No. 51
- HMM for Sidewalk Consisting of:
  165 bylys HMA, Type B, Surface 9.5 mm on
  275 bylgs HMA. Type B, Intermediate, 19.0 mm on
  8" Compacted Agreemating, No. 33 on
  Subgrade Treatment, Type III.
- (L) HMA for Sidewalk Consisting of: PCEP, 4" on 6" Compacted Aggregate, No. 53

Scale: 3/8" = 1'-0"

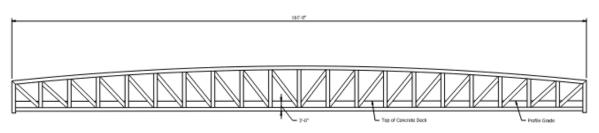
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Indianapolis, IN 46250 Phone 317-895-2585

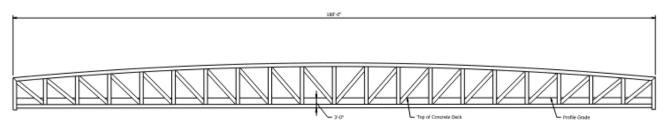
TOWN OF BRISTOL

16





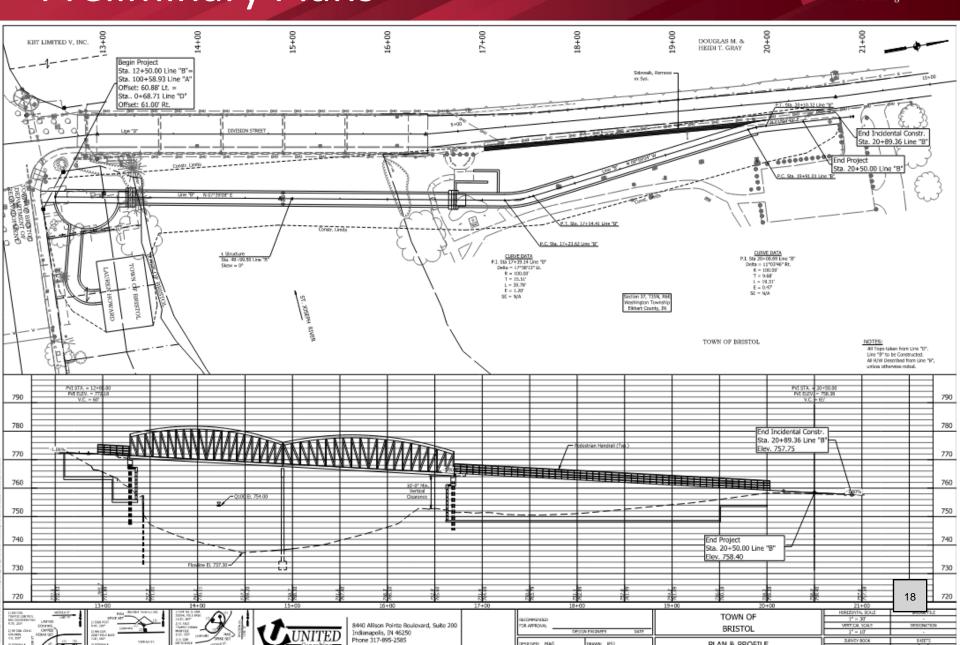
#### ARCH TRUSS ELEVATION - SPAN A



ARCH TRUSS ELEVATION - SPAN B

17







STRUCTURE TO BE BUILT TO A -1,89% GRADE - Handrall, Pedestrian (Typ.) 10'-0" Min. Vertical Cir. - Reconstruct Existing Existing Walkway HP12 x 53 Steel H-Wire WPle Shoes Driven to xxx kips - Existing Gound Nominal Driving Resistance in Rock Est. Pile Tig (El. xx) HP12 x 53 Steel H-Piles w/Pile Shoes Driven to sex kigs Span "W" Naminal Driving Resistance in Rock Est. Pile Tip (El. xx) BENT No. 1 HP12 x 53 Strel H-Ples w/Pile Shoes Driven to you kips Nominal Oriving Resistance in Rock Est. Pile Tip (El. xx) ELEVATION 345'-0" Out to Out Bridge Roor 50"-6" R.C. 101-61 R.C. 180'-0" < Pier to s. Bent 163'-0" s Bort to s Fier N 7"39'09" E 5 Bent No. 1 Sta. 13+29.00 "8" P.G. El. 771.19 4. Pier No. 2 Sta. 14+90.00 "8" P.G. El. 768-49 Sta. 16+70.00 "8" P.G. El. 765.24 ST. JOSEPH RIVER PLAN Scale: 1/16" = 1'-0"

> PEDESTRIAN STEEL TRUSS BRIDGE 2 SPANS: 161'-0", 180'-0" SKEW: 0° CLEAR ROADWAY: 12'-0" BRISTOL RIVERWALK OVER ST. JOSEPH RIVER

> > 19

BRISTOL, INDIANA

TOWN OF BRISTOL

GENERAL PLAN

8440 Allison Pointe Boulevard, Suite 200 Indianapolis, IN 46250 Phone 317-895-2585 www.ucindy.com

DESIGNED: MAG



#### GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs and 2" in all other parts unless noted. Surface seel all concrete finished surfaces (distinated Cyrls, = 13,800 st.)

#### SUPERSTRUCTURE DESIGN DATA

To be Designed for H30-44 Loading & Recestrian Loadings in accordance with AASHTO LRFO Bridge Design Specification, Seventh Edition and it's subsequent interims.

To be Designed for Actual Dead Load, 35 psf for Future Wearing Surface, and 15 psf for Stay in Place Deck Forms.

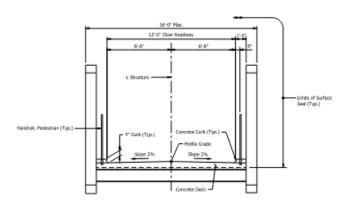
#### SUBSTRUCTURE DESIGN DATA

Designed for H18-44 Loading & Redestrian Loadings in accordance with MSHTO LRFD Bridge Design Specification, Seventh Edition and it's subsequent interims.

Designed for Actual Dead Load, 35 pcf for Future Wearing Surface, and 15 pcf for Stay in Place Deck Forms.

#### ULTIMATE DESIGN STRESSES

Class "W" Concrete fic = 1,500 p.s.f.
Class "B" Concrete fic = 3,000 p.s.f.
Class "C" Concrete fic = 4,000 p.s.f.
Reinforcing Steel (Grade 60) fly = 60,000 p.s.f.
Shuctural Steel fix



TYPICAL BRIDGE SECTION

Scalar: 3/8" = 1'-0

PEDESTRIAN STEEL TRUSS BRIDGE 2 SPANS: 161'-0", 180'-0" SKEW: 0°

CLEAR ROADWAY: 12'-0" BRISTOL RIVERWALK OVER ST. JOSEPH RIVER

BRISTOL, INDIANA



RECOMMENDED FOR APPROVIL DESIGNED: NAG

HANDED
PROVINE DESSEN ENGINEER DATE

TOTAL MAG TRAVANI RSS



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|   |        | CLASSIC       | CDNORETE<br>CLASS A | CLASS B    | CON | CRETE<br>ILING | REINF.<br>BARS | EPOXY<br>COATED<br>REINF.<br>BARS | STRUCT. | ANOIDR<br>PLATES<br>PK-AP | CONC.                              | REINF. CON  |                     |                | FEEL H        | STEELH                                 |                     | CORRED           | AGGREGATE<br>FOR            | CAST IRON<br>GRATES,<br>BASINS, &<br>FITTINGS | EXP.<br>JOONT | CONCRETE<br>BARRIER<br>RAIL TRANS.<br>TYPE "WGB" | CONC.STR<br>BOX BEAMS | MEMBERS<br>LIBEAN | BARRIER | SURFACE | MASONRY<br>COATING | MODIFIED<br>BPOXY COATED<br>THREADED BAR<br>ASSEMBLIES | R.C. BRIDGE<br>APPROACH | DENSE<br>GRADED   |
|   | 11B4   | SUPERSTR      |                     | IN<br>FIS. | CLA | NSS C          |                |                                   |         |                           | CONC.<br>STEEL<br>9-ELL<br>ENCASED | REINF, CONT<br>STEEL SHELL<br>ENCASED<br>EPORY COAT | HP12x74<br>STEEL 'H | ď              | POXY<br>DATED | STEEL H<br>REIN F.<br>COWC.<br>ENCASED | PILE TIP<br>STEEL H | HOLES IN<br>ROCK | FOR<br>END BENT<br>BACKFELL |   |               |  |                       | TYPE III          |         |         |                    |  | 10 Inch                 | SUBBASE<br>6 Inch |
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| 1 |        | -             |                     |            |     | _              |                |                                   | _       | -                         | +-                                 | -   | $\vdash$            | ++             |               | -                                      | $\overline{}$       | -                | _                           |   |               |  |                       |                   |         |         |                    |  |                         | $\overline{}$     |
| 1 |        |               |                     |            |     |                |                |                                   |         |                           |                                    |   |                     |                |               |  |                     |                  |                             |   |               |  |                       |                   |         |         |                    |  |                         |                   |
| 1 | Totals |               |                     |            |     |                |                |                                   |         |                           |                                    |   |                     | $\Box$         |               |  |                     |                  |                             |   |               |  |                       |                   |         |         |                    |  |                         |                   |
| 1 | Totals | $\overline{}$ |                     |            |     |                |                | $\overline{}$                     |         | $\perp$                   |                                    | ш_  | ш_                  | $\perp$        | _             |  | $\overline{}$       |                  |                             |   |               |  |                       |                   |         |         | $\overline{}$      |  |                         |                   |

\*\* ESTIMATED QUANTITY

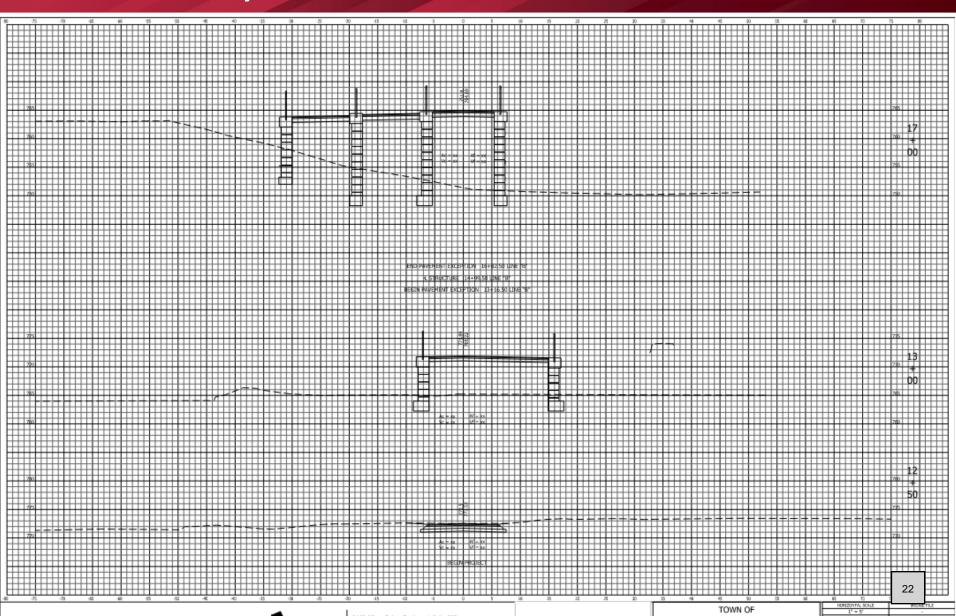
FINAL PLANS WILL INCLUDE FINAL QUANTITIES

OMMEDICID TOWN OF AS NOTED WRITED CASCON FACILITY DATE:

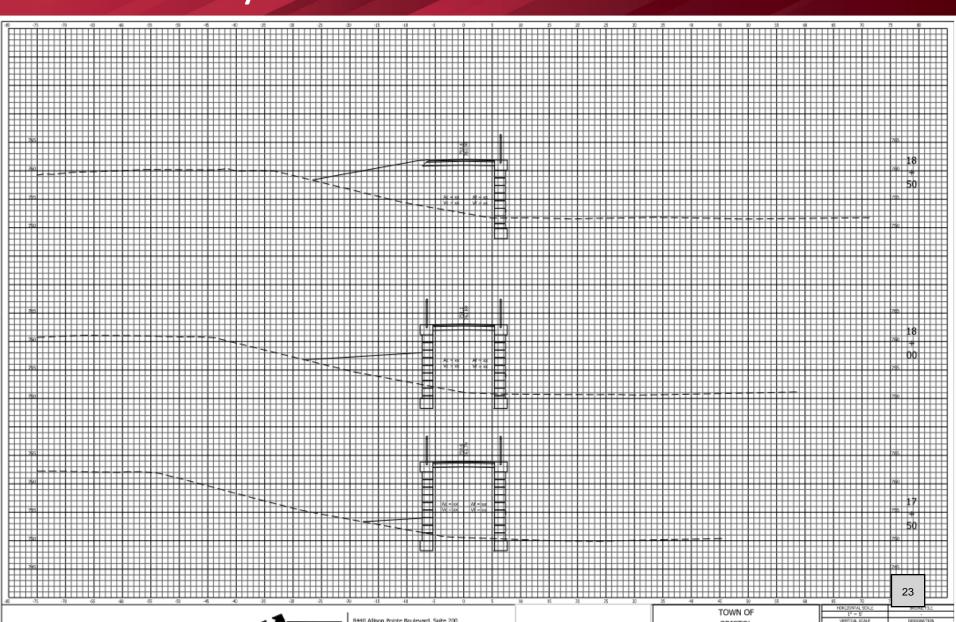
OMEDICATE CASCON FACILITY DATE:

OMEDICATE

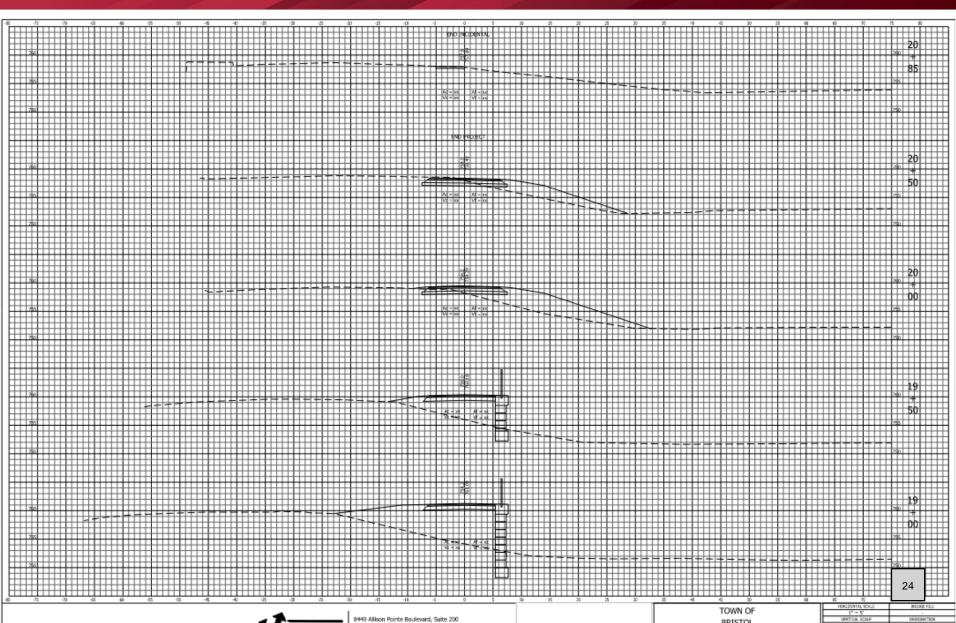












Section 5, Item a.

# Thank You!

