

**ADDENDUM #1**  
**Improvements on South Side of 3<sup>rd</sup> Street Between Highland Avenue and Jordan Avenue**  
**City of Bloomington, Indiana**

**Date of Addendum: Friday, April 15, 2016**

**Date of Bid Opening: Tuesday, April 19, 2016**

Issued on Behalf of: City of Bloomington

Prepared by: Eagle Ridge Civil Engineering Services, LLC  
1321 Laurel Oak Drive, Avon, IN 46123  
Phone: (317) 370-9672  
Email: bridgway@eagleridgecivil.com

**To all bidders on the project:**

All bidders submitting a Bid on the above project shall carefully read this Addendum and give it consideration in the preparation of their Bid.

**1. ADDITIONAL INFORMATION OR CLARIFICATIONS**

- a. On the Plans it is noted that the Property Owner of Bear's Ale House is to install a new grease separator in coordination with this work. In order to clarify the requirements for the Contractor for this, an exhibit showing the approximate layout of this unit and the manufacturer's detail for the unit is attached to this Addendum. The following work description is provided:

A 1,000 gallon model grease separator is to be installed under the sidewalk and patio area to the north of the Bear's Ale House building. Dimensions of the proposed unit are 9'x4'x5'. The attached exhibit shows the approximate layout.

The Contractor shall coordinate with the restaurant's plumbing contractor (Plumbing contractor is HFI – Dylan Christenberry 812-821-3536).

The City's Contractor is to excavate the hole to receive the proposed separator, and also a trench for the outlet pipe from the separator to the sanitary main in 3<sup>rd</sup> Street. HFI will be responsible for delivery and setting/installation of the separator unit, as well as any excavation needed from the separator unit to the building.

HFI will be responsible for the installation of all piping all the way to the sanitary main. Upon completion of pipe installation and any backfill of the pipe from the separator to the building, the City's Contractor will be responsible for the backfill of the separator and the piping from separator to the sanitary main. The City's Contractor will be responsible for completing the trench restoration in 3<sup>rd</sup> Street including roadway patching. New sidewalk or patio area is to be built above the unit. The City's Contractor will be responsible for the adjustment of castings on the unit to the new paved grades.

If, due to coordination and timing constraints, it is necessary that the open excavation for the separator or the outlet pipe be left in place during non-working hours, then the trench shall be temporarily refilled with aggregate or covered and secured with steel plates, and the hole for the separator fenced off with temporary chain link fencing, minimum 48" high.

- b. The property owner of Village Pantry is to supply the bricks for the work adjacent to or within the Village Pantry parcel. Contractor shall request the delivery of the bricks through the City's inspection representative when they are ready for the bricks.
- c. Technical Specifications were omitted from the Project Manual. These documents include the Summary of Work, Schedule of Values, Submittals, Testing and Materials Approval, Temporary Facilities, Record Documents, and Concrete Curbs, Gutters, Sidewalks and Ramps. These 22 pages are hereby included and are attached.

2. **REVISIONS**

- a. The Bid Form is hereby revised to include 10 cubic yards of allowance for Rock Excavation in the Lump Sum Base Bid. A Unit Price for Rock Excavation is also added to the Unit Price Section of the Bid Form that will be used to add or deduct from the Contract Price in the event the quantity varies from the allowance quantity. Revised Bid Form is attached.

3. The Bidder shall acknowledge receipt of this Addendum by inserting the date and number in the space provided on **Page 3** of the BID FORM.

**END OF ADDENDUM**

**BID FORM**

This BID Summary Sheet shall be completed and submitted with all other BID Documents.

The Lump Sum cost to complete the **IMPROVEMENTS ON SOUTH SIDE OF 3<sup>RD</sup> STREET BETWEEN HIGHLAND AVENUE AND JORDAN AVENUE**, including all associated work per plans and specification is to be split into two portions, one as the Lump Sum Base Bid which includes all work east of the Alternate boundary shown on the Plans and which is generally described as the center of the alley between Jordan Avenue and Highland Avenue, and the other identified as Alternate #1 which includes all work west of that boundary. At the Owner's sole discretion, the work shown as an Alternate may be accepted and would be made part of the contract.

The undersigned Bidder hereby proposes to complete the work of the Lump Sum Base Bid for the price of:

\_\_\_\_\_, \$ \_\_\_\_\_

The Lump Sum Base Bid cost is to include all work shown in the Contract Documents which is east of the noted Alternate boundary, and is also to include an Allowance for up to 20 Cubic yards of Removal and Replacement of Unsuitable Soils with Compacted Aggregate Base, if found to be required under proposed pavements. In addition, two sanitary service lateral replacements that are shown on the plans.

ALTERNATE #1 Lump Sum Bid Price

The undersigned Bidder hereby proposes to complete the work of Alternate #1 for the price of:

\_\_\_\_\_, \$ \_\_\_\_\_

The Alternate #1 Lump Sum Bid cost is to include all work shown in the Contract Documents which is west of the noted Alternate boundary, and is also to include four sanitary service lateral replacements that are shown on the plans.

The alternate proposal shall include all costs necessary for the complete installation of the materials or items indicated for the alternate, including materials, labor, equipment, operations, administration, overhead, profit, and taxes (as applicable). The alternate proposal shall also include all costs for changes in the work (including work of other Separate Contracts) that will be made necessary by acceptance of the alternate proposal.

INFORMATIONAL PRICING:

For the Owner's internal budgeting purposes only, the price which is associated with Storm and Sanitary Sewers in the Alternate #1 area needs to be identified. This breakdown is only required for the Alternate #1 area, and is to include the cost of work on sanitary services, storm manholes, storm and drain piping, and the backfills of these pipes. It is not to include paving of any type. This total is provided for information only, not for use in bid evaluation.

The price of work associated with sanitary and storm sewer systems in the Alternate #1 area is:

\_\_\_\_\_, \$ \_\_\_\_\_

**UNIT PRICE ITEMS**

If the work required is found to deviate from the amounts shown or implied in the Plans and Specifications, the following unit prices shall apply to the addition or deletion of work from the Lump Sum Contract Price:

**PROVIDE PRICES FOR ALL LISTED ITEMS**

<b><u>Item #</u></b>	<b><u>Description</u></b>	<b><u>Price per Unit</u></b>	<b><u>Unit</u></b>
<input type="checkbox"/>	Replacement of Sanitary Service Laterals, including piping from building face to sanitary main as needed, fittings, elbows, a new cleanout with casting/cover per CBU specifications, and the sawcutting and patching of the street pavement as needed including flowable backfill and concrete patching with asphalt overlay per the pavement patching detail in the Plans. (Note that the six shown on the Plans are included in the Lump Sum Base Bid)		EACH
<input type="checkbox"/>	Undercut of Unsuitable Soils, Remove and Replace with Compacted Aggregate No. 53s (Note that the first 20 CYD of this item is to be included in the Lump Sum Base Bid)		CYD
<input type="checkbox"/>	Concrete Sidewalk, 4"		SYD
<input type="checkbox"/>	Curb		LFT
<input type="checkbox"/>	Integral Curb and Walk		SYD
<input type="checkbox"/>	Concrete Ramp including Detectable Warnings		SYD
<input type="checkbox"/>	Compacted Aggregate, No. 53s		TON
<input type="checkbox"/>	PCCP for Patching, 12"		SYD
<input type="checkbox"/>	Adjust Castings to Grade – Valve or Meter Covers		EACH

<input type="checkbox"/>	Concrete Drive, 9" thick	SYD
<input type="checkbox"/>	Milling, Asphalt, up to 2" thick	SYD
<input type="checkbox"/>	HMA Surface, B	TON
<input type="checkbox"/>	Rock Excavation	CYD

- All prices shall reflect complete installation as shown and specified on the plans or stated in the specifications.

Any and all Subcontractors performing work valued over \$10,000 shall be listed below: Any subcontractor not listed below at the time of bid, must be approved by the City of Bloomington prior to performing any work on this contract. Subcontractors not listed or approved will not be paid for work under this contract. In accordance with Indiana Code 5-16-13 *et seq.*, incorporated herein by reference, any subcontractor performing work on this contract is a Tier 2 contractor.

SUBCONTRACTORS	ADDRESS	TYPE OF WORK

In submitting this Bid, Bidder represents that:

- A. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, and furnishing of the Work.
- B. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents and the following Addenda, receipt of which is hereby acknowledged.

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

~~C. Bidder attended the pre-bid conference~~

SIGNATURE OF BIDDER

Name of Bidder: \_\_\_\_\_

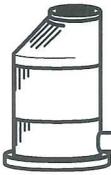
Date: \_\_\_\_\_

By:

\_\_\_\_\_  
Name & Title Printed: \_\_\_\_\_

Bidder Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

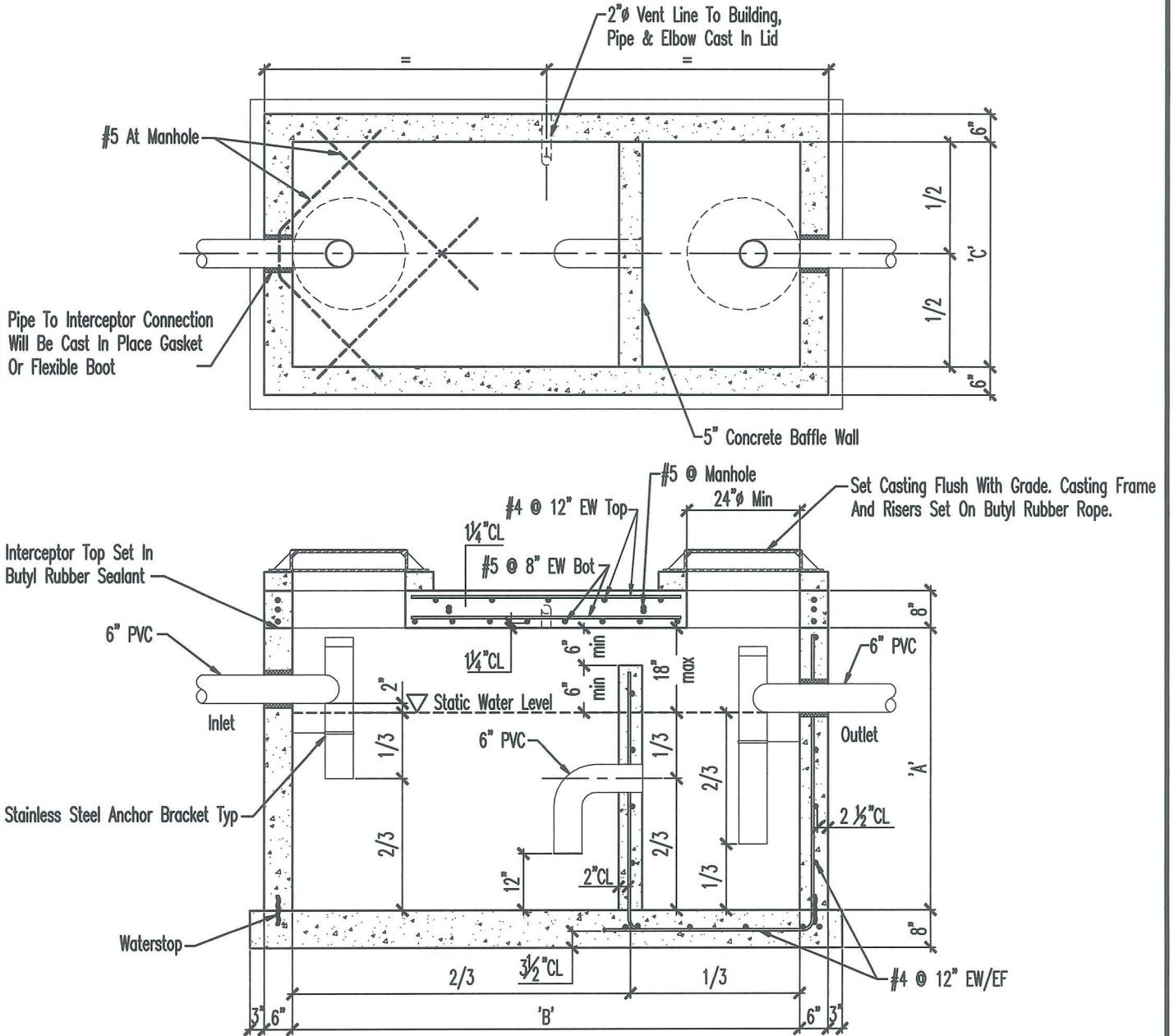


# Spencer Concrete Products, Inc.

Project:

Date:

## GREASE INTERCEPTOR



- Notes:  
 Concrete f'c 4,500psi  
 Reinforcing: ASTM A615 Grade 60  
 Concrete Admixture: IPANEX  
 Waterstops: Masco GS705

Dimension \ Size	500 Gallons	750 Gallons	1,000 Gallons	1,250 Gallons	1,500 Gallons	2,000 Gallons	2,500 Gallons	3,000 Gallons
'A'	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	6'-0"	6'-0"	7'-0"
'B'	5'-0"	7'-0"	9'-0"	11'-0"	11'-0"	12'-0"	12'-0"	12'-0"
'C'	4'-0"	4'-0"	4'-0"	4'-0"	5'-0"	5'-0"	6'-0"	6'-0"

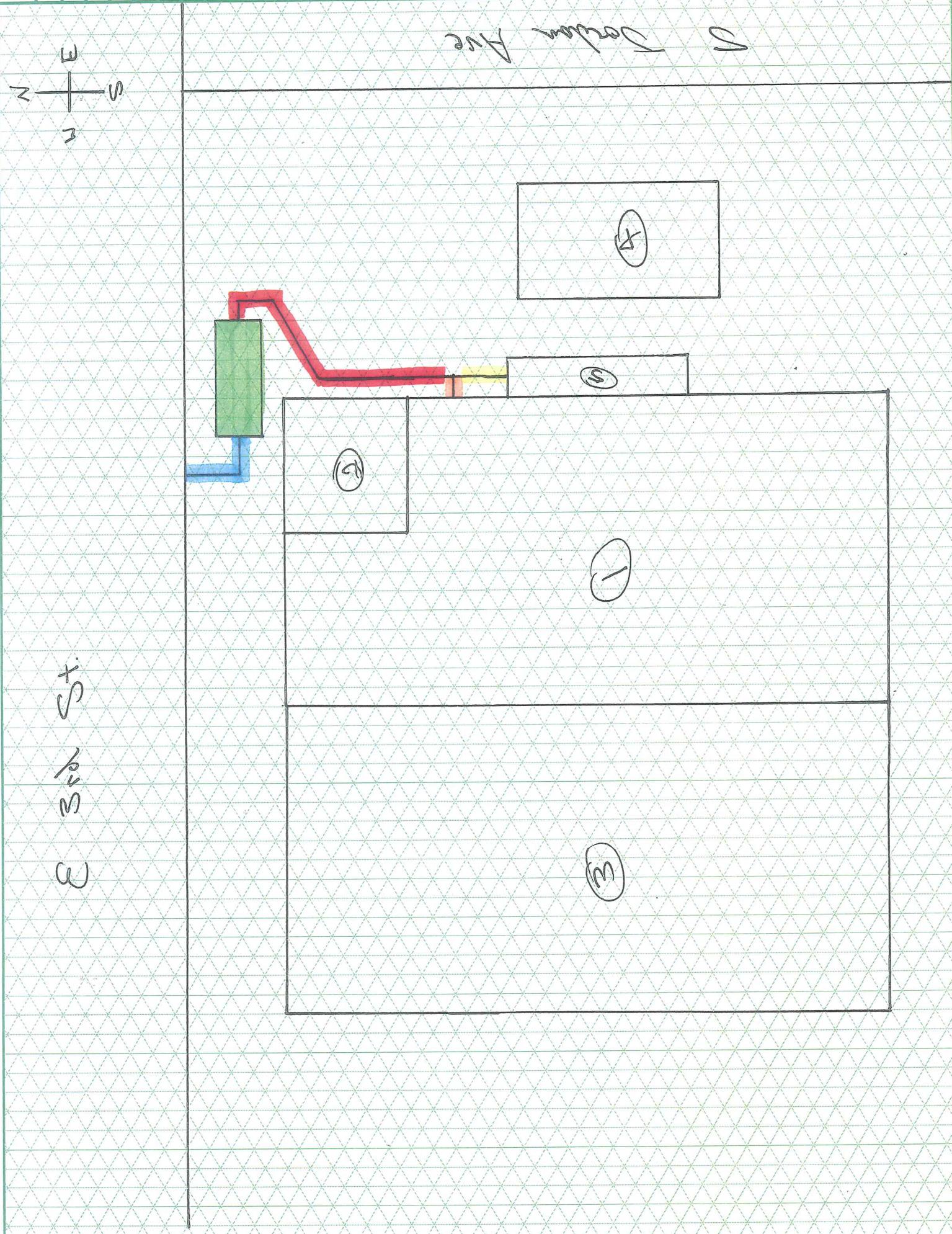
- 1 Beams Phase
- 2 Citrus Bakery
- 3 Kitchen Fridge
- 4 Cleaners & Pantry
- 5 Washup Pantry
- 6 Beams Phase behind Room

- 1,000 Gallon Extractor
- Green Water Tank for Citrus Bakery
- Beams Phase above Grease Trap
- Citrus Bakery Grease Trap

Extraction Grease line for Extractor (this is the only extraction to be done by HFI)

Project Name: Citrus Bakery  
 Isometric #: \_\_\_\_\_  
 Rev #: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Drawn By: Dujan C.

**HFI**  
**Harrell-Fish Inc.**  
 2010 Vernal Pike  
 Bloomington, IN 47402  
 Ph: 812-339-2579  
 Fx: 812-331-7235  
 HFI@Harrell-Fish.com



SECTION 01010  
SUMMARY OF WORK

PART 1 GENERAL

1.01 SUMMARY

A. Description

This project shall include, but is not limited to providing the necessary materials, labor, and equipment to furnish the following in accordance with the Contract Documents.

*This project shall include, but is not limited to the construction of new storm sewer and the replacement of sidewalks and curbs from Highland Avenue to Jordan Avenue, including approximately 450' of curbs, 300 square yards of sidewalk, 55 square yards of ramps, 130 square yards of concrete drives, and 40 square yards of brick paving over concrete. Also included are approximately 400' of new storm sewers ranging from 6" to 36" diameter, and incidental work to replace sanitary and water service lines, adjust castings, patch streets, maintain traffic with appropriate signage and a temporary detour, and other work as needed to complete the improvements shown on the plans.*

B. Measurement and Payment:

Work specified in the drawings, specifications and the contract documents, and other work which may be incidental to the denoted work, shall be included as part of contract lump sum price.

Alternate prices, where designated on the Bid Form, shall be provided.

Supplemental Unit Prices, where designated on the Bid Form, shall be provided.

1.02 DEFINITIONS

A. CBU Specifications: "City of Bloomington Utilities – Construction Specifications for Wastewater, Water, and Storm Projects". Current edition as of Bid date.

B. Standard Specifications: "Indiana Department of Transportation (INDOT) Standard Specifications," current version as of bid date, including supplements effective as of the Bid Date.

1.03 FORM OF SPECIFICATIONS

A. These Specifications are written in imperative and abbreviated form. Imperative language of Specification sections is directed at CONTRACTOR, unless specifically noted otherwise. Incomplete sentences in Specifications shall be completed by inserting "shall," "CONTRACTOR shall," "shall be," and similar mandatory phrases by inference in same manner as they are applied to notes on Drawings. Except as worded to contrary, perform indicated requirements whether stated imperatively or otherwise.

- B. Specifications or requirements of one or more sections may apply or be referenced in other sections.
- C. Provide Work described and comply with requirements stated unless specifically assigned to other Contractors, Utilities or OWNER.

1.05 USE OF INDOT AND CITY OF BLOOMINGTON STANDARDS

- A. The following work (materials and workmanship) shall be governed by the INDOT Standard Specifications:
  - 1. Common Excavation (Section 203.02)
  - 2. Rock Excavation (Section 203.03)
  - 3. Erosion Control (Section 205)
  - 4. Pavement Subbase (Section 304)
  - 5. Bituminous Paving (Section 402)
  - 6. Concrete Pavement (Section 502)
  - 7. Concrete Sidewalks (Section 604)
  - 8. Curbs (Section 605)
  - 9. Traffic Signs, Barricades (Section 801)
  - 10. Other work not specified in these Technical Specifications or in the plans
- B. The following work (materials and workmanship) shall be governed by the CBU Specifications:
  - 1. Storm Manholes and Inlets

1.06 UTILITY COORDINATION & RELOCATIONS

- A. Buried and pole-mounted utilities are present in the project area. These lines, cables, watermains or other facilities are to be protected and are not to be disturbed, with the exceptions of water services and hydrants which will be relocated by the CBU if found to be in conflict; and sanitary services, which shall be replaced by the CONTRACTOR is found to be in conflict. NO OTHER UTILITY RELOCATIONS are anticipated with this project.

1.07 CONTRACTOR'S USE OF PREMISES

- A. Contact Indiana Underground and other utility locating services as required by law in the locality of the project.
- B. Contractor shall comply with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority having jurisdiction for the safety of persons or property or to protect them from injury or loss. He shall erect and maintain, as required by existing conditions and progress of work, all reasonable safeguards for safety and protection including posting danger signs and other warnings against hazards. All requirements of the Occupational Safety and Health Act are to be followed explicitly and are the responsibility of the Contractor.
- C. Assume full responsibility for protection and safekeeping of products under this Contract.

- D. Use areas which are shown as right of way or temporary right of way on the Drawings. Obtain and pay for use of additional storage or Work areas needed for operations at no additional cost to OWNER.
- E. Confine removal operations to areas within limits indicated. Do not disturb portions of site beyond areas in which Work is indicated.
- F. Keep driveways, roads, and entrances serving the area clear and available to OWNER and public at all times, except as noted on the Plans. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on sites. CONTRACTOR may use closed portions of streets for short-term storage of materials so long as public will not be using the area during construction. Appropriate traffic control measures must be used at all times when lanes are restricted.
- G. CONTRACTOR may park vehicles inside the workzone at their own discretion and as the work allows.

1.08 CONSTRUCTION PHASING AND MAINTENANCE OF TRAFFIC AND ACCESS

- A. Provide for public access to the area during construction.
- B. Flow of vehicular traffic in the street alongside the project area must be maintained except as noted in the Plans. CONTRACTOR must complete work from within the designated work areas.

1.09 EASEMENTS, LICENSES, AND PERMITS

- A. Copies of any permit approvals obtained by the Contractor will be made available to the OWNER.
- B. Comply with provisions of easements, licenses, and permits.
- C. Perform construction within existing rights-of-way or within limits of easements and construction licenses.
- D. Obtain written authorization from affected property owners or maintaining authorities if construction is outside these areas. Comply with requirements of owners or maintaining authorities.
- E. Obtain written approval of restoration from easement and construction license grantors shown on Drawings in the form of a "Property Release" in accordance with the following:
  - 1. Notify property owners of restoration completion by certified mail (return receipt requested, with copy to OWNER) similar to following:

"The undersigned CONTRACTOR has completed restoration of construction site on which you have granted easement or license for installation of certain utilities and

improvements. If site restoration is not completed to your satisfaction, please contact City of Bloomington Engineering Department, Attn: Roy Aten, 401 N. Morton St., Suite 130, Bloomington, Indiana 47404, in writing, and arrangements will be made immediately to view site and restore site in conformance with our Contract obligations.

If City of Bloomington Engineering Department does not hear from you in writing within 5 days from above date, site restoration of your property will be deemed completed and acceptable to you.”

(Signature)

(Name of CONTRACTOR)

(Address of CONTRACTOR)

2. Complete Work necessary to satisfy terms of Contract.
3. Failure of property owner to notify OWNER within 5 days, in accordance with above example, does not relieve CONTRACTOR of any obligations under Contract.
4. OWNER will:
  - a. Examine site upon receipt of notice of deficiency.
  - b. Have right to have remaining Work done by contract or force account and deduct cost thereof from moneys due CONTRACTOR should CONTRACTOR refuse to complete restoration Work.
  - c. Waive requirement for obtaining statement if satisfied restoration completed in accordance with Contract Documents.

1.10 STAKING

- A. All staking shall be accomplished by, and at the expense of, the CONTRACTOR.
- B. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmark before proceeding to layout the work. Locate and protect existing benchmark and control points. Preserve permanent reference points during construction.
- C. ENGINEER will provide electronic files of the site plans to the CONTRACTOR in electronic format to assist them in doing layout work.

1.11 NOTIFICATION

- A. The CONTRACTOR will be responsible for contacting the following at least 48 HOURS PRIOR to beginning Work (including delivery of materials).

-

		<u>PHONE</u>	<u>FAX</u>
<u>XX</u>	<b>Mayor's Office</b>	349-3406	349-3455
_____	<b>Council Office</b>	349-3409	349-3443
<u>XX</u>	<b>Public Works</b>	349-3410	349-3443
<u>XX</u>	<b>Utilities Dept.</b>	339-1444	331-5962
<u>XX</u>	<b>City Police</b>	349-4477	349-3353
<u>XX</u>	<b>IU Police</b>	855-4111	855-1496
<u>XX</u>	<b>Monroe Sheriff</b>	349-2534	349-2828
<u>XX</u>	<b>City Fire Dept.</b>	332-9763	
_____	<b>Perry Twp. Fire</b>	334-7026	336-1166
<u>XX</u>	<b>Blgtn. Twp. Fire</b>	339-1115	339-1120
_____	<b>Van Buren Fire</b>	825-9500	825-9700
<u>XX</u>	<b>Ambulance</b>	336-9894	336-9204

_____	State Highway Dept.	332-1411	332-3368
_____	Ellettsville Sta. #8	876-4819	876-8322
_____	IU President	855-4613	855-9586
<u>XX</u>	City Transit	332-5688	332-3660
<u>XX</u>	IU Campus Bus	855-8384	855-5984
<u>XX</u>	MCCSC Busses	330-7719	330-7791
<u>XX</u>	Monroe County	349-2555	349-2837
<u>XX</u>	Herald-Times	332-4401	331-4383
<u>XX</u>	Daily Student	855-0763	855-8009
<u>XX</u>	Cable TV	332-9486	330-0107
<u>XX</u>	WTTS/WGTC	332-3366	331-4570
<u>XX</u>	WBWB	332-9292	336-7000
<u>XX</u>	WFIU	855-1357	855-5600
<u>XX</u>	Underground Locations	1-800-382-5544	

**EMERGENCY**

Duke Energy	1-812-337-3035
Vectren	1-800-666-2853
...after hours	1-800-284-4295
AT&T	1-800-480-8088
Dispatch	812-556-3220
Repair	812-556-3000

**Additional notices must be given 24 HOURS PRIOR to the day any street is closed or any utility is temporarily out of service.**

1.12 PROJECT MEETINGS

- A. If requested by Owner, CONTRACTOR will schedule and conduct a **construction progress meeting every two weeks** for the duration of the project. Owner will designate invitees.

1.13 SALES TAX EXEMPTION

Owner is exempt from sales tax on products permanently incorporated in the work. Obtain sales tax exemption certificate number from the Office of the City Controller, (812) 349-3412. Upon completion of the work, file with the Owner, a notarized statement that all purchases made under exemption certificate were entitled to be exempt. Pay legally assessed penalties for improper use of certificate number

PART 2 PRODUCTS  
(Not Used)

PART 3 EXECUTION  
(Not Used)

\*\*\* END OF SECTION \*\*\*

SECTION 01250  
SCHEDULE OF VALUES

PART 1 GENERAL

1.01 SUMMARY

- A. Submit Schedule of Values.
- B. Upon request of ENGINEER or OWNER, support values with data.

1.02 REQUIREMENTS FOR SCHEDULE OF VALUES

- A. Provide schedule on 8-1/2 in. by 11 in. paper. CONTRACTOR's standard forms will be considered for approval by ENGINEER upon CONTRACTOR's request.
- B. Identify value of component portions of Work in sufficient detail to serve as basis for computing values for progress payments.
- C. Provide separate listing of items of General Requirements such as bonds, insurance premiums, mobilization, supervision and layout, temporary construction facilities, contingency, construction schedule, O&M data, record drawings, and submittals.
- D. Use CSI format (by Division) to list component items.
- E. For each division, list subvalues of major materials, equipment or work.
- F. For Various Portions of Work:
  - 1. Each item shall include directly proportional amount of CONTRACTOR'S overhead and profit.
  - 2. For items on which progress payments will be requested for stored materials, break down value into:
    - a. Cost of materials, delivered and unloaded, with taxes paid.
    - b. Total installed value including CONTRACTOR'S overhead and profit.
- G. Sum of values listed in schedule shall equal total Contract lump sum.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

(Not Used)

\* \* \*END OF SECTION \* \* \*

SECTION 01300  
SUBMITTALS

PART 1 GENERAL

1.01 SUMMARY

Section includes requirements for submittals including schedules, shop drawings, product data, samples, construction videotaping and photographs, schedule of values, and others.

1.02 PROGRESS SCHEDULES

- A. Prepare and submit Construction Progress Schedule in accordance with General Conditions.
- B. **No Work shall be done between 7:00 p.m. and 8:00 a.m., nor on Sundays or holidays without written approval from OWNER. Emergency work may be done without prior permission. Night work will NOT be allowed.**
- C. Prepare schedules in form of horizontal bar (Gantt) chart with a separate horizontal bar for each operation, listed in order of start date.
- D. Schedule:
  - 1. Show complete sequence of work.
  - 2. Show dates for beginning and completion of each major work element. Elements shall include, as applicable, the following:
    - a. Shop Drawing submittal, review by ENGINEER, and return to supplier.
    - b. Material and equipment order, manufacturer, delivery.
    - c. Performance tests and supervisory services activity.
    - d. Sanitary sewer, storm sewer, watermain, and other utility installation.
    - e. Excavation, backfilling, paving.
    - f. Landscaping work
    - g. Subcontractor's items of Work.
    - h. Restoration.
    - i. Final cleanup.
    - j. Miscellaneous items.
- E. Revisions:
  - 1. As needed to reflect changes in progress.
  - 2. Indicate progress of each activity at date of submittal.
  - 3. Show changes occurring since previous submittal.
    - a. Changes in scope.
    - b. Activities modified since previous submittal.
    - c. Revised projections of progress and completion.
  - 4. Provide narrative report as needed to define following.
    - a. Problem areas, anticipated delays, and impact on schedule.
    - b. Corrective action recommended and its effect.

- c. Effect of changes on schedules of other contractors.

1.03 SHOP DRAWINGS AND PRODUCT DATA

- A. Submit in a timely manner, allowing reasonable review time, so not to delay work by contractor or subcontractor.
- B. CONTRACTOR'S Responsibilities:
  - 1. Review Shop Drawings and product data prior to submittal.
  - 2. Determine and verify following.
    - a. Field measurements.
    - b. Field construction criteria.
    - c. Catalog numbers and similar data.
    - d. Conformance with Specifications.
  - 3. Coordinate each submittal with requirements of Work and Contract Documents.
  - 4. Notify ENGINEER in writing of deviations from requirements of Contract Documents.
  - 5. Begin no fabrication or Work requiring submittals until return of submittals with ENGINEER approval.
  - 6. Designate in Progress Schedule, dates for submittal and receipt of reviewed shop drawings and samples.
- C. Submittals shall contain:
  - 1. Date of submittal and dates of previous submittals.
  - 2. Project name and number.
  - 3. Names of:
    - a. CONTRACTOR.
    - b. Supplier and/or Manufacturer.
  - 4. Identification of product, with identification numbers, and Drawing and Specification section numbers.
  - 5. Field dimensions, clearly identified.
  - 6. Identify details required on Drawings and in Specifications.
  - 7. Show manufacturer and model number, give dimensions, and provide clearances.
  - 8. Relation to adjacent or critical features of Work or materials.
  - 9. Applicable standards, such as ASTM or Federal Specification numbers. Identification of deviations from Contract Documents.
  - 10. Identification of revisions on resubmittals.
  - 11. **8 in. by 3 in. blank space for CONTRACTOR and ENGINEER stamps.**
  - 12. **CONTRACTOR'S stamp, signed, certifying to review of submittal, verification of products, field measurement, field construction criteria, and coordination of information within submittal with requirements of Work and Contract Documents.**
- D. Resubmittal Requirements:
  - 1. Comply with submittal requirements.
  - 2. Make corrections or changes in submittals required by ENGINEER. Resubmittals required until approved.
  - 3. Identify on transmittal form submittal is resubmission.

4. Shop Drawings and Product Data:
  - a. Revise initial drawings or data and resubmit as specified for initial submittal.
  - b. Indicate changes made other than those requested by ENGINEER.
  
- E. Distribute reproductions of Shop Drawings and copies of product data which carry ENGINEER'S stamp approval to following.
  1. Jobsite file.
  2. Record documents file.
  3. Other affected Contractors.
  4. Subcontractors.
  5. Supplier or fabricator.
  
- F. ENGINEER'S Duties:
  1. Review submittals in accordance with schedule.
  2. Affix stamp and signature, and indicate approval or requirements for resubmittal.
  3. Return submittals to CONTRACTOR for distribution or for resubmittal.

#### 1.04 TEST RESULTS AND CERTIFICATIONS

- A. Submit test results and certifications required in Specification sections for review of conformance with specified requirements and information.
  
- B. Submit test results upon completion of test or submittal of results from testing laboratory.

#### ~~1.05 OPERATIONS AND MAINTENANCE DATA (O&M Data)~~

- ~~A. Submit bridge manufacturer's guide for maintenance on the bridge.~~
- ~~B. Submit O&M Data for traffic signal and related equipment.~~

#### 1.06 PRECONSTRUCTION VIDEO AND PICTURE RECORD AND CONSTRUCTION PHOTOGRAPHS

Prior to construction work commencement, prepare a detailed video taping and photographic log of the pre-construction condition of the project site.

1. Prepare a walkthrough video taping of the project area, narrated as necessary to set location. Discuss specific defects noted.
2. Take color photographs of special features, defects or areas of special concern to supplement video taping.
3. Provide OWNER a copy of the videotapes and photographs for their records.
4. After coordination with OWNER and property owners, prepare same survey of buildings that may be impacted. Enter buildings and record condition of spaces.
5. Conduct this survey to the full limits that are to be disturbed, and include face of all buildings nearest or adjacent to this limit.
6. Invite ENGINEER to participate in this pre-construction recording/photography as an additional witness. ENGINEER is an agent of the OWNER.

#### 1.07 GUARANTEE, WARRANTIES, MAINTENANCE AGREEMENTS AND BONDS

- A. Refer to General and Special Conditions for requirements.

#### 1.08 ENGINEER'S ACTION

##### A. ENGINEER'S Action:

###### 1. General:

- a. ENGINEER will review each submittal, mark with action, and return. Where submittal must be held for coordination, ENGINEER will so advise CONTRACTOR.
- b. ENGINEER will stamp each submittal with action stamp, marked with submittal action.

###### 2. Notification of Insufficient Information:

- a. If information submitted is not sufficient to complete review, ENGINEER will notify CONTRACTOR that additional information is required.
- b. Submittal will not be returned. Submittal will be placed in an "on hold" status until CONTRACTOR provides additional information.

##### B. Action Stamp:

- 1. Approved: Where submittals are marked as "Approved," Work covered by submittal may proceed provided it complies with Contract Documents. Acceptance of Work depends on that compliance.
- 2. Approved As Noted: When submittals are marked as "Approved As Noted," Work covered by submittal may proceed provided it complies with ENGINEER'S notations and with Contract Documents. Acceptance of Work depends on compliance. Resubmittal not required.
- 3. Not Approved: When submittals are marked as "Not Approved," do not proceed with Work covered by submittal. Work covered by submittal does not comply with Contract Documents. Prepare new submittal complying with Contract Documents.
- 4. Revise and Resubmit: When submittals are marked as "Revise and Resubmit," do not proceed with Work covered by submittal. Do not permit Work covered by submittals to be used at Project site or elsewhere where Work is in progress. Revise submittal or prepare new submittal in accordance with ENGINEER'S notations. Resubmit without delay. Repeat if required to obtain different action marking.

#### PART 2 PRODUCTS (Not Used)

#### PART 3 EXECUTION

##### 3.01 SUBMITTAL REQUIREMENTS

- A. Provide complete copies of required submittals as follows.

###### 1. Construction Progress Schedule:

- a. 2 copies of schedule and each revision.
2. Shop Drawings and Product Data: 3 copies.
3. Test Results: 2 copies.
4. Construction Video and Photos: 1 copy
5. Other Submittals: 3 copies

\* \* \* END OF SECTION \* \* \*

SECTION 01400  
TESTING LABORATORY SERVICES AND MATERIAL APPROVAL

PART 1 GENERAL

1.01 PERFORMANCE REQUIREMENTS

- A. Employ and pay for services of independent testing laboratory approved by OWNER to perform testing as described in Specifications. Employment of laboratory shall, in no way, relieve CONTRACTOR's obligations to perform Work of Contract.
- B. Related Requirements in Other Parts of Contract Documents: Conduct inspections and testing required by laws, ordinances, rules, regulations, orders or approvals of public authorities, Conditions of Contract.
- C. Testing Requirements and Frequency of Tests:
  - 1. The testing and material approval requirements for the work included in the Contract are as follows:
    - a. **Concrete for Pavements, Curbs, Sidewalks and Drives:**
      - 1) Mix Design, Admixtures, Aggregates and Cement – from INDOT pre-approved list and/or certified aggregate producers
      - 2) Liquid Membrane Curing Materials – Type C Certification or INDOT pre-approved list.
      - 3) Per day of concrete pouring, one each air test and slump test.
    - b. **Compacted Aggregate Base**
      - 1) Gradation – Material from an INDOT Certified Aggregate Producer, or provide certified material gradation test demonstrating compliance with INDOT material requirements, meeting allowable gradations noted in Section 02300.
      - 2) Density – One density test on each lift of compacted aggregate used as base, at the following frequencies:
        - Drives – 1 per drive
        - Sidewalk – 1 per 300' of sidewalk, minimum 1 per segment
    - c. **~~Topsoil and Sodding~~**
      - 1) ~~For every source of topsoil to be used on site, including in situ materials, provide certified laboratory test of topsoil in accordance with Section 02900 that identifies soil amendment needed to meet specifications.~~
      - 2) ~~Sodding shall come with a tag or written certification showing compliance with INDOT Standard Specifications for Nursery Sod.~~
    - d. **Asphalt Pavement Materials**
      - 1) Source must be a certified producer of HMA materials per INDOT requirements.

e. **Other Materials**

- 1) Where this Section is silent, approval of other materials will be in accordance with other Sections of these Technical Specifications or with the applicable City or INDOT Standard Specifications.

1.02 QUALIFICATION OF LABORATORY

- A. Meet basic requirements of ASTM E329.
- B. Licensed to operate in Indiana.
- C. Testing Equipment shall be calibrated at reasonable intervals by devices of accuracy traceable to either National Bureau of Standards or other Accepted values.

1.03 LABORATORY DUTIES

- A. Cooperate with OWNER and CONTRACTOR; provide qualified personnel to perform Work after due Notice to Proceed.
- B. Perform specified inspections, secure samples, and test materials.
  1. Comply with specified standards.
  2. Ascertain compliance of materials with Contract Documents.
- C. Promptly notify OWNER and CONTRACTOR of observed irregularities or deficiencies of Work, equipment or material.
- D. Promptly submit written report of each test and inspection; one copy each to ENGINEER, OWNER, material supplier, and CONTRACTOR, and one copy to record document file. Each report shall include
  1. Date issued
  2. Project title and number.
  3. Testing laboratory name, address, and telephone number.
  4. Name and signature of laboratory inspector.
  5. Date and time of sampling or inspection.
  6. Date of test.
  7. Identification of product and Specification section.
  8. Location of sample or test in Project.
  9. Results of tests and compliance with Contract Documents.
  10. Interpretation of test results, when requested by ENGINEER.
- E. Perform additional tests as required by OWNER or CONTRACTOR.

1.04 LIMITATIONS OF AUTHORITY OF TESTING LABORATORY

- A. Laboratory is not authorized to:
  1. Release, alter or enlarge on requirements of Contract Documents.

2. Approve any portion of Work.
3. Perform duties of CONTRACTOR.

1.05 CONTRACTOR'S RESPONSIBILITIES

- A. Cooperate with laboratory personnel and provide access to Work.
- B. Provide to laboratory preliminary design mix proposed to be used for concrete and other material mixes which require control by testing laboratory.
- C. Furnish copies of product test reports.
- D. Furnish incidental labor and facilities.
  1. Provide access to Work to be tested.
  2. Obtain and handle samples at Project site or at source of product to be tested.
  3. Facilitate inspections and tests.
  4. Store and cure test samples.
- E. Notify laboratory and OWNER sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.
- F. Make arrangements with laboratory and pay for additional samples and tests required for CONTRACTOR'S convenience.
- G. Employ and pay for services of testing laboratory to perform additional inspection, and testing required when initial tests indicate Work does not comply with Contract Documents.

\* \* \* END OF SECTION \* \* \*

SECTION 01500  
TEMPORARY CONSTRUCTION FACILITIES AND UTILITIES

PART 1 GENERAL

1.01 QUALITY ASSURANCE

- A. Items provided under this section shall be listed or labeled by UL or other Nationally Recognized Testing Laboratory (NRTL). Term "NRTL" shall be as defined in OSHA Regulation 1910.7. Terms "listed" and "labeled" shall be as defined in National Electrical Code, Article 100.
- B. Regulatory Requirements: National Electrical Code (NEC): Components and installation shall comply with National Fire Protection Association (NFPA) 70.
- C. Comply with federal, state, and local codes and regulations, and with utility company requirements.

PART 2 PRODUCTS

2.01 TEMPORARY TELEPHONE SERVICE

Ensure a cell phone is available so the OWNER and ENGINEER may contact CONTRACTOR at any time.

2.02 WATER FOR CONSTRUCTION

- A. CONTRACTOR shall make arrangements for water during construction. Water is not available from hydrants unless the Contractor makes its own arrangements with the Water Utility.
- B. Use only special hydrant operating wrenches to open hydrants. Make certain hydrant valve is open full. If hydrants are damaged, CONTRACTOR shall be responsible and shall notify appropriate agency so damage can be repaired as quickly as possible. Fire hydrants shall be completely accessible to Fire Department at all times.

2.03 WATER FOR TESTING

CONTRACTOR shall provide water necessary for testing prior to acceptance of Work, unless specifically stated otherwise in Specifications.

2.04 SANITARY FACILITIES

- A. No sanitary facilities are available on site. **Do not use adjacent businesses' facilities.**
- B. Provide temporary sanitary toilet facilities conforming to state and local health and sanitation regulations, in sufficient number for use of OWNER'S, CONTRACTOR'S and Subcontractor's employees.

C. Maintain in sanitary condition.

2.05 TEMPORARY FIRE PROTECTION

Provide and maintain in working order, minimum of one fire extinguisher on each vehicle or piece of major equipment, and such other fire protective equipment and devices as would be reasonably effective in extinguishing fires by personnel at Project site.

2.06 TEMPORARY SITE AND OTHER ROADS

Maintain public roads used during construction free from accumulations of dirt, mud and construction debris resulting from construction operations. Roads shall be considered "maintained" when material has been scraped with a backhoe or similar equipment and removed by a sweeper.

2.07 SECURITY

A. Security will not be provided by OWNER.

B. CONTRACTOR shall be responsible for loss or injury to persons or property where Work is involved, and shall provide security and take precautionary measures to protect CONTRACTOR'S and OWNER'S interests.

2.09 TEMPORARY PARKING

A. There shall be no parking on Project site except within areas that are otherwise unavailable to the public and designated by barricades, drums or workzone fencing. **CONTRACTOR WILL NOT PARK IN DRIVEWAYS, ALLEYS, OR IN SPACES THAT ARE OTHERWISE DESIGNATED FOR LOCAL PUBLIC USE, UNLESS PART OF THE DESIGNATED WORKZONE AND AUTHORIZED BY OWNER.**

2.10 TEMPORARY FENCING

A. If shown, provide and maintain temporary fencing sufficient to discourage trespass by CONTRACTOR onto private property and by public onto construction site.

B. Fencing shall be 4' plastic construction fencing mounted on temporary posts.

2.11 PROJECT IDENTIFICATION

Locate any OWNER-provided signs where designated by OWNER.

PART 3 EXECUTION

3.01 GENERAL

Maintain and operate systems to ensure continuous service.

3.02 REMOVAL AND RESTORATION

- A. Completely remove temporary materials, equipment, signs, and structures when no longer required.
- B. In unfinished areas, clean and repair damage caused by temporary installations or use of temporary facilities, restore drainage, and evenly grade, seed or plant as necessary to provide appearance equal to or better than original.
- C. In finished areas, restore existing or permanent facilities used for temporary services to specified, or original condition.

3.03 DAMAGE TO EXISTING PROPERTY

- A. CONTRACTOR is responsible for replacing or repairing damage to existing buildings, structures, sidewalks, roads, pavements, and other existing assets. The Contractor is reminded of the requirement for the collection of a pre-construction video or pictures which may be used to verify that damage existed prior to the Contractor's work on site. Documentation of existing damage is strongly encouraged, to include notification of the Owner or Engineer to ensure the damage is viewed prior to disturbance in the area.

\*\*\* END OF SECTION \*\*\*

SECTION 01700  
PROJECT CLOSEOUT AND RECORD DOCUMENTS

PART 1 GENERAL

1.01 SUMMARY

A. Maintain at site one record copy of:

1. Drawings.
2. Project Manual.
3. Addenda.
4. Change orders and other modifications to Contract.
5. ENGINEER or OWNER field orders, written instructions, or clarifications.
6. Approved submittals.
7. Field test records.
8. Construction photographs.
9. Associated permits.

1.02 SUBMITTALS

- A. At Substantial Completion, CONTRACTOR shall provided one marked up set of record documents to the OWNER.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 MAINTENANCE OF DOCUMENTS AND SAMPLES

- A. Store record documents and samples in CONTRACTOR'S office apart from documents used for construction.
1. Provide files and racks for storage of documents.
  2. Provide secure storage space for storage of samples.
- B. Maintain documents in clean, dry, legible condition and in good order. Do not use record documents for construction purposes.
- C. Make documents and samples available for inspection by ENGINEER or OWNER.
- D. Failure to properly maintain record documents may be reason to delay a portion of progress payments until records comply with Contract Documents.

3.02 RECORD DOCUMENTS

- A. Label each document "PROJECT RECORD" in neat, large printed letters.
- B. Annotate a record set of Drawings and Specifications to show all changes made during construction. Graphically depict changes by modifying or adding to each plan sheet(s) affected by changes.
- C. Record information concurrently with construction progress.
  - 1. Do not conceal Work until required information is recorded.
  - 2. Record changes made by Written Amendment, Field Order, or Change Order.
- D. Drawings and Specifications:
  - 1. Drawings:
    - a. Mark Drawings with horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
    - b. Location of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of structure.
    - c. Field changes.
    - d. Details not on original Drawings.
    - e. Size of equipment and location including connections.
  - 2. Specifications:
    - a. Mark Specification sections to show substantial variations in actual Work performed. Give particular attention to substitutions, selection among options and similar information for work that is concealed or cannot otherwise be readily discerned later by direct observation.
    - b. Note related record drawing information and Product Data.

\* \* \* END OF SECTION \* \* \*

SECTION 02700  
CONCRETE CURBS, GUTTERS, SIDEWALKS AND RAMPS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section describes requirements for cast-in-place concrete curbs, curb and gutter, curb turnouts, sidewalks, curb ramps and related miscellaneous concrete. **Section also lists the requirements for Detectable Warning Plates that are to be installed in curb ramps.**

1.02 DEFINITIONS

INDOT Specs: Indiana Department of Transportation Standard Specifications, current edition.

1.03 QUALITY ASSURANCE

- A. Concrete testing shall be as specified in Section 01400.

PART 2 - PRODUCTS

2.01 FORMS

- A. Forms shall conform to the requirements of Sections 604.03(b) and 605.04(b) of the Standards Specifications.

2.02 REINFORCEMENT

- A. For curbs: Not applicable.
- B. For sidewalks and ramps: Reinforcing shall be polypropylene fibers from Fiber Mesh, Inc., or equal Section 910.01 of the INDOT Specs.
- C. Welded wire fabric shall not be used.

2.03 CONCRETE

- A. Concrete: Portland Cement Concrete shall be Class "A" concrete, conforming to Section 702 of the INDOT Specs and the requirements of this section. Provide concrete with the compressive strength of at least 4000 psi (tested in accordance with ASTM C 39 for 28 day compressive strength) unless noted otherwise.
- B. Curbs and gutters shall be in accordance with the cross-section shown on the plans.
- C. Unless otherwise shown on the Drawings, sidewalks and curb ramps shall be a minimum of 4 inches thick, except at driveway crossings, where sidewalks shall be a minimum of 6 inches thick.

2.04 BASE MATERIAL

- A. Base Material: Base material shall conform to Section 904.02 of the INDOT Specs for #53 Crushed Stone.

## 2.05 OTHER MATERIALS

- A. Curing Compounds:

- 1. Curing materials and methods shall meet the requirements of Section 912 of the INDOT Specs.

- B. Preformed Expansion Joint Material:

- 1. Shall meet the requirements of ASTM D 1751.
- 2. Shall be 1/2" thick and premolded.
- 3. Shall be in accordance with the cross-section of the curb and gutter, or sidewalks on the plans.

- C. Joint Sealant:

Self-leveling polyurethane sealant: Sonneborn's "Sonelastic SLI" ASTM C-920, Type S, Grade P, Class 25, Limestone color, or equal.

- D. Detectable Warning Plates shall be cast iron.**

## PART 3 - EXECUTION

### 3.01 SURFACE CONDITIONS

- A. Existing curb or sidewalk which is to remain in place is to be sawcut at a joint nearest the construction limits prior to any adjacent removals.
- B. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

### 3.02 BASE COURSE

- A. Prepare in accordance with Standard Specifications.

### 3.03. MIXING CONCRETE

- A. Preparation and mixing of concrete shall be in accordance with Sections 702 for Class A concrete of the INDOT Specs.

### 3.04 PLACING CONCRETE

- A. Placing of concrete shall be in accordance with Sections 604.03 and 605.04 of the Standard Specifications.

### 3.05 CONSOLIDATION

- A. Consolidation and vibration of concrete shall be in accordance with Section 702.20 (b) of the Standard Specifications.
- 3.06 CONCRETE FINISHING
- A. Finishing of concrete curbs (or curbs and gutters) shall be in accordance with Section 702.21 of the Standard Specifications.
  - B. Install Detectable Warning Plates in the concrete prior to finishing per manufacturer's specifications.
- 3.07 PROTECTION FROM FREEZING
- A. Concrete placed when the atmospheric temperature is 35°F, or is expected to drop below 35°F during the curing period, shall conform to the provisions of Section 702.11 of the INDOT Specs.
- 3.08 REMEDIAL WORK
- A. Repair or replace deficient work as directed by the ENGINEER and at no additional cost to the OWNER.

\* \* \* END OF SECTION \* \* \*