ADDENDUM ONE

Purdue University, Fort Wayne, Indiana
Helmke Library Basement Drainage Renovation – 2025

MARTINRILEY architects/engineers
221 West Baker Street
Fort Wayne, Indiana 46802
260-422-7994

Commission No.: F24054

Addendum Date: March 12, 2025

Conditions: The following clarifications, amendments, additions, deletions, revisions, and modifications are a part of the contract documents and change the original documents only in the manner and to the extent stated.

ADDENDUM ONE shall be electronically issued to all plan holders.

CLARIFICATIONS:

1. A link to **existing original building plans** has been emailed to all plan holders as part of this addendum. Please notify MartinRiley if you did not receive the link.

2. Bore materials may be stored on site. A staging area will be determined upon the award of contract.

3. The proposed drains entering the tunnel below the basement are to be sealed at the floor/wall, include a shut-off valve, and discharge piping to the existing trench drain. Additional details have been provided on sheet C800.

4. A temporary ductwork connection through the tunnel is required having an approximate cross section equal to 50% of the existing condition. The return air segment through the tunnel services the 1st and 2nd floors of the library and the conditioned space needs to be maintained.

5. Contractor is responsible for providing, install, and maintain temporary chain-link fencing around any bore pits.

6. Scope for Alternate 2 further identified on sheet C800.

CHANGES TO PROJECT MANUAL:

Instructions to Bidders, IB1.03 Interpretation of Documents: REVISE: "at least 10 days prior to the date for opening Bids" to **"noon on March 17, 2025, …".**

Bid Form Insert E-1, Alternate 1: ADD "Contractor to furnish Ground Penetrating Radar (GPR) prior to bore pit excavation and directional drilling within 50' (measured horizontally) of the back of the bore pit

CHANGES TO DRAWINGS:

REPLACE Sheet C200 Site Layout Plan with new C200
Revisions include:
Added General Construction Note 10 "Contractor to furnish Ground Penetrating Radar (GPR) prior to bore pit excavation and directional drilling in the bore pit excavation area

and along the first 50' (measured horizontally) of boring tuns from the of the start of bore pit."

Depicted elevator shafts, columns and related footings.

Labeled 8" sanitary trunk line that is depicted on profiles "T-1" and "T-3".

REPLACE Sheet C201 Site Layout Plan with new C201
Revisions include:
Depicted column and column footings.

REPLACE Sheet C800 Site Layout Plan with new Sheet C800
Revisions include:
Added detail 7.
Added General Notes for Alternate 2 scope of work.
Multiple other label and graphical revisions for clarification.

Sheet C801 Site Details
REPLACE NOTE on 2/C801 to read as follows:
"Contractor to temporarily support duct throughout project.

- Remove rivets/screws, clean sealant from Joints.
- Remove and save existing duct for reinstallation.
- Provide temporary ductwork connection to maintain a minimum return air flow throughout construction approximately equal to 50% of the installed duct.
- After completion of bore/pipe work, remove and legally dispose of temporary ductwork, reassemble original duct work, apply sealant, reinstall rivets/screws & remove temporary supports."

CHANGES TO SPECIFICATIONS:

Section 01 0100 Project Requirements
REVISE "Part 1: General, 1.03B – Work on the project shall begin **May 12, 2025** and must be completed no later than **August 1, 2025**"

Attachments:
PREBID ATTENDEE LIST
PREBID MEETING MINUTES
Page 01 0100-1 Section 01 0100 PROJECT REQUIREMENTS

C200 Site Layout Plan
C201 Site Layout Plan
C800 Site Details

IDEM 713.01 Dewatering - Filter Bag

END OF ADDENDUM NUMBER ONE

713 – Dewatering

713.01 Filter Bags (Pump Discharge Filter Bags)

Definition:

A **pump discharge filter bag** is geotextile bag through which sediment-laden water is pumped to minimize the discharge of sediment from dewatering of wet excavations or other ponded areas on construction sites.

Exhibit 713.01-A. Filter bags installed on a level aggregate pad with a stabilized discharge or outflow path to the receiving stream.
Source: IDEM

Purpose:

To minimize the discharge of sediment from pump induced dewatering activities by filtering sediment-laden pump discharges from wet excavations or ponded areas encountered in construction activities. Filter bags may be used in combination with flocculants refer to Flocculants – Polymers (714.05) and manufacture's requirements.

Note: This measure is not intended to treat or remove contaminates other than sediment. Dewatering of contaminated ground water will require additional control measures/treatments that will require appropriate permitting to discharge.

Specifications:

Implementation Criteria:
When implementing pump filter bags locate bags where the discharge outflows will not impact construction activities, cause erosion, have increased sediment load, and/or overwhelm site sediment control (refer to Water Pumping (713.02) practice for additional practice information regarding water pumping activities).

713.01 Filter Bags (Pump Discharge Filter Bags)

Filter bags may be used in combination with flocculants refer to Flocculants – Polymers (714.05) and follow manufacture's requirements.

Size/Capacity:

- The necessary dimensions of a filter bag are dependent on the pumping rate (pump size). If the filter bag is too small increases the potential of bursting (bag failure), seam ripping and/or hose detachment resulting in sediment discharge.
- When dewatering excavations with high clay content soil materials larger filter bags will likely be required due to the rapid clogging potential of the geotextile filter bag.
- Follow manufactures recommendations/requirements when sizing bags based upon pump size and soil conditions.

Location:

- Locate filter bags where outflows can easily drain away. Avoid concave locations.
- Filter bags must be placed on nearly level to slightly sloping surface (less than 5% slope) to prevent bag rolling. Aggregate pads can be implemented to level slopes of 5% or greater but yet less than 10%.
- Preferred locations for filter bags are areas of undisturbed stable densely grass vegetated areas where bag out flows can be further filtered by the surrounding vegetation and away from water resources.
- Filter bags can be located on flat bed trailers or truck beds (without rough edges) for ease of removal and disposal.
- Implement secondary containment Rock Berm (709.06) down slope of bags when near sensitive water resources such as streams and wetland areas or when near adjacent properties.
- Filter bags are to be located for ease of access for monitoring, maintenance and filter bag removal (filter bags become very heavy once they become filled with sediment).
- Filter bags shall be protected from objects or items that could puncture or tear the filter bag when stored and during dewatering operations.
- Do not locate filter bags in water resources, wetlands, stream channels, or in concentrated flows or pipe outlet flow paths.

Materials:

- Filter bags made of nonwoven polyethylene geotextile meeting the minimum requirements of Exhibit 713.01-B.
- Geotextile filter bag seams must be durable and adequately burst resistant. These seams maybe double stitched with high strength thread.
- Steel hose clamps or equivalent to tightly attach pump hose to the filter bag (Exhibit 713.01-C).
- Elevated drainage pad (optional): Aggregate INDOT CA No. 8 (Refer to Appendix D), wood mulch/tree grinding, straw bales, wood pallet (free of protruding nails or other sharp objects or broken wood slats).
- Secondary containment berm (optional): refer to Rock Berm (709.06)
- Outflow pathway stabilization materials: dependent upon design, site conditions and pumping requirements.

The table below provides the minimum properties for filter bag geotextile.

Geotextile Filter Bag Minimum Properties		
Property	**Test Method**	**Value**
Mass Per Unit Area	ASTM D-5261	8 oz/yd^2
Grab Tensile Strength	ASTM D-4632	180 lbs
Grab Elongation	ASTM D-4632	50%
Trapezoid Tear Strength	ASTM D-4533	80 lbs
CBR Puncture Strength	ASTM D-6241	475 lbs
Water Flow Rate	ASTM D-4491	70 gal/min/ft^2
Apparent Opening Size	ASTM D-4751	80 U.S. Sieve
UV Resistance (500 hrs)	ASTM D-4355	70%

Exhibit 713.01-B.

Installation:

(1) Ensure to remove all sharp objects, sticks and debris etc. from filter bag location. Install a level elevated drainage pad for best outflow results. Extend pad at least one (1) foot beyond the footprint of the filter bag. A variety of options to elevate the filter bag to promote/facilitate more efficient outflows from the filter bag from the bottom side.

- Option 1. Aggregate pad INDOT CA No. 8 a minimum of 6 inches thick.
- Option 2. Wood mulch/tree grindings a minimum of 6 inches thick.
- Option 3. Strawbale pad of bales.
- Option 4. Wood pallets.

(2) To correct excessive slopes, install a level aggregate pad of INDOT CA No. 8 gravel a minimum of 6 inches thick and sufficient to create a level pad.

(3) Install if necessary, a stabilize outflow pathway to receiving water resources or unstable receiving sloping areas. Filter bag outflows should not cause erosion along the pathway to the discharge point (such as the receiving conveyance or water resource). Install outlet and outflow pathway protection or energy dissipation measures appropriate for the flows/pumping rate and duration of pumping activities such as the following (refer to Water Pumping 713.02):

a. Riprap outlet protection Energy Dissipater (Outlet Protection) (705.01) (refer to Exhibit 713.01-D).
b. Plastic sheeting (refer to Exhibit 713.02-B).
c. Riprap-Lined Channel (704.02)

(4) Where needed or in close proximity to water resources or adjacent properties install a secondary containment Rock Berm (709.06) on the downslope sides and tie into higher ground or for level or less sloping locations encircle the outflow pad with a rock berm or like the Gravel Donut Drop Inlet Protection (706.02) (Chapter 7, page 149) .
(5) Connect the pump hose to the filter bag using a tight connection such as with a steel hose band clamp over the rigid hose connector area to form a watertight connection. (refer to (refer to Exhibit 713.01-C). Do not clamp or tie around flexible hose areas since a tight connection cannot be achieved. To obtain a tight leak free filter bag connection do not connect more than one pump hose to a bag.
(6) Wherever possible implement measures to minimize sediment entry to pump intake area by implementing floating inlets (refer to Water Pumping 713.02) or use a sump pit for dewatering (refer to Exhibit 713.02-I).

Note: When continuous pumping is required during sub-freezing conditions special provisions are needed to reduce bag freezing and rupture potential.

Disposal:

- Allow bag to dewater prior to attempting to moving, disconnecting pump hose or opening bag.
- Where site characteristics allow, the bag may be left in place and cut open and the contents spread out and stabilized. Remove all visible fabric.
- Do not empty bags or leave contents where runoff can carry sediment into wetland, waterways or conveyances.
- Bags and contents can be buried or taken to areas allowing clean fill (when pumping from uncontaminated sites).
- When using in combination with flocculants or polymers dispose bag and contents according to manufacturer's requirements and refer to Flocculants – Polymers (714.05) *In Development*.

Maintenance:

- Monitor the outflow to nearby water resources, off-site properties and receiving conveyances such as storm sewer inlets and swales for excessive sedimentation. Cease pumping when impacts are identified and evaluate for improvements.
- Filter bags require frequent monitoring. At a minimum, inspect at the beginning of pumping operations and at a minimum of once every hour thereafter until the cessation of pumping of sediment-laden water.
- Cease pumping when bag can no longer pass water at a reasonable rate and threatens to rupture and replace with a new filter bag.
- When secondary containments are used and begin to exhibit sediment deposits then cease pumping and implement a new filter bag.
- Monitor hose-bag connection and ensure a watertight connection with no leakage.
- Monitor bag for holes, rips or tears. Immediately cease pumping when holes, rips or tears are identified and replace filter bag prior to resumption of pumping of sediment-laden water.
- Store replacement bags in a protected location to prevent exposure to sunlight, punctures, abrasion, rips and tears.
- Do not use damaged, punctured or torn bags.
- Maintain positive drainage away from filter bags for efficient operation.

- If erosion from filter bag outflow is identified, cease pumping and stabilize outflow pathway prior to the resumption of pumping activities.
- For continuous pumping activities have on-site or ready access to additional filter bags in the event of bag failure or bag is full.

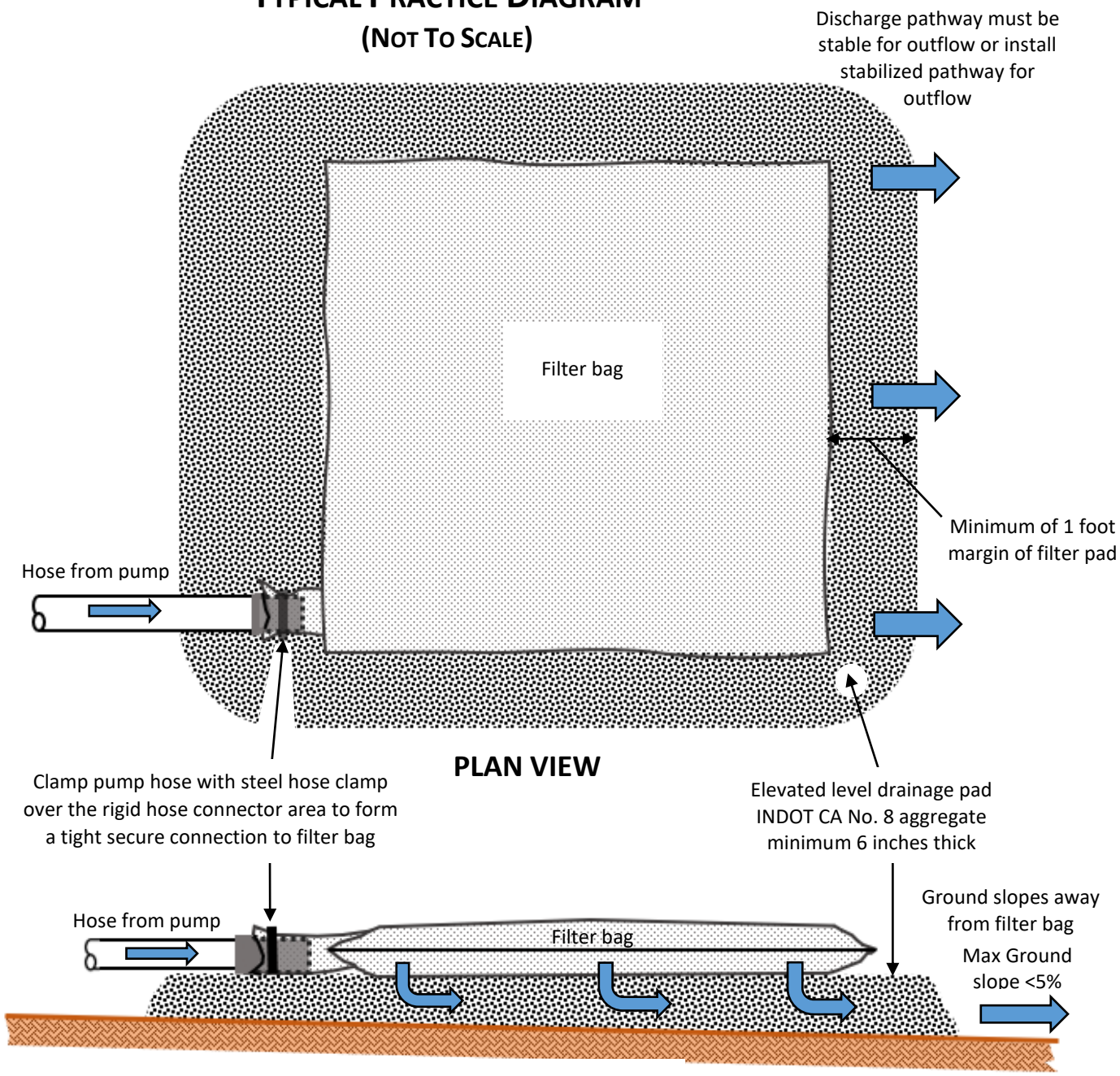
Exhibit 713.01-C. Pump hoses must be securely attached to filter bags to prevent leakage and disconnection. The pump hose has been securely clamped with a steel hose clamp over the rigid hose connector end.
Source: IDEM

Exhibit 713.01-D. Filter bag outflow to the stream has been stabilized with riprap protected stream bank. Stream pump around discharge piping is in the foreground within the stream channel with a stabilized discharge pad.
Source: IDEM

Exhibit 713.01-E. Pump hose has not been securely attached to the filter bag and unsatisfactory unfiltered leakage is occurring. Bag needs to be replaced due to a puncture or tear is leaking unfiltered discharge. Bag has been well located in a slightly sloping stable well vegetated area.
Source: IDEM

Exhibit 713.01-F

FILTER BAGS (PUMP DISCHARGE FILTER BAGS)
TYPICAL PRACTICE DIAGRAM
(NOT TO SCALE)



PLAN VIEW

PROFILE VIEW

NOTES:

- Optional: Elevated drainage pad materials: INDOT CA No. 8 aggregate, wood mulch, strawbales, or wood pallets (all free of sharp objects).
- The illustrations in this exhibit are not intended to serve as construction drawings. The diagrams/drawings are to be used to communicate the concepts for implementation of this control measure.

Source: IDEM File

PRE-BID ATTENDEE LIST

Helmke Library Basement Drainage Renovation - 2025
Purdue University Fort Wayne

The following individuals have registered their attendance at the Pre-Bid held at 8:30 am, local time, Thursday, February 27, 2025, in Room 114, Ginsberg Hall, on the PFW North Campus, 5190 Saint Joe Road, Fort Wayne, IN 46835.

(printed name)	(signature)
Torrey Ehrman	
Martin Riley	260-615-7193
(firm/company)	(phone, fax & e-mail)
ROBB FULTZ	
ACB	260-437-1774
(firm/company)	(phone, fax & e-mail)
Paul Wybo	
ACB	260-402-1420
(firm/company)	(phone, fax & e-mail)
KIM GREENE	
MARTIN RILEY	571 217 9550
(firm/company)	(phone, fax & e-mail)
KEVIN HOWARD	
PURDUE FORT WAYNE	260-437-1005
(firm/company)	(phone, fax & e-mail)
Gregory Justice	
Purdue Fort Wayne	260.481.6787 justicreg@pfw.edu
(firm/company)	(phone, fax & e-mail)

PREBID MEETING MINUTES

Project: Purdue University Fort Wayne, Helmke Library Basement Drainage Renovation - 2025

Meeting Date: February 27, 2025
Commission No: F24054

I. Design Team Introduction:

1. Carissa Bloom, Project Manager – Facilities Management
   Office:260.481.6806; email: clbloom@pfw.edu

2. Kevin Howard, Construction Observer - Facilities Management
   Office:260.481.6797; email: howardkt@pfw.edu

3. Torrey Ehrman, Project Manager, **MARTINRILEY architects▪engineers**
   Office: 260.422.7994; Cell: 260.615.7193; email: tehrman@martin-riley.com

4. Kim Greene, Engineer, **MARTINRILEY architects▪engineers**
   Office: 260.422.7994; email: kgreene@martin-riley.com

II. Scope of Work:

Furnish and install basement dewatering underdrains under Helmke Library using Horizontal Directional Drilling as described in the plans and specifications. The basis of design for the perforated pipe is EnviroFlex and is available through PQ Products (https://pqproducts.com/products). Approved equal products may be acceptable but must be submitted and approved prior to bidding as stipulated in IB1.15 SUBSTITUTIONS.

III. Timeline

1. In order to fairly disseminate all information to all bidders in the Addendum, address all questions to **MARTINRILEY** by the end of the business according to the following schedule. **Be certain all questions have been asked, as the submission of bids by the contractor suggests there are no questions regarding ambiguity, and you are submitting bids that will result in a complete project. Failure to do so will result in contractor's compliance with the Owner or Architects' interpretation, at no contract increase. ~~The deadline for all questions has will be Monday, March 10, 2025, before 12:00 p.m. local time.~~**
   Deadline for questions has been extended to Monday 17, 2025 per Addenda 1.

2. Bids are due at the Office of the Director of Physical Plant, Room 103, Ginsberg Hall, on the PFW North Campus, 5190 Saint Joe Road, Fort Wayne, IN 46835 before 11:00 a.m. local time on Thursday, March 20, 2025, as indicated on the advertisement for bid.

3. It is the intent of the owner to begin work on **May 12, 2025** and final completion on/or before **August 1, 2025**. Final completion includes the completion all of the Punch List items (Owner and Architect) and Close Out Paperwork (i.e. change orders, warranties, waiver of liens, certification letters, etc.)

IV. General Items

1. Bidders may obtain bidding documents from Eastern Engineering (260) 426-3119.

2. The owner reserves the right to accept or reject any and all bids and to waive any informalities in bidding.

3. Questions relating to the project should be directed to Torrey Ehrman at the office of **MARTINRILEY architects▪engineers**

4. It is the Contractor's responsibility to assure that they or their subcontractors visit each project and verify existing conditions prior to the date of bid. Contractors will be required to schedule field visits with Carissa Bloom.

V. Project Manual Items

1. **Complete Bids:**

- All bids shall be accompanied by the following completed documents identified on the Check List and Assembly of Bid
  - Non-collusion affidavit
  - Form 96A (See Section IB1.06C)
  - Combination Bid Bond and Bond for Construction, in the form as set forth in the Specifications. The successful Bidder's bonding company will be notified of a contract to a firm they are bonding. The Bidder will need to provide contact name, mailing address and phone number of the bonding company with the bid. Bonds of unsuccessful Bidders will only be returned on request.
  - Principal Subcontractor Questionnaire (if included in the Specifications). Principal Subcontractors listed are not permitted to be changed without the permission and approval of the Architect/Engineer.
  - Proof of status as licensed Plumbing Contractor (if required by IB1.11).
  - Proof of minority business enterprises (MBE) participation in accordance with the requirements of IB1.12 MINORITY CONTRACTORS.
  - Contractor's written plan for a program to test the Contractor's employees for drugs in accordance with IC 4-13-18 (see Section IB1.14). Failure to include the written plan with the bid will result in rejection of the bid.
- Bid and accompanying documents shall be enclosed in a sealed opaque envelope. Envelope shall be addressed to the Trustees of Purdue University and clearly labeled with the following information:
  - Contents
  - Project Title
  - Name and Address of the Bidder
  - Date and Time of Bid Opening
- The failure to fill out all items in the Bid Supplement to Form 96 will be considered justification for rejection of the bid.
- *Please place the Bid Form at the top of the Bid Package*

2. **Section 00 01 00 – Project Requirements**

- **Liquidated Damages**
  - Liquidated damages may be assessed for each calendar day beyond the specified Substantial and/or Final completion dates
  - The payment of Liquidated Damages in the amount of $1,500.00 per calendar day for each calendar day after the completion date that the Work is not certified as Substantially complete by the Architect.

3. **Section 01 3523 – Owner Safety Requirements**

4. **Section 01 5000 – Temporary Facilities and Controls 3.03C Dewatering Facilities and Drains**

    - Ground water levels in this area average 4’ from top of grade. It is expected that the Contractor will need to utilize dewatering methods to maintain a dry excavation for the bore pits. Pump discharge is to utilize a filter bag before draining into the nearest storm sewer. Effluent testing is not anticipated for this project.

VI. Review Drawings

1. Bid project per drawings, specifications, and addendum(s). Contractors will be held accountable to the bidding documents.

Alternates

Alternate No. 1: Furnish and install basement dewatering system line T-5 for Helmke Library as described in the plans and specifications.

Alternate No. 2: Furnish and install flow monitoring system with valve control based on four-4” lines. Power, data and system compatibility coordinated with Owner.

Additional Discussion

Private utility locates – Per Addendum 1 Contractor is to provide GPR utility locates along the first 50’ of the bore path for borings that start at grade.

Where utilities cross bore path at a depth of under 4’ contractor is required to hydro excavate to ensure conflict is avoided.

Any additions or corrections to these minutes must be submitted, in writing, to **MARTIN**RILEY within three (3) days of issue date; otherwise, these minutes shall stand as correct.

SECTION 01 0100 - PROJECT REQUIREMENTS

SECTION 01 0100 - PROJECT REQUIREMENTS

PART 1: GENERAL

1.01 SCOPE OF PROJECT

A. Furnish and install basement dewatering system lines T-1, T-3, T-4, and T-6 for Helmke Library as described in the plans and specifications dated February 14, 2025.

B. Contract: Construction work under unified fixed price contract.

1.02 PROJECT MANAGER

A. Project Manager for this project is Carissa Bloom, Project Management, Purdue University Fort Wayne, 260-481-6806; mobile 260-609-2443

1.03 COMMENCEMENT AND COMPLETION OF THE WORK

A. Refer to the General Conditions of the Contract, Article 8.

B. Work on the project shall begin May 12, 2025 and must be completed no later than August 1, 2025.

C. Because time is of the essence in Contractor's performance and Owner's actual damages from delayed performance is difficult to determine, Contractor shall pay liquidated damages based on actual costs reasonably expected to be incurred by the Owner when the Contractor delivers the Work later than agreed. The liquidated damages shall be the sum of $1,500 for each calendar day that the Contractor is in default.

D. Prior to the Owner's preparation of a Project Punch List, the Contractor shall prepare his own punch list and submit to the Owner.

1.04 JOBSITE VISITS

A. Any Bidder wishing to make on-site job visits to inspect and verify conditions shall contact Carissa Bloom, Project Management, 260-481-6806; mobile 260-609-2443, to make arrangements.

B. All questions about the Contract Documents shall be directed to the Architect of Record.

1.05 PAYMENT

A. See General Conditions of the Contract, Article 9.

General Construction Notes

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH STATE, COUNTY AND LOCAL CODES INCLUDING ALL AMENDMENTS.
2. ALL PERMITTING FEES SHALL BE PAID FOR BY THE CONTRACTOR.
3. CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS, BUILDINGS, INFRASTRUCTURE, PAVEMENTS, PAVEMENT MARKINGS, WALKS, GRASS, ETC DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED/ REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
4. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PLACE APPROPRIATE EROSION CONTROL MEASURES TO ENSURE NO SEDIMENT LEAVES THE SITE OR ENTERS ON-SITE OR PUBLIC STORM SYSTEMS (SEE C900).
5. CONTRACTOR TO MATCH CONSTRUCTION LIMITS TO EXISTING GRADES AND PROVIDE POSITIVE DRAINAGE TO EXISTING DRAINAGE PATHS/ SYSTEMS.
6. CONTRACTOR SHALL ADJUST ALL CASTINGS TO GRADE WITHIN OR ADJACENT TO THE WORK.
7. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS BY PLACING TOPSOIL, IF REQUIRED, GRADING TO ESTABLISH POSITIVE DRAINAGE, SEEDING AND MULCH.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, LOCAL /COUNTY JURISDICTIONS AND UTILITIES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE APPROPRIATE TEMPORARY SURFACE PROTECTION TO PREVENT DAMAGE TO EXTERIOR SITE ELEMENTS OUTSIDE SCOPE OF WORK.
10. CONTRACTOR TO FURNISH GROUND PENETRATING RADAR (GPR) PRIOR TO BORE PIT EXCAVATION AND DIRECTIONAL DURING WITHIN 50' (MEASURED HORIZONTALLY) OF THE START OF BORE PIT.

1 Site Layout Plan
1" = 10'

A New Construction Project For :
Purdue Fort Wayne

HELMKE LIBRARY BASEMENT DRAINAGE RENOVATION - 2025

2101 E Coliseum Blvd
Fort Wayne, IN

MARTINRILEY
architects•engineers
221 West Baker Street
Fort Wayne, Indiana 46802
TEL. 260.422.7994
FAX. 260.426.2067

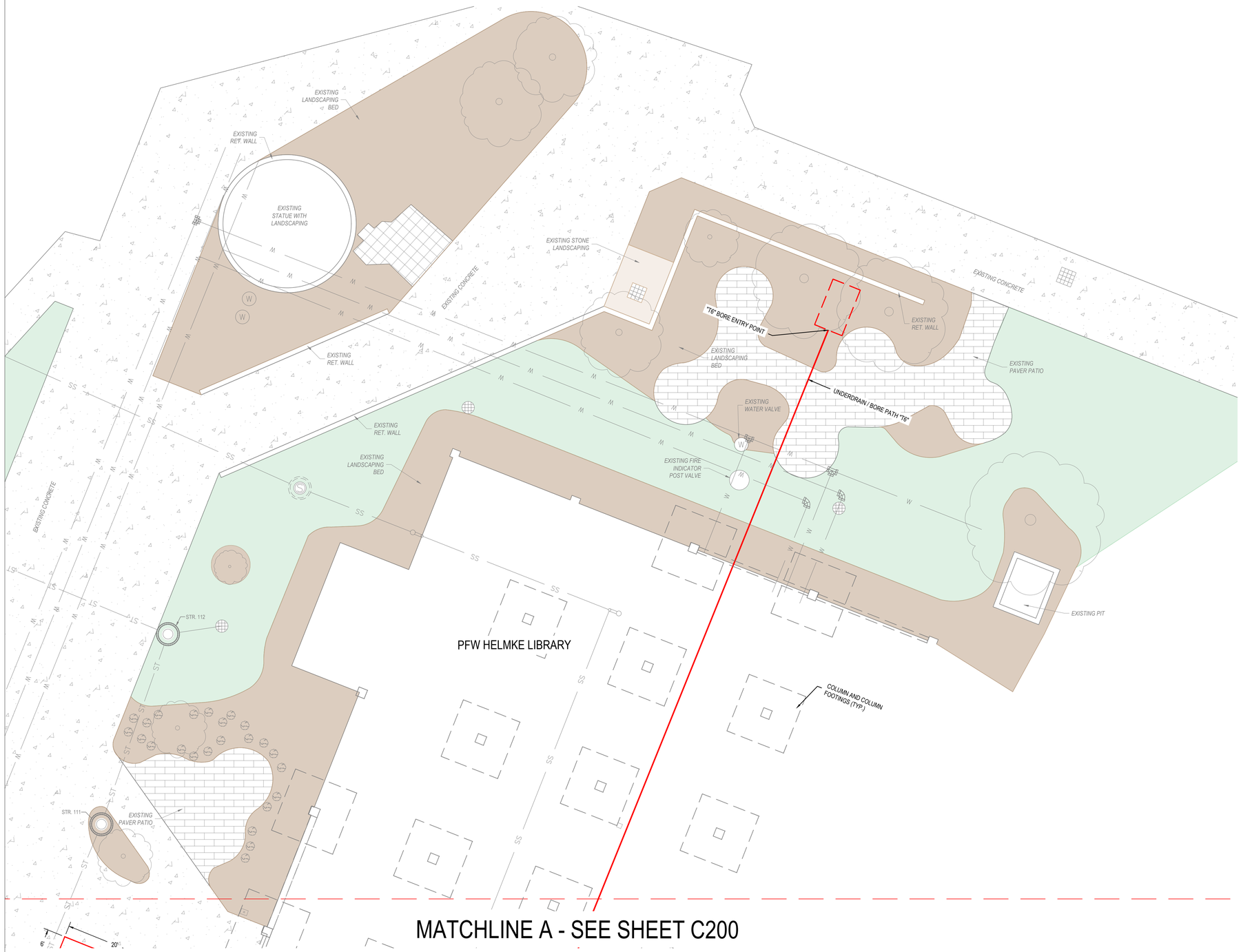
TORREY D. EHRMAN REGISTERED No. 12000461 STATE OF INDIANA PROFESSIONAL ENGINEER
2-14-25

REVISION:	DATE:
1 ADDENDUM 1	2025-03-13

DRAWN BY:	VLB, KAG	REVIEWED BY:	TDE
COMMISSION NUMBER:	F24054	DATE:	2025-02-14

C200

SITE LAYOUT PLAN



MATCHLINE A - SEE SHEET C200

NORTH

1 Site Layout Plan

1" = 10'

General Construction Notes

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A New Construction Project For :
Purdue Fort Wayne

HELMKE LIBRARY BASEMENT DRAINAGE RENOVATION - 2025

2101 E Coliseum Blvd
Fort Wayne, IN

MARTINRILEY
architects•engineers
221 West Baker Street
Fort Wayne, Indiana 46802
TEL. 260.422.7994
FAX. 260.426.2067

TORREY D. EHRMAN REGISTERED No. 12000461 STATE OF INDIANA PROFESSIONAL ENGINEER
2-14-25

REVISION:	DATE:
1 ADDENDUM 1	2025-03-13

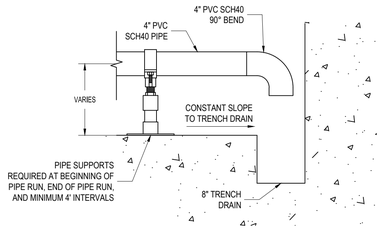
DRAWN BY: VLB, KAG
REVIEWED BY: TDE
COMMISSION NUMBER: F24054
DATE: 2025-02-14

C201

SITE LAYOUT PLAN

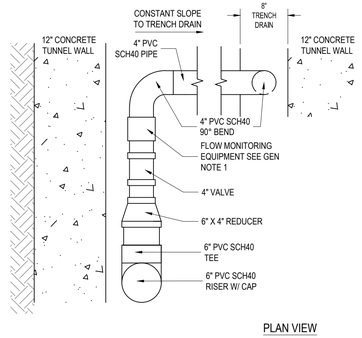
General Notes

1. ALTERNATE 2 SCOPE OF WORK
   - INSTALL 4" ACTUATED BALL VALVE PER EACH DRAIN LINE.
   - MIN IP66 RATING.
   - BACNET COMMUNICATION PROTOCOL OR MODBUS COMMUNICATION WITH MODBUS TO BACNET ADAPTER.
   - PROVIDE 1 CONTROL DEVICE CONFIGURED TO OPEN OR CLOSE VALVES. DEVICE TO HAVE DISPLAY TO SHOW VALVE STATUS.
   - ACTUATOR TO OPERATE ON 120 VAC POWER SOURCE.
   - CONTRACTOR TO PROVIDE CONDUIT AND APPROPRIATE WIRING FROM VALVE LOCATIONS IN TUNNEL TO A SURFACE MOUNTED JUNCTION BOX LOCATED ON BASEMENT WALL NEAR TUNNEL OPENING FOR RETURN AIR DUCT.
   - OWNER TO PROVIDE POWER TO JUNCTION BOX.

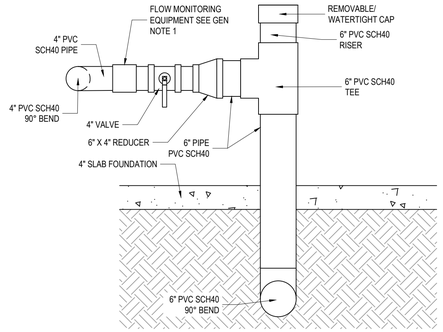


7 Typical Tunnel Floor Pipe Extension Detail

NTS



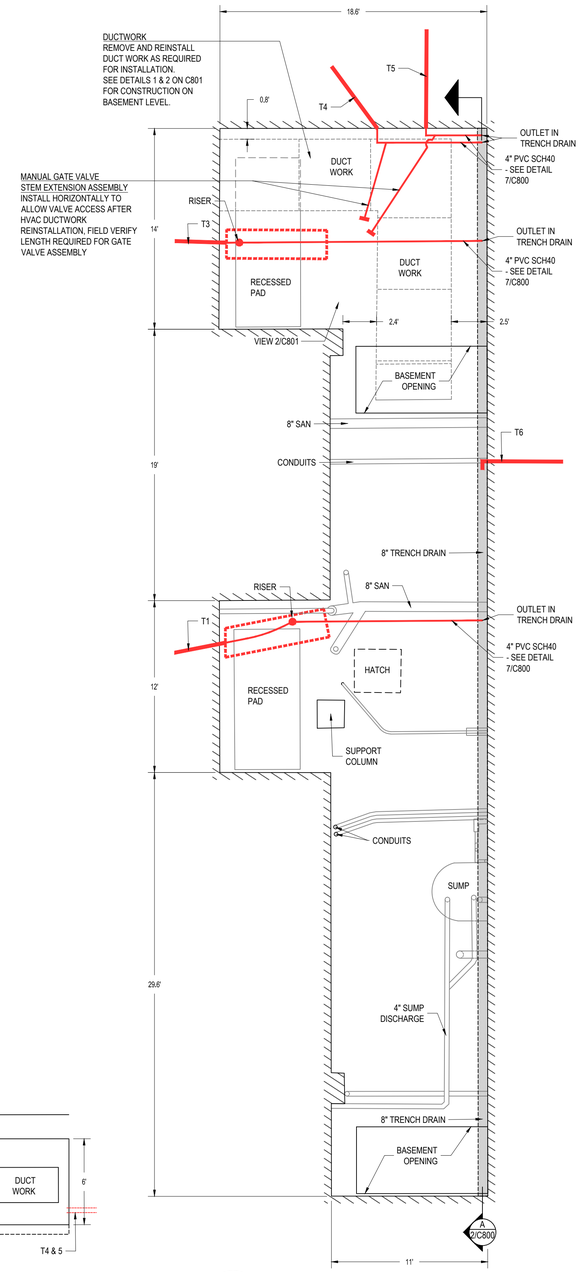
PLAN VIEW

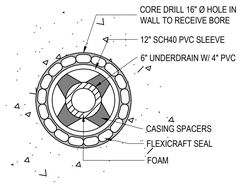


SECTION VIEW

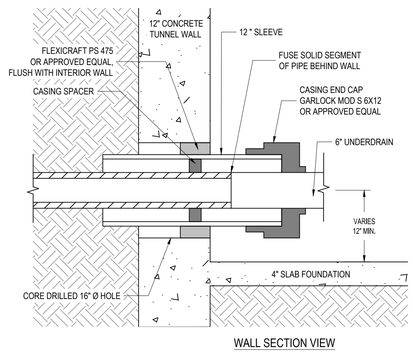
6 Typical Underdrain / Tunnel Floor Pipe Extension Detail

NTS





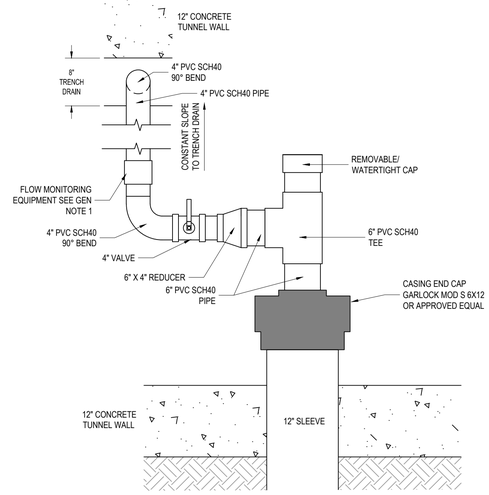
ELEVATION VIEW



WALL SECTION VIEW

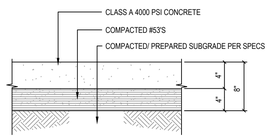
5 Typical Underdrain / Tunnel Wall Connection Detail

1" = 1'



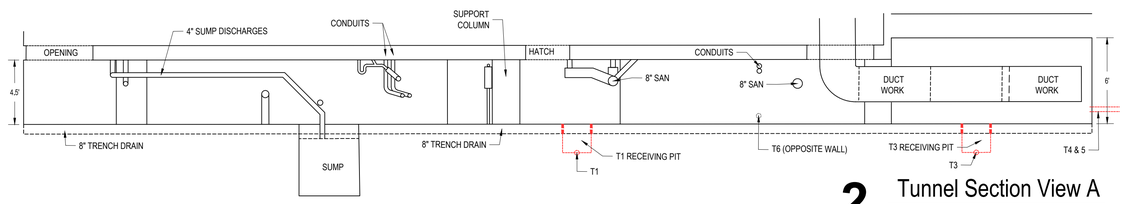
4 Typical Underdrain / Tunnel Wall Pipe Extension Detail

NTS



3 Concrete Pavement Repair

NTS



2 Tunnel Section View A

1" = 5'

1 Tunnel Plan View

1" = 5'

A New Construction Project For :
Purdue Fort Wayne

HELMKE LIBRARY BASEMENT DRAINAGE RENOVATION - 2025

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2-14-25

REVISION:	DATE:
1 ADDENDUM 1	2025-03-12

DRAWN BY:	VLB, KAG	REVIEWED BY:	TDE
COMMISSION NUMBER:	F24054	DATE:	2025-02-14

C800

SITE DETAILS