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Addendum 1
Solicitation 24-99434
HILLSIDE CULVERT REPAIRS

This addendum serves to notify all bidders of the following changes to the solicitation documents:

NOTICE

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addenda and is hereby made a part of the Contract Documents. Please acknowledge receipt of this Addendum on the Request for Bid.

GENERAL

1. Temporary Stream Diversion requirements revised.
2. Descriptions of changes to drawings are for reference only and provide only a general overview of changes made. It is the Contractor's responsibility to fully assess and provide the specific requirements of the Work on all Plan sheets regardless of the description of sheet change(s) provided herein.

DRAWINGS

1. Sheet 52; Delete Sheet 52 in its entirety and replace with revised Sheet 52. Revisions to Sheet 52 are as follows:
 - a. Revision to Temporary Stream Diversion flow requirements.

SPECIFICATIONS

1. SP-34, (2541) TEMPORARY STREAM DIVERSION is hereby amended as follows:
 - a. Paragraph 8 is modified as follows:
 - i. The stream diversion system shall be sized to adequately convey *expected daily flows at repair locations and constructed to accommodate contractors' operations with due consideration given to the inherent flashiness of Duluth's Hillside streams* a 2-year, 24-hour rainfall event.

END OF ADDENDUM

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the www.bidexpress.com solicitation.

Posted: **April 24, 2024**

TEMPORARY STREAM DIVERSION SYSTEMS

LEGEND

- PA— SILT FENCE, TYPE PREASSEMBLED
- HI— SILT FENCE, TYPE HAND INSTALLED
- SD— SILT FENCE, TYPE SUPER DUTY

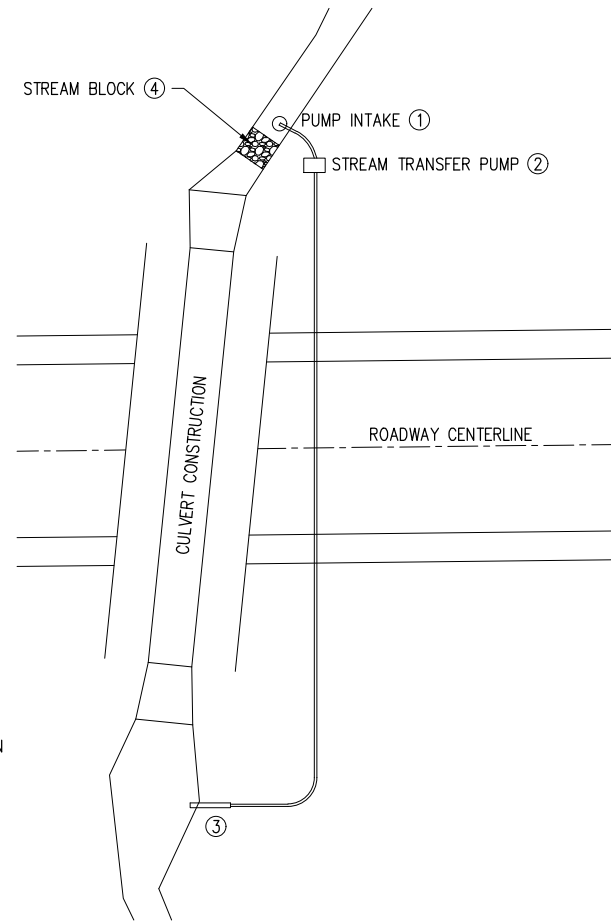
KEY NOTES:

- ① PUMP INTAKE SHALL UTILIZE A SUMP OR BE FITTED WITH SCREEN AND FLOATING HEAD (PREFERRED).
- ② STREAM TRANSFER PUMP SHALL BE SIZED TO ACCOMMODATE EXPECTED DAILY FLOWS AT REPAIR LOCATIONS.
- ③ DISCHARGE THROUGH FLOCCULENT SOCK.
- ④ STREAM BLOCK. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF STREAM BLOCK AND ITS PERFORMANCE TO FULLY FUNCTION, NON-ERODIBLE, AND TO ACCOMMODATE EXPECTED DAILY FLOWS AT REPAIR LOCATIONS. CONTRACTOR SHALL SUBMIT METHOD AND DETAILS TO ENGINEER PRIOR TO CONSTRUCTING.
- ⑤ BY-PASS CULVERT TO BE TEMPORARY CULVERT PLACED IN ROAD CUT OR JACKED THROUGH PRIOR TO CUT. CULVERT SHALL BE SIZED FOR A MINIMUM 2 YEAR - 24 HOUR EVENT AT THIS CROSSING.
- ⑥ BY-PASS CHANNEL TO BE CONSTRUCTED AS SHOWN ON THIS PAGE. CHANNEL SHALL BE SIZED FOR A MINIMUM 2 YEAR - 24 HOUR EVENT AT THIS CROSSING.

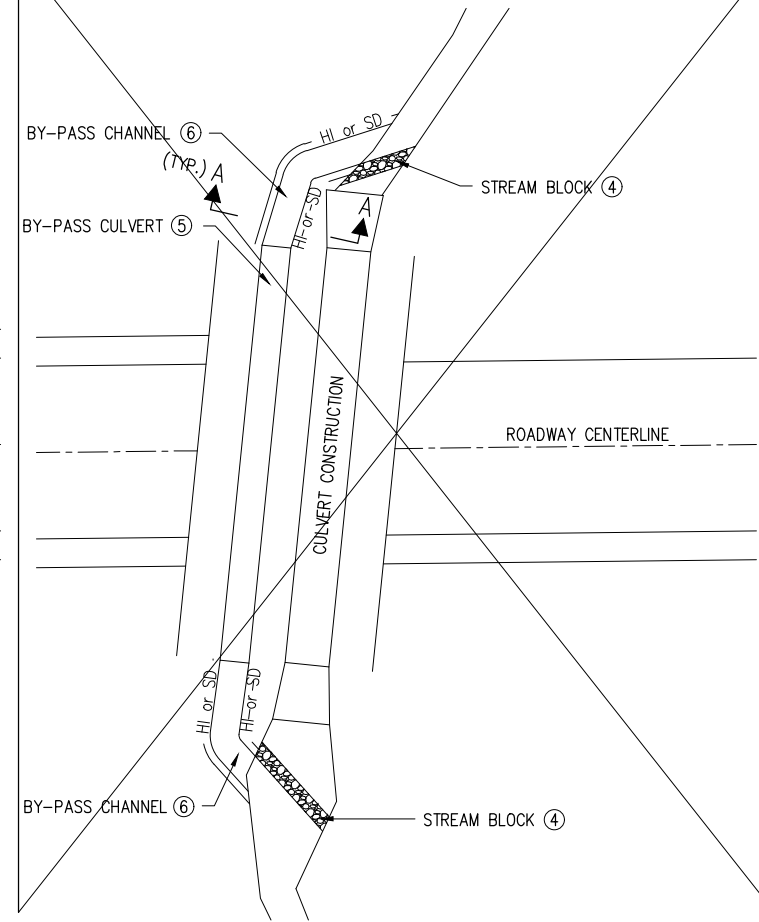
GENERAL NOTES:

- 1.) ANY DEWATERING OF WORK AREA SHALL BE DISCHARGED TO TEMPORARY SEDIMENT TRAP.
- 2.) PAYMENT FOR ITEM NO. 2573.601 TEMPORARY STREAM DIVERSION SYSTEM (SINGLE LUMP SUM) SHALL INCLUDE ALL ITEMS NECESSARY TO CONSTRUCT FULLY FUNCTIONING, COMPLIANT DIVERSION SYSTEMS CONFORMING TO ONE OF THE ABOVE EXAMPLES AT ALL LOCATIONS AS INDICATED ON THE SITE PLAN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- 3.) GEOTEXTILE FABRIC TYPE 5, POLYETHYLENE SHEETING, NON-ERODIBLE WEIGHTS AND SILT FENCE ARE INCLUDED IN THE PAY ITEM FOR TEMPORARY STREAM DIVERSION.

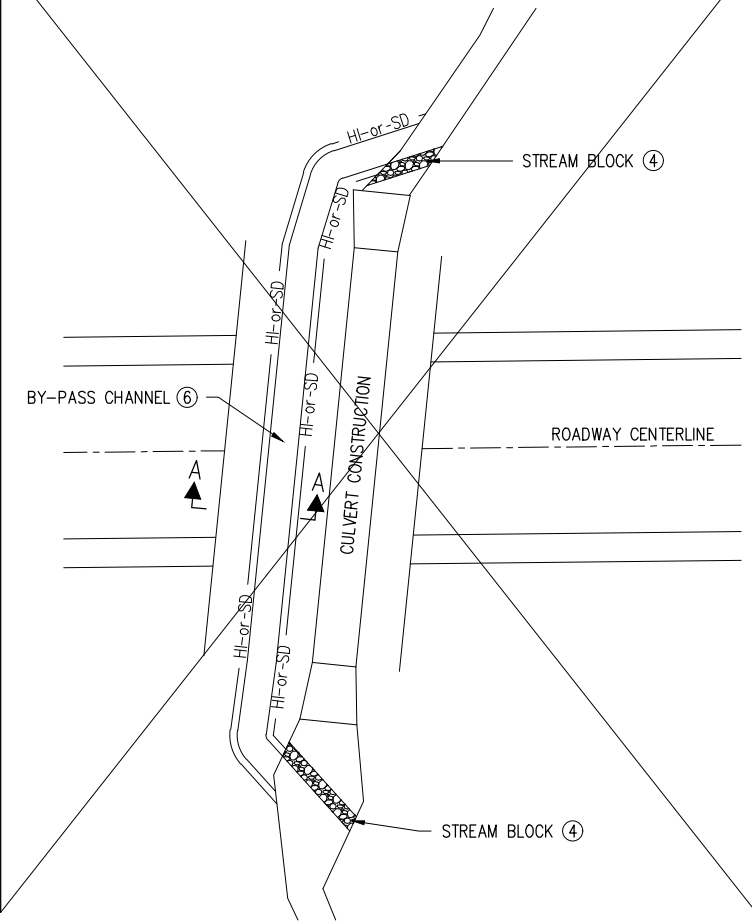
TEMPORARY STREAM BLOCK



CULVERT BY-PASS



STREAM DIVERSION

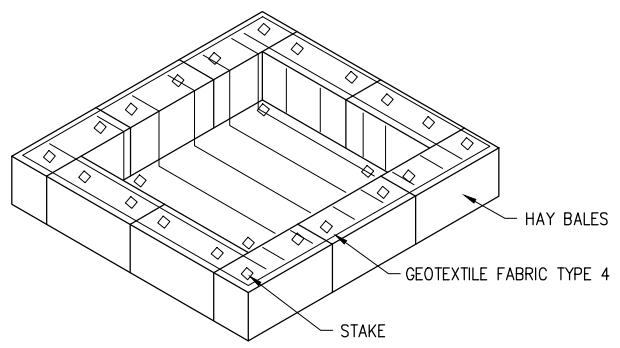
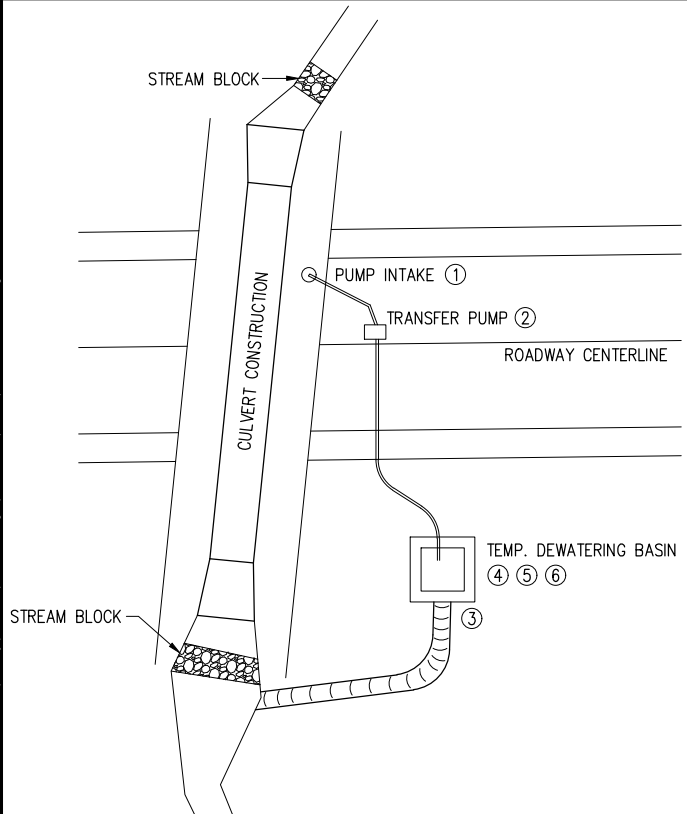


DEWATERING KEY NOTES:

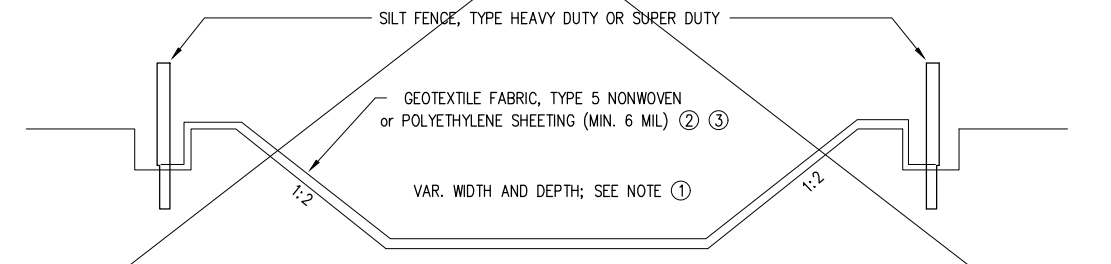
- ① PUMP INTAKE SHALL UTILIZE A SUMP OR BE FITTED WITH SCREEN AND FLOATING HEAD (PREFERRED).
- ② TRANSFER PUMP SHALL BE SIZED TO ALLOW THE EXCAVATION TO BE DRY DURING CONSTRUCTION.
- ③ SPILLWAY TO BE FORMED AT OUTLET OF DEWATERING BASIN AND WATER ROUTED TO THE STREAM THROUGH A PLASTIC AND/OR RIPRAP LINED SWALE.
- ④ TEMPORARY DEWATERING BASIN TO BE CONSTRUCTED AS SHOWN. OTHER DESIGNS MAY BE UTILIZED WITH ENGINEER'S APPROVAL.
- ⑤ ANY DEWATERING OF WORK AREA SHALL BE DISCHARGED TO TEMPORARY DEWATERING BASIN.
- ⑥ BASIN IS SIZED FOR A PUMP WITH A 3" DISCHARGE HOSE. LARGER PUMPS WILL REQUIRE A LARGER BASIN. HAY BALES ARE TO MEET THE REQUIREMENTS OF BALE CHECK, SPEC. 2573 & 3882. THE REMOVAL OF SEDIMENT FROM THE BASIN IS CONSIDERED TO BE INCIDENTAL AND NO DIRECT PAYMENT WILL BE MADE. TYPE 4 GEOTEXTILE FABRIC (SPEC. 3733) IS TO BE DRAPED OVER THE BALES AND INTO THE BASIN. THE FABRIC SHALL BE STAKED TO THE GROUND AT THE FOUR INSIDE CORNERS OF THE BASIN. STAKES TO ANCHOR THE BALES SHALL BE PLACED AFTER THE FABRIC HAS BEEN PLACED, SO AS TO ANCHOR BOTH THE BALES AND THE FABRIC. THE USE OF FLOCCULANTS MAY BE REQUIRED TO ACCELERATE THE SETTLEMENT OF THE SEDIMENT. DIMENSIONS OF THE SEDIMENT BASIN ARE APPROXIMATELY 12'X12' BUT MAY NEED TO BE ENLARGED IN ORDER TO EFFECTIVELY FILTER THE SEDIMENT AND NO DIRECT PAYMENT WILL BE MADE.
- ⑦ THE ITEM "DEWATERING" ALLOWS FOR THE PLACEMENT OF CULVERTS IN THE DRY. ALL PUMPS, INTAKES, FLOCCULANTS, SWALES, RIPRAP, PLASTIC SHEETING, TEMPORARY DEWATERING BASINS AND ANY OTHER ITEMS NECESSARY TO EXPUL CLEAN WATER FROM THE PROJECT ARE INCIDENTAL AND NO DIRECT PAYMENT WILL BE MADE.

SECTION A-A KEY NOTES:

- ① WIDTH AND DEPTH OF BY-PASS CHANNEL AND SIZING OF BY-PASS CULVERT WHERE USED ARE TO BE SUFFICIENT IN SIZE TO CARRY A 2 YEAR 24-HOUR STORM EVENT AT THIS CROSSING.
- ② LINER SHALL BE PLACED AS A SINGLE CONTINUOUS PIECE ANCHORED AT THE TOP OF THE SLOPES WITH A LINE OF SILT FENCE, TYPE HEAVY DUTY OR SUPER DUTY. AN UPSTREAM SECTION OF LINER SHALL OVERLAP A DOWNSTREAM SECTION A MINIMUM OF 18 INCHES.
- ③ NON-ERODIBLE WEIGHTS, SUCH AS EROSION CONTROL STONE, SHALL BE USED TO SECURE CHANNEL LINER AT THE DOWNSTREAM AND UPSTREAM ENDS AND AS NECESSARY ALONG THE CHANNEL TO PREVENT DISPLACEMENT OF THE FABRIC. WOODEN STAKES SHALL NOT BE USED TO SECURE LINER. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ANY TEARING OF THE CHANNEL LINER. ANY TEARS SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION IMMEDIATELY IN ORDER TO ELIMINATE EROSION POTENTIAL.



TEMPORARY DEWATERING BASIN ④ ⑤ ⑥



SECTION A-A
(TEMPORARY BYPASS CHANNEL)

DEWATERING ⑦
LHB PROJECT NO. 230852

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CHRISTOPHER J. MILLER
PRINTED NAME

Christopher J. Miller
SIGNATURE

4-23-2024
DATE
49840
LIC. NO.

CITY PROJECT NO. 2217

HILLSIDE CULVERT REPAIRS

REVISION
④ 4-23-2024

TEMPORARY STREAM DIVERSION DETAILS
SHEET NO. 52 OF 52 SHEETS

PLOT DATE: 4/23/2024 12:32:29 PM FILE: G:\230852\Drawings\Structural\VIEW\230852_52_SD.dwg