Purchasing Division
Finance Department

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Duluth, Minnesota 55802

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Addendum No. 3
Solicitation 25-99575
Hillside Culvert Repairs Phase 2

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

GENERAL

1. Change in scope at Repair Location 1 from removal and replacement of catch basin structure to construction of scour wall, installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.

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 3: Delete Sheet 3 in its entirety and replace with revised Sheet 3. Revisions to Sheet 3 are as follows:
    a. Quantity revisions due to change of scope of work.
2. Sheet 6: Delete Sheet 6 in its entirety and replace with revised Sheet 6. Revisions to Sheet 6 are as follows:
    a. Change in scope from removal and replacement of catch basin structure to construction of scour wall installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.
        i. No excavation or street work anticipated with change in work scope.
    b. Changes to quantities.
3. Sheet 7: Delete Sheet 7 in its entirety and replace with revised Sheet 7. Revisions to Sheet 7 are as follows:
    a. Change in scope from removal and replacement of catch basin structure to construction of scour wall, installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.
4. Sheet 8: Delete Sheet 8 in its entirety and replace with revised Sheet 8. Revisions to Sheet 8 are as follows:
    a. Change in scope from removal and replacement of catch basin structure to

construction of scour wall, installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.

b. Change in quantity of “REPOINT STONE STRUCTURE”.

5. Sheet 9: Delete Sheet 9 in its entirety and replace with revised Sheet 9. Revisions to Sheet 9 are as follows:
    a. Change in scope from removal and replacement of catch basin structure to construction of scour wall, installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.
6. Sheet 10: Delete Sheet 10 in its entirety and replace with revised Sheet 10. Revisions to Sheet 10 are as follows:
    a. Change in scope from removal and replacement of catch basin structure to construction of scour wall, installation of steel roof liner, and connection of existing catch basin through roof liner to the culvert.
7. Sheet 11: Delete Sheet 11 in its entirety and replace with revised Sheet 11. Revisions to Sheet 11 are as follows:
    a. Site Specific traffic control plan removed, sheet is not used.

SPECIFICATIONS

1. SP-18, (2104) REMOVE DRAINAGE STRUCTURE is hereby amended as follows:
    a. Paragraph 3 is modified as follows:
        i. Remove the existing concrete and/or brick masonry catch basins to the top of the existing brick arch roof at repair locations 1 and 2. Removal of the existing catch basin shall be done in a manner as to not affect the structural integrity of the brick arch roof to remain.
2. SP-19 (2106) DEWATERING is hereby amended as follows:
    a. Paragraph 3 is modified as follows:
        i. Repair Location 1: Catch basin foundation construction and wWall repointing work more than 6-inches above water surface elevation will be allowed under flowing water. When wall repointing work is to be done within 6-inches of water surface elevation and below, water to be diverted by means of a stream block and pumping or moved to opposite side of the culvert by sandbagging or other diverting means. The repair area shall be free of running water and dewatered to the extent practical to properly repoint the wall and allow for the mortar to cure for a minimum of 24 hours.
3. 3.SP-23 (2511) PLACE BOULDER is herby amended as follows:
    a. Remove SP-23 in its entirety.

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

Posted: **November 13, 2025**

KEY NOTES:

(1) ASSUMED THICKNESS OF EXISTING BITUMINOUS PAVEMENT IS 8".

(2) TRAFFIC CONTROL PLANS PROVIDED FOR REPAIR LOCATION 2. CONTRACTOR TO DESIGN TRAFFIC CONTROL AT REMAINING REPAIR LOCATIONS PER STANDARD PLANS AND NOTES ON SHEETS 24 & 25.

(3) SILT FENCE TO BE PLACED AS DETAILED IN THE PLANS WITH MODIFICATIONS AS NECESSARY AND APPROVED BY THE ENGINEER.

(4) ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE EDGE OF ROAD, CURB OR WALK (APPROX. 0.05 ACRES) SHALL HAVE TURF ESTABLISHMENT PERFORMED AS FOLLOWS UNLESS NOTED OTHERWISE
- SEE MIXTURE 36-311 AT THE RATE OF 70 POUNDS PER ACRE
- COMMERCIAL FERTILIZER TYPE 3 AT THE RATE OF 350 POUNDS/ACRE

(5) SOIL BED PREPARATION SHALL BE IN ACCORDANCE WITH SPEC 2574.3.A.3 – SOIL BED PREPARATION. THIS WORK SHALL BE CONSIDERED INCIDENTAL.

(6) AT LEAST TWO WEEKS PRIOR TO ANY PARTIAL OR FULL ROAD CLOSURE, THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN TO THE ENGINEER FOR APPROVAL. DETOUR PLAN SHALL INCLUDE, BUT NOT LIMITED TO, ALL REQUIRED SIGNS, CONES AND DELINEATION.

(7) IF THE CONTRACTOR'S SCHEDULE RESULTS IN EXCAVATION AND BACKFILL ACTIVITIES AT LOCATION 2 OCCURRING DURING THE CLOSURE OF BITUMINOUS PLANTS, THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE CITY, PLACE AND MAINTAIN A CLASS 5 DRIVING SURFACE UNTIL FINAL SURFACING OF THE SITE CAN BE COMPLETED.

STATEMENT OF ESTIMATED QUANTITIES (7)

	SPEC. NO.	ITEM	UNIT	LOCATION 1	LOCATION 2	LOCATION 3	TOTAL QUANTITY	FINAL QUANTITY
	2021.501	MOBILIZATION	LUMP SUM	0.333	0.333	0.333	1	
	2101.501	CLEARING AND GRUBBING	LUMP SUM		1.0		1	
	2104.502	SALVAGE CASTING	EACH (1)		1	(1)	1	
	2104.502	REMOVE DRAINAGE STRUCTURE	EACH		1		1	
	2104.503	REMOVE CURB & GUTTER	LIN FT		50		50	
	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT		48		48	
	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT		14		14	
	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT		10		10	
(1)	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD		133		133	
	2104.518	REMOVE SIDEWALK	SQ FT		200		200	
	2106.601	DEWATERING	LUMP SUM	0.333	0.333	0.333	1	
	2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD		31		31	
	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON		27		27	
	2401.507	STRUCTURAL CONCRETE (3B52)	CU YD	2	4	8	14	
	2401.507	STRUCTURAL CONCRETE (3S52)	CU YD		14		14	
	2401.508	REINFORCEMENT BARS (EPOXY COATED)	POUND	185	1360	910	2455	
	2433.502	ANCHORAGES TYPE REINF BARS	EACH	56	218	186	460	
	2501.503	54" SPAN CS PIPE-ARCH CULVERT 12 GAUGE	LIN FT	16		60	76	
	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT		10		10	
	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH		1		1	
	2506.502	CASTING ASSEMBLY	EACH		1		1	
	2506.502	INSTALL CASTING	EACH		1		1	
	2521.518	4" CONCRETE WALK	SQ FT		200		200	
	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT		50		50	
	2541.618	REPOINT STONE STRUCTURE	SQ FT	568			568	
	2541.618	STONE MASONRY	SQ FT	5			5	
(2) (6)	2563.601	TRAFFIC CONTROL	LUMP SUM	0.333	0.333	0.333	1	
	2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM		1.0		1	
(3)	2573.503	SILT FENCE, TYPE HI	LIN FT		90		90	
	2573.601	TEMPORARY STREAM DIVERSION SYSTEM	LUMP SUM	0.333	0.333	0.333	1	
	2574.507	COMMON TOPSOIL BORROW	CU YD		10		10	
(4) (5)	2575.501	TURF ESTABLISHMENT	LUMP SUM		1.0		1	
	2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD		95		95	
	2575.523	RAPID STABILIZATION METHOD 3	M GALLON		0.12		0.12	

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

11/12/2025 — DATE

49840 — LIC. NO.

CITY PROJECT NO. 2346

HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

REVISION
(1) 11-12-2025

STATEMENT OF ESTIMATED QUANTITIES

(1) SHEET NO. 3 OF 26 SHEETS

PLOT DATE: 11/12/2025 9:22:11 AM FILE: C:\23Proj\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_3 Quantities.dwg

SUMMARY OF QUANTITIES FOR LOCATION 1		
ITEM	UNIT	TOTAL
ANCHORAGES TYPE REINF BARS	EACH	56
STRUCTURAL CONCRETE (3B52)	CU YD	2
REINFORCEMENT BARS (EPOXY COATED)	POUND	185
54" SPAN CS PIPE-ARCH CULVERT 12 GAUGE	LIN FT	16
REPOINT STONE STRUCTURE	SQ FT	568
② STONE MASONRY	SQ FT	5

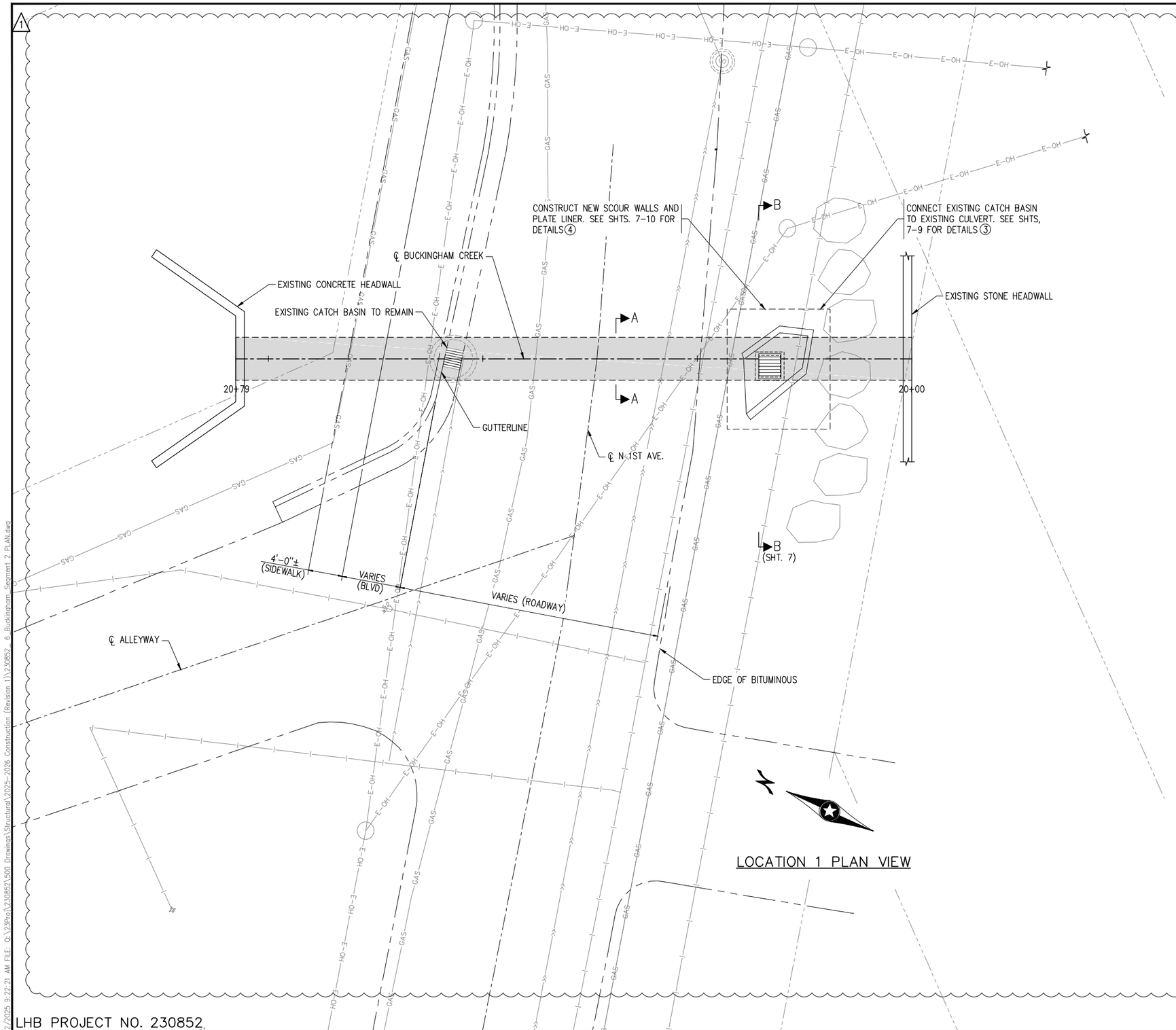
KEY NOTES:

① REPOINT BLUESTONE WALLS, SEE SHT. 8 FOR DETAILS. TO BE PAID FOR UNDER ITEM "REPOINT STONE STRUCTURE".

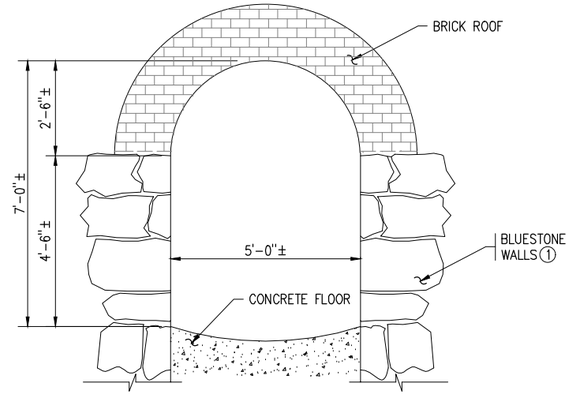
② PLACE STONE MASONRY AS DIRECTED BY ENGINEER

③ CONNECTION OF EXISTING CATCH BASIN TO EXISTING CULVERT TO BE INCLUDED IN PRICE BID FOR ITEM "54" SPAN CS PIPE-ARCH CULVERT 12 GAUGE".

④ SCOUR WALL AND PLATE LINER WILL BE PAID FOR UNDER ITEMS "ANCHORAGE TYPE REINF BARS", "STRUCTURAL CONCRETE (3B52), "REINFORCEMENT BARS (EPOXY COATED), AND "54" SPAN CS PIPE-ARCH CULVERT 12 GAUGE".



LOCATION 1 PLAN VIEW



SECTION A-A - LOCATION 1

LHB PROJECT NO. 230852

BUCKINGHAM CREEK - REPAIR LOCATION 1

LOCATION 1 PLAN, SECTION & QUANTITIES

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Christopher J. Miller — SIGNATURE

11/12/2025 — DATE

49840 — LIC. NO.

CITY PROJECT NO. 2346

HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

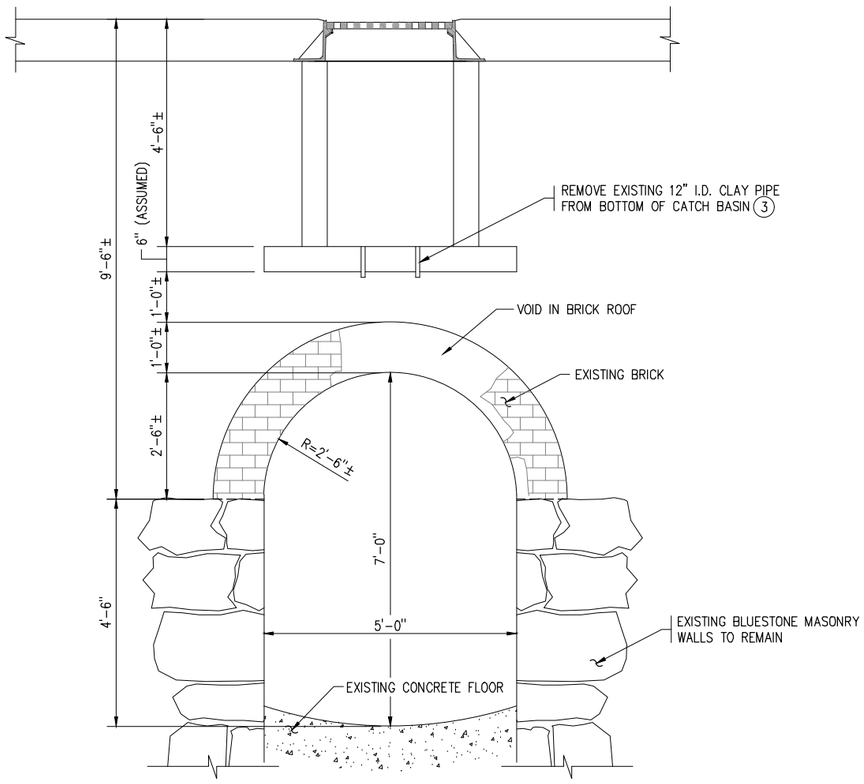
REVISION
⚠1 11-12-2025

⚠ SHEET NO. 6 OF 26 SHEETS

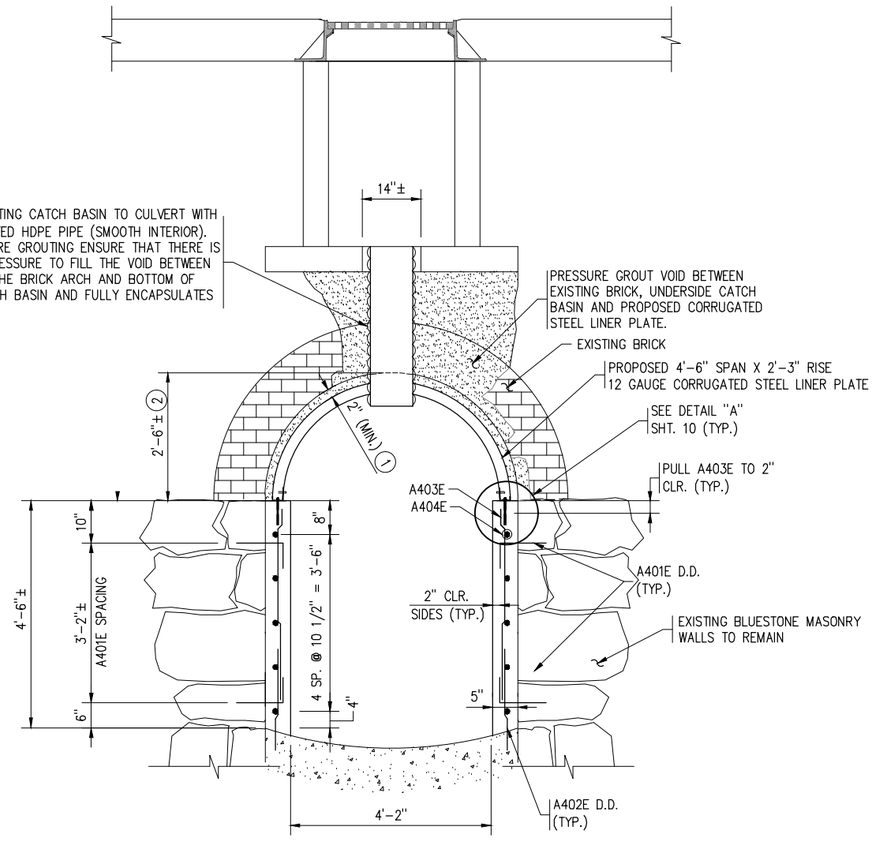
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KEY NOTES:

1. PROVIDE A MINIMUM OF 2" OF PRESSURE GROUT BETWEEN EXISTING BRICK ARCH ROOF AND CORRUGATED STEEL LINER PLATE.
2. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS AND INCLUDE ON SHOP DRAWINGS TO DEMONSTRATE PROPER CLEARANCE BETWEEN THE CORRUGATED STEEL LINE PLATE AND THE EXISTING BRICK/CONCRETE ARCH.
3. REMOVAL OF EXISTING CLAY PIPE, AND CONNECTING EXISTING CATCH BASIN TO CULVERT, INCLUDING FURNISHING AND INSTALLING 10" CORRUGATED HDPE PIPE, CUTTING AND PENETRATING STEEL LINER PLATE AND GROUTING TO BE INCLUDED FOR PAYMENT UNDER ITEM "54" SPAN CS PIPE-ARCH CULVERT 12 GAUGE".



SECTION B-B - EXISTING
(SECTION SHOWN AT STA. 20+19)



SECTION B-B - PROPOSED
(SECTION SHOWN AT STA. 20+19)

PLOT DATE: 11/12/2025 9:22:30 AM FILE: C:\23Pro\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_7 Buckingham_Segment 2.dwg

LHB PROJECT NO. 230852

BUCKINGHAM CREEK - REPAIR LOCATION 1

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CHRISTOPHER J. MILLER (PRINTED NAME) Christopher J. Miller (SIGNATURE)

11/12/2025 DATE

49840 LIC. NO.

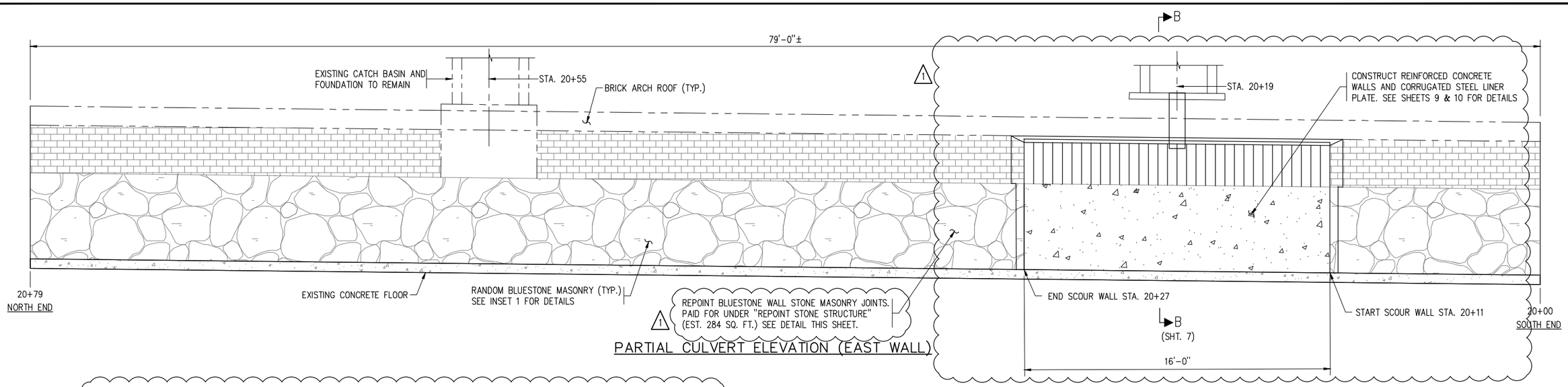
CITY PROJECT NO. 2346

HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

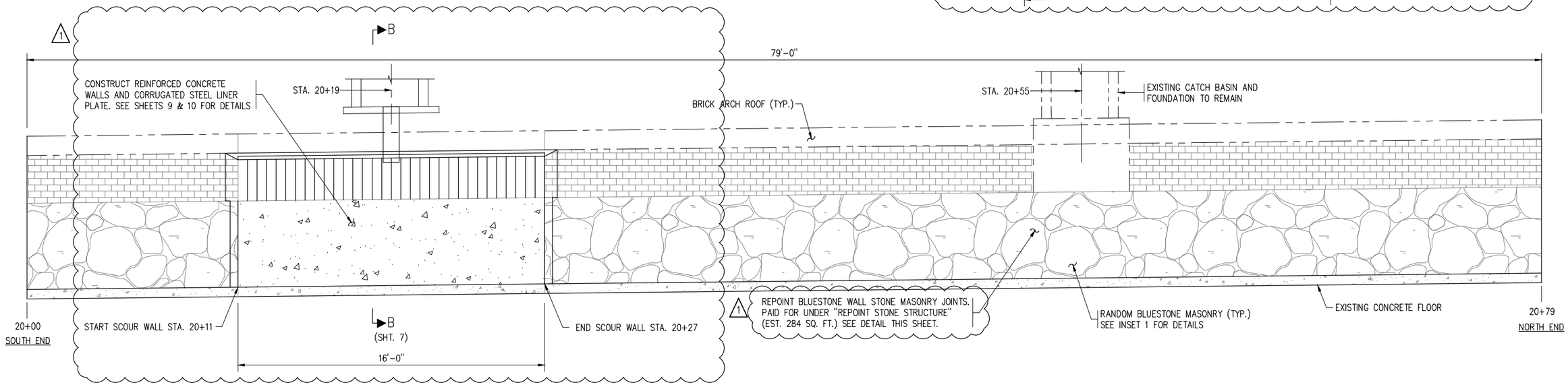
REVISION 1 11-12-2025

CATCH BASIN FOUNDATION

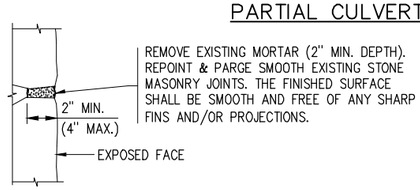
1 SHEET NO. 7 OF 26 SHEETS



PARTIAL CULVERT ELEVATION (EAST WALL)



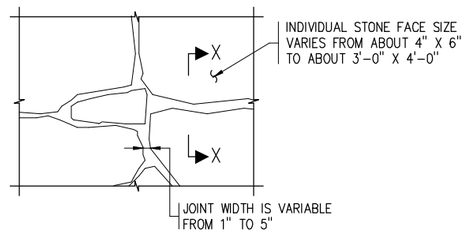
PARTIAL CULVERT ELEVATION (WEST WALL)



SECTION X–X ①

WORK SHOWN ABOVE TO BE INCLUDED FOR PAYMENT UNDER ITEM "REPOINT STONE STRUCTURE".

MORTAR JOINTS ARE VARIABLE IN WIDTH, RANGING FROM 1 INCH TO 5 INCHES WIDE.



INSET 1

KEY NOTES:

① COMPLETE THE STONE MASONRY REPOINTING IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS SHEET AND THE SPECIAL PROVISIONS.

LHB PROJECT NO. 230852

BUCKINGHAM CREEK – REPAIR LOCATION 1

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11/12/2025 — DATE

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CITY PROJECT NO. 2346

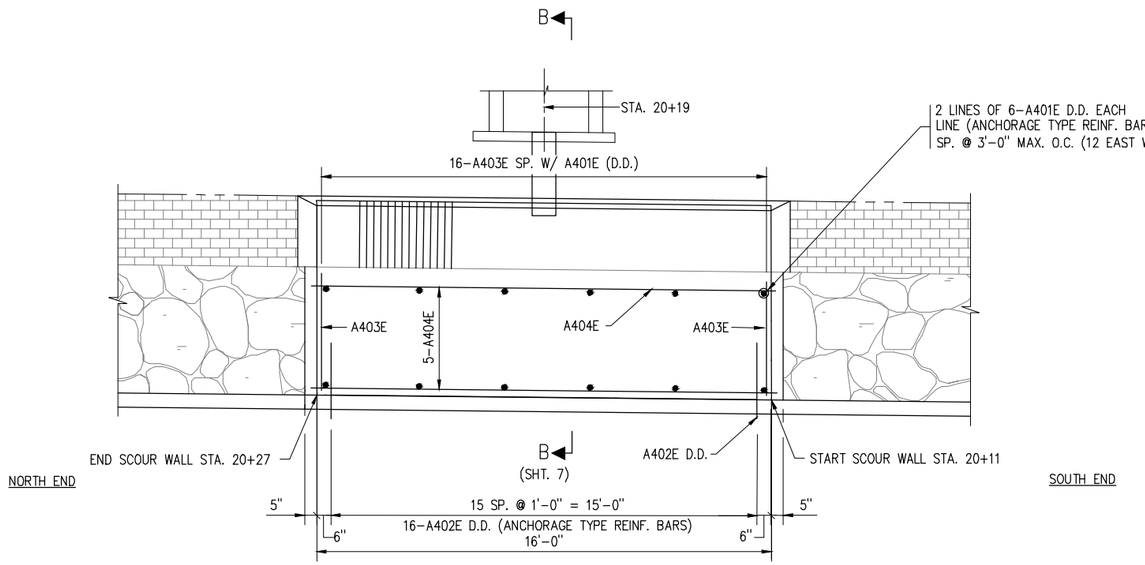
HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

REVISION
⚠ 11-12-2025

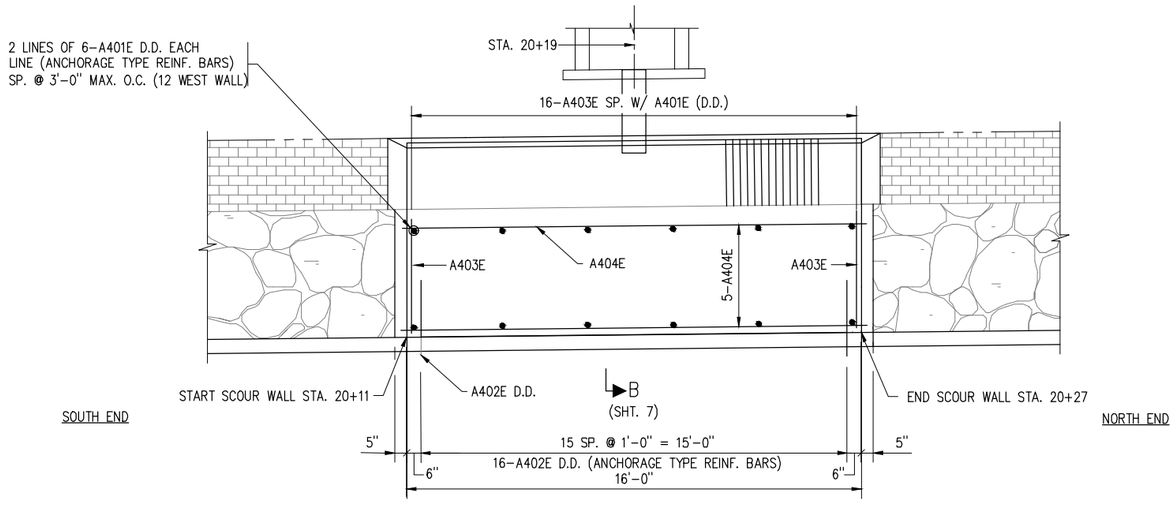
REPOINTING DETAILS

⚠ SHEET NO. 8 OF 26 SHEETS

PLOT DATE: 11/12/2025 9:22:41 AM FILE: C:\23Pro\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_8 Buckingham_Segment 2.dwg



PARTIAL CULVERT ELEVATION (EAST WALL)



PARTIAL CULVERT ELEVATION (WEST WALL)

NOTES:
1. B.F. = BACK FACE
   F.F. = FRONT FACE
   E.F. = EACH FACE
   D.D. = DRILLED DOWEL

LHB PROJECT NO. 230852

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CITY PROJECT NO. 2346

HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

REVISION
1 11-12-2025

BUCKINGHAM CREEK – REPAIR LOCATION 1

REPOINTING DETAILS

1 SHEET NO. 9 OF 26 SHEETS

PLOT DATE: 11/12/2025, 9:22:51 AM FILE: Q:\23Proj\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_9_Buckingham_Elevation.dwg

KEY NOTES:

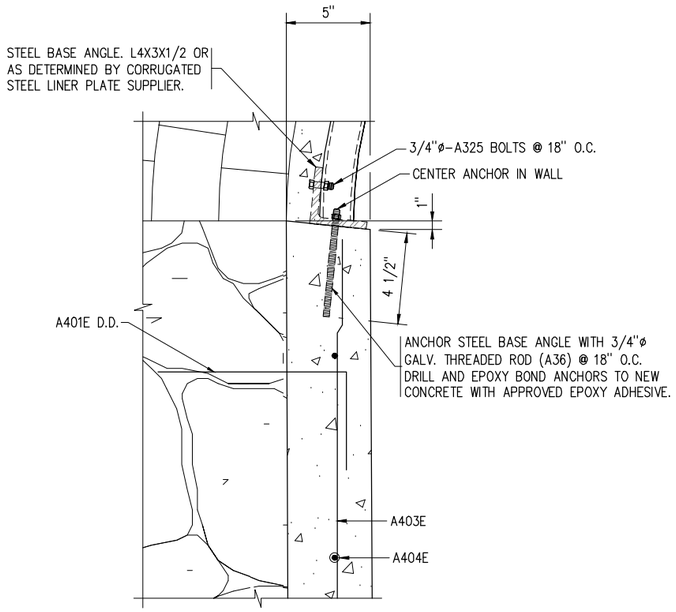
① WEIGHT OF BAR FOR ANCHORAGES TYPE REINF BARS NOT INCLUDED IN QUANTITY FOR ITEM "REINFORCEMENT BARS (EPOXY COATED)". PAYMENT FOR FURNISHING, DRILLING AND PLACING ANCHORAGES SHALL BE INCLUDED IN PRICE BID FOR "ANCHORAGES TYPE REINF BARS".

BILL OF REINFORCEMENT FOR SCOUR WALL

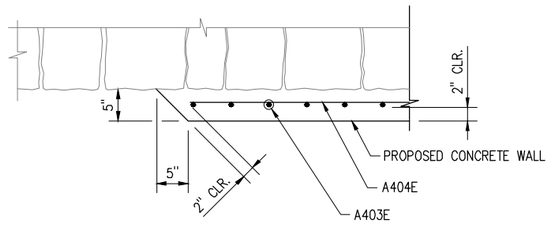
	BAR MARK	NO. OF BARS	NO. OF SERIES	LENGTH (FT.–IN.)	SHAPE	LOCATION
①	A401E	24		1'–7"	BENT	ANCHORAGES TYPE REINF BARS
①	A402E	32		2'–8"	STR	ANCHORAGES TYPE REINF BARS
	A403E	32		3'–10"	STR	WALL VERTICAL
	A404E	10		15'–4"	STR	WALL HORIZONTAL

NOTE:

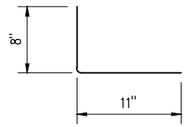
BENT BAR DIMENSIONS ARE OUT–TO–OUT. ACTUAL BAR LENGTHS SHALL BE DETERMINED BASED ON DETAIL DIMENSIONS SHOWN IN THE BAR BENDING DIAGRAMS.



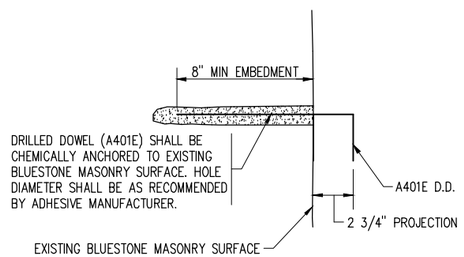
DETAIL "A" – STEEL BASE ANGLE



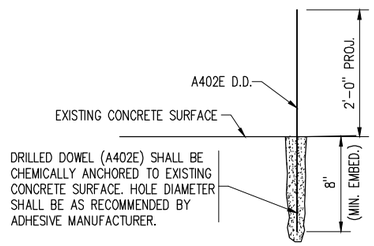
WALL TRANSITION DETAIL
(TYP. EACH END OF EACH WALL)



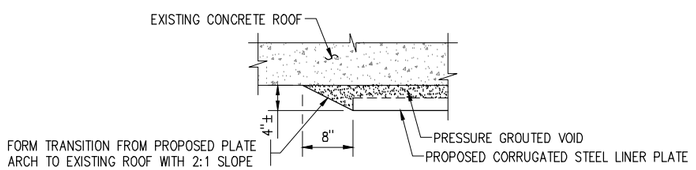
A401E



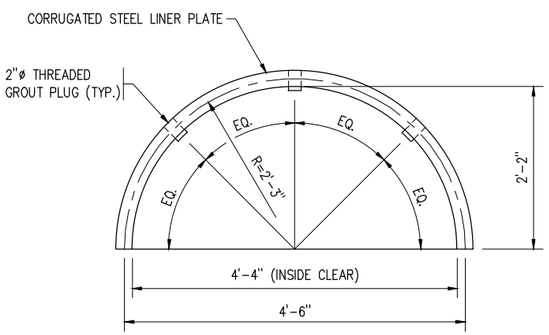
ANCHORAGES TYPE REINF. BARS – A401E



ANCHORAGES TYPE REINF. BARS – A402E



ROOF TRANSITION DETAIL
(TYP. EACH END)



CORRUGATED STEEL LINER PLATE
GALVANIZE PLATE AFTER FABRICATION PER MnDOT SPEC 3394

LHB PROJECT NO. 230852

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Christopher J. Miller — SIGNATURE

11/12/2025 — DATE

49840 — LIC. NO.

CITY PROJECT NO. 2346

HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

REVISION
⚠ 11–12–2025

BUCKINGHAM – REPAIR LOCATION 1

CONSTRUCTION DETAILS

⚠ SHEET NO. 10 OF 26 SHEETS

PLOT DATE: 11/12/2025 9:23:00 AM FILE: Q:\23Pro\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_10 Buckingham Details.dwg

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BUCKINGHAM CREEK – REPAIR LOCATION 1

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PRINTED NAME

Christopher J. Miller
SIGNATURE

11/12/2025
DATE

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HILLSIDE CULVERT TUNNEL REPAIRS PHASE 2

REVISION
1 11-12-2025

SHEET NOT USED

1 SHEET NO. 11 OF 26 SHEETS

PLOT DATE: 11/12/2025 9:23:10 AM FILE: Q:\23Proj\230852\500 Drawings\Structural\2025-2026 Construction (Revision 1)\230852_11_Buckingham_Segment 2_Roadway reconstruction.dwg