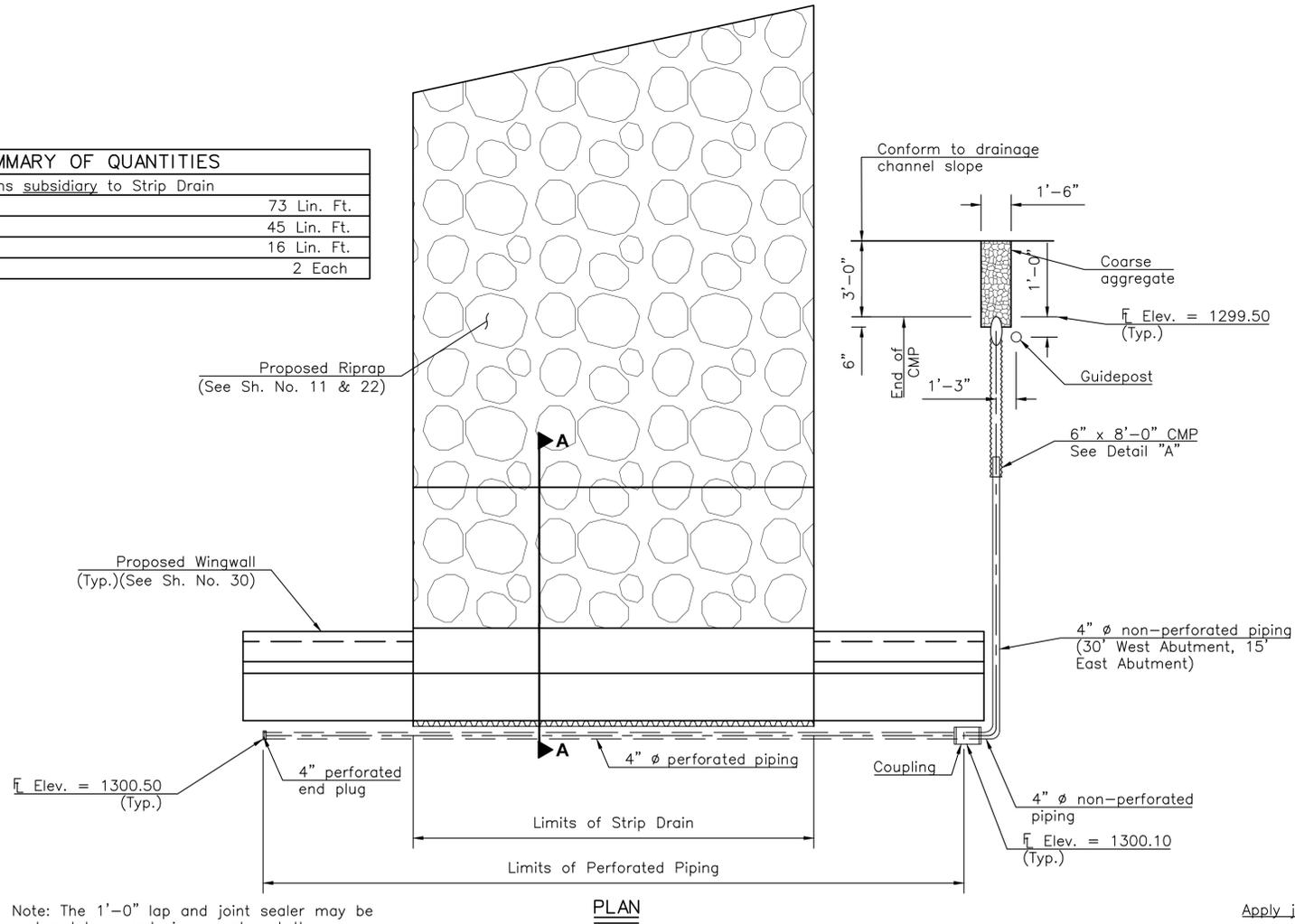
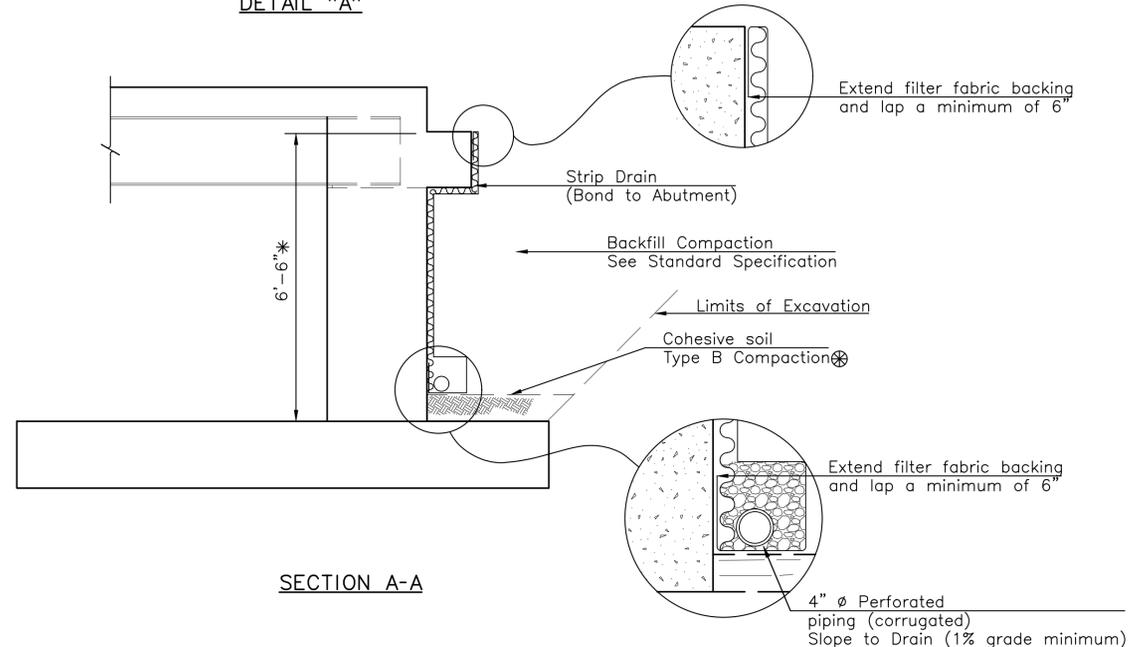
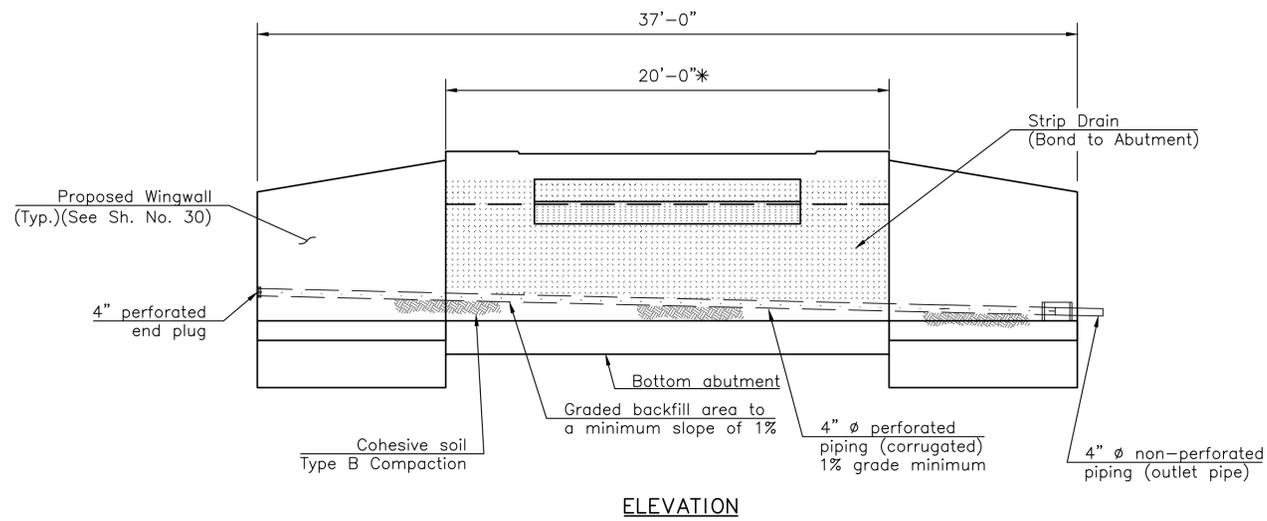


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 J:\PROJECTS\2023\230110\431_COW_WDG_BRIDGE REPLACEMENT AT 15TH STREET\100-230431_CAD\SHOTS\DWG_CIVIL\BRIDGE\230431_STRIP DRAIN DETAILS.DWG

SUMMARY OF QUANTITIES	
Items subsidiary to Strip Drain	
4" ϕ Perforated Pipe	73 Lin. Ft.
4" ϕ Outlet Pipe	45 Lin. Ft.
6" ϕ CMP	16 Lin. Ft.
Guide Post	2 Each



Note: The 1'-0" lap and joint sealer may be replaced by a reducing coupler at the junction of the CMP and the 4" round tubing.



GENERAL NOTES

ABUTMENT STRIP DRAIN: The Bridge Contractor shall excavate to the limits shown on the Bridge Excavation sheet, grade the bottom of the backfill area, place the strip drain, and place the perforated pipe, the outlet pipe, the CMP, and the backfill. Guide post and coarse aggregate are subsidiary to this bid item. Guide post and coarse aggregate are not required if the CMP empties onto riprap.

BRIDGE BACKWALL PROTECTION SYSTEM: Apply a Bridge Backwall Protective System to the approach side of the abutment and the wings in accordance with Specifications and the manufacturer's recommendations. Cover the abutments and wings to the limits shown on the details. Prior to backfilling, repair any damage down to the system at no charge to the state.

Place perforated pipe next to the strip drain. Use non-perforated pipe outside the limits of the strip drain. Enclose the perforated pipe with the extension of the filter fabric.

Compact the abutment backfill. Per the specifications.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing.

Fit the CMP end section with 1/4" galvanized mesh screen to prevent the entrance of rodents. Seal the joint between the outlet pipe and the end section with a joint sealer. Place coarse aggregate at the outlet end as shown.

Grade the bottom surface of the excavated area to drain. Backfill this area with a cohesive type soil. The soil should be a silty clay or clay under the Kansas Classification System with a minimum plasticity index of 13. Compact the material to Type B standards.

Place the outlet pipe on the downstream side of structures as shown.

Posts shall have a galvanized or baked enamel coating. Apply one coat of International Orange paint to the top 12" of the posts.

COHESIVE SOILS: Grade the bottom surface of the excavated area to drain as shown. Backfill this area with a cohesive type of soil. The soil will have a Unified Soil Classification of CL, CH, ML or MH according to ASTM D2487 Classification System with a minimum plasticity index of 13. Compact the material to Type A, MR-90 specifications. If the plasticity index cannot be met, add and mix Bentonite to the soil prior to placement and compaction so that the PI is Greater than or equal to 13.

* Limits of Bridge Backwall Protection System (by Bridge Contractor)
 ⊗ Subsidiary to the Abutment Strip Drain



IMPROVEMENT PLANS FOR
15TH STREET BRIDGE OVER THE
WICHITA DRAINAGE CANAL
 WICHITA, KS

ABUTMENT DRAINAGE DETAILS

PROJECT NO.
472-2023-085864

SCALE

DRAWN	DESIGNED	CHECKED
LWG	JRA	JRA

NO.	REVISION	DATE
0	ISSUED FOR CONSTRUCTION	8-1-2025

SHEET NO.
36 OF 114

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