COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
www.transportation.ky.gov/

Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

January 25, 2021

CALL NO. 301
CONTRACT ID NO. 211303
ADDENDUM # 1

Subject: CLAY COUNTY, FD04 SPP 026 0421 013-017
Letting January 29, 2021

(1)Added - Plan Sheets - Pages 12(a)-12(b) of 169

Proposal revisions are available at http://transportation.ky.gov/Construction-Procurement/.

If you have any questions, please contact us at 502-564-3500.

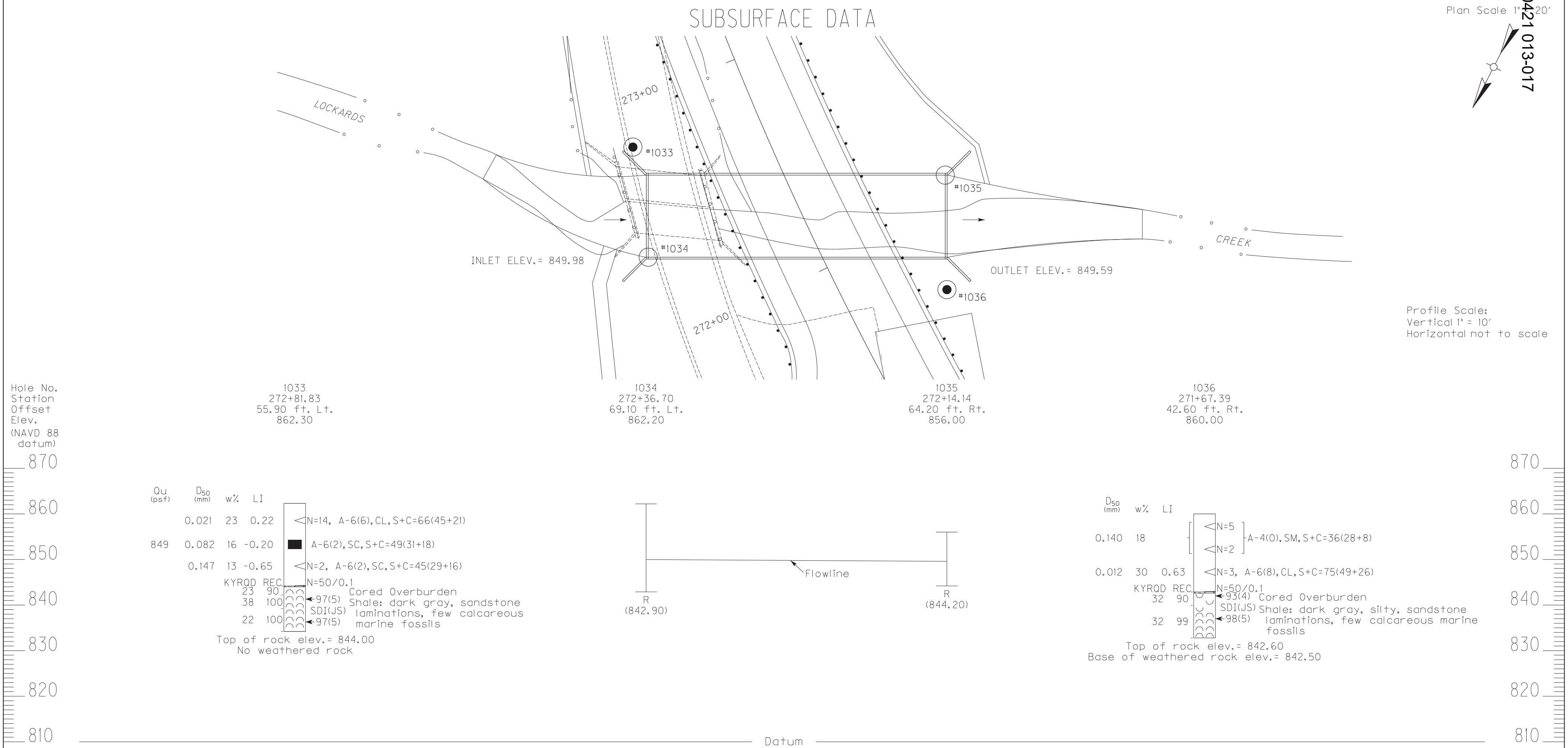
Sincerely,

Rachel Mills

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures

SUBSURFACE DATA



The Presumptive Factored Bearing Resistance at the Service Limit State is 20 ksf for Spread Footings on Competent Unweathered Bedrock

DATE: 21-OCTOBER-2014	CHECKED BY
DESIGNED BY:	
DETAILED BY: E. BAILEY	W. BROYLES

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY: CLAY

ROUTE: US 421 | CROSSING: 3–Sided Culvert Sta. 272+25.00

SUBSURFACE DATA

PREPARED BY: Division of Structural Design
GEOTECHNICAL BRANCH

DRAWING NO. 00000

S–094–14

ITEM NUMBER: 11–8003.00

SHEET 1 OF 1

ARCH STRUCTURE DETAIL

Clay County - US 421 - 3-Sided Arch Culvert @ Sta. 272+25

Spread Footings on Rock: The spread footings shall be founded on competent, unweathered bedrock. Size the footings at the service limit state using a presumptive factored bearing resistance of 20 ksf. Contact the geotechnical Branch for a more detailed analysis of the normal bearing resistance if the strength or extreme limit states control the footing design.

Embed the footings a minimum of one foot into unweathered bedrock. All footing excavations in bedrock shall be cut neatly so that no forming or backfilling is necessary in the construction portions of the footings located in rock. Concrete shall be placed directly against the cut rock faces. Mass concrete shall be placed in the excavation from the top of the footing to the bedrock surface where the footing does not extend to the bedrock surface.

If competent unweathered bedrock is encountered at higher elevations, the spread footings may be raised at the discretion of the Engineer unless otherwise noted by the Designer; however, one foot of embedment into unweathered bedrock must be maintained.

The footing steel and concrete should be placed as soon as practical after the footing excavation is made. If the bedrock becomes softened at bearing elevation, the softened material should be undercut to unweathered material prior to placing the concrete. Seasonal groundwater fluctuations may cause groundwater infiltration into the footing excavation, and a dewatering method may be necessary.

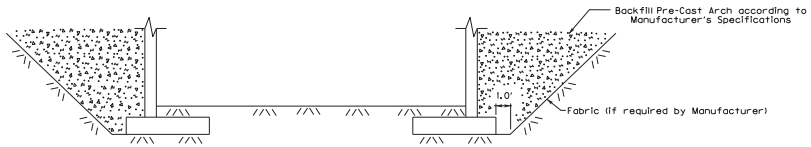
Backfill the pre-cast arch structure and the accompanying wingwalls in accordance with manufacturer's specifications.

The wingwalls should be designed using Soil Type 3 of Exhibit 413 in the Division of Structural Design Guidance Manual unless the manufacturer can show that the backfill material utilized meets the requirements of a different Soil Type. It should be noted that the backfill slope being referred to is that perpendicular to the wingwall.

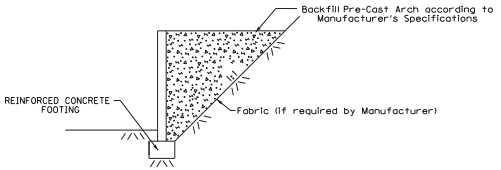
Temporary sheeting, shoring, cofferdams, and/or a dewatering method may be required for the installation of the structure and foundations.

A paved flowline is not required for this Structure.

Solid rock excavation will be required for the installation of this structure's spread footings.



CULVERT BARREL SECTION



WING WALL FOOTING

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PREPARED BY
Division of Structural Design
GEOTECHNICAL BRANCH

SHEET NO.: 0008

DRAWING: S-094-14

ITEM NUMBER: 11-8003.00

SHEET 1 OF 1

ADDED ADDENDUM #1: 1-25-21

SHEET LOCATION:
FILE NAME: $$$$design$file$specification$$$$
USERNAME: $$$$USER$$$$
DATE: $$$$DATE$$$$
E-SHEET NAME: