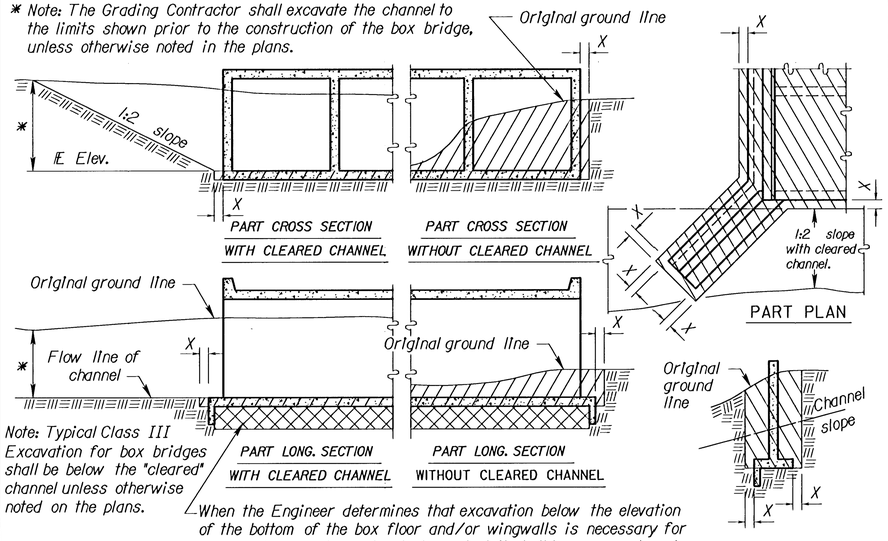
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0203-01	2003	23	48

* Note: The Grading Contractor shall excavate the channel to the limits shown prior to the construction of the box bridge, unless otherwise noted in the plans.



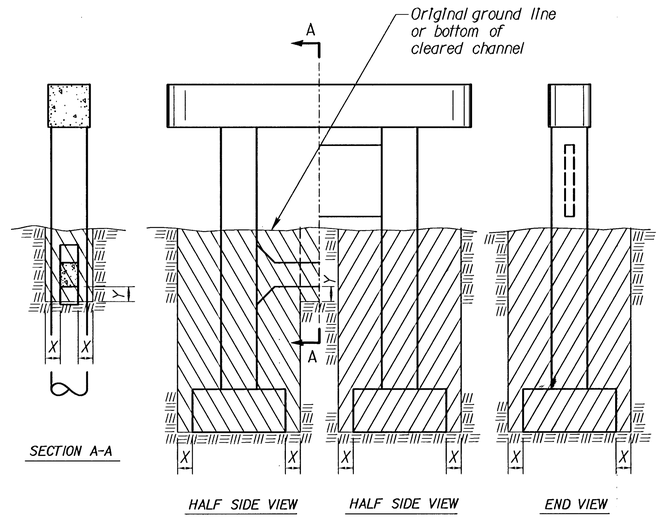
Note: Typical Class III Excavation for box bridges shall be below the "cleared" channel unless otherwise noted on the plans.

When the Engineer determines that excavation below the elevation of the bottom of the box floor and/or wingwalls is necessary for reasons beyond the contractor's control, it shall be measured and paid for as "Foundation Stabilization" as per the Standard Specifications.

SECTION THRU WING
(Toe wall excavation shall be subsidiary)

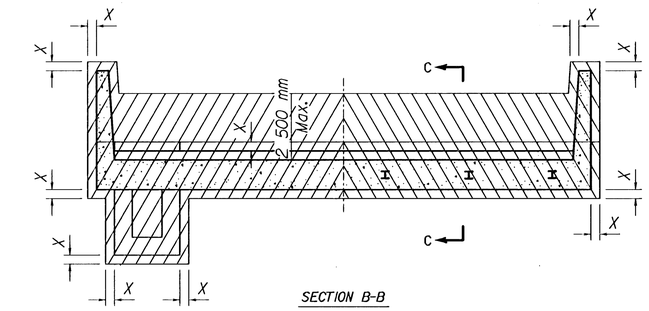
EXCAVATION DETAILS FOR REINFORCED CONCRETE BOX CULVERT

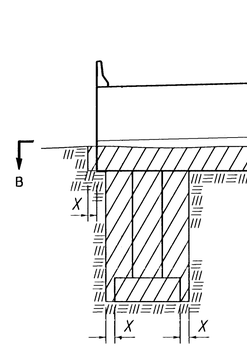
Note: Excavation for culverts less than bridge length shall not be paid for as Class III Excavation but shall be subsidiary to Grade 28 Concrete.



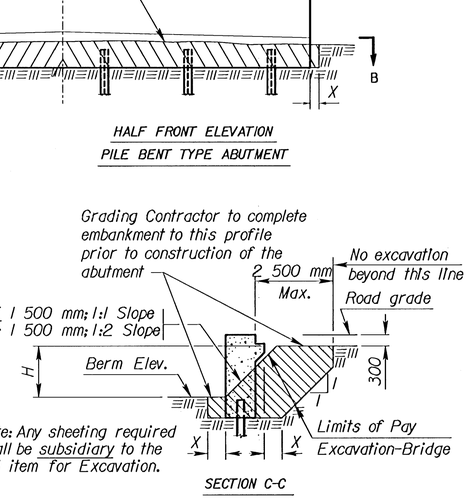
EXCAVATION DETAILS FOR TYPICAL PIERS

See detail when rock or shale (rock) is encountered. ⊛





Grading Contractor to complete embankment to this profile prior to construction of the abutment

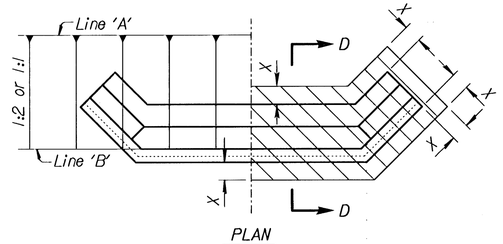


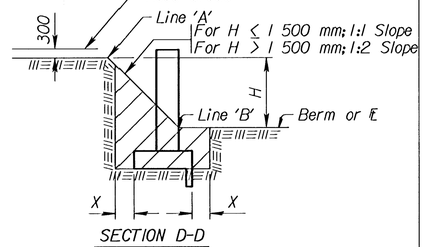
Note: Bridge Contractor shall finish the embankment and berms after the construction of the abutment and dispose of any excess material as approved by the Engineer.

Note: Any sheeting required shall be subsidiary to the bid item for Excavation.

EXCAVATION DETAILS FOR TYPICAL ABUTMENTS

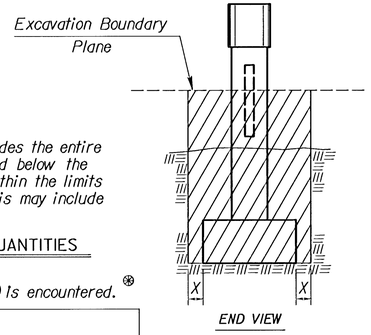
See detail when rock or shale (rock) is encountered. ⊛





(Toe wall excavation shall be subsidiary)

EXCAVATION DETAILS FOR ABUTMENTS WITH FLARED WINGWALLS



Note: Class II Excavation includes the entire volume of whatever nature found below the "Excavation Boundary Plane", within the limits specified for measurement. This may include water or air.

CLASS II EXCAVATION QUANTITIES

See detail when rock or shale (rock) is encountered. ⊛

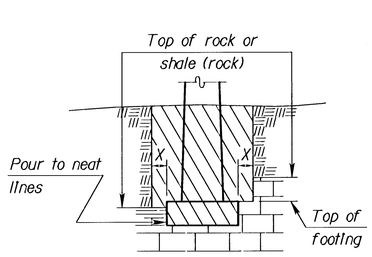
Note: Compute bridge excavation on the basis of the cross-hatch areas and boundary lines indicated on this sheet and the Excavation Boundary Plane on the Construction Layout.

When the trench is more than 1 500 mm in depth and 2 500 mm in length, shore, sheet, brace or otherwise support the sides of the trench in hard or compacted soil including embankments. In lieu of the shoring, the sides of the trench above the 1 500 mm level may be sloped to preclude collapse. The slope for average soils shall be 1:1. If the angle of repose of the soil is less, flatter slopes shall be required.

Note:
Class III Excavation will be subsidiary to Class AAA Concrete (AE). This sheet included for information only.

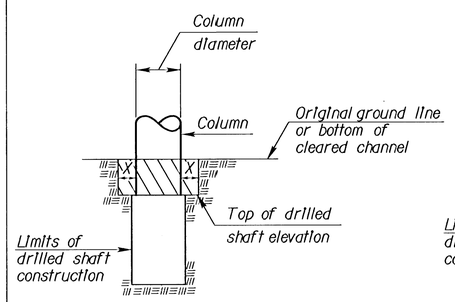
Dimension "X" shall be 600 mm unless indicated otherwise on the general plans.

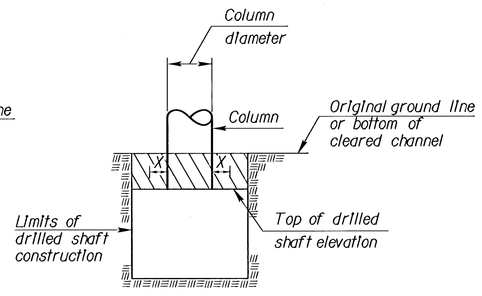
Dimension "Y" shall be 450 mm unless indicated otherwise on the general plans.



⊛ EXCAVATION DETAIL FOR FOOTINGS IN ROCK OR SHALE (ROCK)
(Piers and Abutments)

Note: Excavation below top of rock, hard shale or below top of footing, whichever is lower, shall be to neat lines of the concrete construction.





Note: Whenever the limits of the drilled shaft construction are greater than the Column Diameter + 2X, the limits of Class I, II, or III Excavation shall be the limits of the drilled shaft construction. (See Detail B)

DRILLED SHAFT DETAILS

NO.	DATE	REVISIONS	BY	APP'D
4	4-10-02	Added 'Foundation Stab.' Note	RAM	KFH
3	3-19-02	Concrete from Class to Grade	RAM	KFH
2	8-12-95	Correct Section BB at abutment	LRR	KFH
1	1-30-95	Drilled Shaft Excavation	LRR	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

BRIDGE EXCAVATION

~~BRIOO SI~~

FHWA APPROVAL		4-19-02	APP'D	KENNETH F. HURST
DESIGNED	DETAILED	JK	QUANTITIES	CADD
DESIGN CK.	DETAIL CK.	LRR	QUAN. CK.	CADD CK.

Std. Base File: br100si.dgn
Plotted By: mark
Plot Location: $$KDOTSRPB
File: g:\CIVIL\01079\DGN\br100si.dgn
Plot Date: 07/27/03