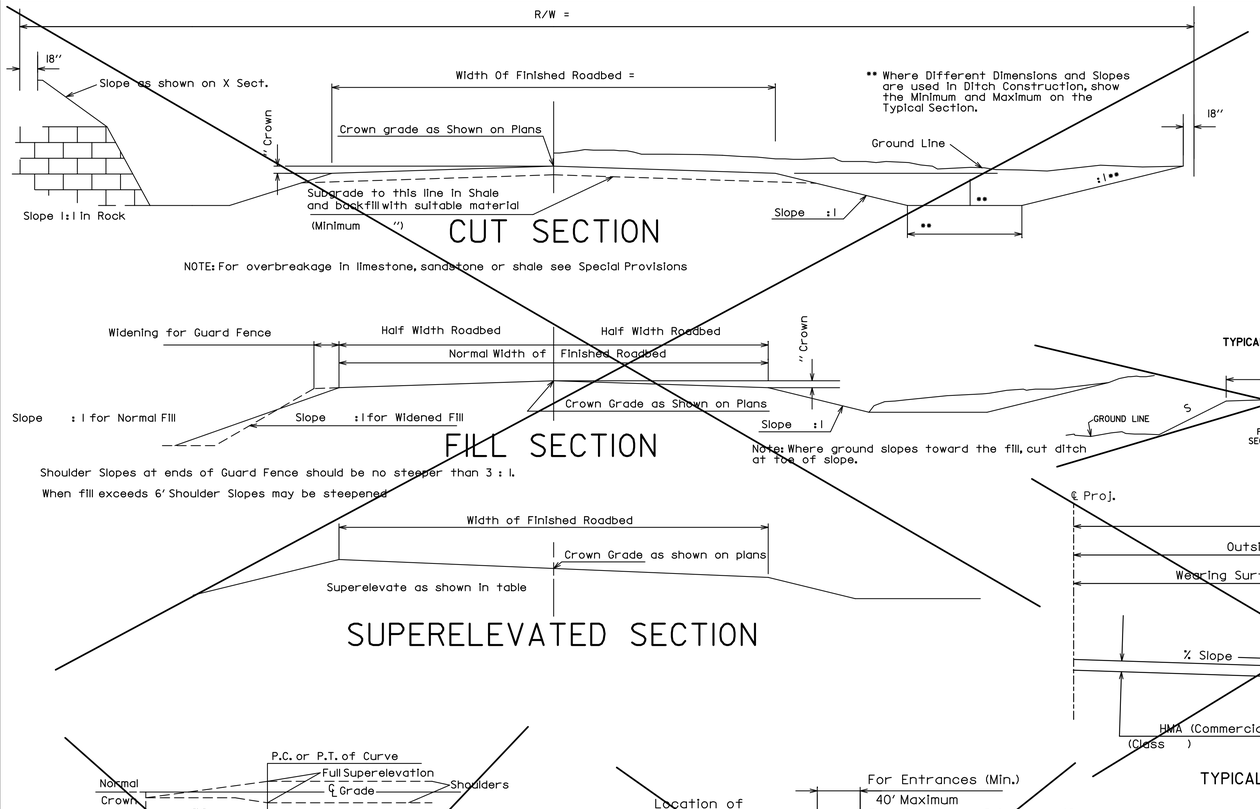
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84834	2009	15	19



CUT SECTION

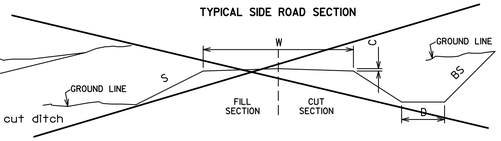
NOTE: For overbreakage in limestone, sandstone or shale see Special Provisions

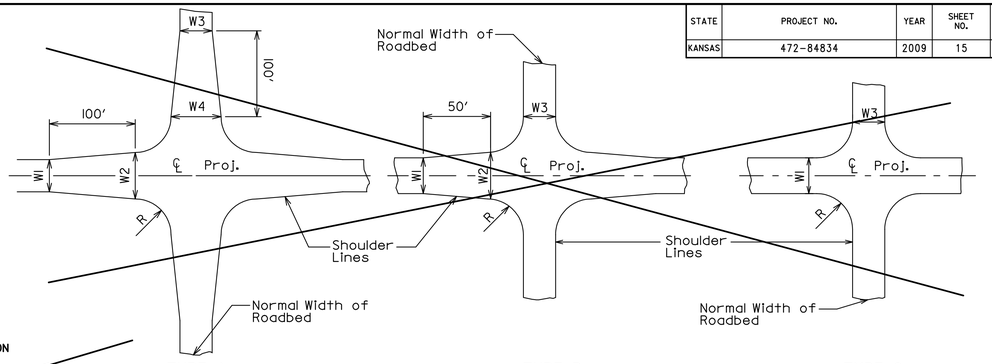
FILL SECTION

Shoulder Slopes at ends of Guard Fence should be no steeper than 3 : 1.

When fill exceeds 6' Shoulder Slopes may be steepened

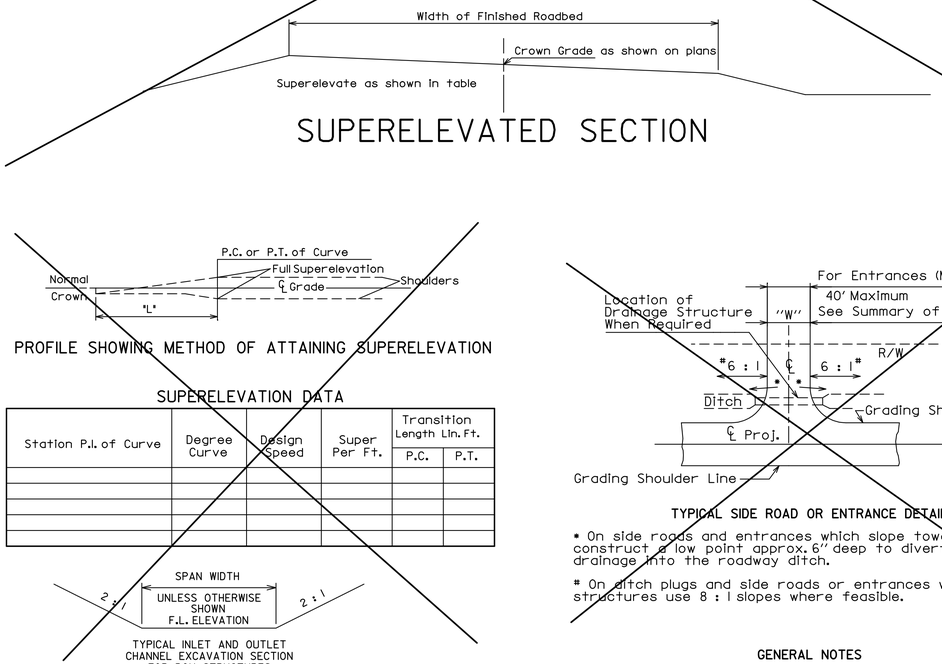
Note: Where ground slopes toward the fill, cut ditch at toe of slope.



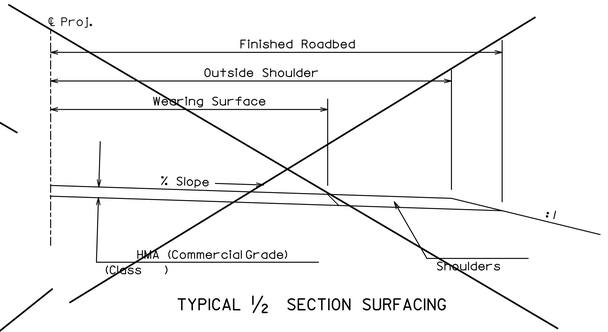


TYPE-A TYPE-B TYPE-C

TYPICAL INTERSECTION DETAILS



SUPERELEVATED SECTION



TYPICAL 1/2 SECTION SURFACING

SUMMARY OF INTERSECTIONS AND SIDEROADS

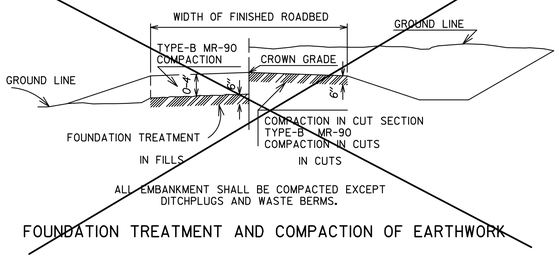
STATION	SIDE OR QUADRANT	TYPE	W	WI	W2	W3	W4	R	C	S	D	BS

PROFILE SHOWING METHOD OF ATTAINING SUPERELEVATION

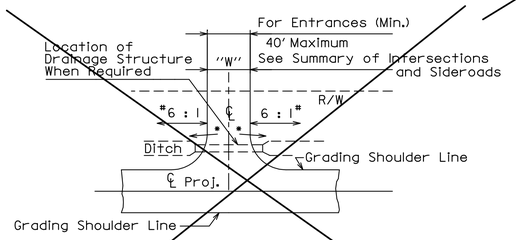
SUPERELEVATION DATA

Station P.I. of Curve	Degree Curve	Design Speed	Super Per Ft.	Transition Length Lin. Ft. P.C.	Transition Length Lin. Ft. P.T.

TYPICAL INLET AND OUTLET CHANNEL EXCAVATION SECTION FOR BOX STRUCTURES & PIPE CULVERTS



FOUNDATION TREATMENT AND COMPACTION OF EARTHWORK



TYPICAL SIDE ROAD OR ENTRANCE DETAIL

* On side roads and entrances which slope toward the roadway, construct a low point approx. 6" deep to divert surface drainage into the roadway ditch.

On ditch plugs and side roads or entrances without drainage structures use 8 : 1 slopes where feasible.

GENERAL NOTES

All signs shown on the plans, and other signs furnished and installed by the County with their own forces and funds will be installed in conformance with the Manual of Uniform Traffic Control Devices (latest edition).

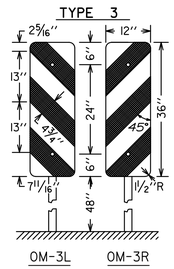
County to furnish all easements and additional right of way (unless otherwise noted).

Owners will move and adjust public and private utility facilities as necessary to fit the new construction unless noted otherwise on the plans or in the proposal.

Consider stations shown for all drainage structures as approximate only. The Project Engineer will be responsible to place all structures in locations that fit the natural drainage and meet the grade requirements.

Cut channels at all box structures (except where otherwise noted) to flowline elevations and to a width of 2' outside of each outside wall and with slopes 2 : 1 prior to installation or construction of box structure. Excavation and embankment required for this work are included in the earthwork quantities.

OBJECT MARKER



Furnish 5/16" x 2 1/4" SF Truss Head or Round Head Machine Screw STEEL Bolts with Plain Washer STEEL on front and 5/16" Reg. SF Hex NutSTEEL with Light Lock Washer STEEL on back. 12" x 36" Steel Blank (16 Ga. Metal)

Install Object Markers Type OM-3(R)(L) at all span bridges and when indicated on the plans at box structures. Install with the inside edge of the marker in line with the inside clearance line of the structure. Install an object marker retroreflectorized on one side on both left and right sides of each end of a structure.

Mount object markers on 11' galvanized flanged channel posts (2 lbs./ft.) punched with 3/8" diameter holes on 1" centers for the top 4'.

Pay for Object Markers directly.

All items of fastening accessories will be zinc or cadmium plated. The machine screws, nuts, and washers will comply with the current Standard Specifications for State Road and Bridge Construction. All sign blanks will have rounded corners.

SUMMARY OF OBJECT MARKERS AND SIGNS

STATION TO STATION	SIDE	TYPE OF STRUCT.	TYPE OF SIGN	OBJECT MARKER TYPE	OBJECT MARKER NO.	REMARKS
1+56.34	Lt	Bridge	Type 3	OM-3L	1	Ø
1+56.34	Rt	Bridge	Type 3	OM-3R	1	Ø
2+51.75	Lt	Bridge	Type 3	OM-3L	1	Ø
2+51.75	Rt	Bridge	Type 3	OM-3R	1	Ø
Ø As you face bridge end from approach						
*Back-to-Back [Sign(s) on Both Sides of Post]						

NO.	DATE	REVISIONS	BY	APP'D
6	11-9-04	Changed 'Culvert' to 'Structure'	DMK	RJS
5	12-1-03	Rem. Delin.'s/Add Typ. Sect./Changed OM notes	DMK	RJS
4	5-14-03	Rev. Contractor note in Gen. Notes	DMK	RJS

KANSAS DEPARTMENT OF TRANSPORTATION

TYPICAL GRADING SECTION

~~LPS07~~

FHWA APPROVAL	12-06-04		APP'D	RJS	
DESIGNED	DETAILED	DMK	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	RJS	QUAN.CK.	TRACE CK.	

PROG. FROM BR.NO. DESIGN

	DESIGN	DETAIL	QUANTITIES	TRACED	RETRACED
PROJ.	DATE	DATE	DATE	DATE	DATE
CO. CHECK	DATE	DATE	DATE	DATE	DATE

Drawn By : rlm
File : i:\2009\09430\office check\09430-lp907.dgn
Plotted : 11/9/2009

Sh. No. 15