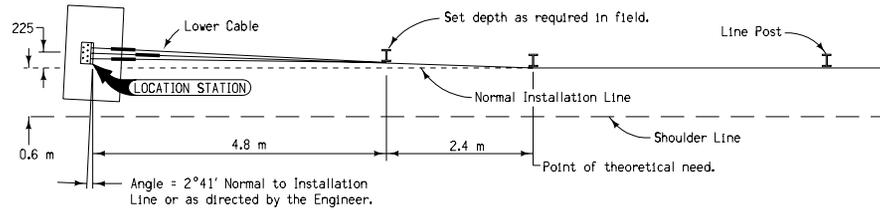
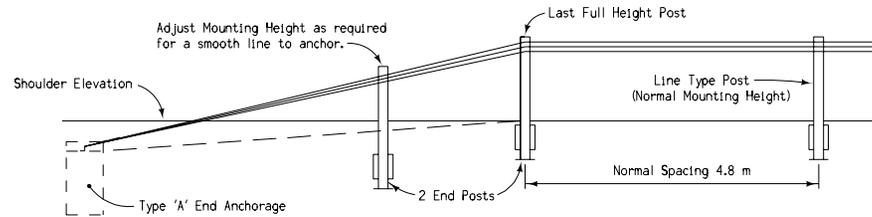


Anchor shall be cast in place with \perp normal to line of guardrail. Excavation for anchor shall be to the neat lines indicated. Forms will be allowed only for the ends (the 600 mm dimension) of the anchor.



PLAN - 7.2 m ANCHORAGE SECTION



ELEVATION - TYPE 'A' END ANCHORAGE

Turnbuckles shall be of the open type and shall each provide for a minimum takeup of 300 millimeters.

The spring type compensating device is installed to maintain cable tension for various temperature conditions. This device shall provide for 125 millimeters minimum travel and have a spring rate of 80+ 10 newtons per millimeter. Turnbuckles are used to pretension each cable to the proper tension, depending on the temperature at the time of adjustment. The spring compression adjustments for various temperatures are listed in a table on this plan.

Turnbuckles and compensating devices shall each be equipped with adequate and proper bolts and fittings (to provide for use separately or in combination) to connect the guardrail cable to the end anchorage.

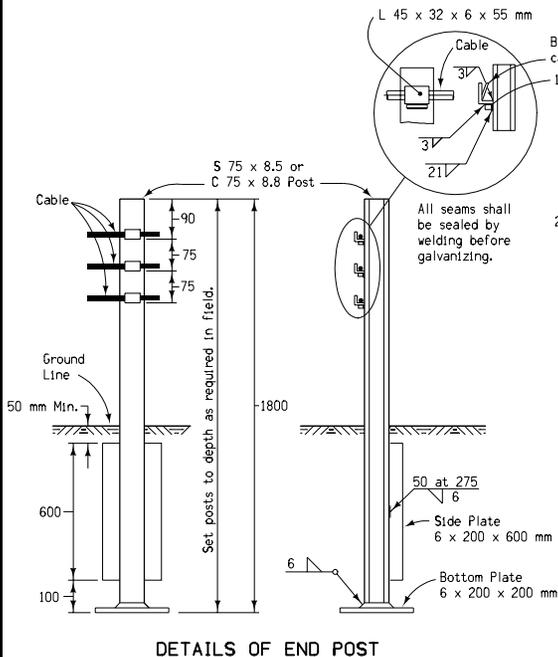
List of materials for the RE-29A Type Φ A Φ End Anchorage:

- 1 Anchor Angle and Hardware
- 0.9 cubic meters concrete
- 27 kilograms of reinforcing steel (approx.)
- 3 Cable End Assemblies

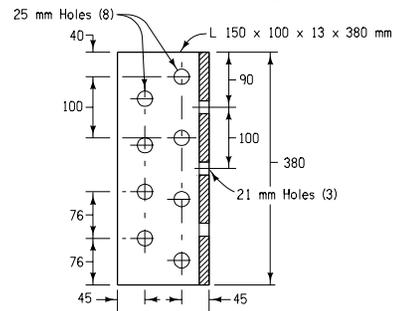
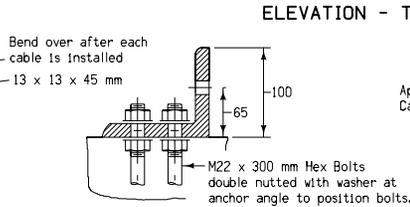
Contract Items:

- Installation of Guardrail
- Guardrail, End Anchorage, Cable, RE-29A

Tabulation: 108-9



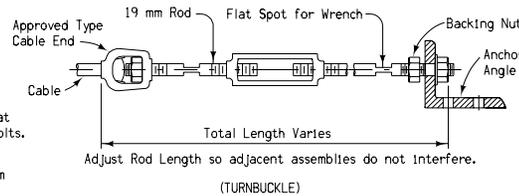
DETAILS OF END POST



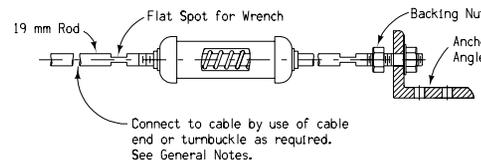
ANCHOR ANGLE

CABLE TENSION ADJUSTMENTS FOR TEMPERATURE VARIATIONS														
Temperature Range Degrees Celsius	T > 43	> 38	> 32	> 27	> 21	> 16	> 10	> 4	-1 > T	-7 > T	-12 > T	-18 > T	-23 > T	
Spring Compression mm*	25	32	38	44	51	57	64	70	76	83	89	95	102	108

* From the unloaded position in each spring



TYPICAL CABLE END ASSEMBLY



TYPICAL CABLE END ASSEMBLY

All dimensions given in millimeters unless noted.

M	Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN RE-29A	
	REVISION: Clarify bending of cable brackets and remove information already in the Specifications book.	REVISION NO. 11
	APPROVED BY DESIGN METHODS ENGINEER <i>Deanna Marfeld</i>	REVISION DATE 04-18-06
TYPE 'A' END ANCHORS FOR CABLE GUARDRAIL		