

Footing Cantilever Design No.	DIMENSIONS		BILL OF REINFORCING																		Class AAA Concrete	Reinforcing Steel	Excavation
			14 P1 bars		10 P2 bars		7 u1 bars		7 u2 bars		44 f1 bars		1 t1 bar		1 t2 bar		1 t3 bar		18 t4 bars				
	Lf	Wf	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.	Size	Lgth.			
1 & 2	10'-3"	10'-3"	#8	11'-8"	#8	11'-8"	#8	13'-9"	#8	15'-1"	#5	9'-9"	#4	12'-6"	#4	15'-6"	#4	18'-6"	#4	21'-6"	14.7 Cu.Yds.	2025 lbs.	83 Cu.Yds.
3 & 4	11'-9"	11'-9"	#10	12'-2"	#9	12'-0"	#10	13'-9"	#10	15'-1"	#6	11'-3"	#4	12'-6"	#4	15'-6"	#4	18'-6"	#4	21'-6"	17.1 Cu.Yds.	3045 lbs.	101 Cu.Yds.
5, 6, & 7	12'-6"	12'-6"	#11	12'-4"	#10	12'-2"	#11	13'-9"	#11	15'-1"	#7	12'-0"	#5	12'-6"	#5	15'-6"	#5	18'-6"	#5	21'-6"	18.5 Cu. Yds.	4045 lbs.	111 Cu.Yds.

Note: Quantities shown are for estimating purposes only.
The excavation is an approximation based on loose material.

GENERAL NOTES

LOADING: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1975 Edition.

CONCRETE: Use Class AAA concrete throughout. Bevel all exposed edges with a $\frac{3}{4}$ " triangular molding.

UNIT STRESSES: $f_c = 4,000$ psi; $f_t = 40,000$ psi; $f_s = 20,000$ psi

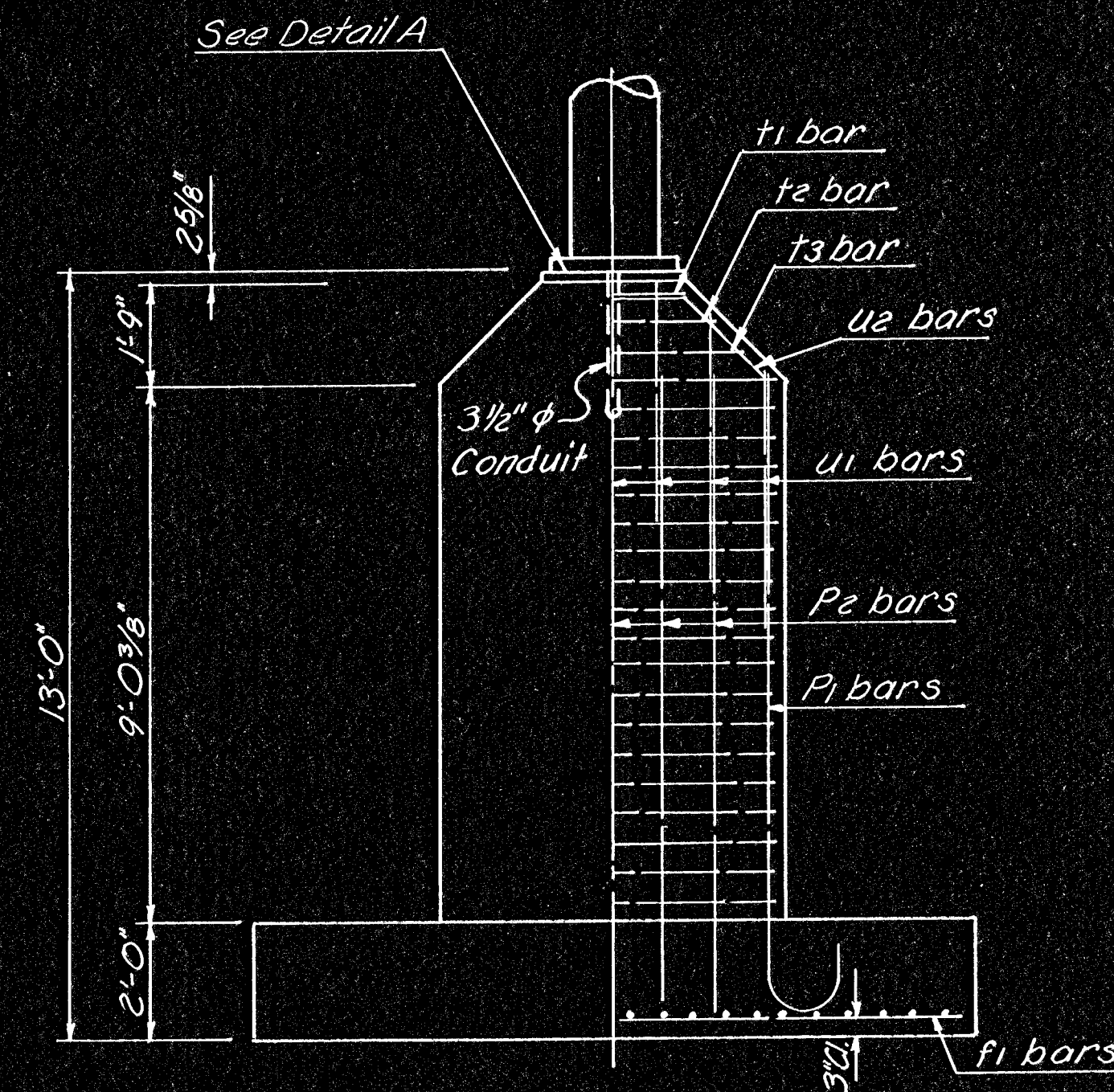
REINFORCING: All dimensions relative to reinforcing steel are to center line of bar unless otherwise noted.

EXCAVATION: When rock or shale is encountered, all excavation below the top of this material shall be to neat lines. See excavation details.

BACKFILL: Backfill material shall be placed in one foot lifts and each lift shall be thoroughly compacted before the next lift is placed.

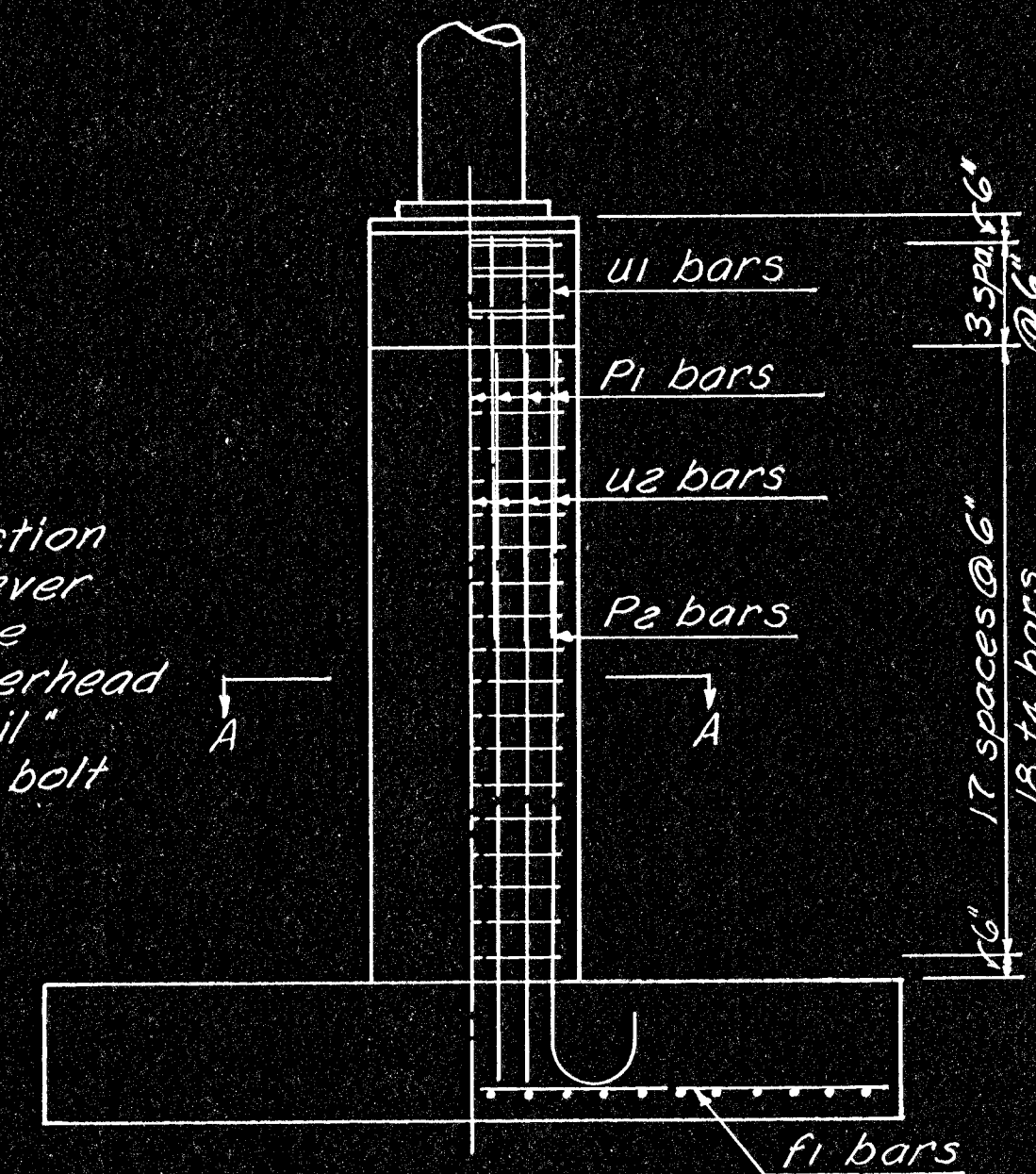
ANCHOR BOLT ASSEMBLY: Anchor bolts shall conform to K.S.H.C. Standard Specifications Sub-Section 1006.13 and shall be Type II. Angles and plates shall conform to ASTM A36. Welding shall conform to K.S.H.C. Standard Specifications and the latest edition of the American Welding Society Specifications.

PAYMENT: The cost of all material and labor needed to construct its footing shall be included in the unit price bid for each Cantilever Type Overhead Sign Support.

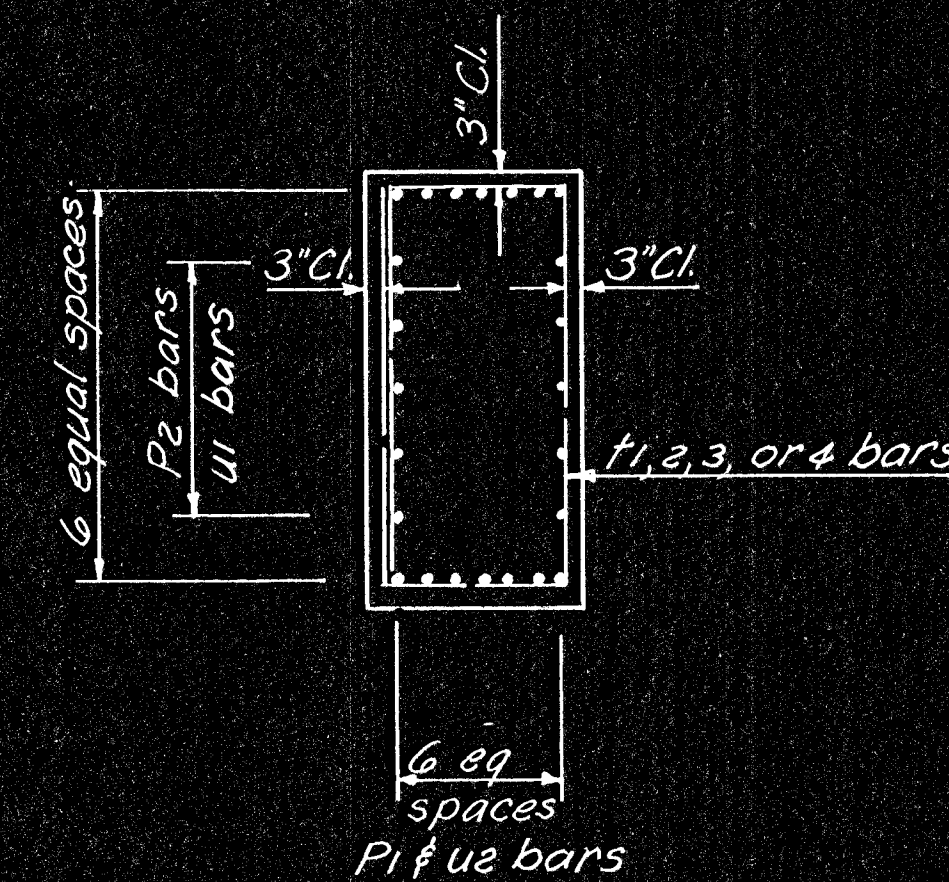


SIDE ELEVATION

Note: See "Construction Layout" for cantilever support design. See "Cantilever Type Overhead Steel Support Detail" sheets for anchor bolt size "d" and "BC".



END ELEVATION

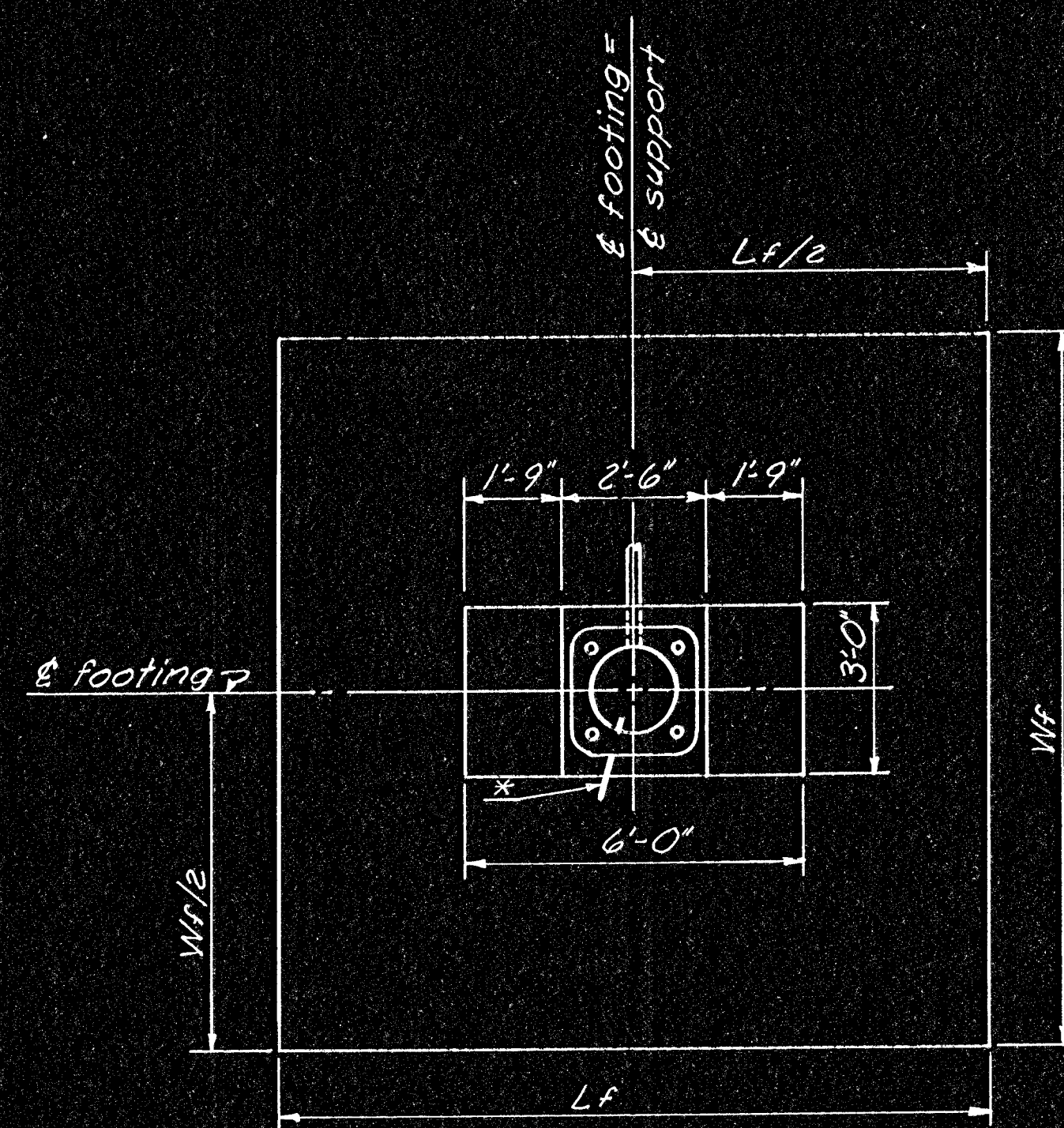


SECTION A-A

Table for P bars			
Size	A	J	L
#8	11"	8"	10'-9"
#9	1'-3"	11 1/4"	10'-9"
#10	1'-5"	1'-0 3/4"	10'-9"
#11	1'-7"	1'-2 1/4"	10'-9"

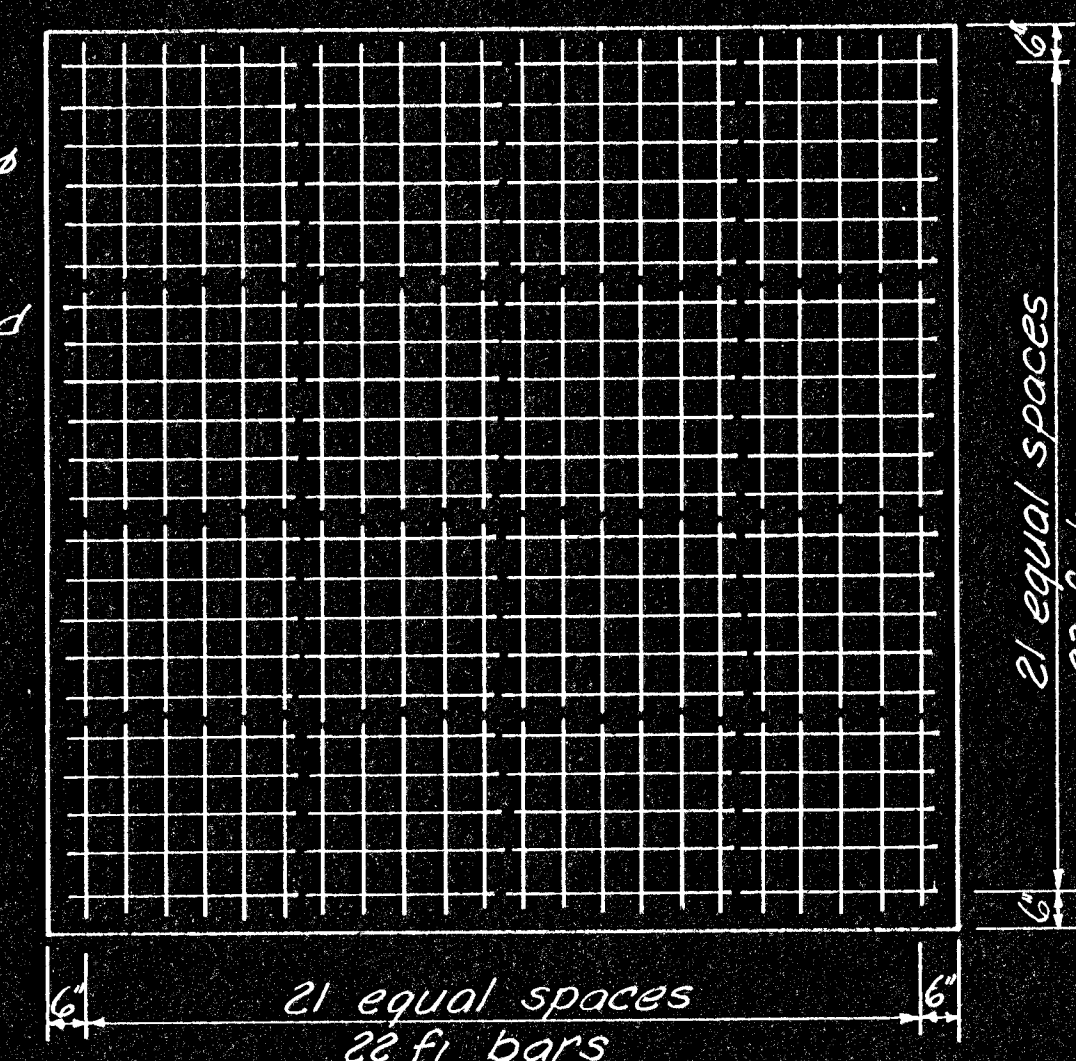


Side Elev. End Elev.
TYPICAL EXCAVATION DETAILS

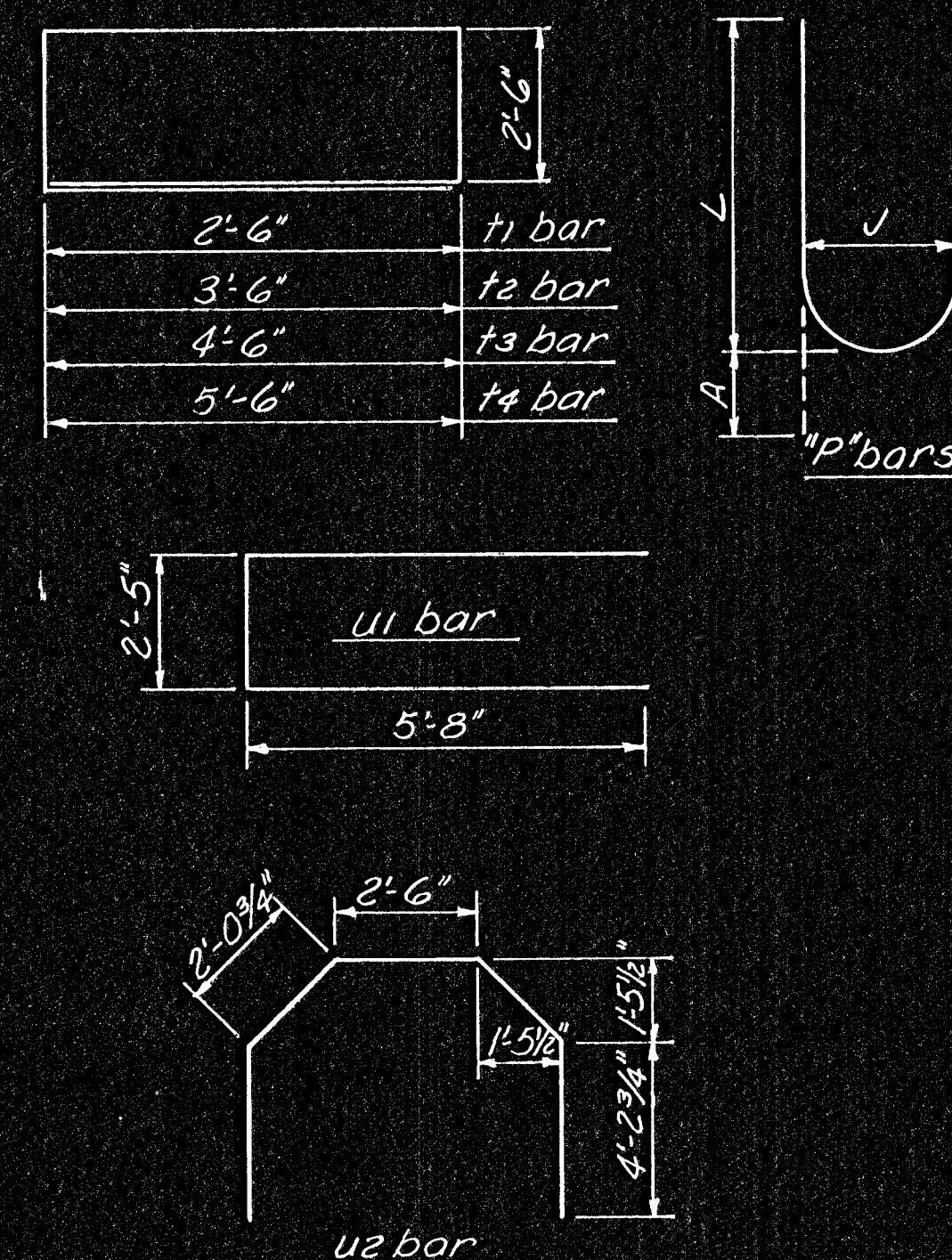


FOOTING PLAN

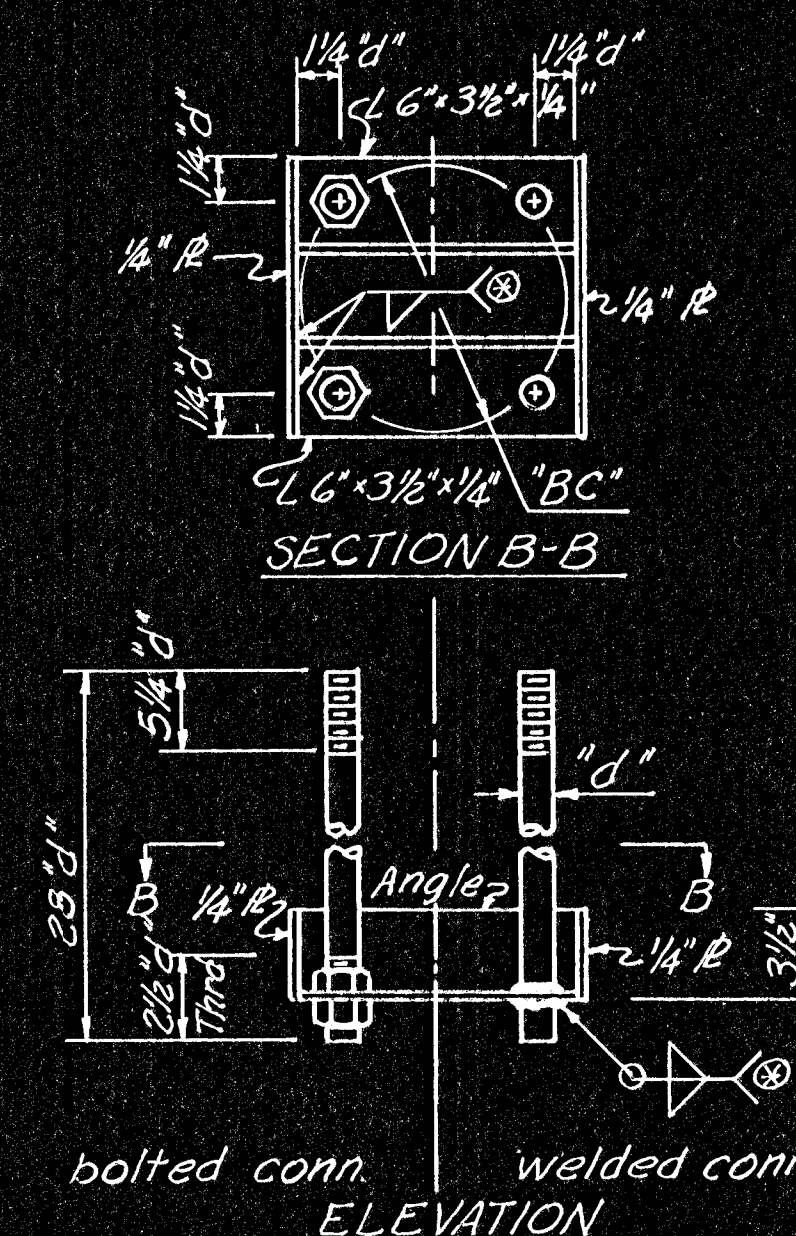
*To form a drain at the support, a $\frac{3}{8}$ " greased rod shall be placed in the grout and removed after grout has taken set.



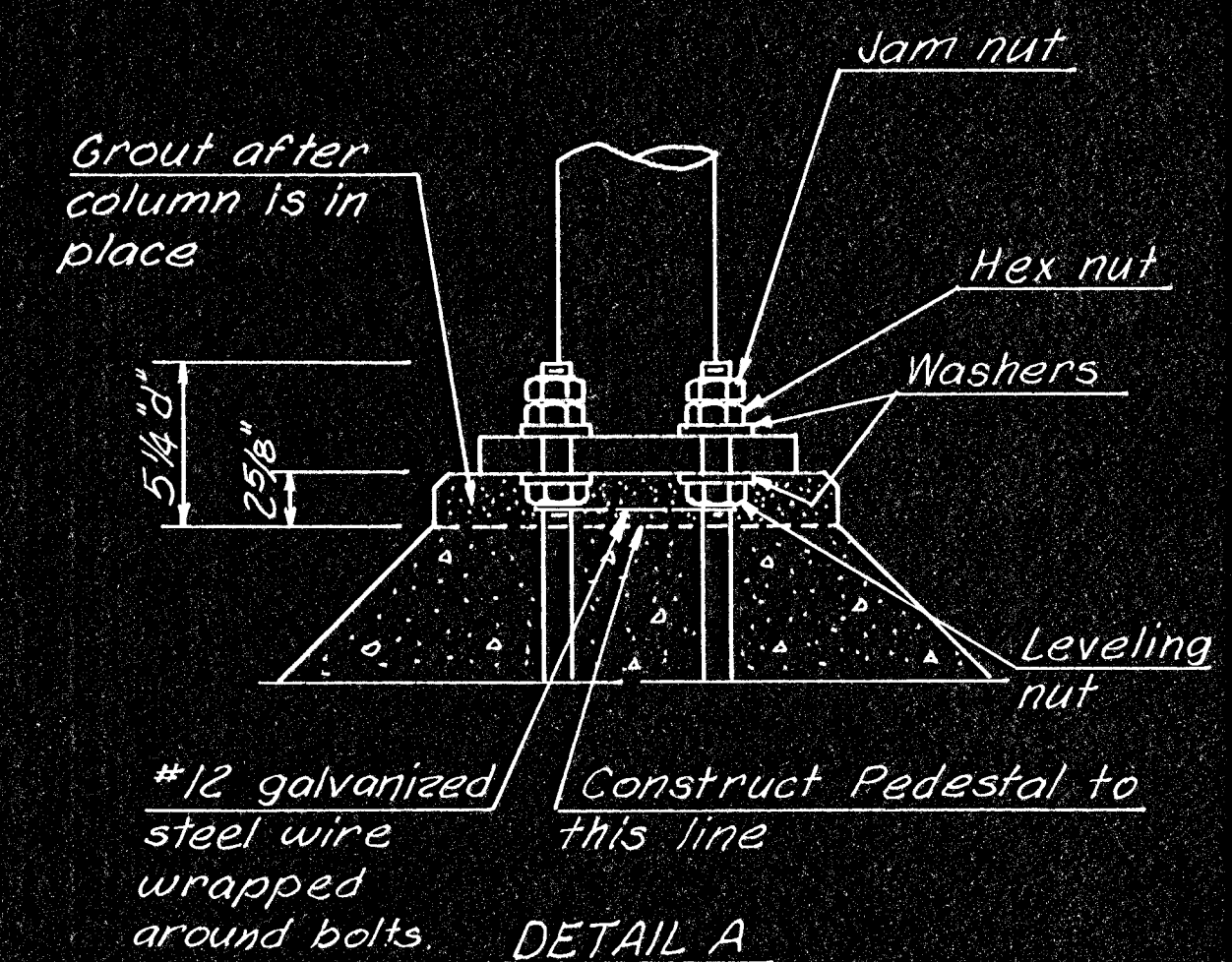
FOOTING PLAN
(showing reinforcing)



BENDING DIAGRAM
All dimensions are out to out



ANCHOR BOLT ASSEMBLY DETAIL
① 1/4" weld - typ.



NO.	DATE	REVISIONS	BY	APP'D
1				
2				
3				

DEPARTMENT OF TRANSPORTATION-KANSAS

STANDARD STRUCTURAL SIGN SUPPORTS
CANTILEVER TYPE OVERHEAD
FOOTING DETAILS

8-75

DESIGNED	LES	APP'D	LES
CHECKED	DRE	QUAN.	DRE
DESIGN	CK	DETAIL	CK
DESIGN	CK	DETAIL	CK