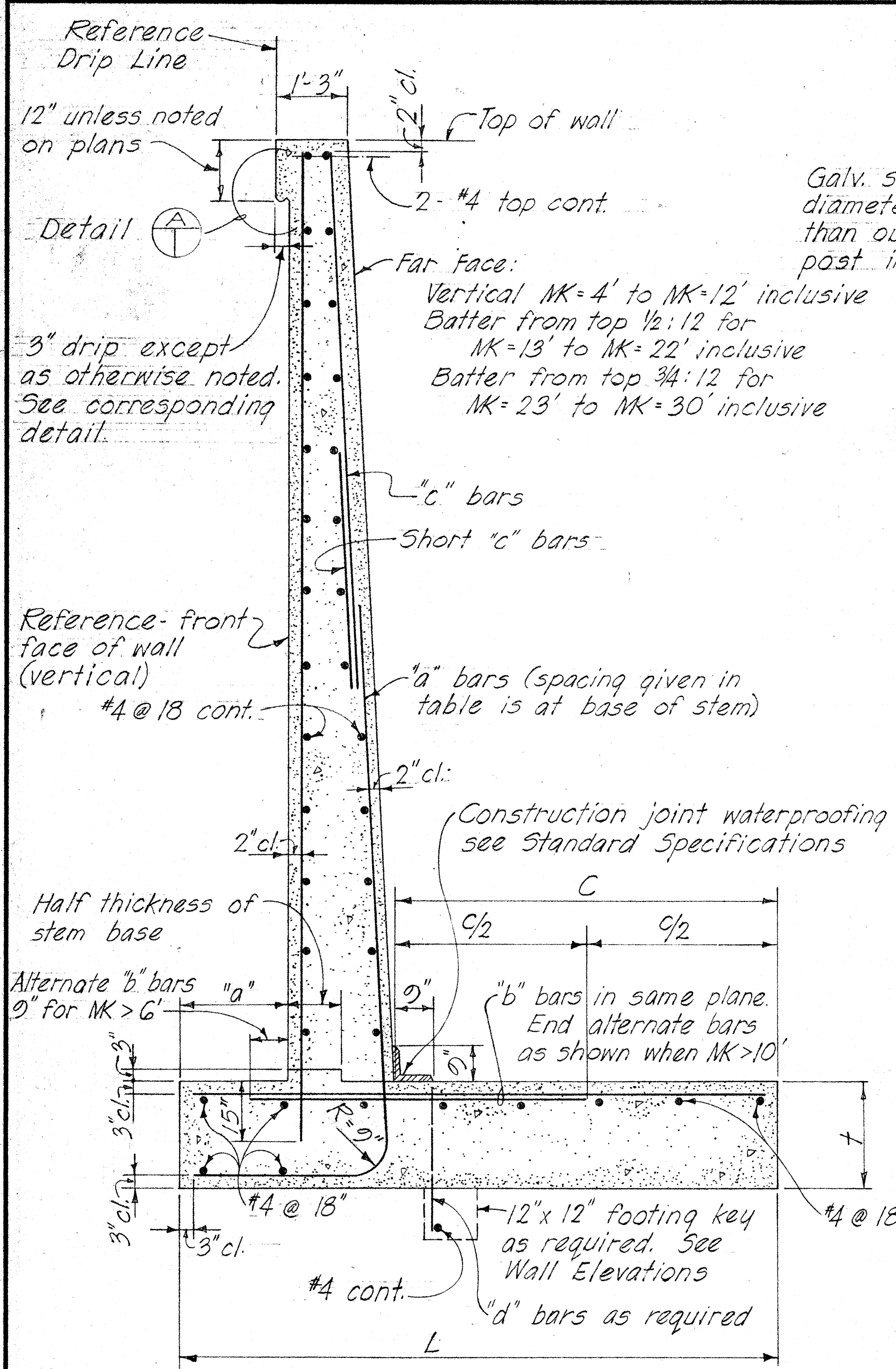
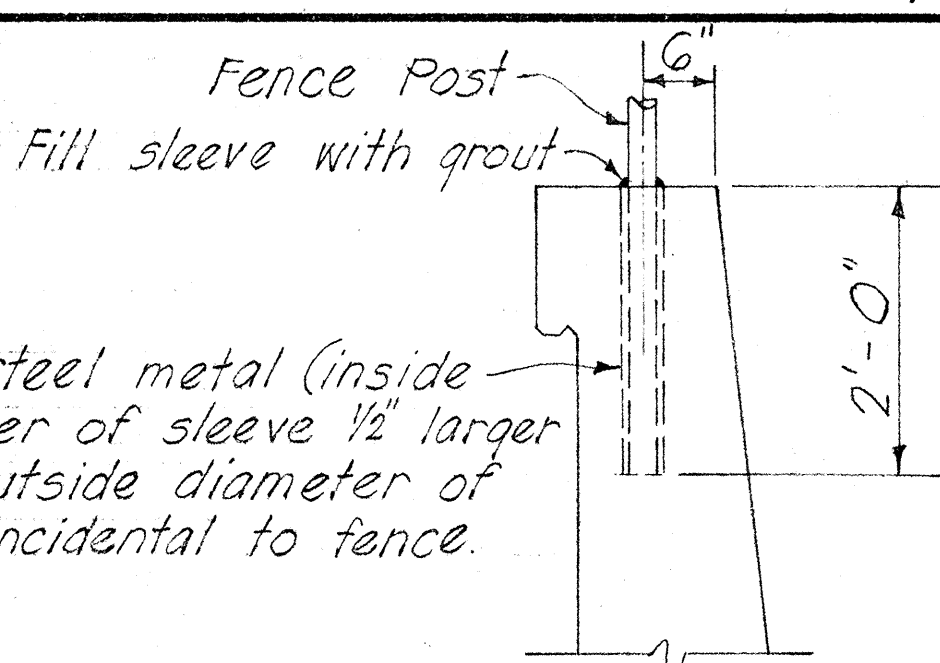




WALL SECTION

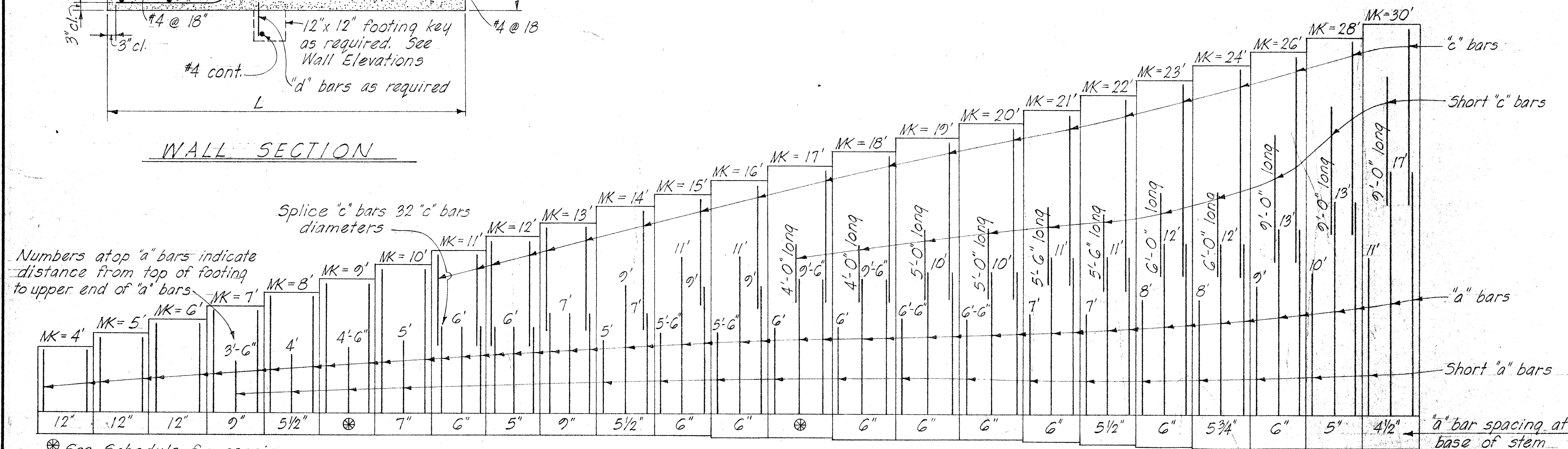


CHAIN LINK FENCE POST DETAIL

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

Maximum "MK"	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E	17E	18E	19E	20E	21E	22E	23E	24E	26E	28E	30E
a	6"	6"	6"	12"	12"	12"	12"	12"	12"	12"	15"	18"	21"	24"	24"	24"	27"	30"	33"	36"	39"	54"	60"	72"
t	14"	14"	14"	14"	14"	14"	14"	18"	18"	18"	18"	18"	21"	21"	24"	24"	24"	27"	30"	31"	33"	36"	39"	42"
L	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'	6.0'	6.5'	7.0'	7.75'	8.25'	9.0'	9.75'	10.5'	11.5'	12.5'	13.5'	14.5'	15.25'	16.0'	18.0'	20.0'	21.0'
"a" bars	#3 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 9"	#4 @ 5 1/2"	#5 @ 7"	#6 @ 7"	#6 @ 6"	#6 @ 5"	#7 @ 7"	#6 @ 5 1/2"	#7 @ 6"	#8 @ 6"	#8 @ 5 3/4"	#9 @ 6"	#9 @ 6"	#10 @ 6"	#10 @ 6"	#10 @ 5 1/2"	#10 @ 6"	#10 @ 5 3/4"	#11 @ 6"	#11 @ 5"	#11 @ 4 1/2"
"b" bars	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 9"	#4 @ 11"	#4 @ 7"	#5 @ 7"	#5 @ 6"	#5 @ 5"	#7 @ 7"	#6 @ 5 1/2"	#7 @ 6"	#8 @ 6"	#7 @ 5 3/4"	#8 @ 6"	#9 @ 6"	#10 @ 6"	#10 @ 6"	#10 @ 5 1/2"	#10 @ 6"	#10 @ 5 3/4"	#11 @ 6"	#11 @ 5"	#11 @ 4 1/2"
"c" bars								#4	#4	#4	#4	#4	#5	#5	#5	#6	#6	#6	#7	#7	#7	#7	#7	#7
"d" bars	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 18"	#4 @ 15"	#4 @ 15"	#4 @ 12"	#4 @ 11"	#4 @ 9"	#5 @ 12"	#5 @ 12"	#5 @ 10"	#5 @ 9"	#5 @ 9"	#5 @ 8"	#6 @ 10"	#6 @ 9"	#7 @ 12"	#7 @ 11"	#7 @ 10"	#7 @	#7 @	#7 @ 6"

Maximum "WK"	4R	5R	6R	7R	8R	9R	10R	11R	12R	13R	14R	15R	16R	17R	18R	19R	20R	21R	22R	23R	24R	26R	28R	30R
a	6"	6"	6"	12"	12"	12"	12"	12"	12"	12"	15"	18"	21"	21"	21"	21"	24"	24"	27"	30"	33"	39"	39"	51"
t	14"	14"	14"	14"	14"	14"	14"	18"	18"	18"	18"	18"	18"	18"	18"	21"	21"	21"	21"	24"	24"	27"	30"	36"
L	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'	6.0'	6.5'	6.75'	7.25'	7.75'	8.25'	8.75'	9.25'	9.75'	10.25'	10.5'	11.0'	11.5'	12.0'	13.0'	14.0'	15.0'
"a" bars	#3@12"	#3@12"	#4@12"	#4@9"	#4@5½"	#5@6"	#6@7"	#6@6"	#6@5"	#7@7"	#6@5½"	#7@6"	#8@6"	#8@6"	#9@6"	#9@6"	#10@6"	#10@6"	#10@5½"	#10@6"	#10@5¾"	#11@6"	#11@5"	#11@4½"
"b" bars	#3@12"	#3@12"	#3@12"	#3@9"	#4@11"	#4@6"	#5@7"	#5@6"	#5@5"	#7@7"	#6@5½"	#7@6"	#7@6"	#8@6"	#9@6"	#9@6"	#10@6"	#10@6"	#10@5½"	#10@6"	#10@5¾"	#10@6"	#10@5"	#9@4½"
"c" bars								#4	#4	#4	#4	#4	#5	#5	#5	#6	#6	#6	#7	#7	#7	#7	#7	#7
"d" bars	#3@12"	#3@12"	#3@12"	#3@12"	#4@18"	#4@15"	#4@15"	#4@12"	#4@11"	#4@9"	#5@12"	#5@12"	#5@10"	#5@9"	#5@9"	#5@8"	#6@10"	#6@9"	#7@12"	#7@11"	#7@10"	#7@	#7@	#7@6"



VERTICAL REINFORCING STEEL ARRANGEMENT

[illegible]

NOTE
Spacing of joints
Exp. = 20'-0" max.
Contr. = 30'-0" max.
For alternate contraction joint
and control joint details - see
Standard Bridge Details.

1 layer of 55#
composition roofing
paper (exp. or const.)

Top of wall

1/2" pre-moulded joint
filler (exp. jt.)

1-layer 55# comp.
roofing paper
(const. jt.)

[illegible]

NOTE:

Limits of added reinf.
 Height 0'-18" L = $\frac{L}{2}$
 Height 19'-30" L = 6'-0"

SECTION D-D

ELEVATION

Light Standard

3'-0" 3'-0"

Limits of added reinforcing D

*5 @ 12" added each face at Light Standard

Typical Ret. Wall reinf.

D

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-12315	1966	75	75

Hand-drawn cross-section diagram of a reinforced concrete T-junction. The diagram shows a vertical stem and a horizontal slab. The stem has a width of 12 inches and a height of t . The slab has a thickness of t and a width of 1'-6 inches (typical). Reinforcement is shown with circles representing bars. The stem has #4 @ 18 inches on each face. The slab has #4 @ 12 inches on each face. There are 2 inches of clear space (cl.) between the reinforcement bars. The diagram is labeled with dimensions and reinforcement details.

Hand-drawn cross-section diagram of a T-junction. The vertical stem has a width of 12 inches and is reinforced with 4 #12 vertical bars. The horizontal top flange has a thickness t and is reinforced with 4 #18 bars on each face and 4 #12 bars. The total width of the top flange is 24 inches. The diagram includes dimension lines and labels for reinforcement bars.

FOOTING STEP-UP DETAILS No scale

NOTE
Hatched areas denote limits
of structural excavation pay
line. All other excavation
shall be roadway excavation
except as otherwise noted.

Note limits excavation pay where noted.

Finish grade

Theoretical 1:1 Roadway cut

Filter material

Impervious material as selected by the Engineer incidental to structural excavation when "IK" is 2'-0" or less. All backfill below weep hole level shall be impervious material.

Natural gill

Footing on earth - excavate & pour to next line

Footing key - excavate & pour to next line where occurs.

Dimensions shown include 12", 6", 2'-0" min., and 12".

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
RETAINING WALL TYPE T-1

SCALE As NOTED DATE: OCT. 31, 1966

SHEET No. OF SHEETS