

1/20/77

SUPPLY).

WITH THE BWS INSPECTOR COORDINATING THE

9. RE-APPROVAL SHALL BE REQUIRED IF THIS

PROJECT IS NOT CONSTRUCTED WITHIN

ENGINEERING DIVISIÓN, CONSTRUCTION SECTION.

A PERIOD OF ONE YEAR, (SEE RULES

AND REGULATIONS OF BOARD OF WATERIMS WORK WAS PREPARED BY ME

WORK. FOR DETAILS, CONTACT BWS

REGISTERED

PROFESSIONAL \ P

ENGINEER

OR UNDER MY SUPERVISION.

WATER

PULLOA I.C. TO MIDDLE ST - UNIT A

SCALE: AS SHOWN DATE: DEC. 17,1976

SHEET NO. | OF 3 SHEETS

F.A. Proj. No. F-FF-078-1(16)

MOANALUA ROAD

5. THE CONTRACTOR SHALL NOTIFY THE BOARD

TO COMMENCING WORK ON THE MAIN.

APPROVED BY:

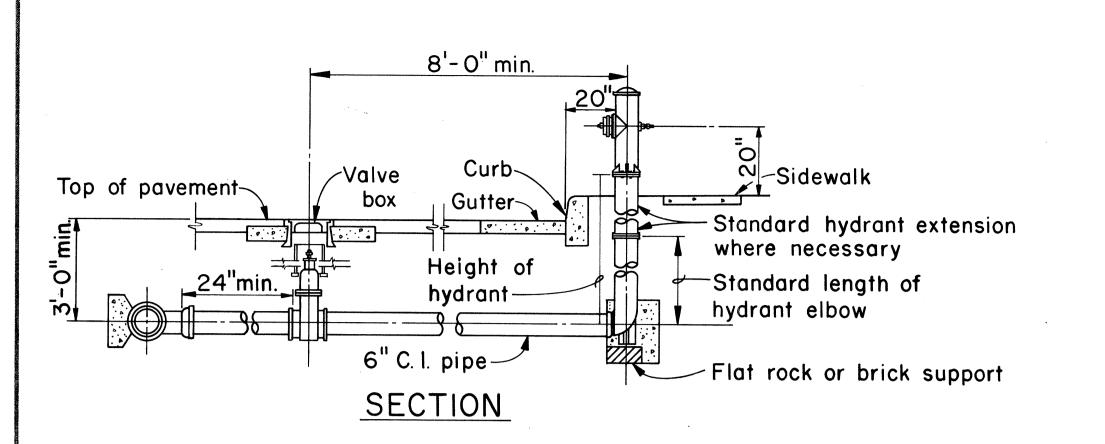
OF WATER SUPPLY IN WRITING ONE WEEK PRIOR

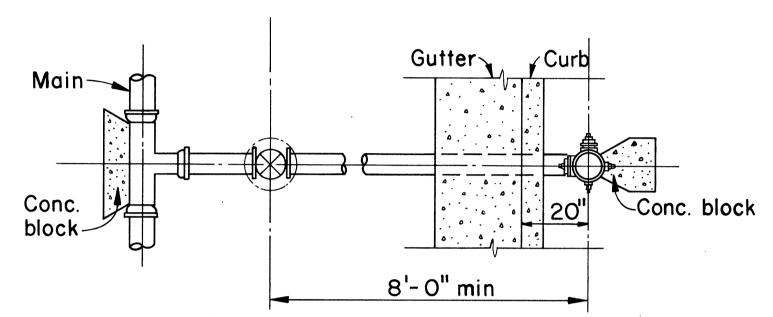
Klubul X Mindami

BOARD OF WATER SUPPLY

ASSISTANT CHIEF ENGNEER OF DATE

SURVEY DRAWN TRACED DESIGNE





PLAN

STANDARD LENGTHS FOR HYDRANT ELBOW 30" 36" 42" 48"

Standard hydrant extensions are available in the following lengths:

6 to 30 inches long in increments of 6 inches.

NOTE:

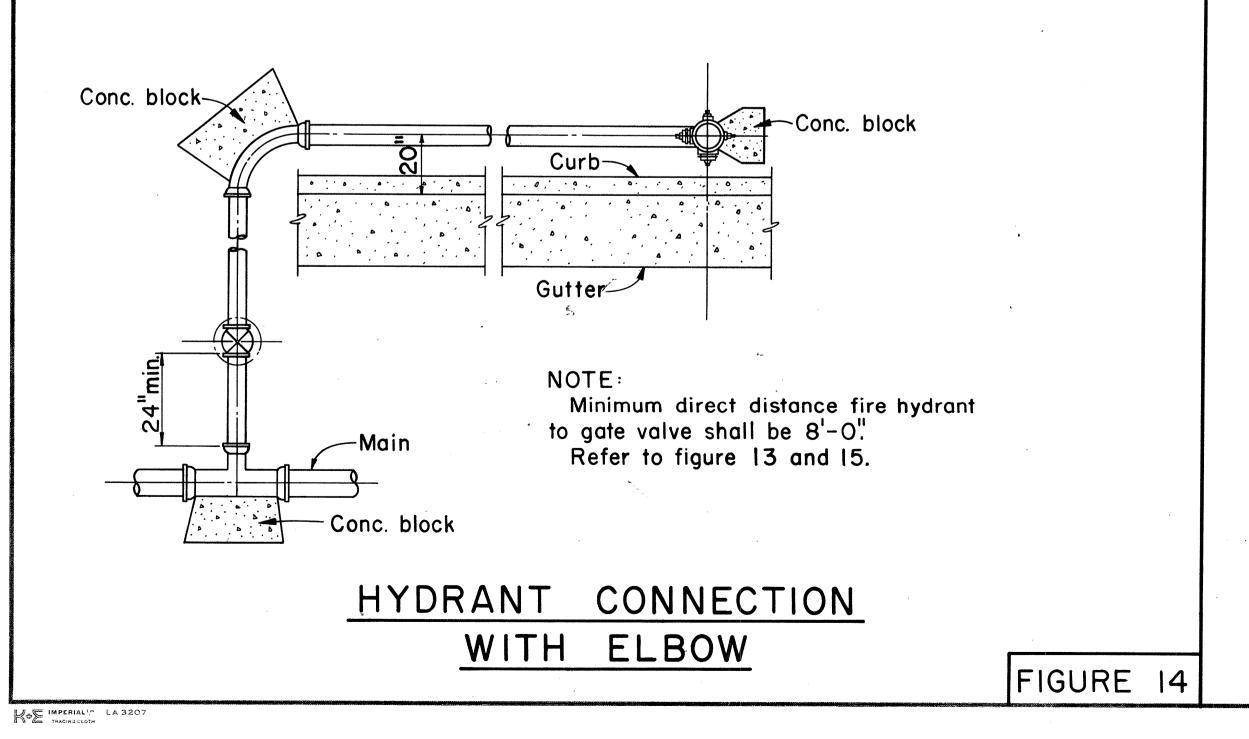
Gaskets for flanged joints shall be $\frac{1}{16}$ duck-inserted rubber packing Garlock No. 19.

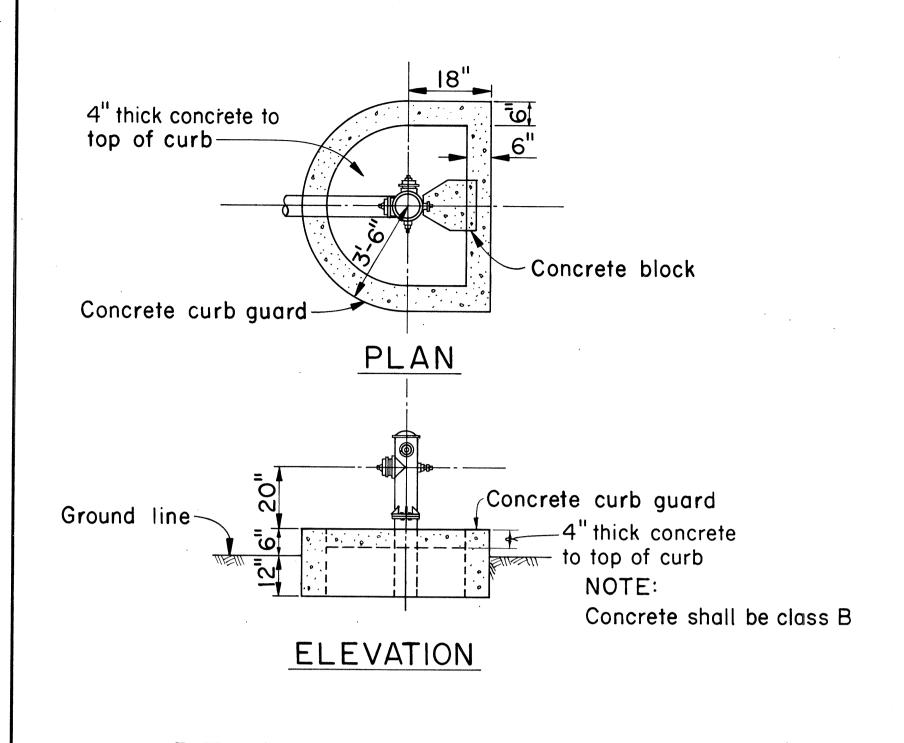
Bolts shall be $\frac{5}{8}$ diameter x $2\frac{3}{4}$ long steel machine bolts with cut threads, American Standard heavy hexagon heads, galvanized.

Nuts shall be American Standard heavy cold punched hexagon nuts, galvanized.

HYDRANT CONNECTION STRAIGHT RUN

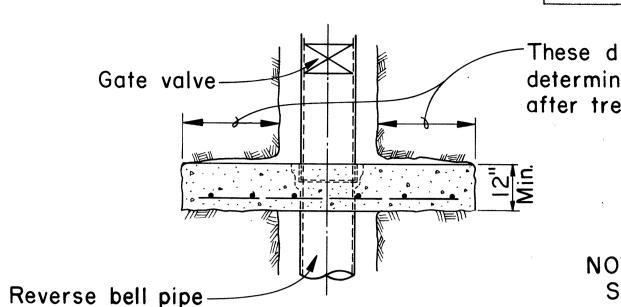
FIGURE 13





DETAIL OF CURB GUARD AT HYDRANT

FIGURE 15



PLAN

These dimensions to be determined by engineer after trench is excavated.

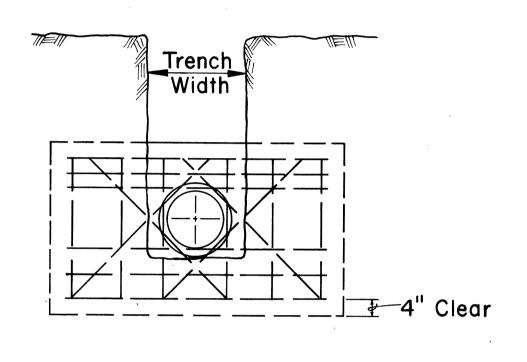
NOTE:

FED. ROAD DIST. NO.

Size and spacing of bars will depend on working pressure. Detail of actual beam to be used shall be furnished during construction by the engineer who prepared the plans.

FED. AID PROJ. NO.

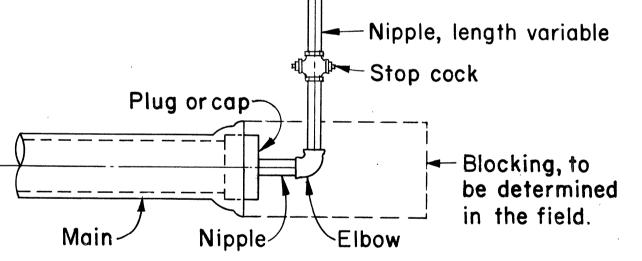
FISCAL SHEET YEAR NO.



ELEVATION

CONCRETE REACTION BEAM

FIGURE 18



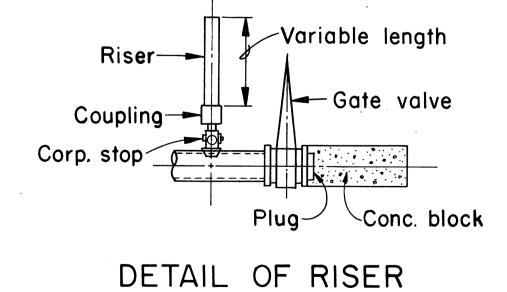
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DETAIL OF TEMPORARY CLEANOUT

NOTES:

I. The sizes of cleanout unless otherwise shown on the plans or directed by the Engineer shall be: 8 inch and smaller mains - 2 1/2 inch cleanout

12 inch to 20 inch mains - 4 inch cleanout 24 inch and larger mains - 6 inch cleanout 2. Temporary cleanout shall include the plug or cap, concrete block, and all appurtenances as shown.



—Paint top 4" red for all air relief valves. 3'-0" -Paint yellow for all valves Ground line--2" Galv. pipe fill with class B concrete -Class B concrete

DETAIL OF VALVE MARKER

CLEANOUTS, RISERS AND VALVE MARKERS

APPROVED: 1/24/23 DATE ASSISTANT CHIEF ENGINEER ** BOARD OF WATER SUPPLY

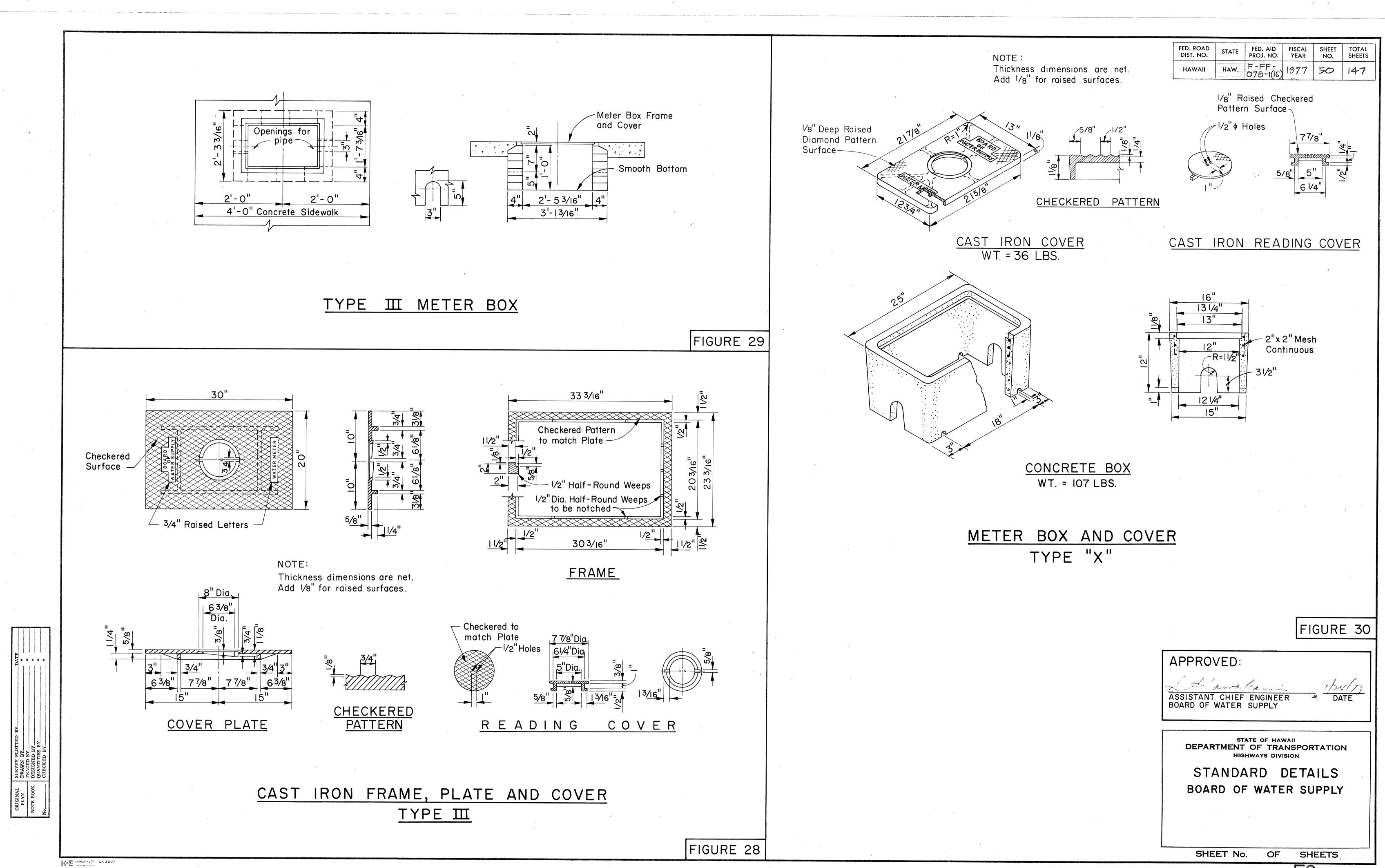
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD DETAILS BOARD OF WATER SUPPLY

FIGURE 16

SHEET No. SHEETS OF

49



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