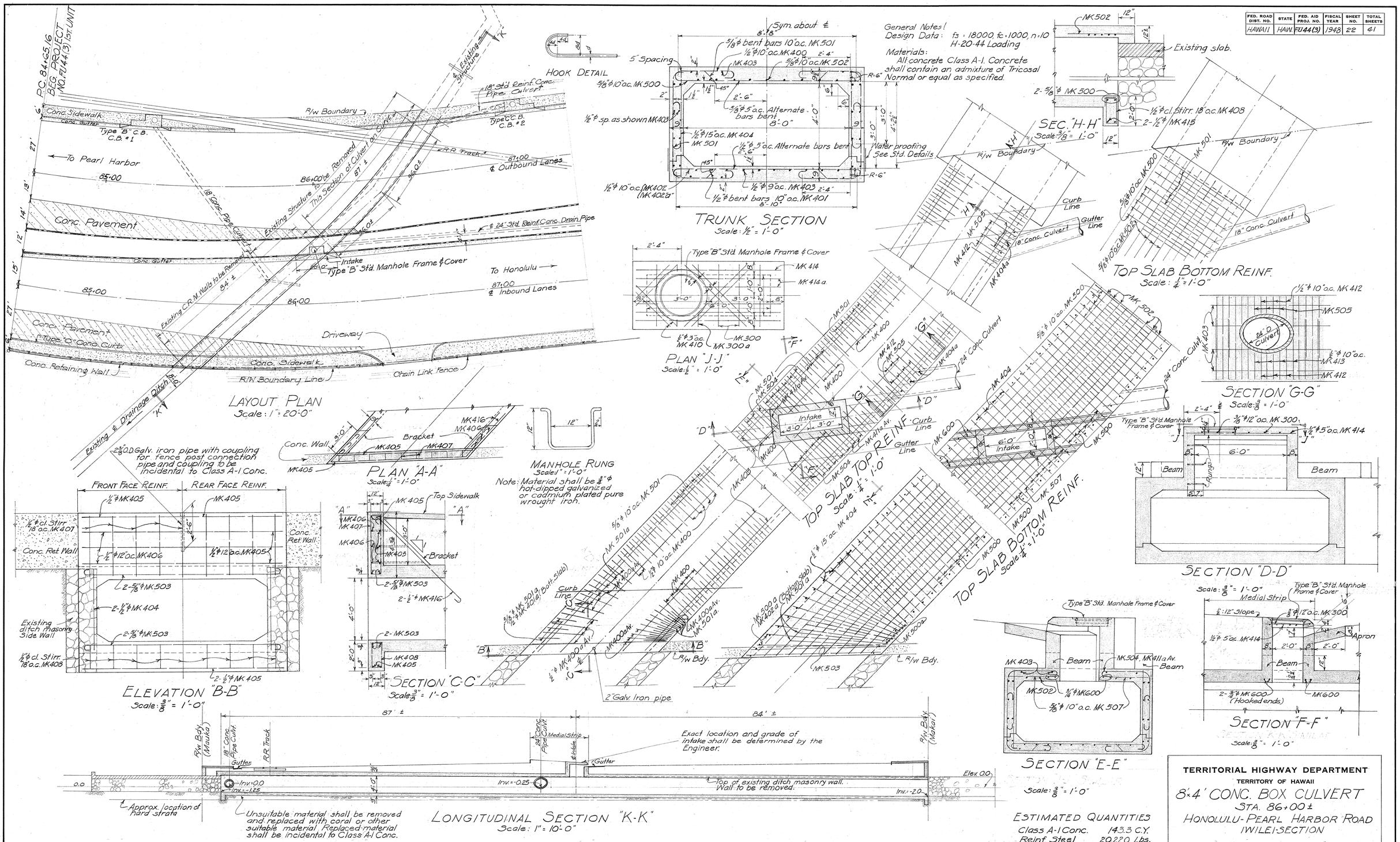
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FU44(3)	1948	22	41

General Notes!
Design Data: fs = 18000, fc = 1000, n = 10
H-20-44 Loading

Materials:
All concrete Class A-I. Concrete shall contain an admixture of Tricosal Normal or equal as specified.


P.C. 84+65.16
B.G. PROJECT NO. FU44(3) 1ST. UNIT
Conc. Sidewalk
Conc. Gutter
Type "B" C.B. C.B. #1
To Pearl Harbor
85+00
Conc. Pavement
Conc. Gutter
Existing C.R.M. Walls to be Removed
Type "C" Conc. Curb
Conc. Retaining Wall
Conc. Sidewalk
R/W Boundary Line
Chain Link Fence
Driveway
Existing & Drainage Ditch
18" Conc. Pipe Culvert
Existing Structure to be Removed
This Section of Culvert at Grade
87' ±
84' ±
86+00
87+00
R.R. Track
℄ Outbound Lanes
℄ Inbound Lanes
To Honolulu
Intake
Type "B" Std. Manhole Frame & Cover
℄ 24" Std. Reinf. Conc. Drain Pipe
Existing Structure
18" Std. Reinf. Conc. Pipe Culvert
Type "C" C.B. C.B. #2
LAYOUT PLAN
Scale: 1" = 20'-0"
HOOK DETAIL
Sym. about ℄
5/8"φ bent bars 10" o.c. MK 501
1/2"φ 10" o.c. MK 400
5/8"φ 10" o.c. MK 502
5/8"φ 10" o.c. MK 500
1/2"φ sp. as shown MK 403
1/2"φ 15" o.c. MK 404
MK 501
5/8"φ 5" o.c. Alternate bars bent
1/2"φ 10" o.c. MK 402
(MK 402a)
1/2"φ 9" o.c. MK 403
1/2"φ bent bars 10" o.c. MK 401
Water proofing See Std. Details
TRUNK SECTION
Scale: 1/2" = 1'-0"
Type "B" Std. Manhole Frame & Cover
MK 414
MK 414a
MK 410
MK 300
MK 300a
PLAN "J-J"
Scale: 1/2" = 1'-0"
Conc. Wall
Bracket
MK 405
MK 407
MK 406
MK 416
PLAN "A-A"
Scale: 1/4" = 1'-0"
MANHOLE RUNG
Scale 1" = 1'-0"
Note: Material shall be 3/4"φ hot-dipped galvanized or cadmium plated pure wrought iron.
FRONT FACE REINF.
REAR FACE REINF.
1/2"φ cl. Stirr. 18" o.c. MK 407
Conc. Ret. Wall
1/2"φ 12" o.c. MK 406
1/2"φ 12" o.c. MK 405
2-5/8"φ MK 503
2-1/2"φ MK 404
Existing ditch masonry Side Wall
1/2"φ cl. Stirr. 18" o.c. MK 408
2-1/2"φ MK 405
ELEVATION "B-B"
Scale: 3/8" = 1'-0"
Top Sidewalk
SECTION "C-C"
Scale 3/8" = 1'-0"
2" Galv. Iron pipe with coupling for fence post connection pipe and coupling to be incidental to Class A-I Conc.
MK 502
Existing slab.
2-5/8"φ MK 500
1/2"φ cl. Stirr. 18" o.c. MK 408
2-1/2"φ MK 415
SEC. "H-H"
Scale: 3/8" = 1'-0"
R/W Boundary
Curb Line
Gutter Line
18" Conc. Culvert
MK 505
MK 412
MK 404a
5/8"φ 10" o.c. MK 500
5/8"φ 10" o.c. MK 502
TOP SLAB BOTTOM REINF.
Scale: 1/4" = 1'-0"
1/2"φ 10" o.c. MK 412
MK 505
24" D Culvert
1/2"φ 10" o.c. MK 413
MK 412
SECTION "G-G"
Scale: 3/8" = 1'-0"
24" Conc. Culvert
MK 404
MK 600
MK 500
MK 507
Intake
TOP SLAB BOTTOM REINF.
Scale: 1/4" = 1'-0"
Type "B" Std. Manhole Frame & Cover
3/8"φ 12" o.c. MK 300
1/2"φ 5" o.c. MK 414
Beam
Rungs
SECTION "D-D"
Scale: 3/8" = 1'-0"
Medial Strip
1/2" : 12" Slope
3/8"φ 12" o.c. MK 300
1/2"φ 5" o.c. MK 414
Apron
2-3/8"φ MK 600 (Hooked ends)
MK 600
SECTION "F-F"
Scale: 3/8" = 1'-0"
MK 501
MK 400
MK 412
MK 505
MK 404a
MK 504
MK 501a
MK 400a Av.
MK 501a Av.
MK 400a
MK 501a
MK 400
MK 501a
MK 400a Av.
MK 501a
MK 400
MK 501a
MK 400a Av.
MK 501a
MK 400a
MK 501a
MK 400a
MK 501a
MK 400a