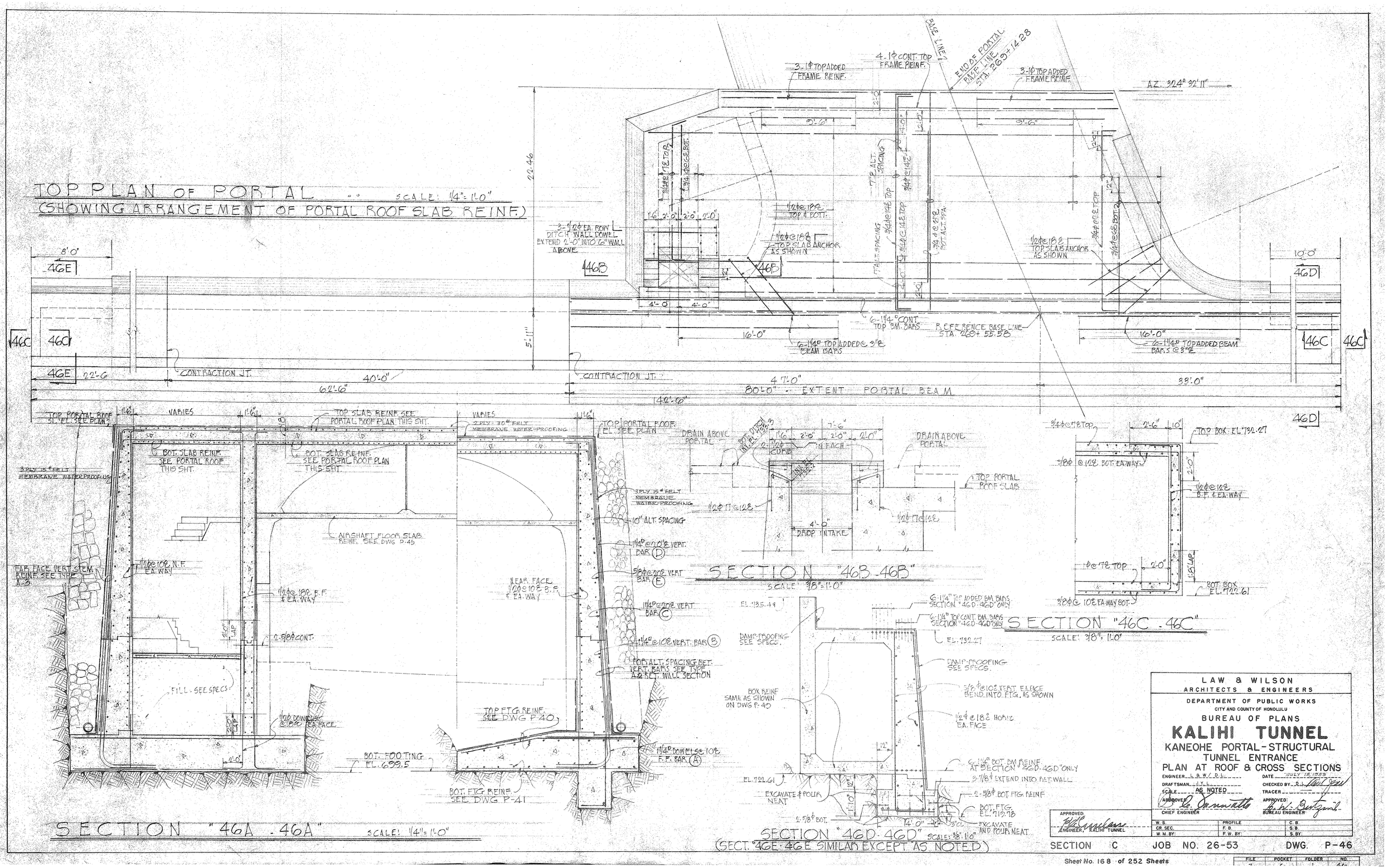
TOP PLAN OF PORTAL
SCALE: 1/4" = 1'-0"
(SHOWING ARRANGEMENT OF PORTAL ROOF SLAB REINF.)
BASE LINE
END OF PORTAL BASE LINE STA. 269+14.28
AZ. 324° 32' 11"
3-1φ TOP ADDED FRAME REINF.
4-1φ CONT. TOP FRAME REINF.
3-1φ TOP ADDED FRAME REINF.
3-1/2φ EA. FACE OF DITCH WALL DOWEL EXTEND 2'-0" INTO 6" WALL ABOVE
1/2φ @ 18" TOP & BOTT.
1/2φ @ 18" TOP SLAB ANCHOR AS SHOWN
6-1 1/4" CONT. TOP BM. BARS
REFERENCE BASE LINE STA. 269+55.58
6-1 1/4" TOP ADDED @ 3" BEAM BARS
6-1 1/4" TOP ADDED BEAM BARS @ 3"
CONTRACTION JT.
40'-0"
62'-6"
47'-0"
80'-0" - EXTENT PORTAL BEAM
142'-6"
33'-0"
TOP PORTAL ROOF SL. EL. SEE PLAN
VARIES
TOP SLAB REINF. SEE PORTAL ROOF PLAN THIS SHT.
VARIES
2 PLY - 30# FELT MEMBRANE WATER-PROOFING
TOP PORTAL ROOF EL. SEE PLAN
BOT. SLAB REINF. SEE PORTAL ROOF THIS SHT.
BOT. SLAB REINF. SEE PORTAL ROOF PLAN THIS SHT.
3 PLY 15# FELT MEMBRANE WATERPROOFING
AIRSHAFT FLOOR SLAB REINF. SEE DWG P-45
FAR FACE VERT. STEM REINF. SEE TYPE A-3
1/2φ @ 10" N.F. EA. WAY
1/2φ @ 10" B.F. & EA. WAY
NEAR FACE 1/2φ @ 10" B.F. & EA. WAY
2-5/8φ CONT.
FILL - SEE SPECS
1/2φ DOWEL @ 10" EA. FACE
BOT. FOOTING EL. 699.5
TOP FTG. REINF. SEE DWG P-40
BOT. FTG. REINF. SEE DWG. P-41
3 PLY 15# FELT MEMBRANE WATER-PROOFING
10" ALT. SPACING
1 1/4φ @ 20" & VERT. BAR (D)
5/8φ @ 10" VERT. BAR (E)
1 1/4φ @ 20" VERT. BAR (C)
1 1/4φ @ 10" VERT. BAR (B)
FOR ALT. SPACING BET. VERT. BARS SEE TYPE A-2 BET. WALL SECTION
1 1/4φ DOWEL @ 10" F.F. BAR (A)
SECTION "46A - 46A"
SCALE: 1/4" = 1'-0"
DRAIN ABOVE PORTAL
1/2φ CURB
DROP INTAKE
TOP PORTAL ROOF SLAB
SECTION "46B - 46B"
SCALE: 3/8" = 1'-0"
3/4φ @ 12" TOP
TOP BOX EL. 732.27
1/2φ @ 12" BOT. EA. WAY
1/2φ @ 12" B.F. & EA. WAY
1φ @ 12" TOP
BOT. BOX EL. 722.61
3/8φ @ 10" EA. WAY BOT.
SECTION "46C - 46C"
SCALE: 3/8" = 1'-0"
EL. 735.49
DAMP-PROOFING SEE SPECS.
BOX REINF. SAME AS SHOWN ON DWG P-40
EXCAVATE & POUR NEAT
6-1 1/4" TOP ADDED BM. BARS SECTION "46D-46D" ONLY
6-1 1/4" TOP CONT. BM. BARS SECTION "46D-46D" ONLY
EL. 732.27
DAMP-PROOFING SEE SPECS.
5/8φ @ 10" VERT. EA. FACE BEND INTO FTG. AS SHOWN
1/2φ @ 18" HORIZ. EA. FACE
6-1 1/4" BOT. BM. REINF. AT SECTION "46D-46D" ONLY
3'-1 1/8" EXTEND INTO BET. WALL
2-5/8φ BOT. FTG. REINF.
BOT. FTG. EL. 719.78
EXCAVATE AND POUR NEAT
EL. 722.61
2-5/8φ BOT.
SECTION "46D-46D"
SCALE: 3/8" = 1'-0"
(SECT. "46E-46E" SIMILAR EXCEPT AS NOTED)
LAW & WILSON
ARCHITECTS & ENGINEERS
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEOHE PORTAL - STRUCTURAL
TUNNEL ENTRANCE
PLAN AT ROOF & CROSS SECTIONS
ENGINEER L.B.W./D.L.
DATE JULY 15, 1958
DRAFTSMAN J.Y.L.
CHECKED BY D.L.
SCALE AS NOTED
TRACER
APPROVED: CHIEF ENGINEER
APPROVED: BUREAU ENGINEER
APPROVED: ENGINEER, KALIHI TUNNEL
W.S.
CR. SEC.
W.N. BY:
PROFILE
F.B.
F.W. BY:
C.B.
S.B.
S.BY.
SECTION C
JOB NO. 26-53
DWG. P-46
Sheet No. 168 of 252 Sheets
FILE
POCKET
FOLDER
NO.