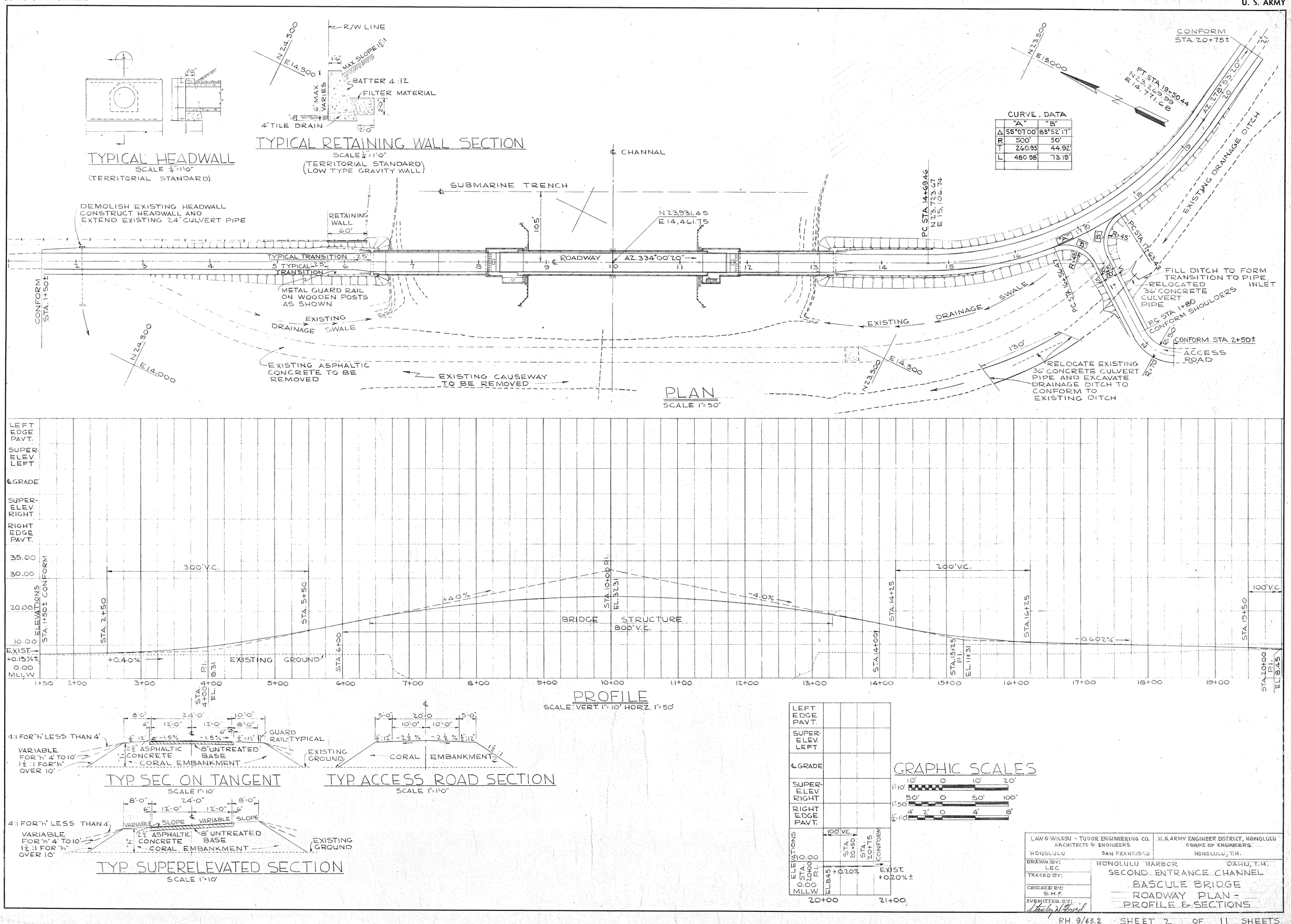
TYPICAL HEADWALL
SCALE 1/4"=1'-0"
(TERRITORIAL STANDARD)
TYPICAL RETAINING WALL SECTION
SCALE 1/4"=1'-0"
(TERRITORIAL STANDARD)
(LOW TYPE GRAVITY WALL)
R/W LINE
MAX SLOPE 1½:1
BATTER 4:12
FILTER MATERIAL
6' MAX. VARIES
4" TILE DRAIN
N 24,500
E 14,500
PLAN
SCALE 1"=50'
CHANNAL
SUBMARINE TRENCH
DEMOLISH EXISTING HEADWALL
CONSTRUCT HEADWALL AND
EXTEND EXISTING 24" CULVERT PIPE
RETAINING WALL 60'
TYPICAL TRANSITION 25'
5 TYPICAL TRANSITION 25'
ROADWAY
AZ. 334°00'20"
N 23,931.45
E 14,461.75
P.C. STA. 14+69.46
N 23,723.67
E 15,106.74
CONFORM STA. 1+50±
METAL GUARD RAIL ON WOODEN POSTS AS SHOWN
EXISTING DRAINAGE SWALE
EXISTING ASPHALTIC CONCRETE TO BE REMOVED
EXISTING CAUSEWAY TO BE REMOVED
N 23,500
E 15,000
CONFORM STA. 20+75±
PT STA. 19+50.44
N 23,269.99
E 14,771.68
AZ. 278°33'20"
EXISTING DRAINAGE DITCH
P.C. STA. 17+63.4
FILL DITCH TO FORM TRANSITION TO PIPE INLET
RELOCATED 36" CONCRETE CULVERT PIPE
P.C. STA. 1+80 CONFORM SHOULDERS
CONFORM STA. 2+50±
ACCESS ROAD
RELOCATE EXISTING 36" CONCRETE CULVERT PIPE AND EXCAVATE DRAINAGE DITCH TO CONFORM TO EXISTING DITCH
130'
CURVE DATA
"A" "B"
Δ 55°07'00" 83°52'17"
R 500' 50'
T 260.93 44.92'
L 480.98 73.19'
LEFT EDGE PAVT.
SUPER. ELEV. LEFT
℄ GRADE
SUPER-ELEV. RIGHT
RIGHT EDGE PAVT.
ELEVATIONS
STA. 1+50± CONFORM
300' V.C.
STA. 2+50
STA. 5+50
STA. 10+00 P.I.
EL. 32.31
+4.0%
-4.0%
BRIDGE STRUCTURE
800' V.C.
200' V.C.
STA. 14+25
STA. 16+25
STA. 14+00
STA. 15+25 P.I.
EL. 11+31
-0.602%
100' V.C.
STA. 19+50
STA. 20+00 P.I.
EL. 8.45
EXIST.
+0.15%±
0.00 MLLW
+0.40%
P.I. 8.31
EXISTING GROUND
STA. 6+00
STA. 4+00 EL.
1+50 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00
PROFILE
SCALE: VERT. 1"=10' HORZ. 1"=50'
8'-0" 24'-0" 10'-0"
12'-0" 12'-0" 8'-0"
6" 6" 6"
4:1 FOR "h" LESS THAN 4'
VARIABLE FOR "h" 4' TO 10' 1½:1 FOR "h" OVER 10'
2½" ASPHALTIC CONCRETE
8" UNTREATED BASE
CORAL EMBANKMENT
GUARD RAIL-TYPICAL
EXISTING GROUND
TYP. SEC. ON TANGENT
SCALE 1"=10'
5'-0" 20'-0" 5'-0"
10'-0" 10'-0"
CORAL EMBANKMENT
TYP. ACCESS ROAD SECTION
SCALE 1"=10'
VARIABLE SLOPE
TYP. SUPERELEVATED SECTION
SCALE 1"=10'
LEFT EDGE PAVT.
SUPER-ELEV. LEFT
℄ GRADE
SUPER-ELEV. RIGHT
RIGHT EDGE PAVT.
ELEVATIONS
100' V.C.
STA. 20+50
STA. 20+75 CONFORM
STA. 20+00 P.I.
EL. 8.45
+0.20%
EXIST. +0.20%±
MLLW
20+00
21+00
GRAPHIC SCALES
1"=10'
1"=50'
1"=1'-0"
LAW & WILSON - TUDOR ENGINEERING CO.
ARCHITECTS & ENGINEERS
HONOLULU SAN FRANCISCO
U.S. ARMY ENGINEER DISTRICT, HONOLULU
CORPS OF ENGINEERS
HONOLULU, T.H.
DRAWN BY: LEC
TRACED BY:
CHECKED BY: S.H.F.
SUBMITTED BY:
HONOLULU HARBOR OAHU, T.H.
SECOND ENTRANCE CHANNEL
BASCULE BRIDGE
ROADWAY PLAN - PROFILE & SECTIONS