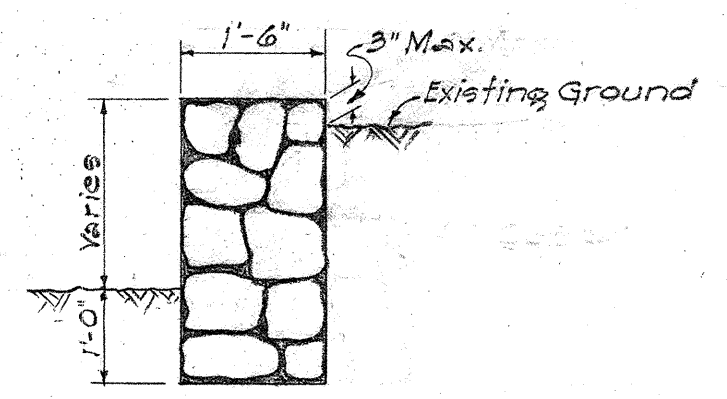
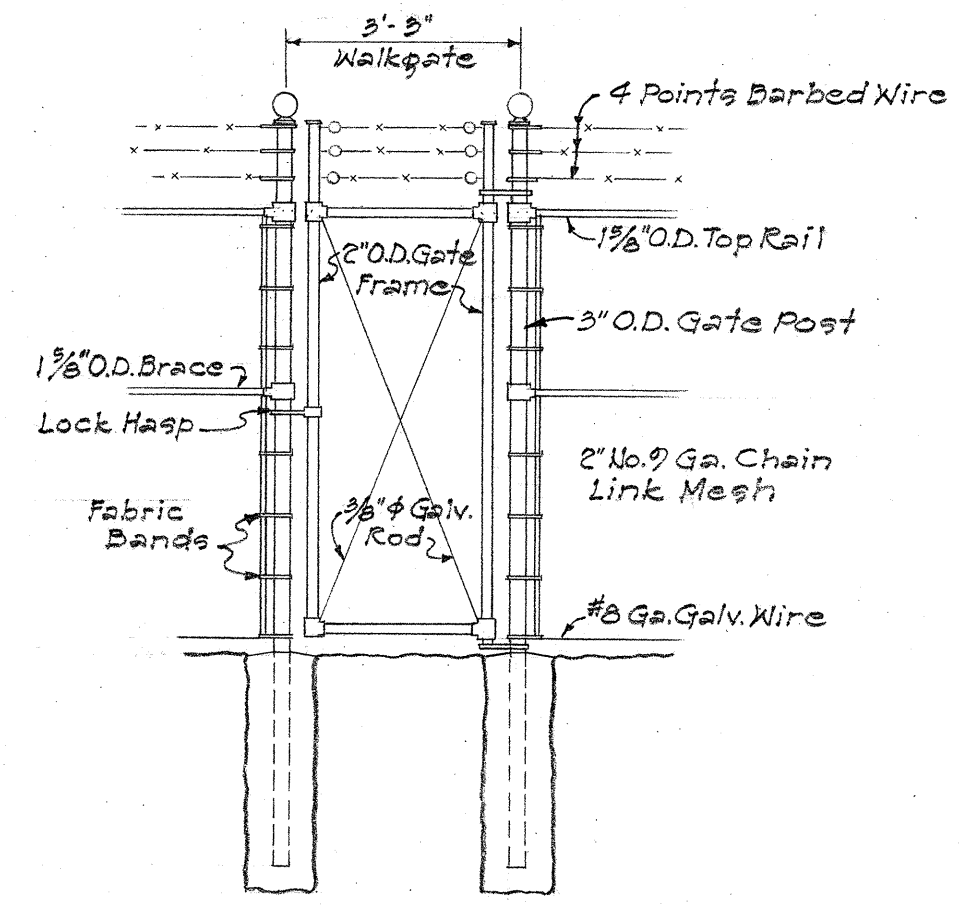


- Fabric**
Number 9 gauge (W & M) copper bearing steel wire woven into a 2" mesh, hot-dip galvanized after fabrication. Standard finish, twisted and barbed salvage top and bottom. Fabric height 6 feet.
- Posts**
Line Posts: 2 1/2" O.D. pipe, 3.65 lb. per lineal foot.
Gate Posts: 4" O.D. pipe, 9.1 lb. per lineal foot.
Corner Posts: 3" O.D. pipe, 5.70 lb. per lineal foot.
(a) Line posts spaced not over 10 feet apart, unless otherwise specified.
(b) Fasten fabric to posts with galvanized steel wire, spaced 12" apart.
(c) Cap all posts and provide with steel arm inclined inward at 45° angle. Inclined arms shall have tongues as required to receive barbed wire.
(d) Set posts true to line and grade and embed in concrete footings as shown on this drawing. Top of all footings shall be trowelled smooth and crowned slightly so as to shed water. Form top 6" of footings and build of 2,000 psi concrete.
- Top Rails**
1 1/2" O.D. pipe, 2.27 lb. per lineal foot. Fasten fabric to rail with galvanized steel wire spaced 24" apart, except as shown on this drawing.
- Bracing**
1 1/2" O.D. pipe, 2.27 lb. per lineal foot. Install horizontal braces at all corner posts. Each brace to be diagonally trussed, using a 3/8" round rod with suitable truss tightener and necessary fittings. Fasten fabric to braces with galvanized steel wire spaced 24" apart.
- Gates**
(a) Provide gates as shown on drawing with suitable back-stops for holding the gate in open position. Frames are 2" O.D. pipe, 2.72 lb. per lineal foot, joined by heavy malleable or pressed steel fittings, rigidly trussed and braced to prevent sag. Frames may be welded, if approved by The Hawaiian Electric Co. Ltd. Where welding is done, touch up joint area with "Amco Powder" or "Galvaloy" applied in accordance with manufacturer's directions.
(b) Provide barbed wire support arms on top of frame.
(c) Provide padlock plates for all gates. Gate hinges shall be Cyclone heavy duty double clamping offset type. Provide gate with keeper which will automatically engage a gate shoe set in concrete to hold gate in closed position.
(d) Padlocks shall be furnished by The Hawaiian Electric Co. Ltd.

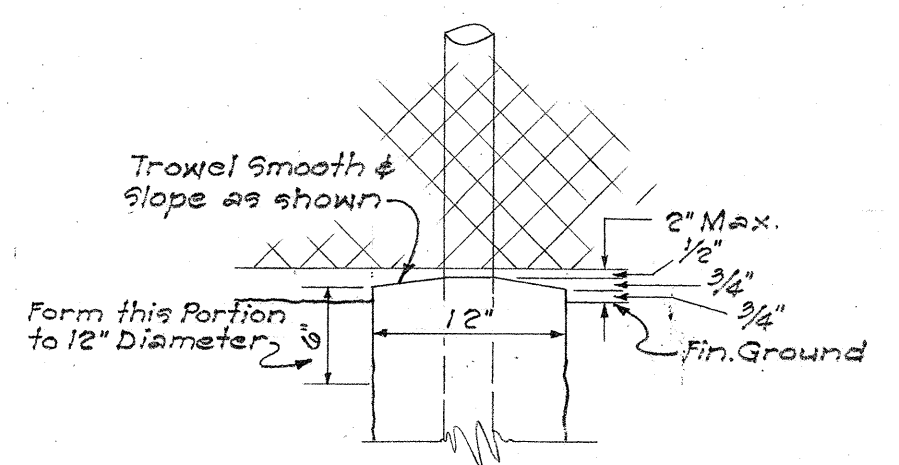
- Barbed Wire**
Provide three strands of double twisted 4-point thick-set barbed wire, with barbs spaced 4" apart, strung along top of fence and gate securely attached to steel arms. Barbed wires are #12 1/2 gauge galvanized steel wire.
- Salvage Wire**
Provide #8 gauge (W & M) wire strung along bottom of fence.
- Galvanizing**
All parts of fence and gates above and below ground heavily galvanized by the hot-dip process.
- Fence Ground Wire**
The Hawaiian Electric Co. Ltd. shall furnish and install fence ground wire after fence posts are installed and before wire mesh fabric is placed.



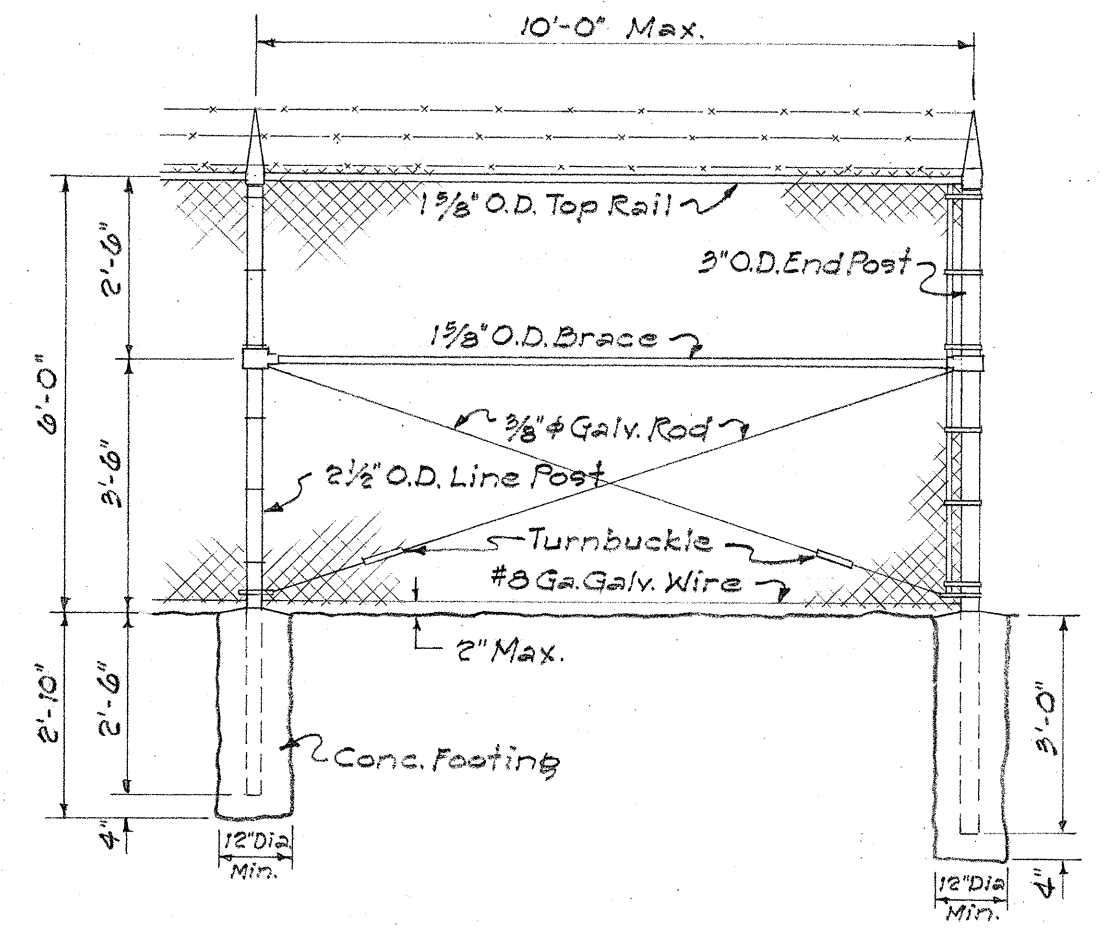
DETAIL OF CRM WALL
Scale: 1/2"=1'-0"



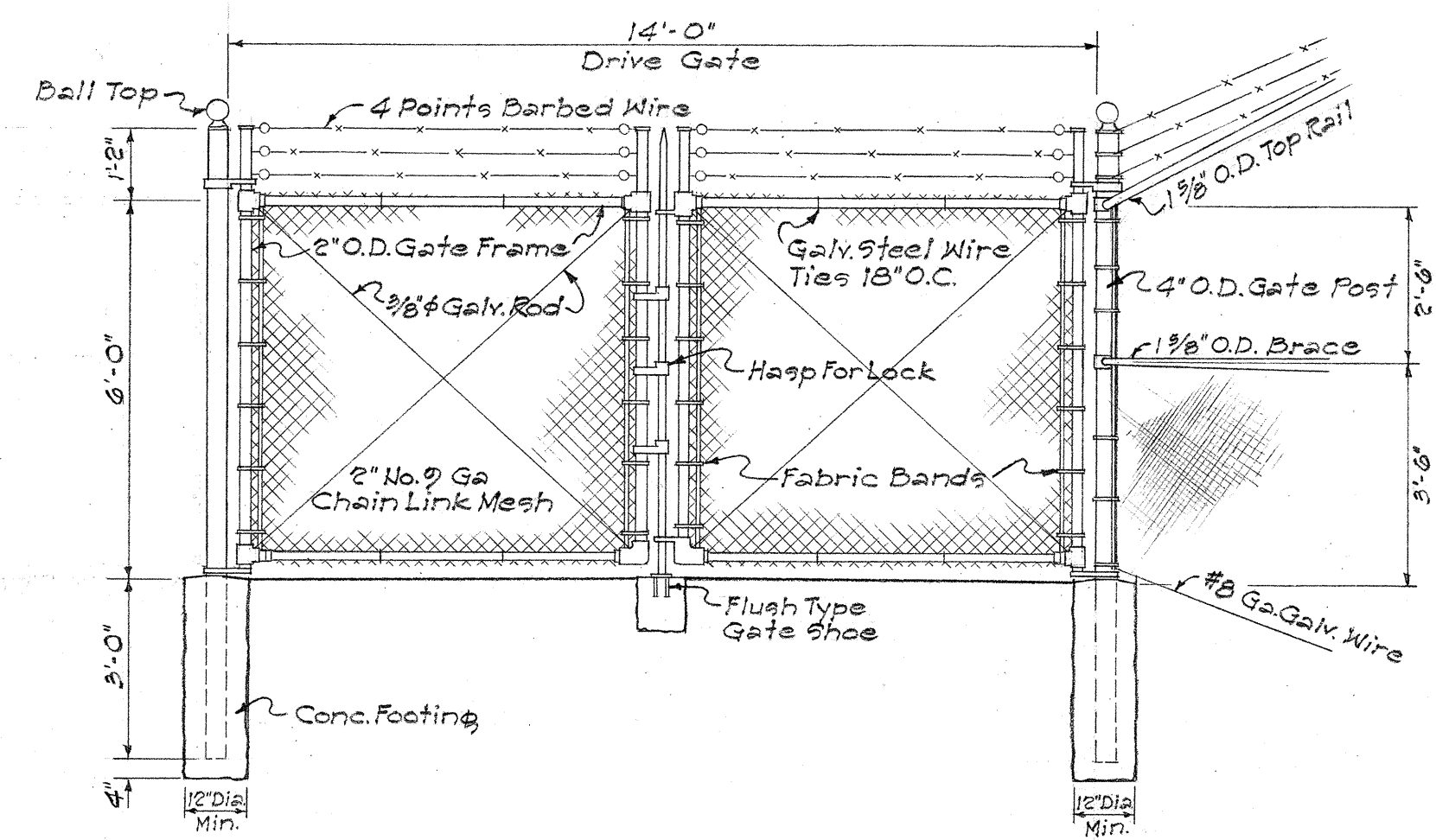
EXISTING WALK GATE
Scale: 3/8"=1'-0"



TOP OF FOOTING
Scale: 1"=1'-0"



END & BRACE POSTS
Scale: 3/8"=1'-0"

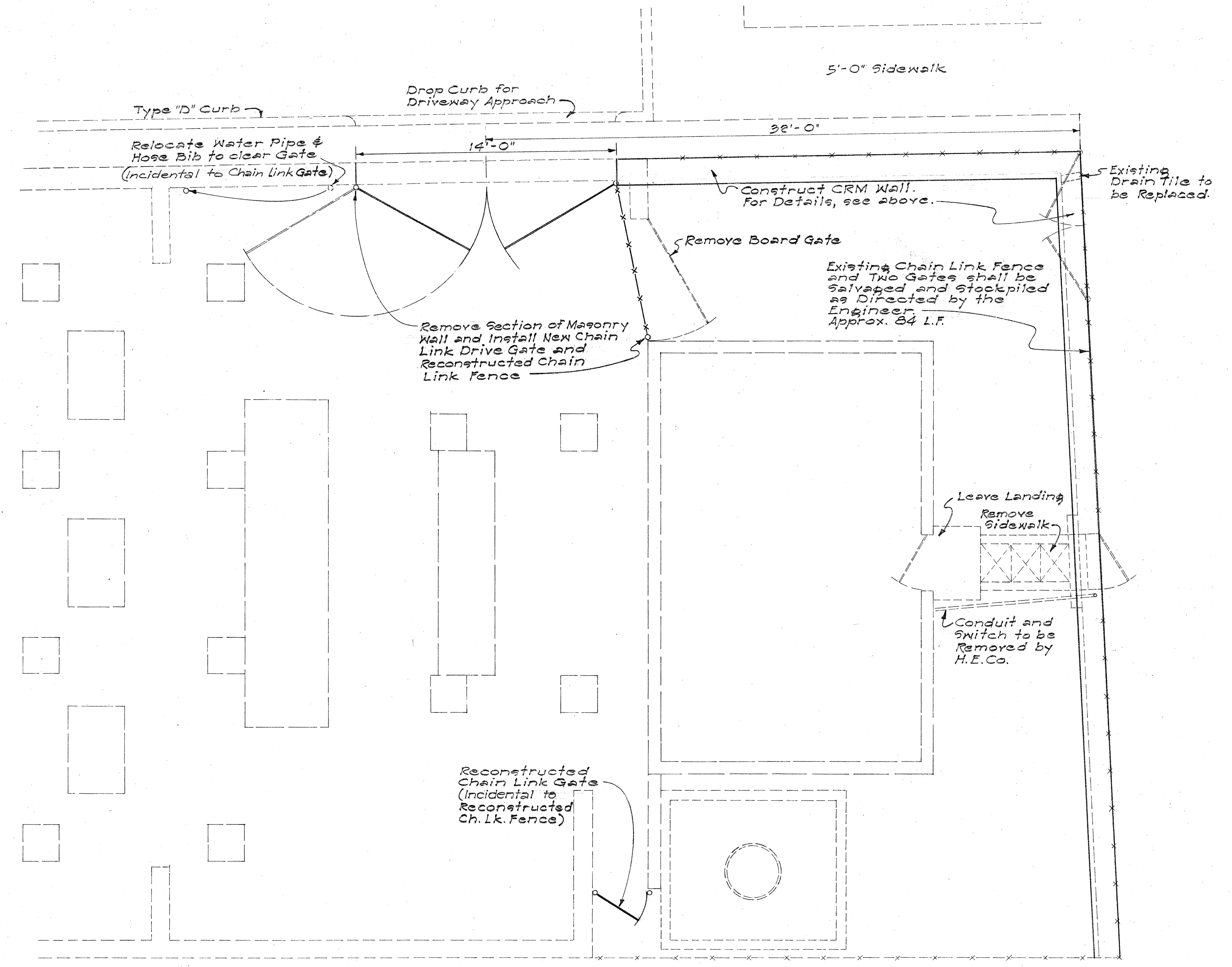


CHAIN LINK DRIVE GATE
Scale: 3/8"=1'-0"

DETAILS OF CHAIN LINK FENCE AND GATES
Scale: As Noted

ESTIMATED QUANTITIES	
ITEM	QUANTITIES
Salvaging Exist Ch. Lk. Fence	84 Lin. Ft.
Structure Exc.	18.5 Cu. Yd.
CRM	8 Cu. Yd.
Ch. Lk. Gate	2 Ea.
Reconstructed Ch. Lk. Fence	11 Lin. Ft.

- NOTES:
- Construction of new Fence and Gates to be in accordance with H.E.Co. Standard.
 - All Construction shown above to be done by the Contractor except where noted.
 - Salvaged Chain Link Fence and Gates to be left at the Substation for return to H.E.Co.
 - During Construction adequate temporary barriers are to be provided to prevent unauthorized access.
 - Contact Mr. George Bartels of H.E.Co., Phone 54971 - Local 285 to gain entry to the Substation.



PLAN OF FORT ST. SUBSTATION
Not to Scale

APPROVED: *[Signature]* DATE 1/2/59
THE HAWAIIAN ELECTRIC CO. LTD.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
REVISION TO
THE HAWAIIAN ELECTRIC CO. LTD.
FORT STREET SUBSTATION
NUUANU HIGHWAY
PROJ. NO. BU-061-16, UNIT 4
Scale: As Noted Oct. 1958