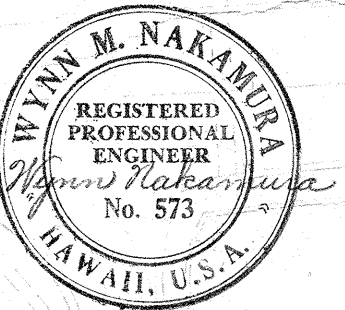


PLAN	SURVEYED.....	BY.....	DATE.....
NOTE BOOK	PLOTTED.....		
NO.	ALIGNMENT CHECKED.....		
	FT. OF WAY CHECKED.....		

PROFILE	BY	DATE
SURVEYED PLOTTED NOTE BOOK GRADES CHECKED B. M.'S NOTED NO. _____ STRUCTURE NOTATIONS CHECKED		



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Civil and Structural Engineers

ELECTRICAL

(FT. SHAFTER)

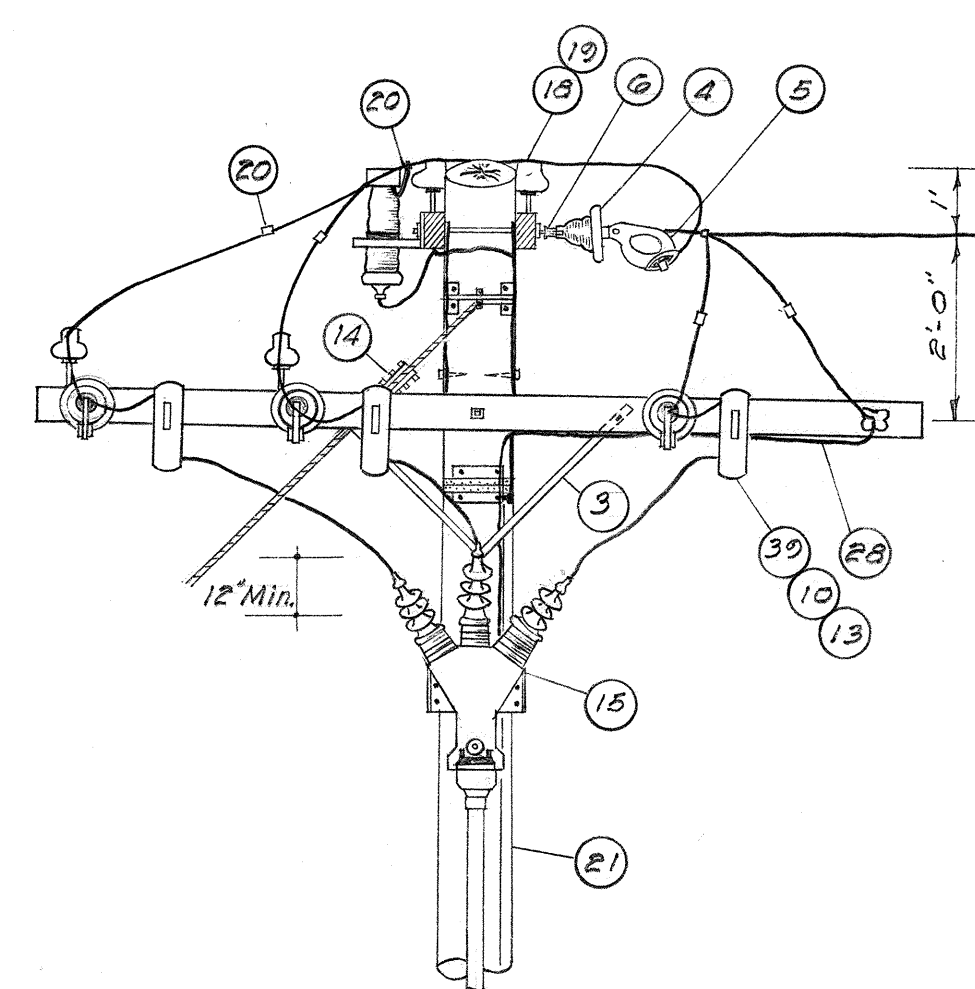
SHEET No. 2 OF 2 SHEETS

SHEET NO. 2 OF 2

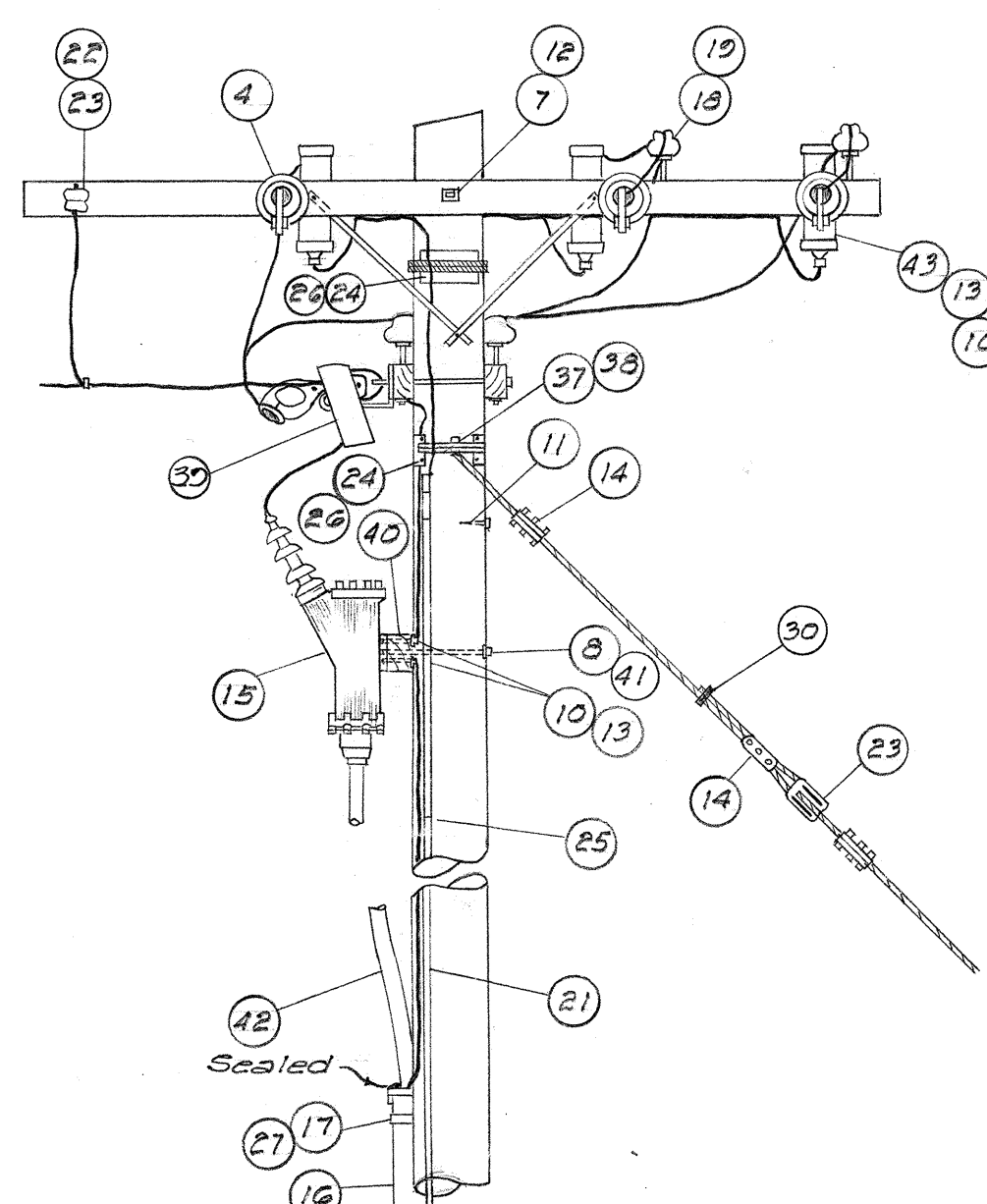
\$161.69

108

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	US-0720(3)	1960	47	79
		BU-065-1(1)	1960	70	115

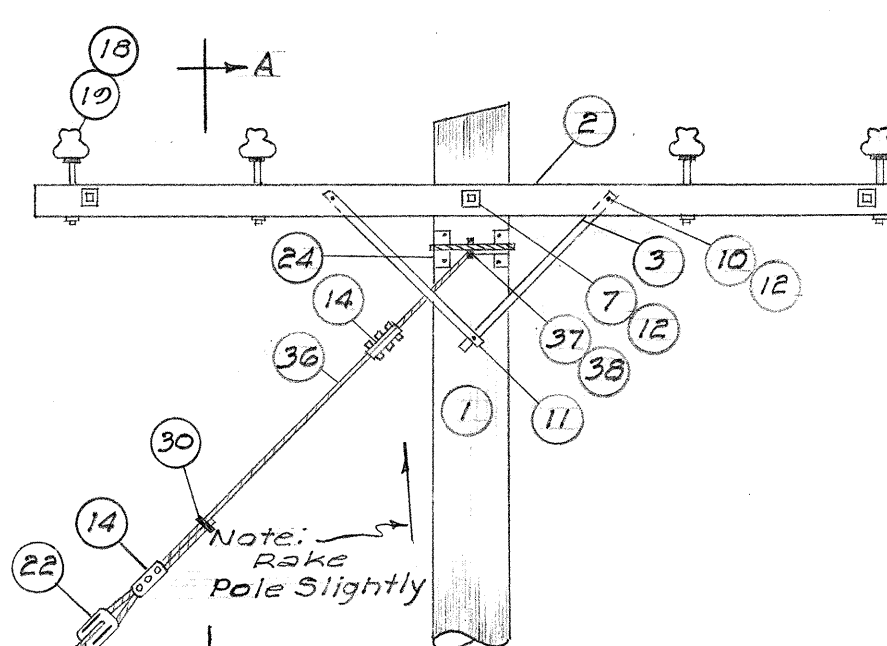


ELEVATION



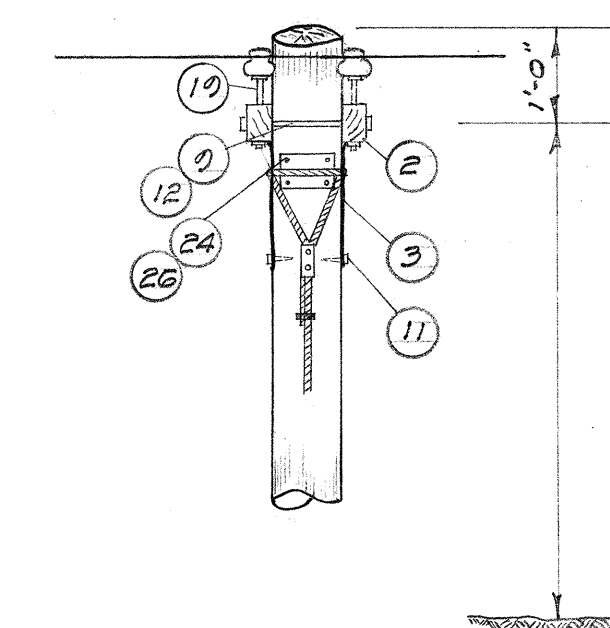
SECTION

DETAIL OF CORNER POLE WITH POTHEAD

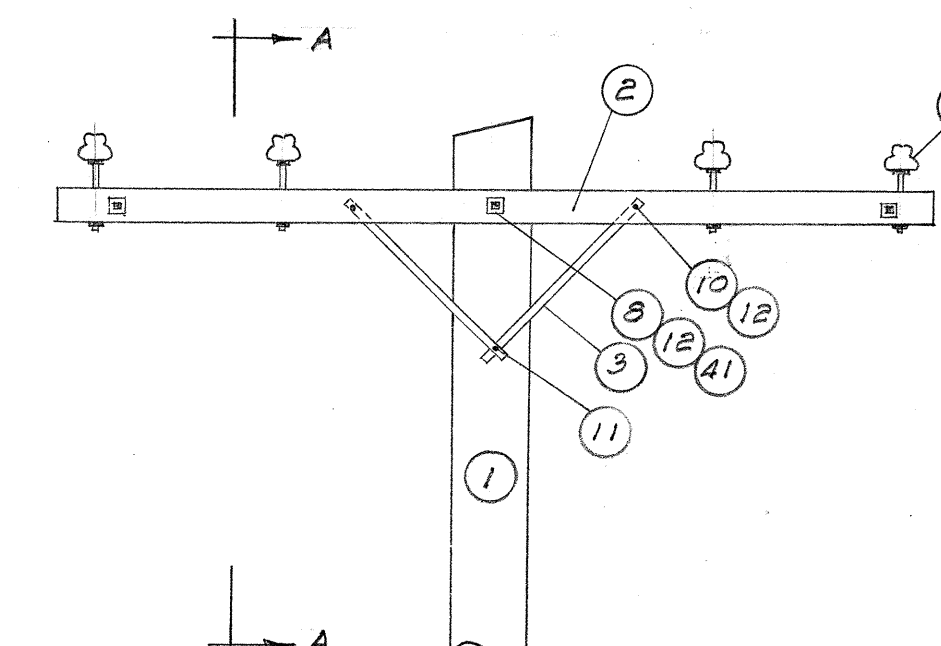


ELEVATION

DETAIL OF ANGLE POLE

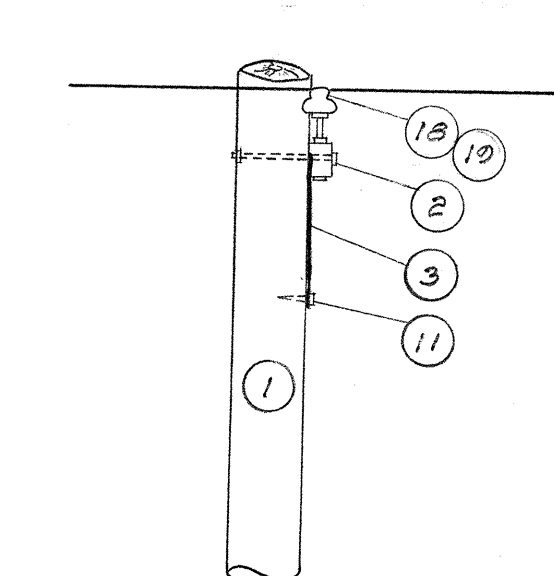


SECTION A-A



ELEVATION

DETAIL OF THRU POLE



SECTION A-A

Note:
Plain corner pole same
except for pothead and arrestors

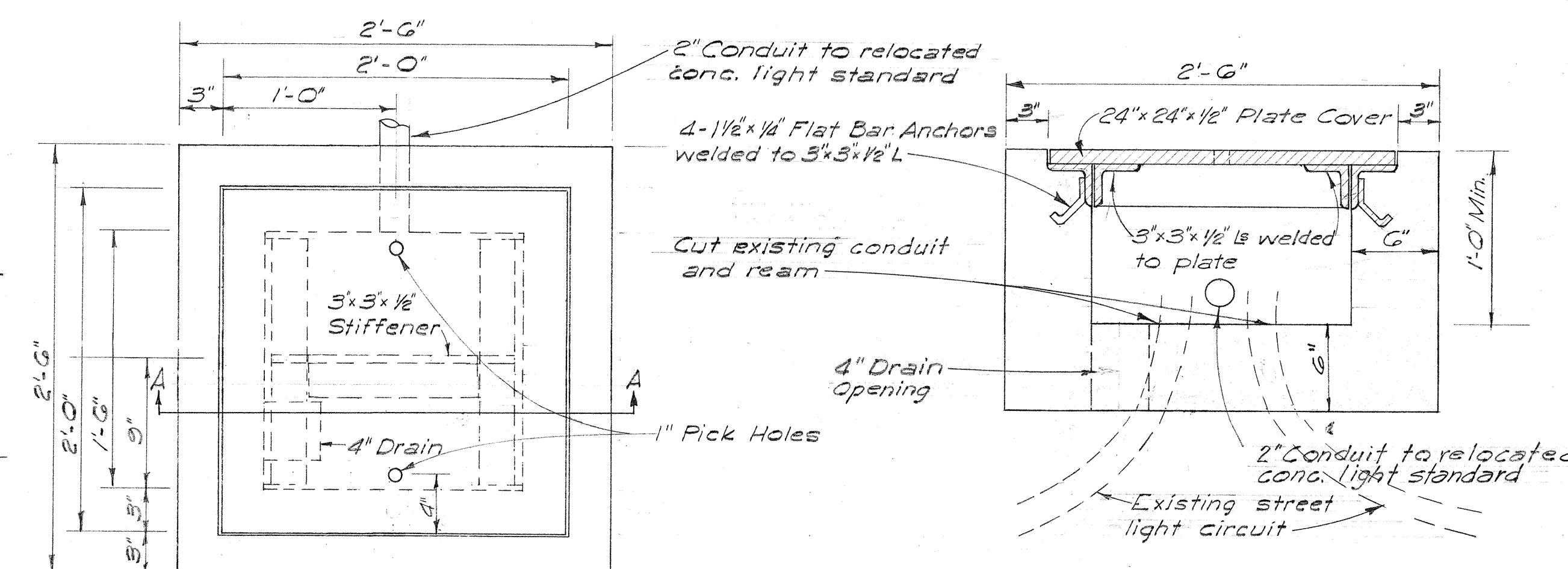
MATERIAL LIST

ITEM DESCRIPTION

- 1 Wood pole, class 3 40 ft. fully creosoted
- 2 Cross arms 8 pin NELA 1/2" pin holes, 3 1/2" x 4 1/2" Douglas fir, Creosoted
- 3 Braces, flat, crossarms 1/4" x 1/4" x 28"
- 4 Insulators, strain type clevis dry flashover 65KV
- 5 Clamps dead end, strain
- 6 Clevis, long bolt eye
- 7 Machine bolt 3/8" x 18"
- 8 Machine bolt 3/8" x 14"
- 9 Double arming 3/8" x 18"
- 10 Bolts carriage 3/8" x 4 1/2"
- 11 Screws, lag 3/8" x 3 1/2"
- 12 Washers, square
- 13 Washers 3/16" I.D., 1 1/4" O.D. x #14 gage
- 14 Guy clamp, 3 bolt
- 15 Pothead, 31c 5KV outdoor type for 3 conductor
- 16 Conduit, rigid 3" and 2"
- 17 Scaps conduit
- 18 Insulators, pin type, dry type, dry flashover 60KV, 1" pin holes
- 19 Pins, long shank, 1" lead threads
- 20 Connectors, parallel, solderless
- 21 Moulding, wood 1/2" I.D.
- 22 Clevis
- 23 Insulator, porcelain strain
- 24 Plate, guy strain 4" x 8"
- 25 Staples, 3" length 1 1/8" I.D.
- 26 Nails, 16D
- 27 Nails, 30D
- 28 Wire ground #4 TWP
- 29 Guy protector 8'-0" x 16 gage
- 30 Guy clip
- 31 Anchor rod 3/4" x 8'-0"
- 32 Dead man, concrete 18" dia.
- 33 Washer 4" square x 1/2"
- 34 Compacted backfill
- 35 Compacted coral backfill
- 36 Guy wire 3/8" dia. 7 strand high strength, or extra high strength
- 37 Guy hook 3 1/2" length
- 38 Lag screw 5/8" x 2"
- 39 Cutouts 5KV with hanger and disconnecting blades 100 ampere 5KV solid blade
- 40 Crossarm 3 1/4" x 4 1/2" x 12"
- 41 Washer, square curved 2 1/4" x 2 1/4" x 3/16"
- 42 3c. 1/2" 5KV VCL
- 43 Arresters, lightning, pellet type outdoor

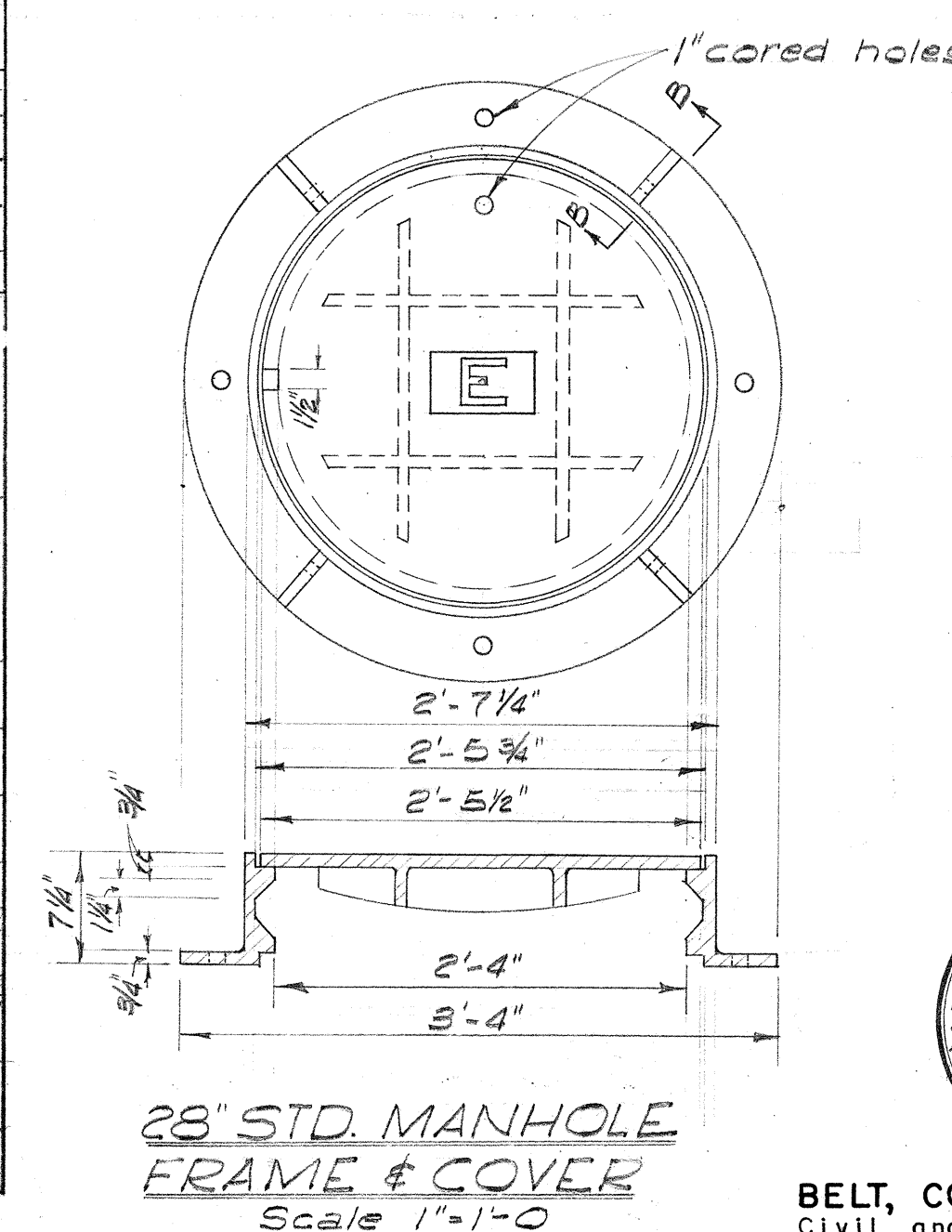
DETAIL OF GUY ANCHOR

POLE SCHEDULE					
POLE NO.	LENGTH FEET	CLASS	POLE TO CONSTRUCTION	GUY ANCHOR	REMARKS
1			Dead End - Cable Riser		Exist. To Be Removed
2			Angle		Exist. To Be Removed & Salvaged
3			Convert to Corner Pole	2	Exist. To Be Salvaged & Reconstructed
A	40-60	3	Angle	1	Salvaged & Reconstructed (See Detail)
B	40-60	3	Through	NONE	Salvaged & Reconstructed (See Detail)
C	40-60	3	Through	NONE	New (See Detail)
D	40-60	3	Corner, Cable Riser	2	New Cable Riser
E	40	3	Through	NONE	New
F	40	3	Double Dead End, Air Switch	2	New Reinstall Air Switch, O.H. Guys & Hardware from Exist. Pole #25
25			Double Dead End, T Air Switch		Exist. To Be Removed Transfer Air Switch And Hardware To New Pole #6
K-3					Remove
K-4					Remove
L-1					Remove
L-4					Remove
L-5					Remove
L-6				1	Exist. Remove Second To Pole L-5, New Guy
9					Remove
10					Remove

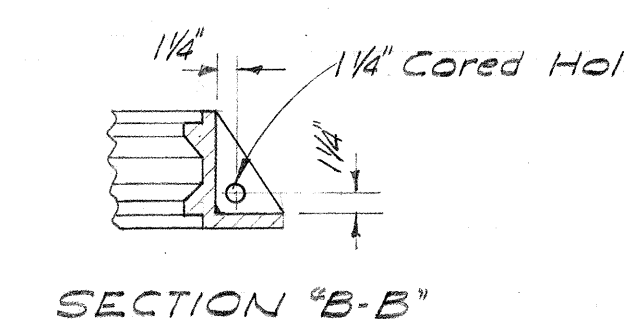


PLAN
Scale 1/8" = 1"

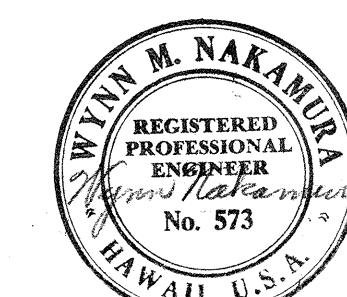
PULL BOX "B"



28" STD. MANHOLE
FRAME & COVER
Scale 1" = 1'-0"



SECTION "B-B"



BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
ELECTRICAL DETAILS
(FT. SHAFTER)

MIDDLE STREET BU-065-1(1) UNIT 3
MOANALUA ROAD US-0720(3) UNIT 3

SHEET NO. 1 OF 1 SHEETS

\$526.49

\$161.70

100