

BOOK 2

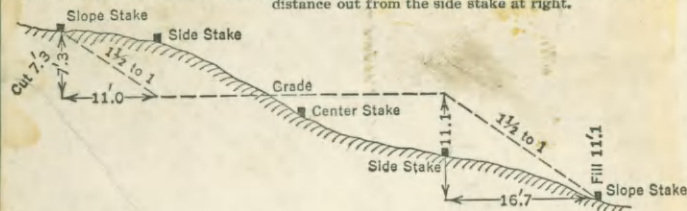
1951-2-3

K 3 F
CROSS SECTION BACK
F 375 S A

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

The paper in this book No. F375 SA
is made of 50% high grade rag stock
with a WATER RESISTING surface sizing.

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DREOGIE II-

1. BUCKETS LIPS PINS BUSHINGS-

PUT DR. 5 BUCKETS ON THIS SPRING -
GB ON LINE - 70 ALTOGETHER - PUT ON
NEW LIPS IN JUNE 20-50.

FOR 1951 - 1 SET BUSHINGS STD-A581

1 " PINS

1 " LIPS - B-755

1952 - 1 SET LIPS

1 SET BUSHINGS

2 OS 1/2 STD.

2. LADDER & SUSPENSION - MAKE USUAL SPRING CHECK, ^{SIX} OF THE LADDER ROLLERS TO BE SENT TO SHOP FOR BUILDING UP. PREVIOUS WELD NOT STANDING UP. CHECK FOR WORN BUSHINGS.

1951 - 8 BUSHINGS -

- 2 LADDER LINES 1" x 5/16"

3. LOWER TUMBLER-

BRARE TUMBLER PUT ON THIS SPRING.
TUMBLER TAKEN OFF MUST BE PUT IN SHAPE
AS A SPARE THIS WINTER.

INSPECT & ORDER WASHERS ETC IN
THE SPRING. PACKING RING MAY REQ
BUILDING UP.

4. UPPER TUMBLER - SAME BUILDING UP REQ'D.

1951 - 6 HEEL PLATES 3/4" ALTS
6 TOE PLATES 1"

1952 - 6 HEEL PL
6 TOE RS.

11 OCT 50

2

DR. II. CONTO

5. MAIN DRIVE - MAIN DRIVE OK.
NEW KEY RECD FOR BRAKE WHEEL
USUAL SPRING INSPECTION.

6. LADDER HOIST - OK. WORKED GOOD
THIS SUMMER.

7. SWING WINCH ETC

POLEY SHAFT & INTER MEDIATE TO
GO TO SHOP - NEED NEW PINION GEAR,
HUB BUILT UP & REBORED - MAKE A
DRAWING OF GEAR. THE BEARING
CAP ON THE ^{SHIFTING FOOT} CONTROL LEVER NEEDS
BUILDING UP, IN SHAFT EYES.

CHECK DRUMS AT SHUT DOWN &
REPORT ANY NECESSARY REPAIRS

1951-2 Bow Lines - 1 - 1" x 800
1 - 1" x 900

1 SPUD LINE
1 GRASS LINE

8. DECK SHEAVES - CHECK ON SHUT DOWN
SOME REBUSHING PROBABLY NECESSARY.
SEND TO SHOP IF SO.

9. SCREEN MACHINERY -

SEEMS TO BE OK, INSPECT
IN SPRING.

UPPER ROLLERS FAIRLY THIN,
CHECK ON STOCK FOR SPARES.

10. REVOLVING SCREEN.-

FOR 1951 - 8 PLS FOR #1 SEC.

- 1 SET INSIDE END BUTT STRAPS

- 64 LIFTING BARS (SHORT) A-5221

- 1 SET UPPER END WEARING
PLATES - A-8508.

WELD LIGHT WEARING PLATE IN SCREEN SUPPORT RIES.

FOR 1952 - AN ENTIRE SET OF

SCREEN 12 - STRAPS - BARS -
UPPER & LOWER END WEARING BARS,
OBSTR. SEGMENT.

11. HOPPER ETC.

NEW LINER PL. ON PORT & STD. SIDES

(3 PLATES ALTOGETHER) OLD PINS WORK OK
IN ^{DWP} HOPPER PATCH STD.

SPOUT REQ 3 BOTTOM WEARING BARS

SAVE ALL - NEW GRIZZLEY BARS ON
LOWER SECTION REQD. - A SET
OF WEARING PLATES BETWEEN
RAILS BELOW BARS.

CHUTE - 3 SETS BARS FOR 1951 - B-5123

~~8 SETS~~ ^{8 SETS} PLATES - (A CENTRE ONE ONLY
REQD.) AS PER DWG.

FOR 1952 - 3 BARS HOPPER LINER PL.

12. SCREEN CASING - OK.

ORDER NEW SET OF LOWER SCREEN
CASING STRIPS.

13. DISTRIBUTOR ETC -

SUFFICIENT PATCHING MATL ON BOARD INCLUDING STARTING ANGLESE LIVER RS AS PER 13-7 -

CONSIDERABLE PATCHING REQD ON TABLES. SEND WORN RIFFLES TO SHOP

1951 - 100 NEW RIFFLES - 30" LONG.

- ~~1 SET OF OLD~~

TAIL SLUCE RUBBER WORN ON UPPER END CORNERS. REQ. 4 NEW PIECES FOR THESE SECTIONS NEXT YEAR.

1951 - 2 PIECES OF RUBBER - $\frac{5}{8}$ " x 48 x 36 - 4

14. STACKER MACHINERY - UPPER STACKER

DRUM HUB TO BE SENT TO SHOP

TO HAVE HUB MACHINED & WASHERS MADE TO FIT BEARING. ^{ALL} BEARINGS

ON DRIVE REQ. BABBITTING - NEW BELT

LAGGING ON UPPER DRUM.

INSPECT ROLLERS - 4 SET ROLLERS REQD.

INSPECT FOR LOOSE FITS EVERYWHERE.

PUT NEW BELT ON IN SPRING - OR.

AL. COVERING PUT ON STACKER.

NEW STACKER DRIVE BELT ON BOARD.

15. PUMPS. ETC.

AT SHUT DOWN INSPECT & SEND PARTS TO SHOP REQ. REPAIR.

STBD TAIL SPRAY PIPE VERY THIN - SHOULD HAVE A SPARE MADE UP - (6" Ø)

16. SPID & SUSPENSION - CHECK OVER IN SPRING.

17. HULL - OK - 2 WELLHOLE PLS
 & 1 ON OUTSIDE PORT NEED
 REPLACING FREEZE DOWN THIS
 WINTER, TRENCH DUG TO ALLOW
 PAINTING ON HULL IN SPRING.

18 SAND ELEV. - SAND IN LOWER
 DRUM BEARING TO HAVE OUTLIDG
 FITTING ADJUSTED.

SPROCKETS & PINIONS NEED TO
 BE CHANGED & 2 CHAINS REQD.

SHEAR PINS TOO WEAR - HAVE BEEN
 REPLACED WITH $\frac{1}{2}$ " BOLT.
 NEW BELTS PUT ON SHORT WHILE AGO

19. MISCELL - AS FOR 1950

POINTS TO BE CHECKED WHEN- EVER POSSIBLE.

1. 26 JAN. '51 - ON DR. 6-9 #11 - CHECK S.W. WINCH
PULLEY SHAFT PINION #A-5134 TO SEE IF THE
1/2" HUB WOULD BE SATISFACTORY IN ALL ABOVE INSTALLATION.

✓ OK & THE BETTER STYLE FOR DR. 11

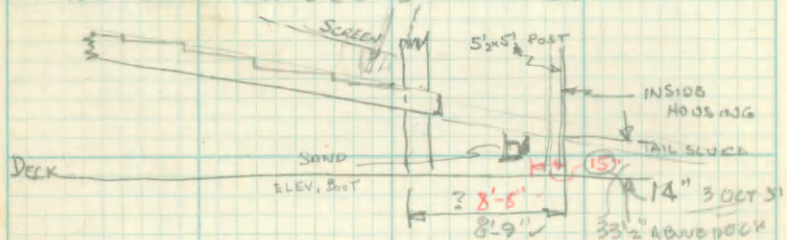
✓ OK & ONE NOW IN OPERATION ON DR. 6 - 13 FEB. '51

✓ OK FOR DR. 9 ALSO - 3 OCT. '51

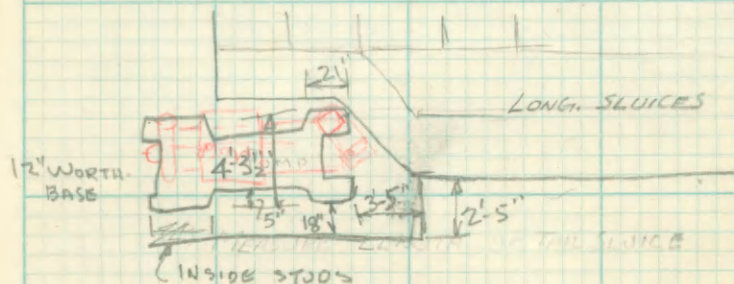
2. DR. 6 - (1) CHECK LENGTHS OF DISTRIBUTOR SUPPORT
CHANNELS REQ'D FOR EACH POSITION BETWEEN
SLOPING BEAMS - (SHOULD BE 10'-8 3/8" APPROX)

10'-8 3/8" OK

(2) CHECK DISTANCE FROM INSIDE STERN
HOUSING TO ONE OF MAIN CHORD POSTS - PREFERABLY
THE ONE AT LOWER END OF SCREEN



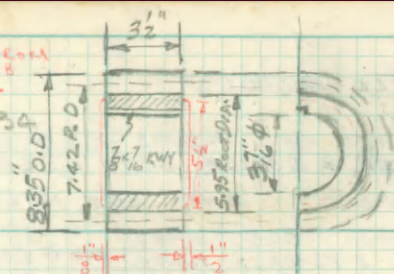
- (3) GET DIMENSIONS OF 4" PUMP IN ITS NEW
POSITION BY NORTHINGTON TO SEE IF IT
CONFLICTS WITH NEW TABLE SUPPORTS



- (4) MEASURE TAIL SLUICE LENGTH

KEY DRAWN FROM
THIS SIDE IF HUB
IS ON

Pinion A-5134



BUTTER DWG 15546 SHOW HUB AS INDICATED
IN RED.

3. DR. 11 - SCREEN SPRAY PIPE

LOWER SECTION - C TO C FLANGES - 19'-8 1/2"
ON YUBA DWG
203464

ON 2 OCT. I MEASURED ONLY 14'-3 1/4"

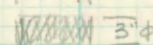
CHECK

4. (A) CHECK DR. 9 FOR LENGTH & SIZE OF S.W. WINCH
FRICTION SPRINGS - SAME FOR REST OF DREDGES

DR. 9



DR. 8



10 TURNS OF 5/16" MATL

DR. 6

13
4. ALL DREDGES-

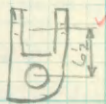
- SIZE OF SPRINGS USED ON BOTH
UPPER & LOWER SPUD KEEPERS. -

Nos. 5166-A & B ARE 16" LONG FREE - B IS INSIDE

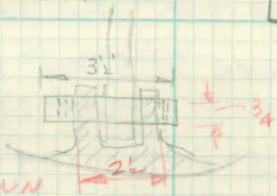
Nos. 1-5252 OUTER, | ARE 8" LONG, FREE
& 12-8375 INNER, |

5. ALL DREDGES- S. WINCH CLUTCH PINS & LINKS-

1. CHECK LENGTH OF DR. G FORKED LINK PIN.



2. TOGGLE LINK PINS



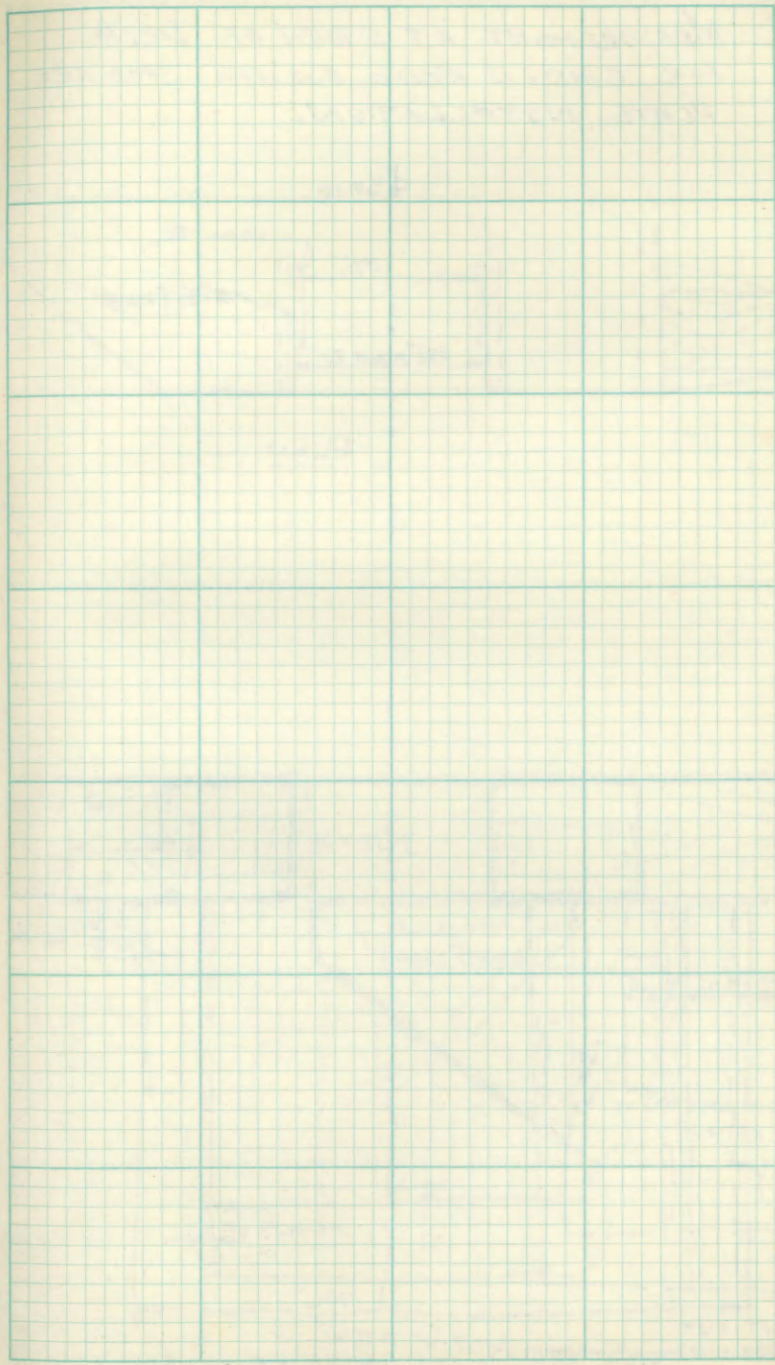
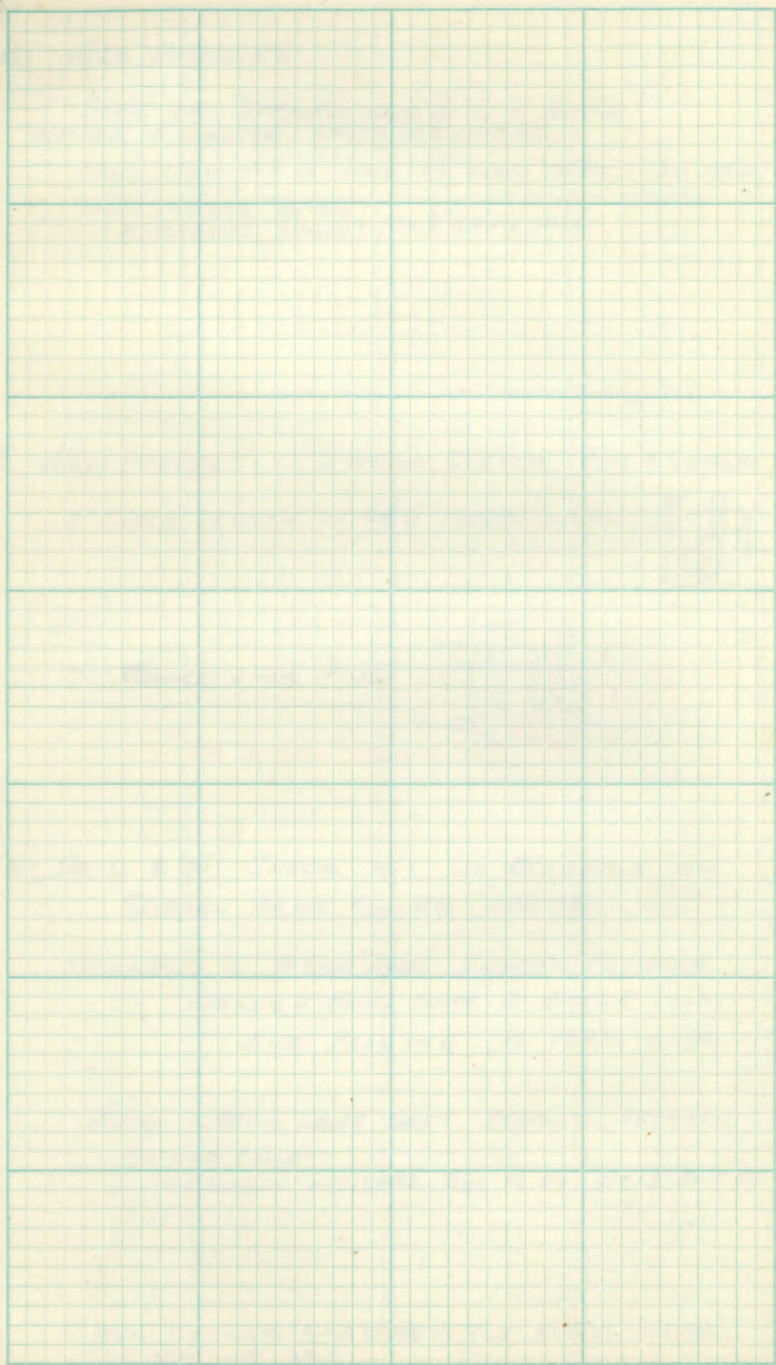
6. DR G & 9- CHECK NOS. OF BEARINGS ON
SCREEN DRIVE ROLLER SHAFTS-

ACCORDING TO B. ERIE DWGS- BEARING BETWEEN
ROLLER & BEVEL GEAR IS 31012 B (CAP)
END BEARING IS 12976 A (SOLID)

ALSO CHECK DRIVE SHAFT BEARING BETWEEN
PINION & PULLEY-

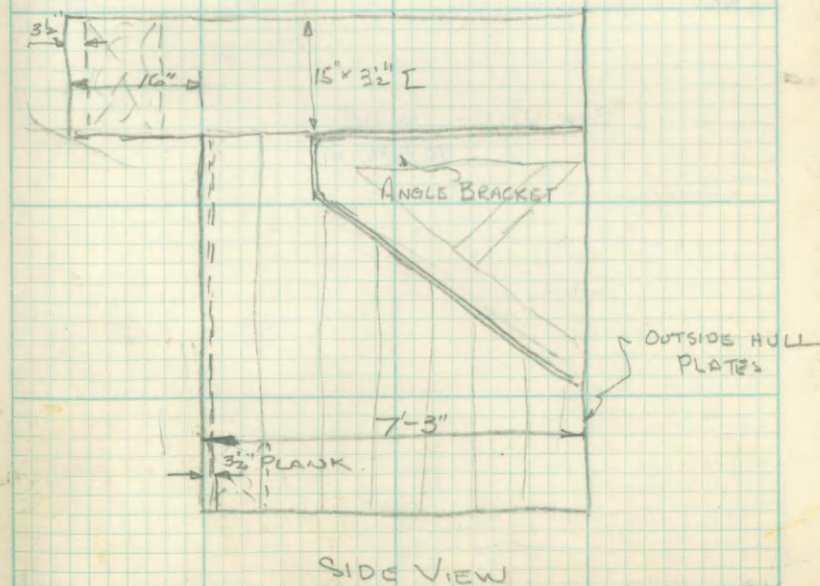
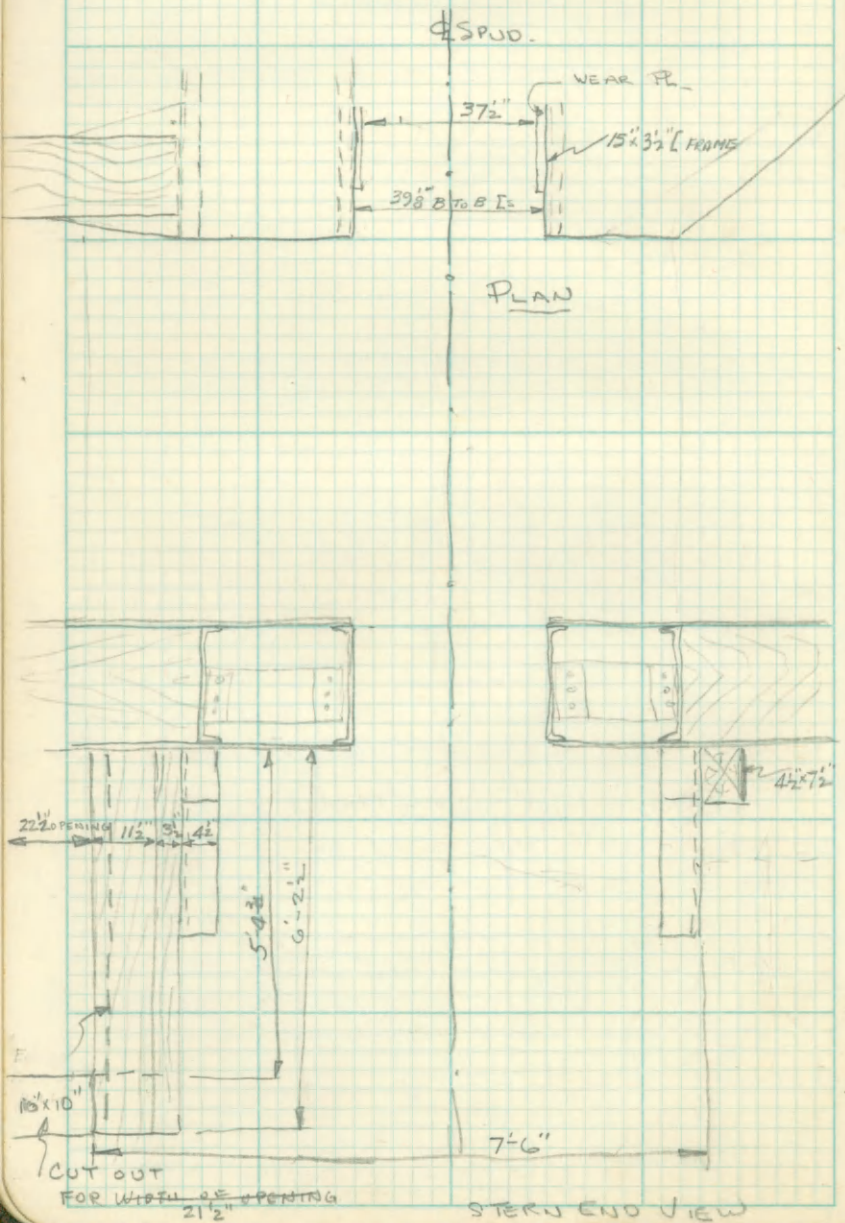
RECORDS INDICATE THIS TO BE 31012-D CAP.

ONE COMPLETE (BASE & CAP) IN FILE AT S.W. CORNER
OF MACHINE SHOP.



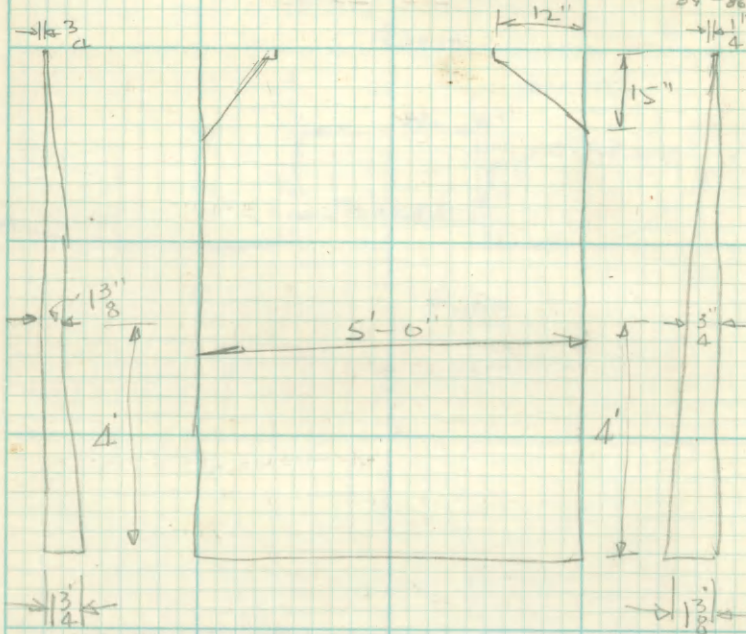
2 APR. '51

MEASUREMENT AT STERN OF DR. 4
FOR CAISSON REQD DURING SPUD KICK
PLATE INSTALLATION.



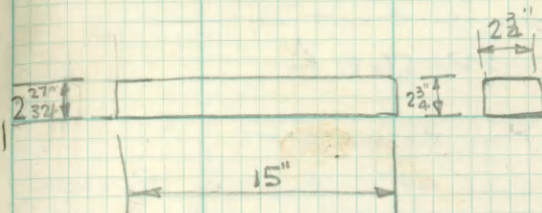
SKETCH OF PRESSED-IN SECTION
OF STERN REQUIRING FILLING.

PRESSED IN BY OLD ^{SHIP DOCK} CASTING #8375 NOW REPLACED
BY #8690.

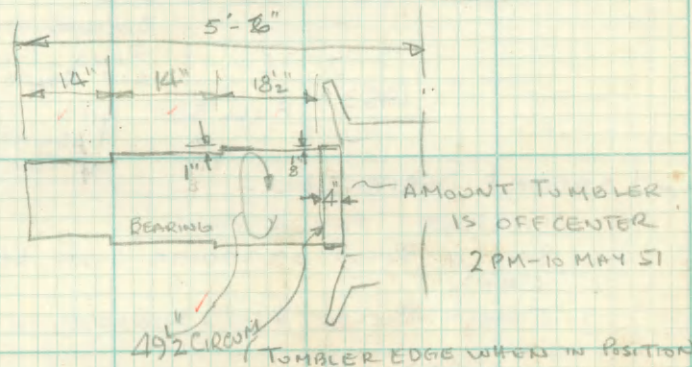


SEE W.O. - 610A
24 APR. 51

DRG - U-TUMBLER



U-TUMBLER KEY - ONE REQ'D



DREDGE REPAIR SCHEDULE 1951-'52

DREDGE 4.

1. Buckets-Lips-Pins Bushings-

69 ON LINE NOW. ALL OK. PRESENT
LIPS MUST BE CHANGED ABOUT MID-OCTOBER.
HAVE A WELDED SET ON HAND. HAVE
SUFFICIENT BUSHINGS ON HAND FOR THIS
RELIPPING

FOR 1952 - FULL SET LIPS

- " " BUSHINGS STD

- " " PINS - (GOT)

- " " LIP BOLTS

1953 - FULL SET LIPS

- " " BUSHINGS

- " " LIP BOLTS

2. LADDER & SUSPENSION -

INSPECT - PATCH PAN

SHOULD BUILD UP LADDER SUSP. BEARING
CAPS.

CHECK ROLLERS & SEND WORN ONES TO SHOP

1952 - 12 ROLLER BUSHINGS - E-8132

20 " PINS - H-8113

LADDER LINES OK.

3. LOWER TUMBLER -

MUST BE TAKEN OFF IN SPRING & CHECKED

1952 - NEW WASHERS - 4 FELTS

MAY REQ. NEW BEARINGS.

CHECK ROCK GUARDS - REPAIR IF NECESSARY.

4. UPPER TUMBLER -

BUILD UP UNDER HEEL RS

1952 - 12 WEDGES REQ'D.

SET OF BOLTS - (18)

6 HEEL RS - A-7056

EAR RS OR

1953 - 6 HEEL RS - A-7056
E-7056

2 OCT 51

5. MAIN DRIVE-

MAIN DRIVE TO BE CHECKED OVER
& TIGHTENED.

RUNNING WELL

MAIN DR. BRAKE BLOCKS- REQ. 6 NEW BLOCKS

6. LADDER HOIST-

CHECK IN SPRING - WORKING OK.

7. S. WINCH & CONTROLS.

TAKE OFF BOW & SPUD LINE & GANG-
PLANK DUMPS AT SHUTDOWN & SEND TO
SHOP FOR RE-BUSHING & REPAIR.

CARRY OUT USUAL INSPECTION.

1952- 2 BOW LINE - 1" x 1200

1 STERN " - 1" x 1000

1 GRASS " 1/2" x 1500

THIS DUMP HAS
BROKEN BOLT IN BEARING

FIX THIS WHEN DUMP IS OUT.

8. DECK SHEAVES-

SAME AS LAST YEAR

2 SHORE FLOATS AS PER 7191

9. SCREEN MACHINERY-

TAKE OFF INTERMEDIATE & PUT IN
NEW BEARING BOLTS IN SPRING. -

SEND IN OLD BOLT FOR SAMPLE

CHECK ROLLERS - APPEAR OK.

10. REVOLVING SCREEN-

PRESENT SCREEN RS SHOULD DO FOR
1952 WITH PATCHING. - STRIPS 8" R LENGTH -
REQ. 20 STRIPS. - LOWER SCREEN TREAD NEEDS SOME
RIVETTING.

1952- 50 LIFTING BARS - K-2165

50 JOINT " - H-8165

36 INSIDE BUTT STRAPS - E-7000

9 SCREEN END " - B-7000

1953- COMPLETE SCREEN OUTFIT - BARS,
UPPER & LOWER LINER RS & STRAPS

DR. 4 CONTD

11. SCREEN CASING-

NEEDS CONSIDERABLE OVERHAULING
& PATCHING

NEW RUBBER REQ'D FOR STD

1952- ORDER SUFF. RUBBER TO REWINE
ONE SIDE, (SHOULD TRY LINATEX)

12. HOPPER - SPOUT, CHUTE & SAWGALL-

(a) HOPPER - (1) PUT WALK AROUND HOPPER

(2) ORDER SPECIAL LIGHTS FOR BASE SIDE
HOPPER CORNERS

(3) PATCH RS WHERE NECESSARY

1952- 2 CORNER RS - (A-8127)
2 SIDE LIVER PL - C-8127

(b) SPOUT - 1952- 2 CURVED PWS
8 LONG WITH BOLTS } Duct
8 SHORT } 11-5
11-6

(c) CHUTE - 1952- 1 WEARING BAR C-8128
1 LIP R - C-8128

(d) SAWGALL - GEN. OVERHAUL REQ'D ENTAILING
CONSIDERABLE WORK.

WILL WELD ON WEARING BARS TO
GRIZZLY RAIL IN SPRING - HAVE BARS ON BOARD

1952- SET OF RIFFLES

16 GRIZZLY BARS OF A-7037
12 - B-7037

13. TABLES - DIST. - & TAIL SLUICE-

TABLES IN GOOD SHAPE -

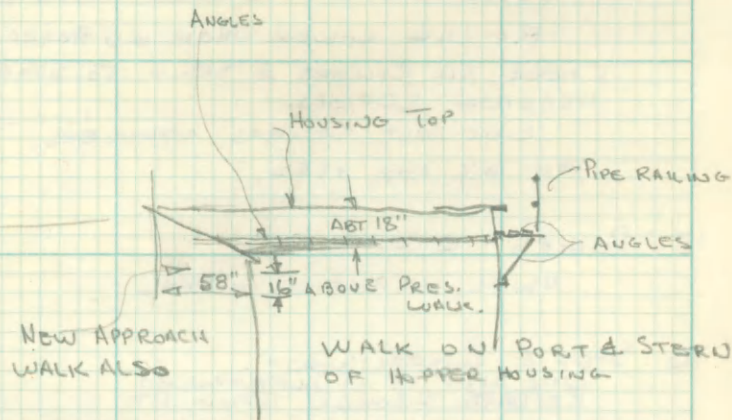
DIST. REQ. CONS. PATCHING. - ALL DIST PARTITIONS
MUST BE CUT & PATCHED. TRY OLD RUBBER ON
THESE PARTITIONS.

NO STARTING LS REQ'D.

28 MATS & XPM.

TAIL SLUICE RUBBER. OK.

1952- RUBBER SUFF. FOR TWO TAIL SLUICES.



DR. 4 CONT'D

14. STACKER MACHINERY-

DRIVE OK. - CHECK OVER & TIGHTEN

RE-LAG LOWER DROM ON BOARD IN SPRING

CHECK ALL ROLLERS & SEND TO SHOP THOSE
NEEDING REPAIRS.

LINK-BELT ROLLERS APPEAR OK.

PAN OK FOR 1952.

15. PUMPS - ETC.

USUAL INSPECTION IN FALL

16. SPUD & SUSPENSION-

ONE SPUD TO BE OVERHAULED
REPLACE BROKEN SPUD PT

FREEZE DOWN AT STERN TO REPLACE
CUT 10x10" TIMBER.

17. HULL & SUPERSTRUCTURE-

SHALL HOIST STILL REQ'D.

TIE RODS HOLDING OK.

18. SAND ELEVATORS-

GENERAL OVERHAUL

TWO NEW BELTS REQ'D.

19. MISC-

SAME AS 51

DREDGE 111. BUCKETS ETC

68 BUCKETS ON LINE
SET LIPS TO BE CHANGED IN ABOUT AUGUST

FOR 1952 - 1 SET LIPS

1 " PINS

55 BUSHINGS (STD) (A-S18)^{TD}

1953 - 1 SET LIPS

35 BUSHINGS - STD A-S181

35 " 1/8 O.S. B-S181

2. LADDER ETC

TOP WEARING PL. AT LOWER END NEEDS
TO BE REPLACED PATCHED & NEW L SUPPLIED

CHECK REMAINDER OF LADDER & THE
ROLLERS, ^{ABOUT 5} SEND ANY NEEDING REPAIR TO SHOP ^{GO TO} (S)

1952 - 10 ROLLER BUSHINGS F-8274

10 " THROST PINS

LADDER LINES ETC.

3. L. TUMBLER:-

CHECK OVER - RUNNING OK - MAY
REQ. WASHERS,

FIX UP SPARE TUMBLER IN YARD.

ROCK GUARDS - NOT AS PER DWG.
SEND IN OLD ONES FOR REPAIR & KETRA

4. U. TUMBLER:-

SOME BUILDING UP IN SPRING

1952 - 6 HEEL RS. C-8136

6 EAR RS.

2 SETS OF HEEL R BOLTS.

1953 - 6 HEEL RS

6 EAR RS

5. MAIN DRIVE

OK, - CHECK OVER AS FOR '51

MAIN DR. BRAKE BAND MAY NEED RELINING
CHECK ON SHUTDOWN.

2 OCT '51

DR. II CONT'D

6. LADDER HOIST

OK - BRAKE BAND MAY NEED RE-LINING
CHECK ON SHUT-DOWN.

7. SWING WINCH & CONTROLS

CHECK OVER - DRUMS MAY NEED
BUSHINGS RE-NEWED - REPORT REPAIRS
AFTER CHECKING.

1952 - 2 BOWLINGS (1 - 1" x 800'
1 - 1" x 900'
1 SPUD LINE - 3/8" x 400'

8. DECK SHEAVES ETC

SOME ARE BADLY WORN - WILL CHECK
OVER ON SHUT-DOWN & REPORT REPAIRS NECESSARY
OR SEND TO SHOP - ESPECIALLY GUIDE ROLLERS.

9. SCREEN MACHINERY

APPEARS OK - UPPER ROLLERS GETTING
VERY THIN - CHECK FOR SPARES

10. REVOLVING SCREEN

SCREEN RIB ANGLE WEARING STRIPS PUT
ON THIS SPRING & ARE OK.
PRESENT SCREEN RS SHOULD LAST MOST OF 1952 SEASON.

FOR 1952 - FULL SET LOWER END WEARING BARS

REMAINDER

SET LIFTING BARS SHORT
SET " " LONG

16 INSIDE END BUTT STRAPS - D-7051
24 BUTT STRAPS

FULL SET SCREEN R. ALL
SECTIONS

8 OBSTRUCTION SEGMENTS

1953 - ABOVE SHOULD LAST FOR
1953 ALSO

UPPER END LINER RS. ALSO

DR. 11 CONT'D

11- HOPPER-

THREE RS ON EACH SIDE OF HOPPER
REQ'D FOR 1952 AS IN OPP. SKETCH.

ALSO 2 WING RS

15 - 20" BUCKET PINS



SPOUT-3 BOTTOM LINER BARS

"8362-C-D&E FOR 1952

& SAME FOR 1953,

CHUTE- PUTTING ON A SET OF
NUGGET-CATCHER BARS 3000.

1952- 69 NUGGET CATCHER BARS- B-5123

8 LOWER LINER BARS (2 SETS)
(ONLY) DWG. 7094.

SARGALL- GENERAL REPAIR
NEW BOTTOM REQ'D IN
PART OF UPPER TABLE. ORDER
MAT'L WHEN AMOUNT NEEDED IS
DETERMINED.

CHECK W.O. 154 A. - GRIZZLY BAR DOTS
NOT ORDERED FOR
1953

12. SCREEN CASING-

O.K. - PATCH WITH RUBBER WHERE
NECESSARY

13. DIST. - TABLES - ETC.

WILL REQ. 36 DIST. LINER RS.

8 STARTING L's

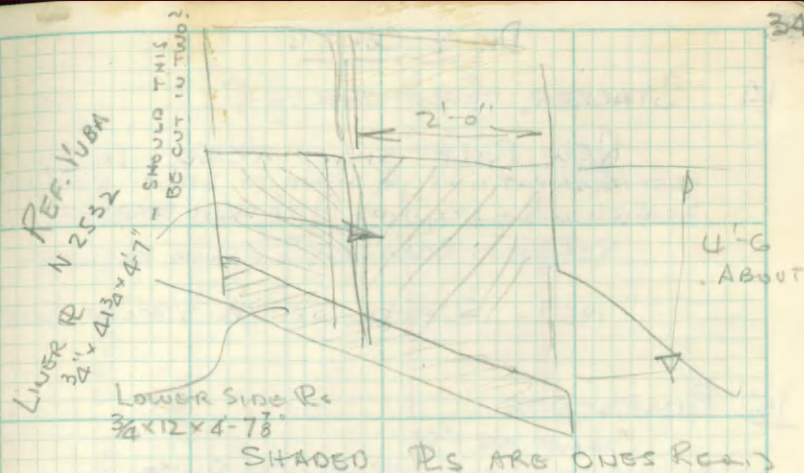
SOME PATCHING TO BE DONE ON TABLES.
150 NEW RIFFLES - SEND WORN
ONES TO SHOP.

24 MERCURY STOP WEAR RS.

TAIL SLUICE ROBBER WILL REQ CHANGING
SOMETIME IN 1952.

1953-SUFFICIENT RUBBER FOR LONG SECTION
ON BOTH SIDES.

2 PCS - 5' x 48" v 36'-4"

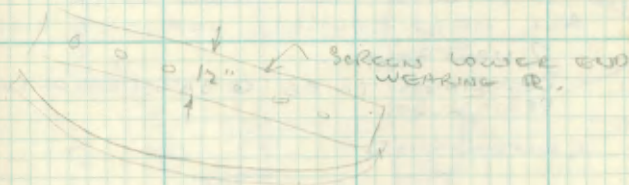


SHADED RS ARE ONES REQ'D



DUMP HOPPER WING R

2 REQ'D



DR. II. CONT'D

14- STACKER MACHINERY-

NEW PULLEY SHAFT REQ'D. TAKE
OLD ASSEMBLY OUT & SEND TO SHOP INCLUDE
BEARINGS - INCLUDING UPPER DRUM BEARINGS.

REBABBIT BEARINGS ON SNUG ROLLER.

1952- 5 SETS OF LB STACKER ROLLER

15. PUMPS-ETC.

SAME AS '51

CHECK FOR SPRAY PIPE DOWN
NEEDS TO BE IN 2 SECTIONS.

16. SPUD ETC

OK. - CHECK OVER IN SPRING

17. HULL -

TWO RS IN WELL-HOLE NEED
REPLACING. (ONE ON EA. SIDE & SIMILAR)
FREEZE DOWN DURING WINTER
(POSITION OF RS IS BY LOWEST CHAINS BEAM)

18 SAND ELEV -

2 NEW RAILS COMPLETE OVER HULL WITH
ALL NEW BUCKETS FOR ONE SIDE.

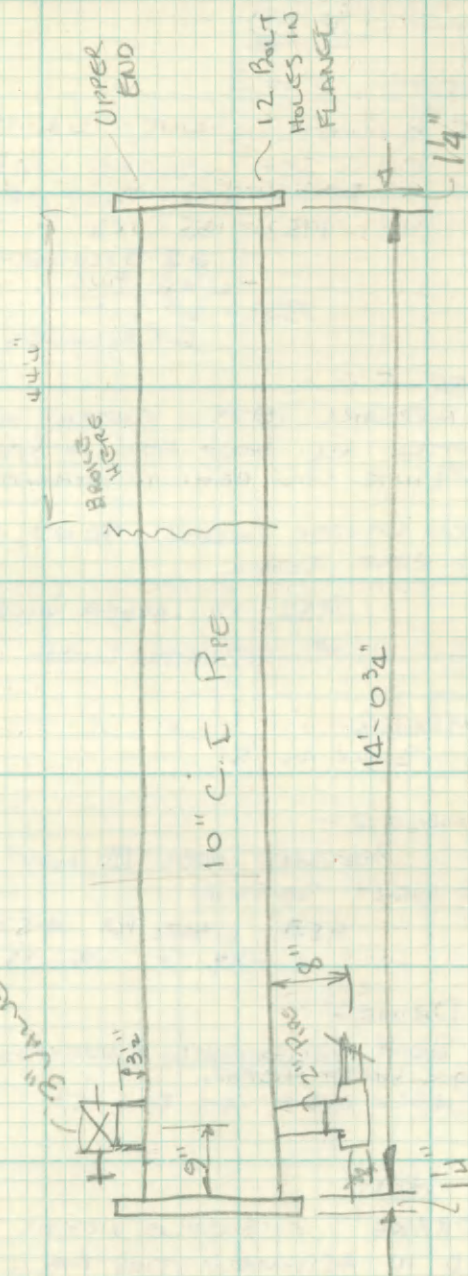
2 NEW BELTS.

BEARINGS TO BE REBABBITING ON LOWER
DRUM ALSO.

19. Misc-

SAME AS 1951

DR. II SPRAY PIPE - LOWER SECTION BROKE 2 OCT 51



37
DR. 9

1. BUCKETS - ETC -

65 BUCKETS IN LINE - 62 AT PRESENT

ON 6 SEP. WELDED LIPS PUT ON
SHOULD LAST MOST OF 1952

1952 - 65 LIPS

- 65 BUSHINGS - C-8357 STD

- 65 PINS

1953 - 65 LIPS

65 BUSHINGS

2. LADDER - ETC -

APPEAR OTR - CHECK OVER &

TIGHTEN ALL BOLT ETC IN SPRING

UPPER SUSP. LINK STILL REQ. ADJUSTMENT.

CHECK LADDER ROLLERS - SEND IN ANY
THAT REQ. REPAIR.

1952 - 12 LADDER ROLLER BUSHINGS - C-8119

* - 2 LADDER LINES - 1" x 400'

3. L. TUMBLER -

SAME AS '51

4. U. TUMBLER -

PRESENT HCEL RS MAY LAST MOST
OF NEXT SEASON

1952 - 6 HCEL RS - A-5278

- 22 " " - BOLTS

5. MAIN DRIVE -

SAME BULLWHEEL ADJUSTMENT REQ'D
AS FOR LAST YEAR.

CHECK OVER AS FOR '51

6. LADDER HOIST -

BRAKE TURNBUCKLE NEEDS REPAIR

SEND IN ASSEMBLY THIS FALL TO HAVE
NEW ONE MADE & CHECK FOR DWG.

CHECK AS FOR '51

38
3. Oct '51

DR. 9 CONTD

7. S. W. INCH ETC.

SPUD & STERN LINE DRUMS MAY
REQ. - RE-BUSHING. CHECK OVER THIS
FALL & IF NECESSARY SEND TO SHOP;

SPRINGS ON SOME OF THE FRICTIONS
SEEM WEAK. SPARES SHOULD BE ORDERED.

USUAL CHECK AS FOR '51.

1952 - 2 BOW LINES - $\left. \begin{array}{l} \frac{3}{8} \times 800' \\ \frac{3}{8} \times 900' \end{array} \right\}$

1 GANG PLANK LINE - $\frac{3}{8} \times 250'$

1 STERN LINE

1 GRASS - $\frac{3}{8} \times 1500'$

8. DECK SHEAVES ETC

SAME AS '51.

9. SCREEN MACHINERY -

SEEMS TO BE SOME MISALIGNMENT -
THE LOWER ^{IDLER} ROLLER APPEARS SWASH BOARDY
& DRIVE ROLLER SLIPS AT TIMES. LOWER
ROLLERS SHOULD ALSO BE MOVED CLOSER
TOGETHER.

SEND LOWER IDLER ROLLER TO SHOP
TO TRIM UP FACE.

CHECK BEARINGS ETC

DR. 9 - UPPER ROLLER SHAFTS COULD BE
ABOUT 3" LONGER.

10. REVOLVING SCREEN -

PRESENT ASSEMBLY SHOULD LAST
FOR 1952.

1953 - FULL COMPLEMENT
OF RS - UPPER & LOWER
LIVER RS - PARS ETC

11. SCREEN CASING -

SEND WORN SCREEN LOWER END
LINER PDS D-8139 TO SHOP FOR
STRAIGHTENING & TRIMMING & SEND
CUT FOR LINER PDS ON SCREEN CASING
(LOOK UP SIZE).

PATCH WHERE REQ'D.

12. HOPPER ETC -

① HOPPER - NEED STBD WING P.
PATCHING NEEDED.

② SPOUT - 4 WEARING BARS - E-8136
4 FOR 1953, ALSO.

③ SAWALL - OVERHAUL & PATCH
AROUND WELL HOLE.

4. CHUTE - PATCH WHERE REQ'D.

13. DIST. TABLES - ETC.

CHECK OVER & REPAIR WHERE
NECESSARY -

①2 MERCURY STOP COVER PDS - USE 4 P.

RIFFLES & STARTING G. SUFF. ON BOARD.
TAIL SLICE RUBBER MAY LAST NEXT SEASON

FOR 1953 - COMPLETE SET OF TAIL SLICE
RUBBER.

14. STACKER MACHINERY -

DRUM SHAFT & DRIVE SHAFT BRGS.
NEED REBABBITING.

BELT FROM #7 MAY BE ANOTHER
YEAR. - CHECK STOCK FOR SPARE.

PAN OK.

DOUBLE STACKER SUSP. STRAPS SHOULD BE
PUT ON THIS SPRING

STEAM HEATING SYSTEM CHANGED AS PER '51

3" WATER LINE FOR HOPPER - CONNECT
TO NOZZLE FOR DRY WASHING

DR. 9 CONT'D

15. PUMPS ETC.

SAME AS 'SI. STAD SUMP
BOX HAS BEEN REPAIRED.

16. SPUD & SUSP. -

APPEARS OK - (REPAIRED
~~SOME LOOSE RIVETS ON REPAIRED~~
SPUD) CHECK OVER IN SPRING. -
SHEAVES ETC. SEND IN SPARE
SPUD TO SHIP.

17. HULL - OK.

18. MISC -

SAME AS 'SI
PROILER INSPECTED & OKED
POWER CABLE MUST BE CHANGED
NEXT SPRING. (REVERSE)

DREDGE C

1. BUCKETS, ETC -

76 BUCKETS IN LINE - ALL OK. CHANGING LIPS ABOUT MID OCT.

1952 - SET LIPS

✓ BUSHINGS

1953 - SET LIPS

✓ BUSHINGS

✓ RNS.

2. LADDER & SUSP -

OK. BR LADDER - SOME PATCHING. CHECK OVER. ROLLERS TO BE REPAIRED TO GO TO SWP.

1952 - 24 ^{POWER} BUSHING

- 2 LADDER LINES 1" x 500

3. L. TUMBLER -

CHEEK BEARINGS IN SPRING - APPEAR OK.

4. U. TUMBLER -

U. TUMBLER ASSEMBLY TO BE REPLACED WITH 2ND HAND ASSEMBLY IN B.C.R.

1952 - 6 HEEL RS

BOLTS

1953 - 6 HEEL RS.

5. MAIN DR.

INSPECT & OVERHAUL WHAT IS NECESSARY DURING U. TUMBLER EXCHANGE

6. LADDER HOIST -

THOROUGH OVERHAUL -

DRIVE SHAFT WORN

FRICTIONS RENEWED

WILL SEND ASSEMBLY TO SHOP AT SHUT DOWN.

BASE OF LADDER HOIST TO BE LEVELLED TO SUIT M. DRING.

OCT. 3-51

DR. G CONT'D

7. S. WINCH - ETC.

SEEMS OK. - GEN. OVERHAUL IN SPRING

1952 - 1 Bow Line 1" x 800'

8. DECK SHEAVES -

OK AT PRESENT. - A FEW TO BE
SENT TO SHOP TO HAVE FLANGES BUILT-UP.

9. SCREEN MACHINERY -

2 UPPER SCREEN ROLLERS MUST BE PUT
IN THIS SPRING. DRIVE ROLLER ALSO BUT
HAVE REPLACEMENT ON BOARD.

TREADS OK.

10. REVOLVING SCREEN -

1952 - GOOD

1953 - COMPLETE ASSEMBLY,

11. SCREEN CASING -

REPAIR TO FIT NEW TABLES.

12. - HOPPER, - ETC.

HOPPER - 1952 - 1 LIP B 8-8136
SOME PATCHING

SPOOT 1952 - 6 BARS IF E-8136

CHUTE - - 4 LOWER BARS PER DWG 1115

SAVEALL - O.K.

13. DIST. - TABLES & SLUICES

ALL NEW,

DR. 6 - CONT'D

14. STACKER MACHINERY -

ALL OK.

CHECK OVER IN SPRING.

ABOUT 12 IDLER TROUGHING ROLLERS REQ'D.

4 CENTER
8 SIDE

15. PUMPS & WATER PIPING.

12" WORTHINGTON MUST BE
CHANGED. A NEW 4" R.J. ALSO REQ'D.PORT SUMA ^{BOXES} TO BE PUT IN NEXT SPRING.
REQ. PUMP INSPECTION & SEND TO SHOP
ANYTHING REQ. REPAIRS1" TABLE SPRAY-PIPES TO BE
RENEWED WITH TABLES - BLK. PIPE

16. SPUD & SUSP -

NEW SPUD - (DR. S's) TO REPLACE
PRESENT ONE NEXT SPRING. ALL RS
LOOSE - REQ. SHOP OVERHAUL.FREEZE DOWN STERN TO INSTAL
NEW SPUD CLAMP.

BULKHEAD TIMBERS & UPPER TIMBERS OK.

17 HULL -

STILL NEED MORE BUOYANCY
INQUIRE RE PONTONS

FORWARD X-TRUSS TO BE INSTALLED.

18 MISC -

HOUSING WAS REPAIRED BUT NEW
DECK CANVAS & A PAINT JOB STILL REQ'D.
SEND ACETYLENE APPARATUS TO SHOP.

DREDGE 8

1. BUCKETS ETC.

PRESENT BUCKET LINE TO BE
TAKEN OFF THIS FALL, LIPS REMOVED &
BUCKETS SENT TO B. CREEK FOR OVERHAUL.
NEW BUCKET LINE TO BE PUT ON IN SPRING.
68 BUCKETS IN LINE.
WELDED LIPS PUT ON IN SEPT.

REQ. FOR 1952-

68 NEW BUCKETS & BUSHINGS.
68 PINS A-SIDE
68 LIPS & BOLTS

REQ. FOR 1953-

68 LIPS
68 BUSHINGS (STD)

2. LADDER - ETC

LOWER END BOTTOM WEARING PLATE TO
BE PUT ON IN SPRING. HAVE PLATE ON HAND.
TWO SHORT ^{BAR} PLATE IN FRONT OF THE ABOVE
WEARING PLATE HAVE TO BE REPLACED ALTHOUGH
HAVE THESE MADE UP.

SOME LADDER ROLLERS FOR SHOP REPAIR.
LADDER A BIT OFF CENTER ON
SUSPENSION SHAFT. MUST BE SHIFTED
TO PORT & A SPLIT SPACER PUT IN.
(SEND IN THICKNESS OF SPACER REQ'D)

REQ. FOR '52 -

SUFFICIENT WASHERS FOR 4 ROLLERS
HAVE ENOUGH BLANK BOLTS. REQ'D
8 ROLLER BUSHINGS (F-827L)
2 LADDER LINES - 7/8" x 500'

THE SPECIAL LADDER LINES SEEM
TOO SOFT & TEND TO CRUSH ON DRUM

10 OCT. '51

Get size of S.W. friction
springs for Dr. 9.

3 L. TUMBLER -

SAME AS 1952 - WASHERS NOT
PUT IN LAST YR.

4. J. TUMBLER -

BUILDING UP UNDER ^{HEEL} RS REQ'D &
SOME ALONG SIDES OF HEEL R. WEDGES
MIGHT HELP. DR. MASTER TO MEASURE
FOR SIZE.

1952 - 6 HEEL R. OF A-5277
SET BOLTS & WASHERS

1953 - 6 HEEL R.
BOLTS
6 CAR RS.

5. MAIN DRIVE -

SAME AS '51

6. LADDER HOIST -

NEW BELT REQ'D - ENDLESS BELT.
FOUNDATION FOR BRAKE ^{BEARING} HOLD-DOWN
BOLTS SHOULD BE KEYED TO DECK IN
SPRING.

USUAL SPRING INSPECTION.

LADDER HOIST PINION NEEDS NEW
BUSHING. SEND ASSEMBLY TO SHOP.

7. S. WINCH ETC -

BOWLINE DRUM TO BE CHECKED AGAIN

1952 - 6 FRICTION SPRINGS. SEE SIZE

2 BOWLINES - 1x900
1x800

8. DECK SHEAVES

SAME AS 1952

3 NEW DECK SHEAVES REQ'D FOR 1952

9. SCREEN MACHINERY

THRUST WASHERS REQ'D ON UPPER IDLERS.
SEND IN THICKNESS AT SHUTDOWNS.

SKIDS REQ'D UNDER UPPER PORT
IDLER BEARING.

~~CHISEL IN~~

BRASS BRGS REQ'D FOR UPPER IDLER.

10. REVOLVING SCREEN.

8 PLS FOR #3 SEC.

1952- 8 PLS FOR #4 SEC.

32 LIFTING BARS - SHORT

8 " " LONG

16 INSIDE ~~END~~ BUTT STRAPS.

8 " END ✓

(Narrow)

32 - JOINT LIFTING BARS - SHORT

8 " " LONG

8 OBSERVATION SEGMENTS

SET WEARING PLS AS PER DWG 10-1

1953- #1, 2 & 5 SEC. OF SCREEN R

REMAINDER OF BARS TO
MAKE FULL SET.

SCREEN RIB IS TO HAVE LIVERS
WELDED ON IN SPRING - SEE W.O. 146A
FOR DR. 10

11. SCREEN CASING.

SOME PATCHING.

2 SETS OF CASING LINER PLS - 12-1

12. HOPPER ETC

(a) HOPPER - PATCHING REQ'D - PLAN
TO BEVEL OFF TOP EDGE IN SPRING -

SPROUT
(b) PINS WORK OK IN SPOUT - REQ.
FULL SET NEXT SPRING AS PER
PREVIOUS W.O.

(c) SAWBALL - CONSIDERABLE REPAIR
WEARING STILL TO BE PUT ON.

ABOUT 12 LOWER GRIZZLY BARS OF BUSH

(d) PATCHING ON CHUTE

ALL SPRAY PIPES TO BE REPLACED.

13. DISTRIBUTOR ETC.

SOME PATCHING ON DIST. & SLICES

12 STARTING ANGLES -

SET OF MERCURY STOP COVER RS.

SEND IN WORN RIFFLES FOR REPAIR

TAIL SLICE RUBBER THIN - WILL WEAR AS LONG AS POSSIBLE.

1952 - SET JOINT COVER STRIPS - 135

1953 - SET TAIL SLICE RUBBER MAY BE REQUIRED DURING 1952

14. STACKER & MACHINERY.

CHECK ON SHOT BOWLS.

SEND IN SPARE STACKER DRUM BEARINGS FOR RE-BABBITTING.

SHOULD REPLACE 2 LOWER LS ON STACKER FRAME. LOOK UP SKETCH NEW LOWER SECTION OF PAN REQ'D.

FULL SET OF STACKER PAN LINERS REQ'D.

LADDER TROUGH REQ. LINERS FOR FULL LENGTH.

1952 - 12 CENTER ROLLS
12 SIDE "

6 RETURN "

REVIEW
NEW STEAM RADIATOR SYSTEM
COMPLETE FOR STACKER
ORDER PIPE & FITTING REQ'D.

15. PUMPS ETC.

HIGH PRESS. PUMP THIN ON TOP. TAKE OFF CASING & SEND TO SHOP TO BE BUILT UP. SAME DONE ON LARGER PUMP.

USUAL PUMP INSPECTION.

4" PUMPS MAY REQ. OVERHAUL
STB. COMP. BOX TO BE FROZEN DOWN TO

DIST. SHOULD BE DEEPENED, ESPECIALLY IF NEW ~~PUMP~~ L. PRESS. PUMP IS INSTALLED WITH GREATER CAPACITY.

PERMIT REPAIR TO LOWER TIMBERS
ORDER TIMBERS REQ'D WHEN OBSERVATION PERMITS

16. SAND ELEV.

PATCHING -

1952 - 1 LARGE SPROCKET RING
1 SMALL

17. SPUD & SUSP-

RE-BRACE SPUD TIMBERS - POSSIBLY
WITH TIE RODS.

INSPECT ETC

NEW WEARING PLATES ON SPUD
CASING STILL REQUIRE PATCHING.

18. HULL - O.K.

19. MISCELL - BOILER O.K.

SEND IN ACETYLENE EQPT.

DREDGE 10

1. BUCKETS-ETC.

65 ON LINE - TAKE OFF LINE THIS
FALL - CHECK OVER & SEND THOSE TO SHOP
REQUIRING BUILDING-UP.

1952 - SET LIPS - A-7155
↓
BUSHINGS (STD)
35 PINS

1953 - LIPS
BUSHINGS - 800.

2. LADDER ETC -

CHECK OVER -
Two ROLLERS TO SHOP REPAIR.

1952 - 2 LADDER LINES - 7/8 x 500

3. L. TUMBLER -

PUT IN NEW 9" BEARINGS IN SPRING,
CHECK OVER

4. U. TUMBLER -

BUILD UP UNDER HEEL RS.

1952 - 6 HEEL R. of A-5277 WITH BOLTS
6 EAR R.

1953 - 6 HEEL R.

5. MAIN DR. -

INSPECT & OVERHAUL WHERE NECESSARY

6. LADDER HOIST. -

SAME AS 5!

7. S.W. ETC

BOTH BOW LINE & STERN DRUMS MAY NEED
SHOP RE-BUSHING, INSPECT ETC.

1952 - 2 BOW LINE - 1 x 800
1 STERN - 1 x 1000
1 GRASS - 3/4 x 800
3/8 x 1500

8. DECK SHEAVES & FAIRLEADS
CHECK & REPAIR AS NECESSARY

9. SCREEN MACHINERY

CHECK OVER THIS FALL. ALL ROLLER
BEARINGS MAY REQ. RABBITTING ~~or~~ ^{or} ~~or~~

UPPER STD IDLER ROLLER ASSEMBLY
TO BE CHANGED IN SPRING. NEW ASSEMBLY
OF A-5103(2) ON BOARD.

UPPER SCREEN TREAD WORN OUT. MUST
BE CHANGED IN SPRING.

10. REVOLVING SCREEN-

GOOD FOR ^{MOST OF} 1952 -

1953 - COMPLETE ASSEMBLY

11. SCREEN CASING -

~~GOOD~~ - CHECK OVER

1952 - 1 SET OF BINDER P AS PER 12-1 REQ

12. HOPPER ETC

(A) HOPPER - 1952 - 2 WING PLATES.
2 BOTTOM SIDE RS

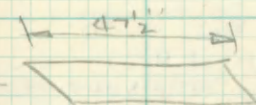
(B) SPOUT - THE BOTTOM 5 RS TO BE
CHANGED NEXT SPRING. HAVE A
SET ON BOARD.

1953 - 3 LOWER RS. IF 202673 ^{CA} ~~DA~~ ^{EA}

(C) CHUTE - A NEW SET OF SHAP MADE
BARS REQ'D FOR SPRING.

(D) SAVALL - MAKE UP COMPLETE UPPER
GRIZZLY (2 PIECES)

Check over.



13. DIST. - TABLES

PATCHING ON DIST & TABLES.

1952 - 12 STARTING ANGLE

SET MERCURY ⁵¹⁰ COVER R₂.

SEND WORN RIFLES TO SHOP

TAIL SLICE - 1 PC. OF RUBBER.
4' X 23'.

1 SET JOINT COVER STRIPS.

14. STACKER MACHINERY -

CHECK OVER & SEND BEARINGS TO
TO SHOP REQUIRING REBABBING.STACKER BELT BADLY WORN - MAY LAST
FOR 1952.REQ FOR 1952 - 6 CENTER ROLLS
12 SIDE
3 RETURN ROLLS.

15. PUMPS ETC.

SAME AS '51 -

THREE 4" B.S. TO GO TO SHOP.

1952 - ORDER SOME SHAFT NUTS -

FOR 10 & 12 B.S. -

NUT CRACKED ON H.P.

SOME PLANKS NEED REPLACING ON PUMP SUMP HOUSING -

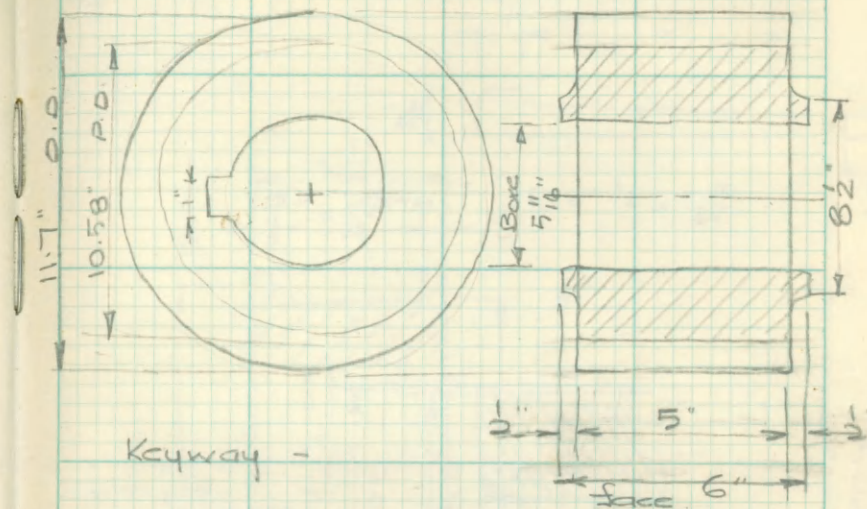
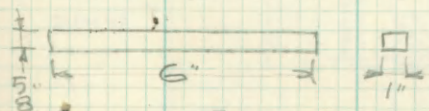
ORDER NO. REQD. IN SPRING.

16. SPUD & SOSP -

NO CHANGE IN CRACKED SPUD POINT.
INSPECT.18. HULL - OK.
~~MISC. - ACETYLENE FITTINGS TO SHOP,~~

19. MISC. - ACETYLENE FITTINGS TO SHOP



DREDGE N° 12MAIN DRIVE
PINION.MAT'LN° TeethDat #

1" x 5/8" x 6" Str Feather
2-4251 Steel

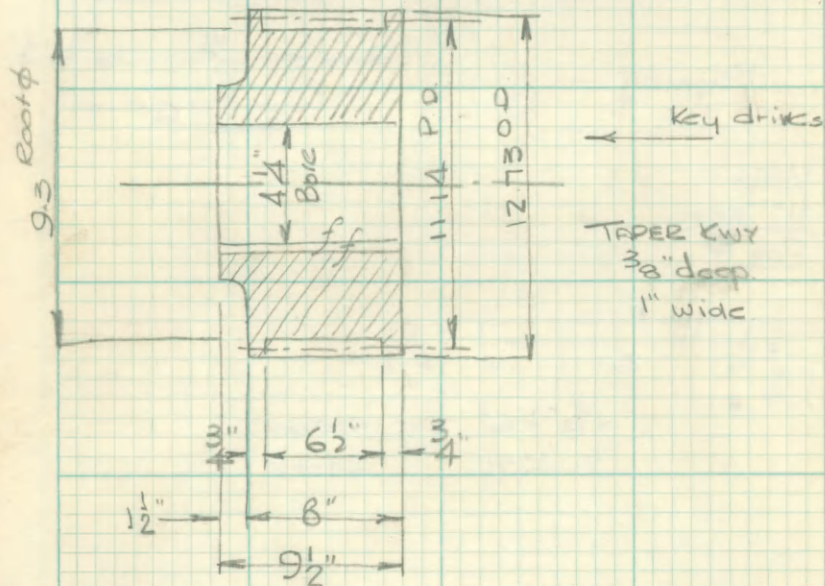
19T-12" P 5 1/16" B 5" Face 10.58" P.D.

Cut teeth - Steel

N° 1-4251

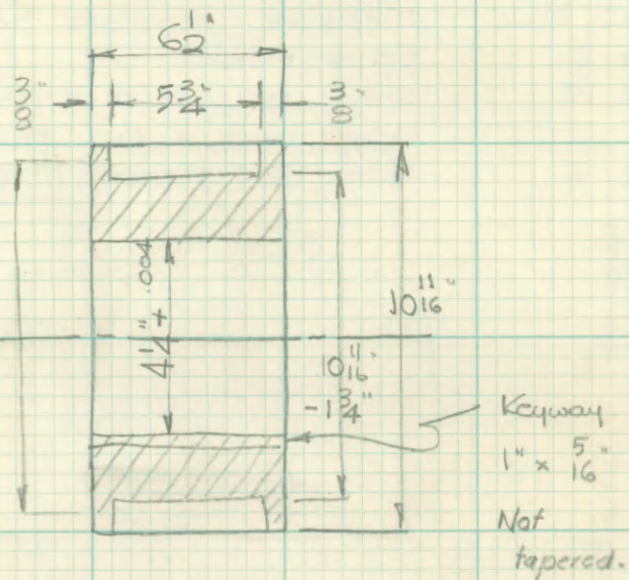
INT PINION

3" x 1" x 11" TAPER KEY



CAST ST. SHROUDED BULL PINION
14T INV. $2\frac{1}{2}$ " P $6\frac{1}{2}$ " F. 11.14" P.D

PINION - Dr 12



15 Teeth

CHECK ON DREDGES

DR 4 Sketch bottom stacker
pan for redesigning

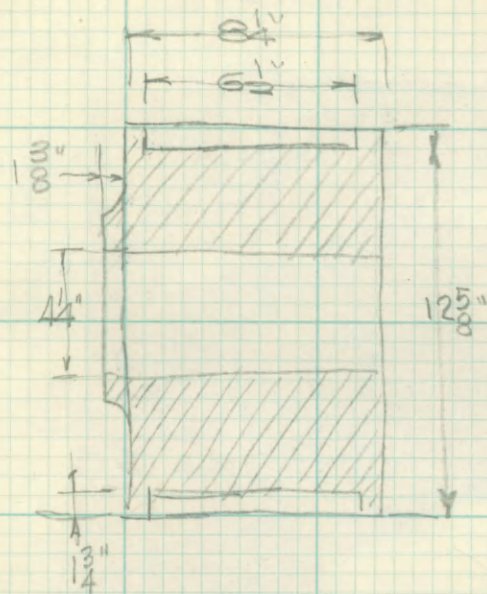
DR 6 Extn of dist spray
pipe header.

PAR HILL Measure concrete fndn

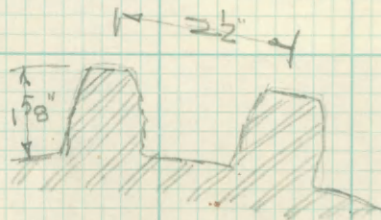
DR 9 Spud kick

DR 12 Check bull wheel & pinion
Meas heel & ear plates

DR 6 Meas. for plywood reqts.

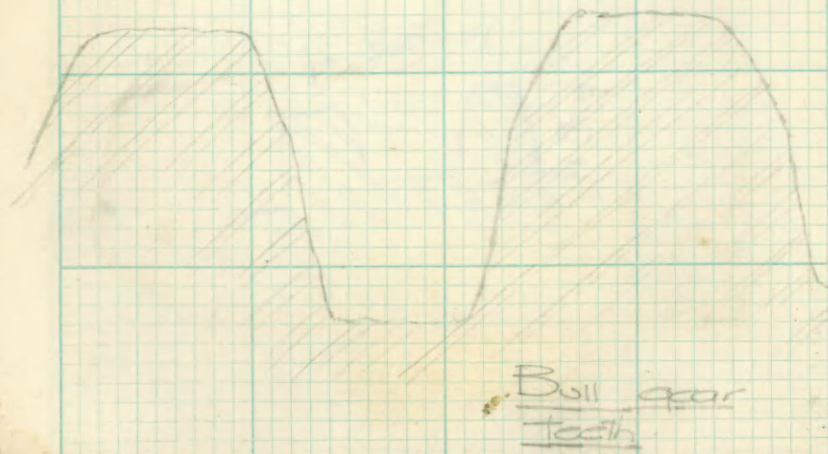
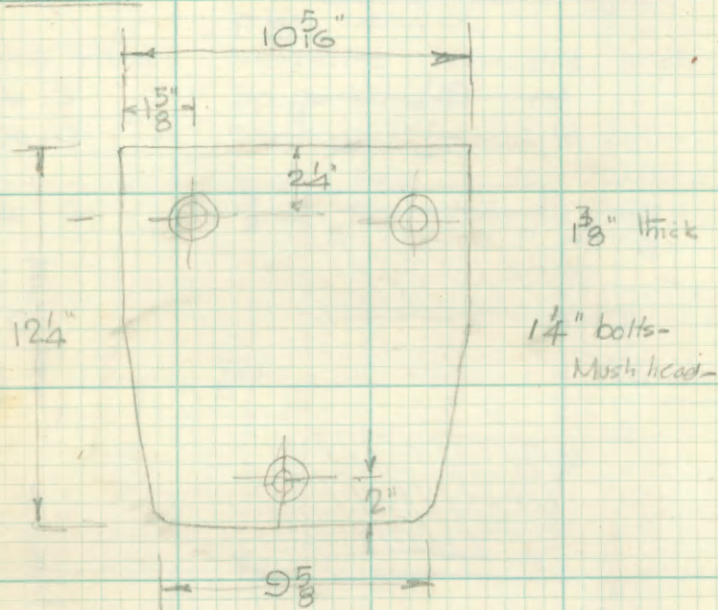
DR 1210.12.53.MAIN DRIVE DIVISION6" face on
bushing.Tongue
of

Male



EAR P.

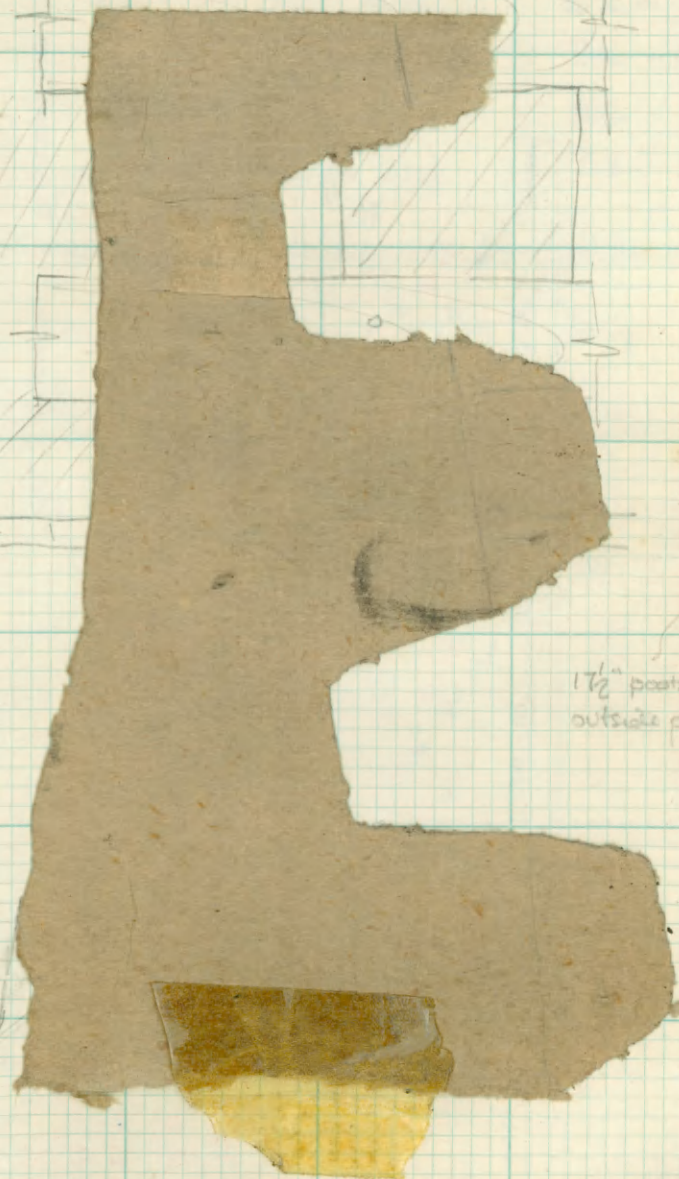
HEEL P.



DR N°9.

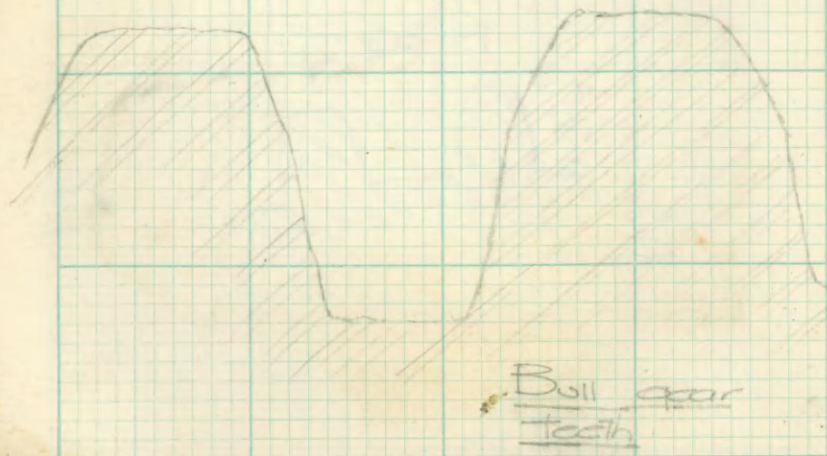
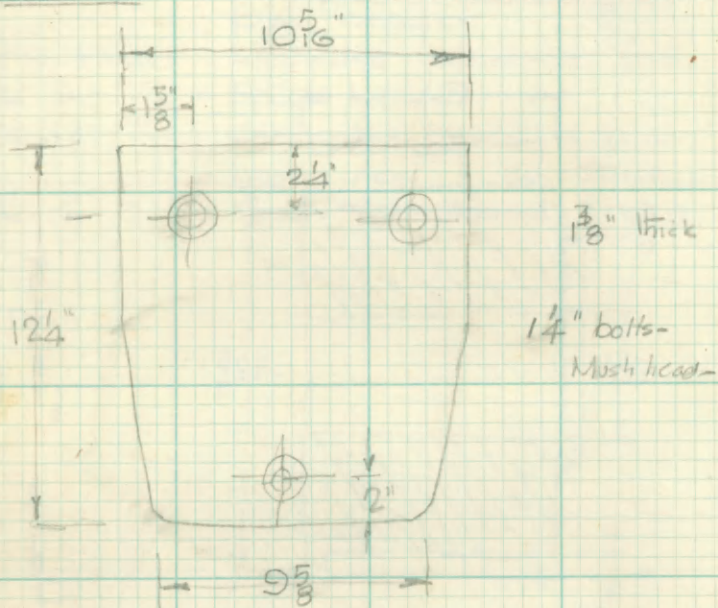
-13" 0/14" - 0

9 3/4" 17"

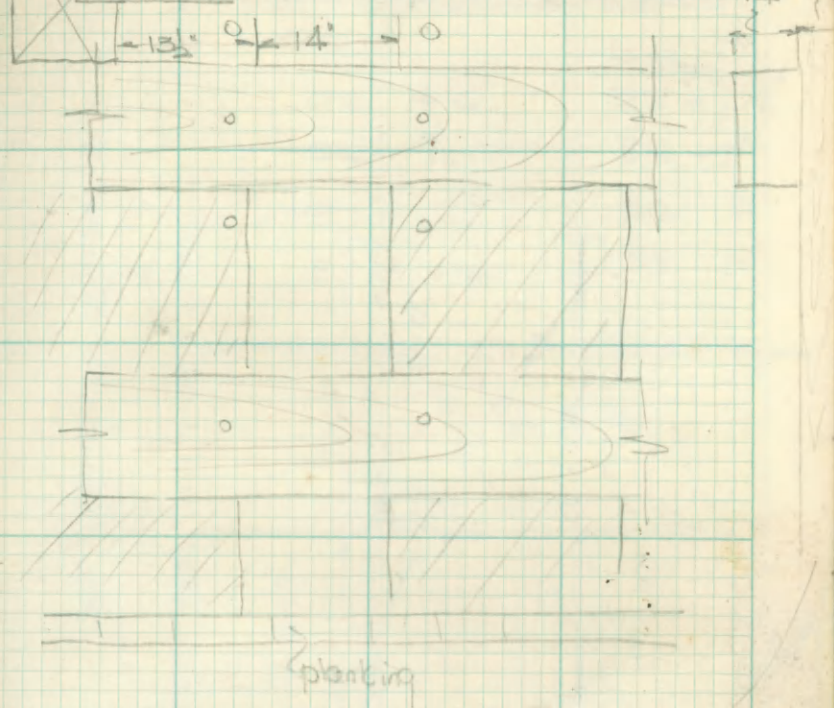


EAR D.

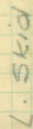
HEEL D.

Bull gear
teeth

DR N°9



217



R: Skid

Meas from c-c bolt holes

For 14 foot Spreaders -

IS MADE IN
SHOP 1954

$$\begin{aligned} a &= 32'-1" \\ b &= 32'-2" \\ c &= 31'-9" \\ d &= 31'-11" \end{aligned}$$

For 15 foot spreader = the
- tag rods

a =	32' 4 1/16"
b =	32' 9/16"
c =	32' - 2"
d =	31' - 1 1/4"

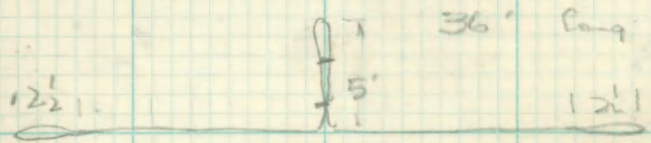
Make

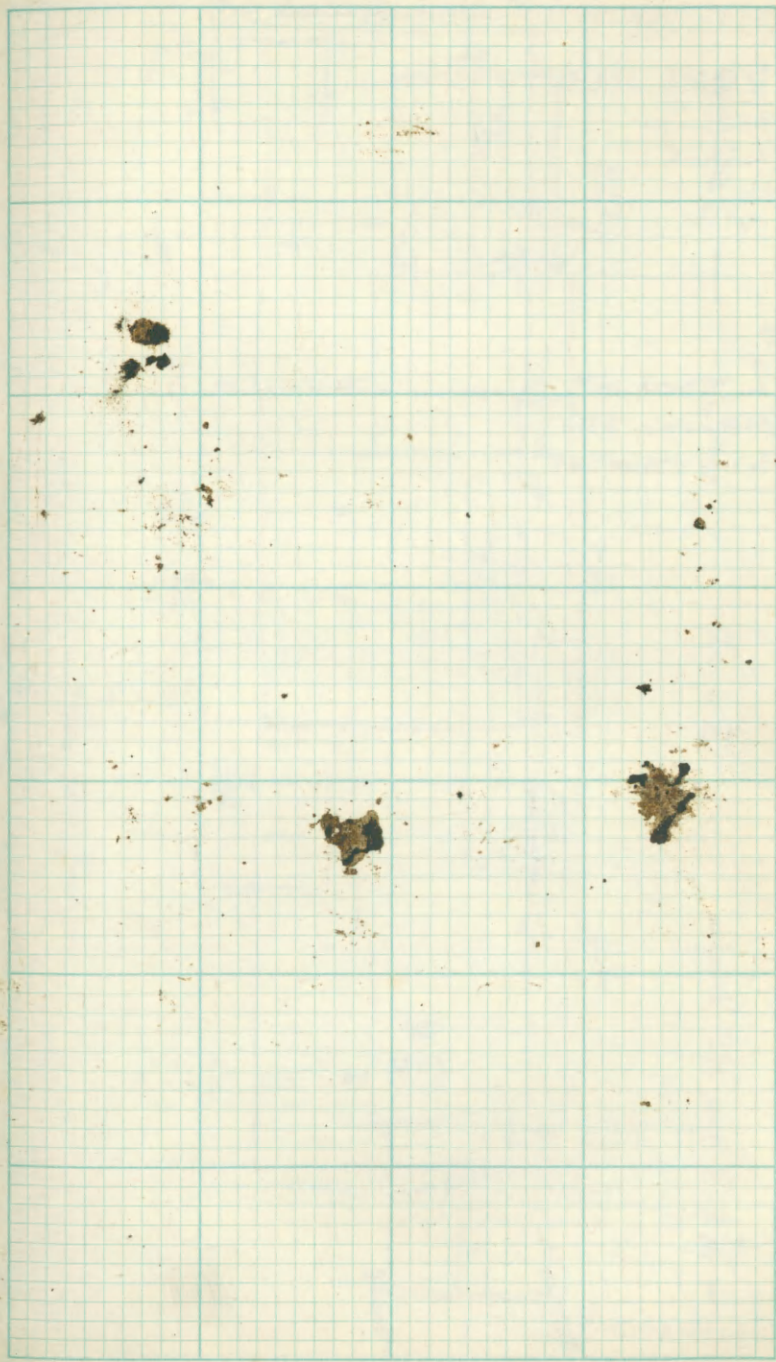
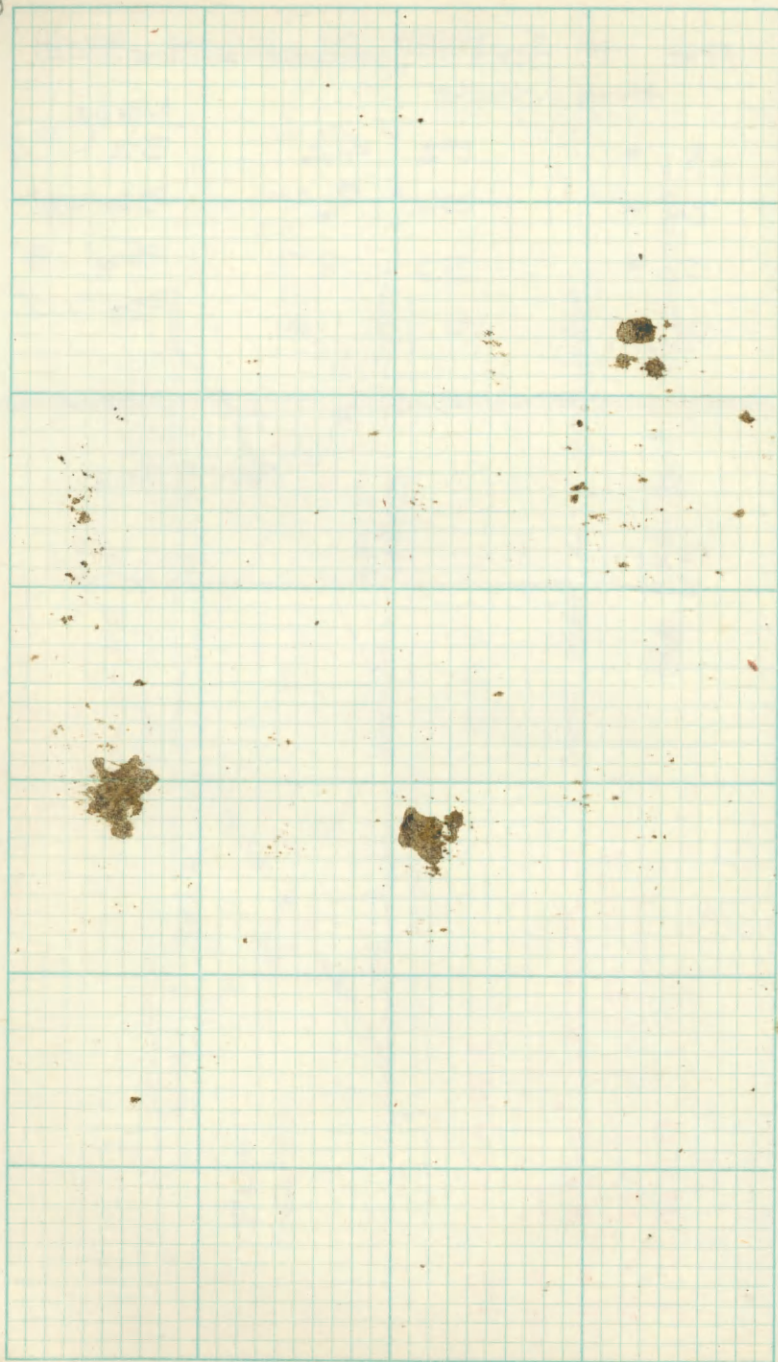
32' - 52"

32' - 1"

32' - 3"

32' - 0"





STEAM DOME

Another in
backyard
the same

94

36"

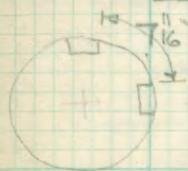
80"

94"

3 ft.

Manhole

NOTE

2 used at
Paradise Hill
Pump StationDiam 1' - $\frac{7}{8}$ "Diam 1' - $\frac{7}{8}$ "

Dima of raised sections -

1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "1' - $\frac{31}{16}$ "

46"

22" x 1 1/4"

0"

1/4"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1/8"

1' - 22"

1' - 26"

5' - 6 3/4"

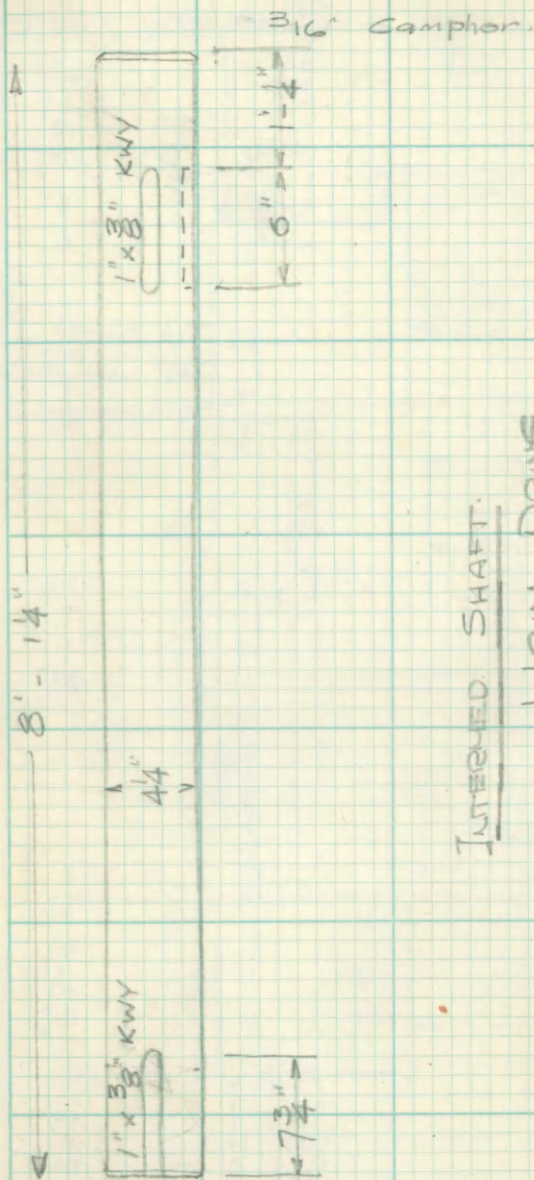
1' - 28"

1' - 27"

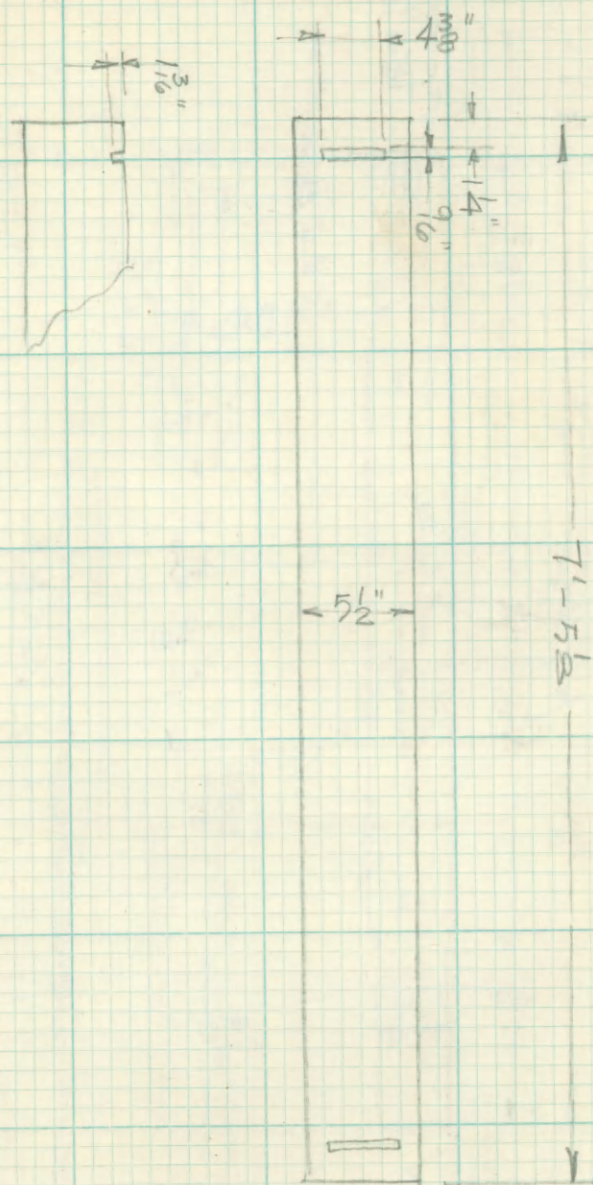
10' - 3 1/2"

Chamber

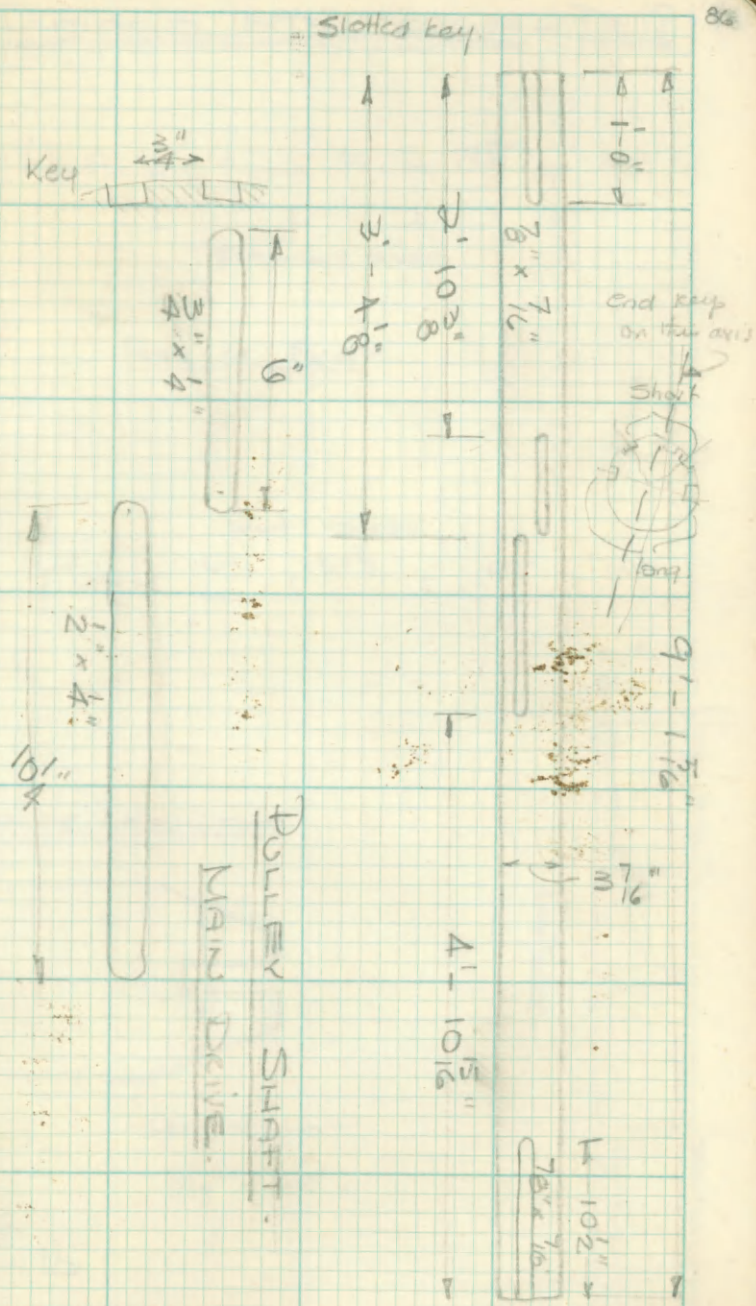
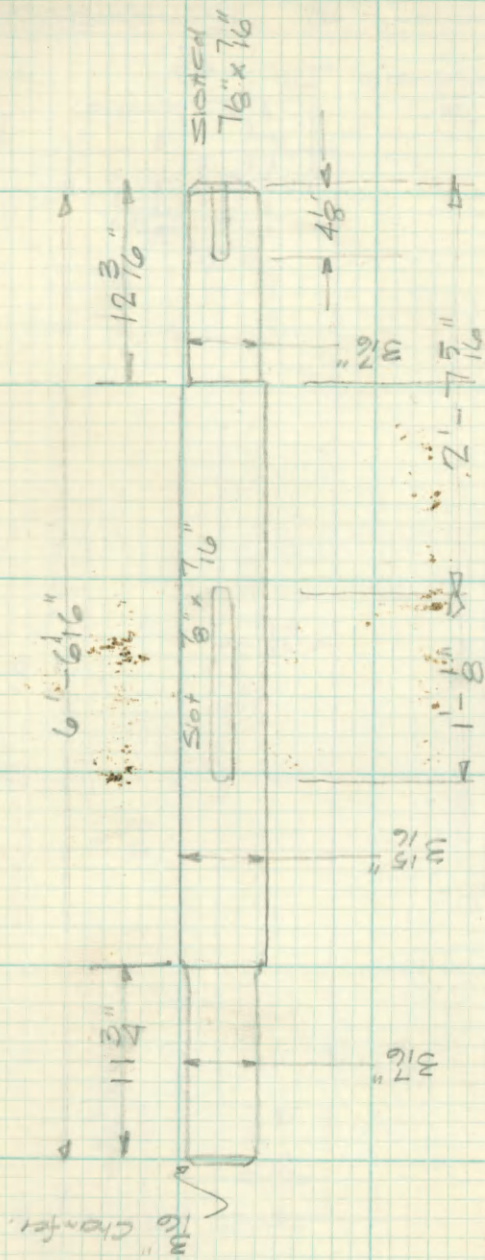
MEASUREMENT OF SPARE DR 12. SHAFTS.

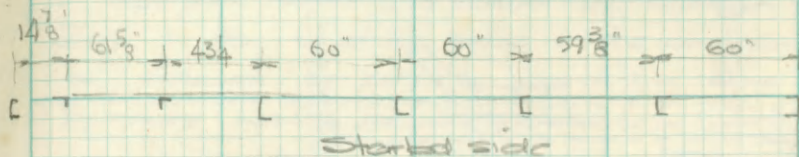


SUSPENSION SHAFT

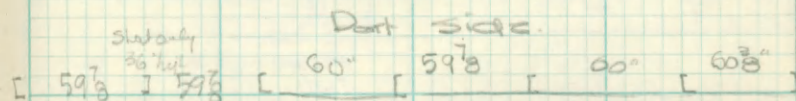


WINCH - DRIVE SHAFT

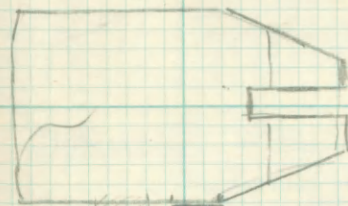




PLAN OF BOAT.



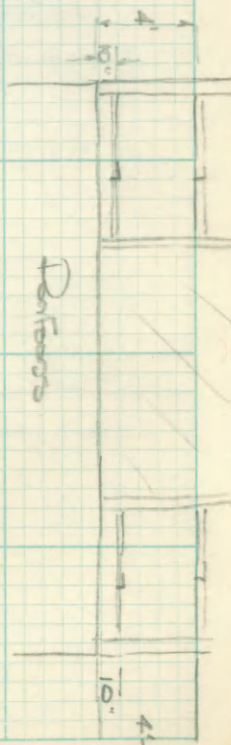
SIZE OF MAIN DOOR



Posn of door

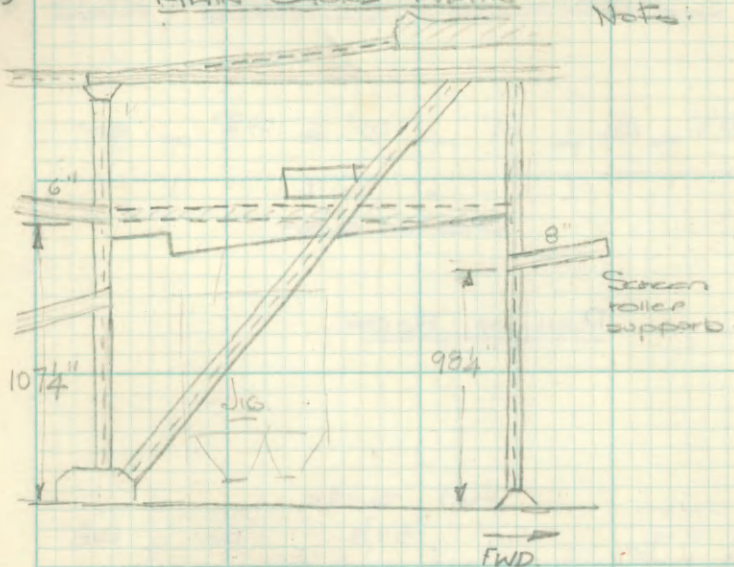
82 1/2" x 63"

Area
75' x 75'



MAIN CHORD WITHIN

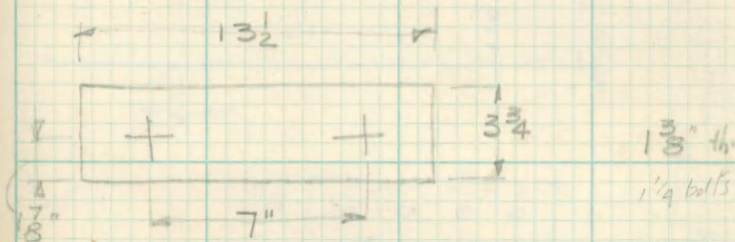
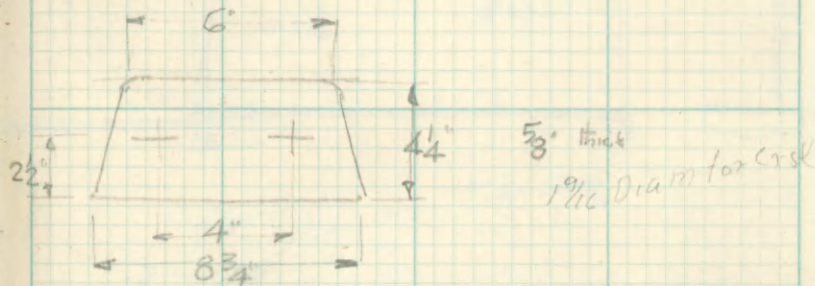
Notes:

Starboard Truss

Looking inboard -

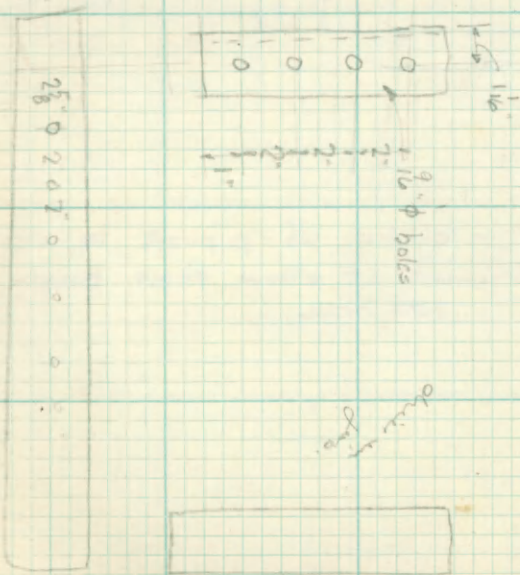
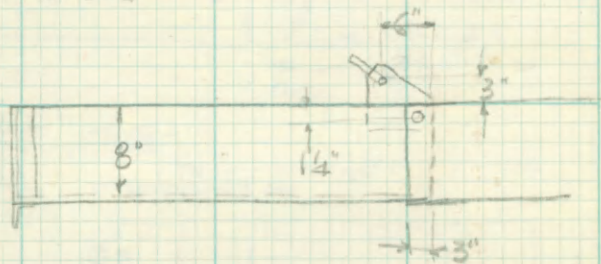
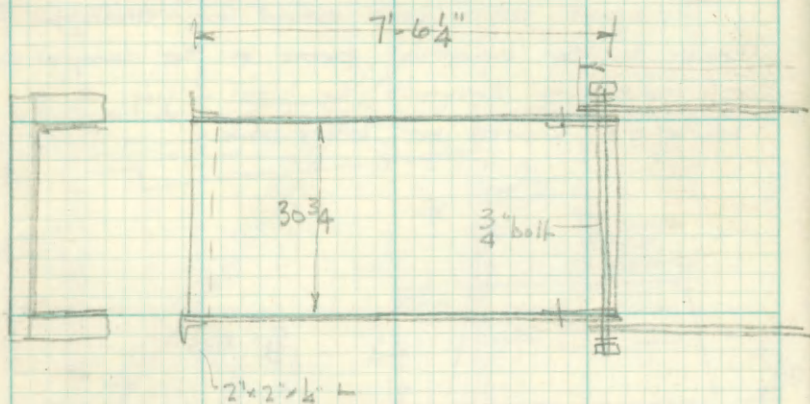
Alteration to Port Stern Line

The port stern line could be changed back to its original place & the congestion of sheaves beneath the pigs & jig cone bundlers would be lessened.

Elevation - centre of piping to deck

Measured at elbow above pump -
134 inches.

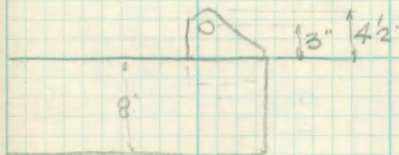
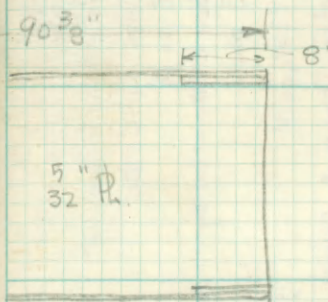
TAILSLUICES



and
1/4" bulk

3" th. - 1/32" ±

90 3/8"



lined with 1/4" steel pl.

- Starboard sluice same but 60°
wide - inside. 1" rod

	Eye to C	14 SINGLES	TRAVEL	Eye to Eye ✓	c to C
(a) N° 1 -	17'-2"	+ 14'-4 1/2"	(3 3/4")	= 31'-10"	= 32'-1 1/2"
(b) N° 2 -	18'-5 1/2"	+ 12'-11 1/2"	(3 1/2")	= 31'-8"	= 32'-5"
d N° 3 -	17'-10 1/2"	+ 13'-5 1/2"	(2")	= 31'-6"	= 32'-2"
dc N° 4 -	17'-8 1/2"	+ 14'-1"	(0)	= 31'-9"	= 32'-0 1/4"

a) N° 1 -	LENGTHEN	14'-4 1/4"	To	14'-7 1/4"	(3")
b N° 2 -	✓	12'-11 1/2"	To	13'-5 1/2"	(6")
d N° 3	✓	13'-5 1/2"	To	13'-10 1/2"	(5")
dc N° 4	LEAVE	14'-1"	-	14'-1"	(0)

Motor

Model MHD-284-2BT

Type VAC-320

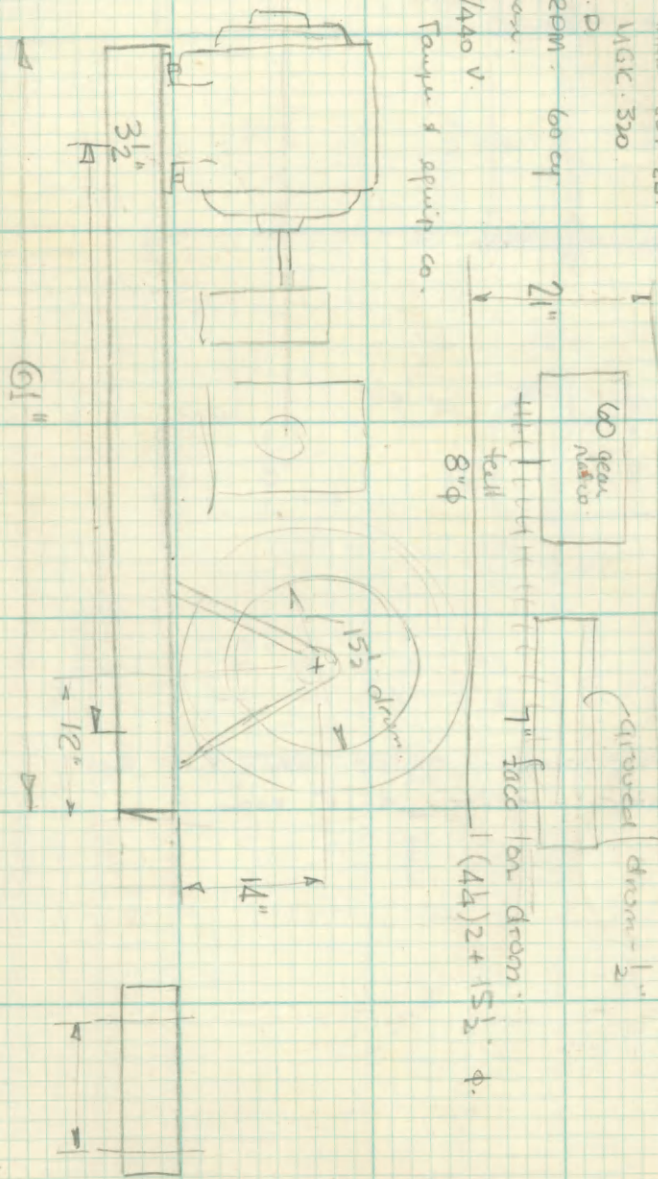
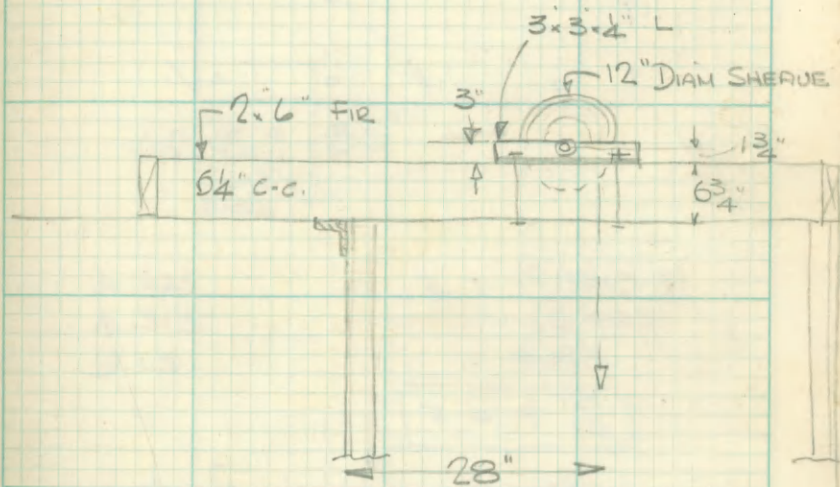
3 H.P.

860 RPM. 60 cy.

3 phase.

220/440 V.

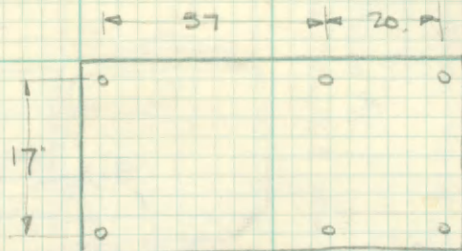
Electric Traction & Equip. Co.

HEAD SHEAVE - WARM STORAGE ELEVATORMOTOR + GEAR BOX + DRUM

3 H.P.

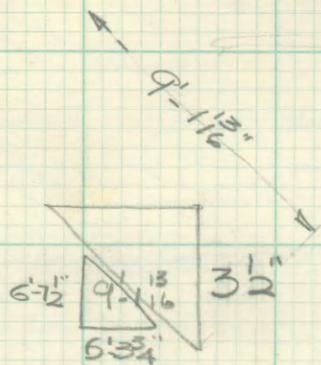
Distance apart of 2x6 joists

Probable speed - 20 feet per minute -



APRIL 6th 1954.

- Measure the pointers rel to [spacings
- Check outboard of end of boat-



6.625

6.313

9.15.

$$x = \frac{(9.15)(3.5)}{(6.625)}$$

$$= 4.83$$

$$x = 4 \frac{13}{16}''$$

Length from centre - 8'-9"

Nº 12 Blueprint Shipping
to Hagan.

1/4" 12 - filler - for bearing [brass
on forward base. ✓

- Calendars for Jensen ✓

Equipment at Jensen - Jig

6 4.54

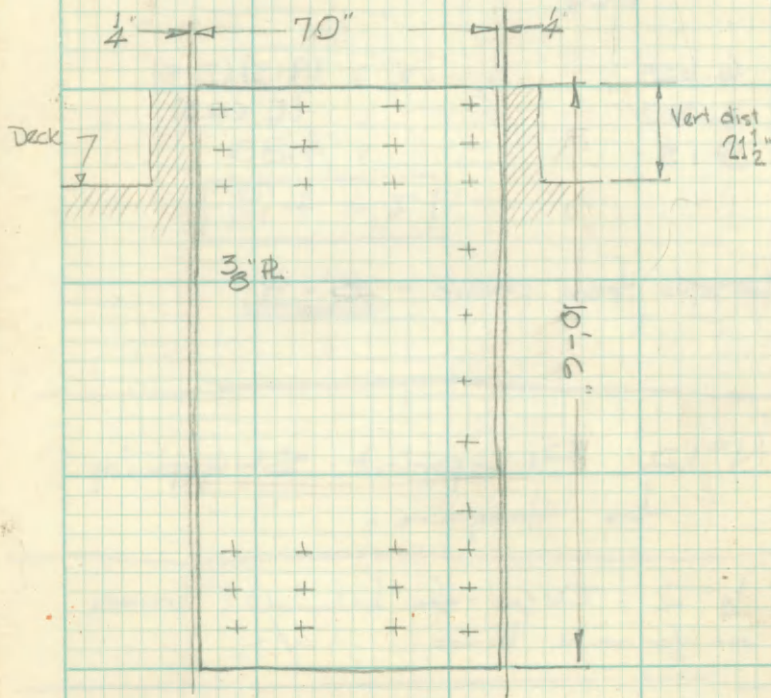
W^e truss beams

Piping 8' · 10' · 3'

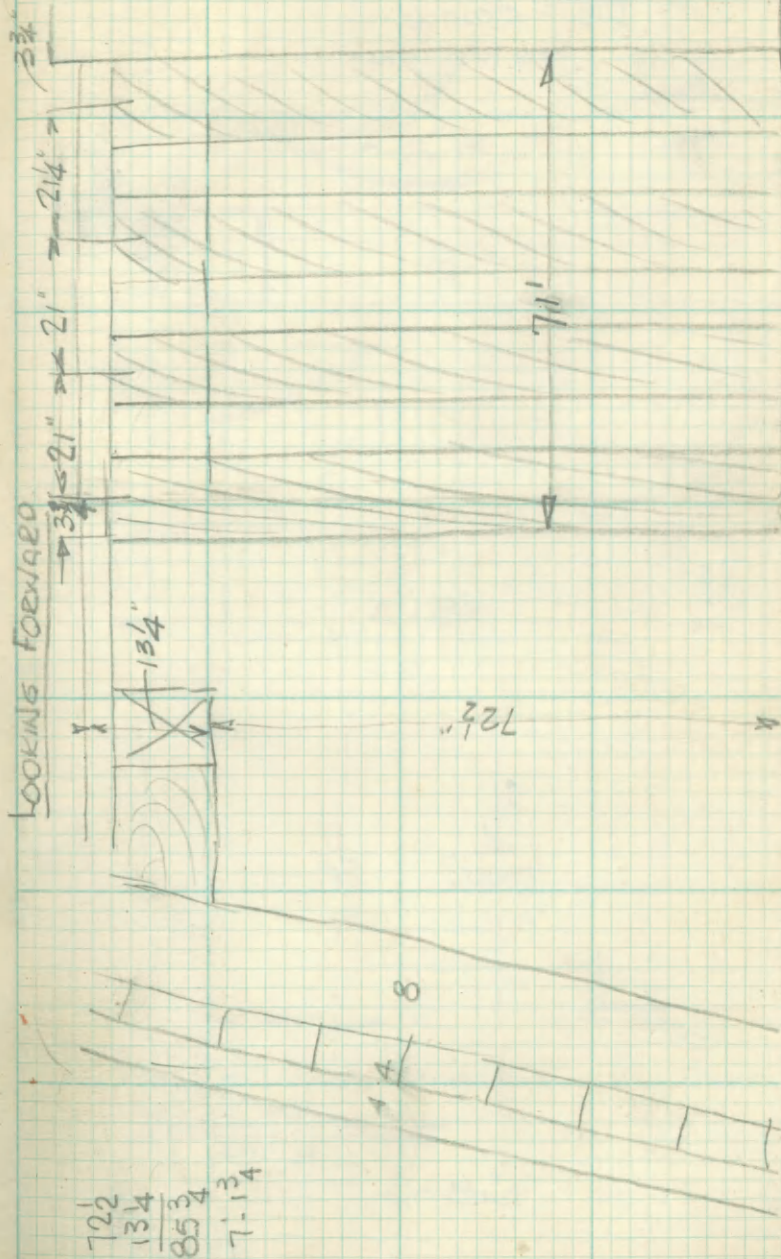
Conc. sump

Dist. section

Deaerating tank

DREDGE N° 6WELL HOLE PLATE

LOOKING FORWARD

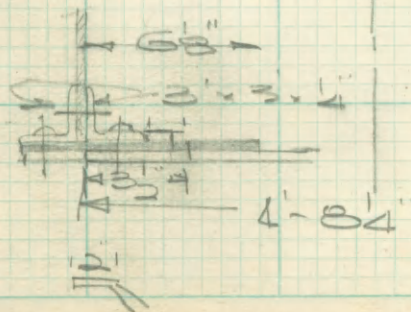
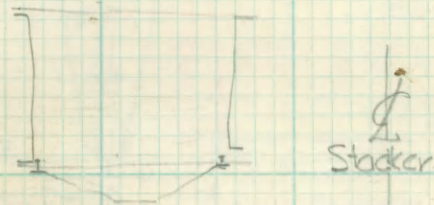
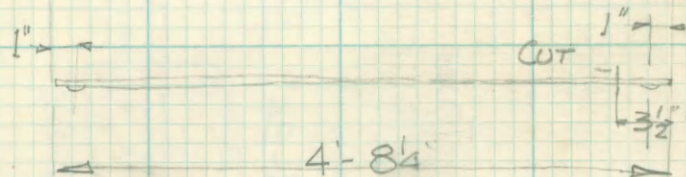
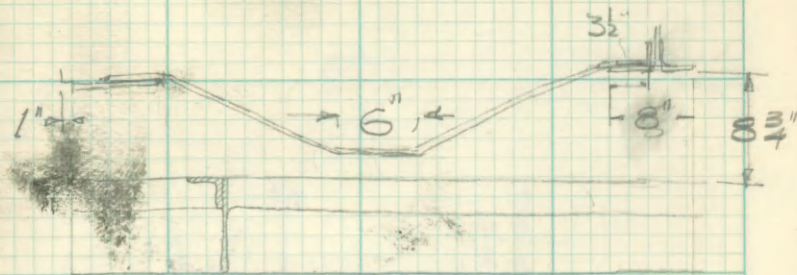


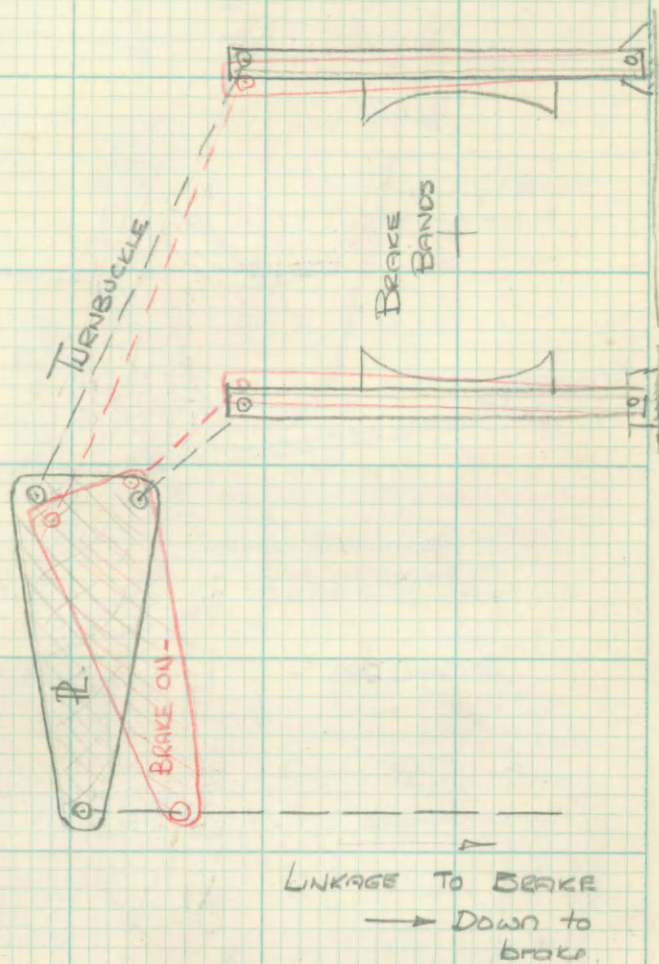
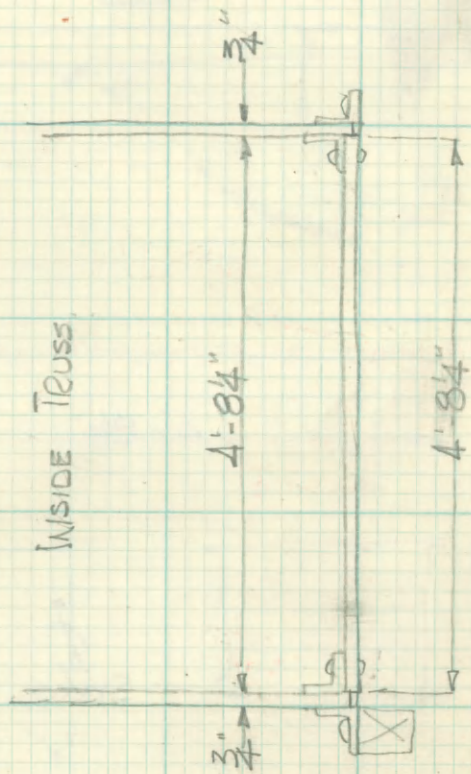
TIMBERS BEHIND WELL HOLE PL.

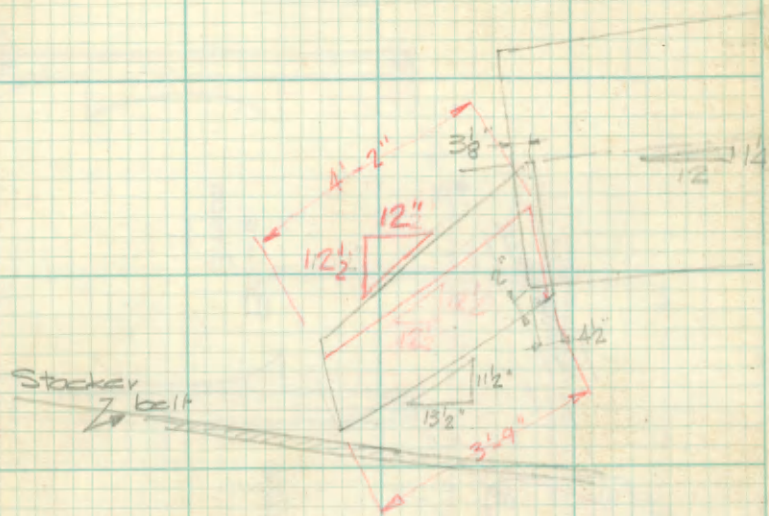
722
134
8534
7-14

DR 6 -
Dist - cleanup -
long term cons -

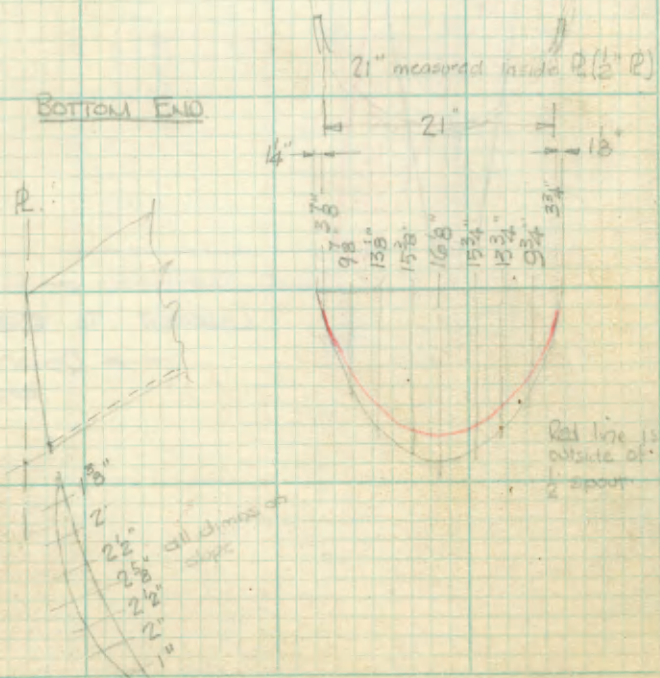
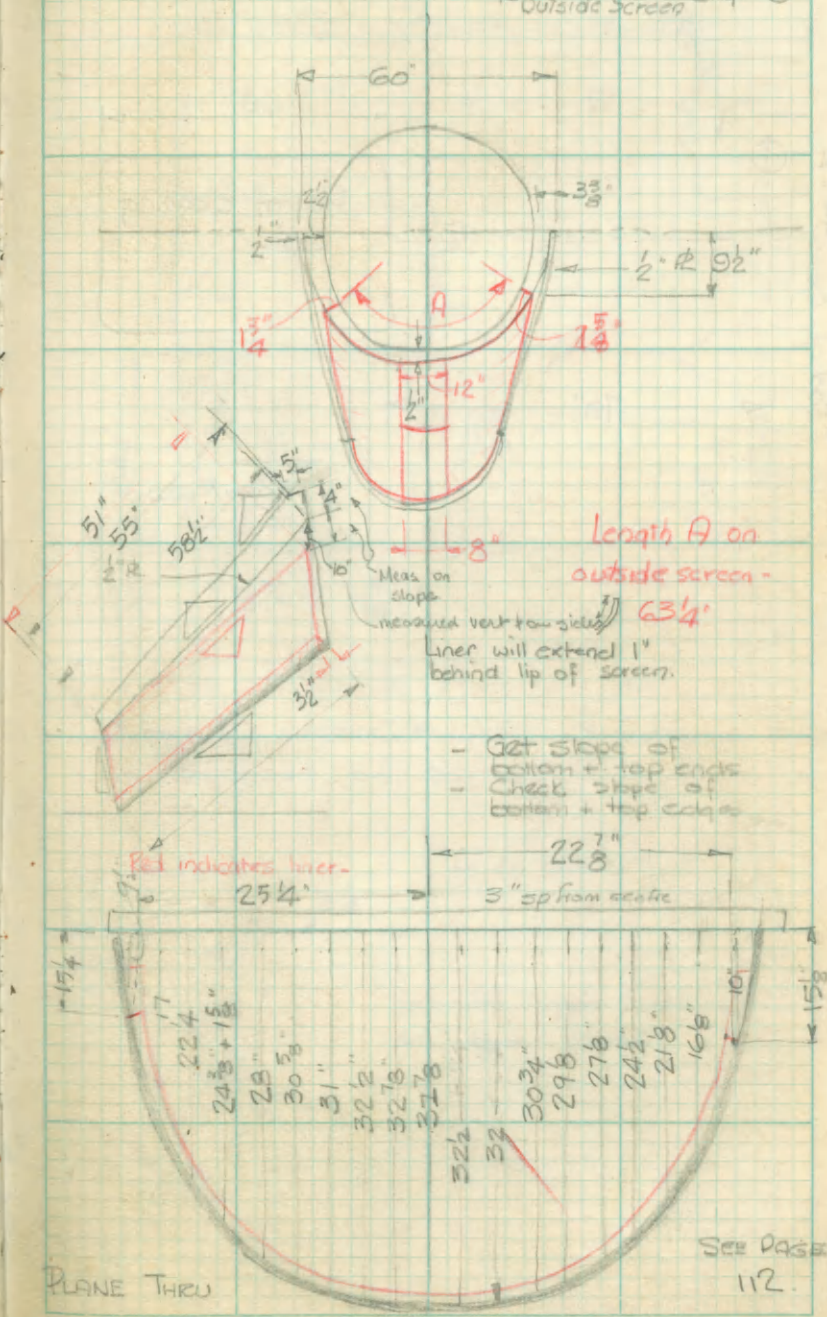
DR4 STACKER PAU. REVISION

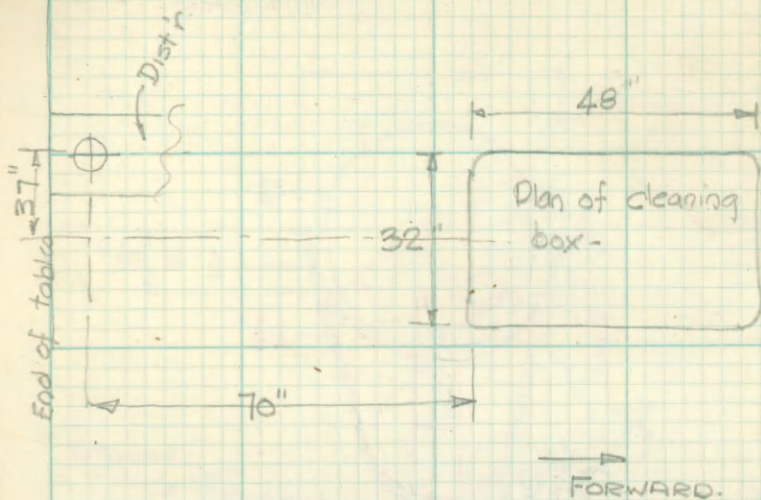




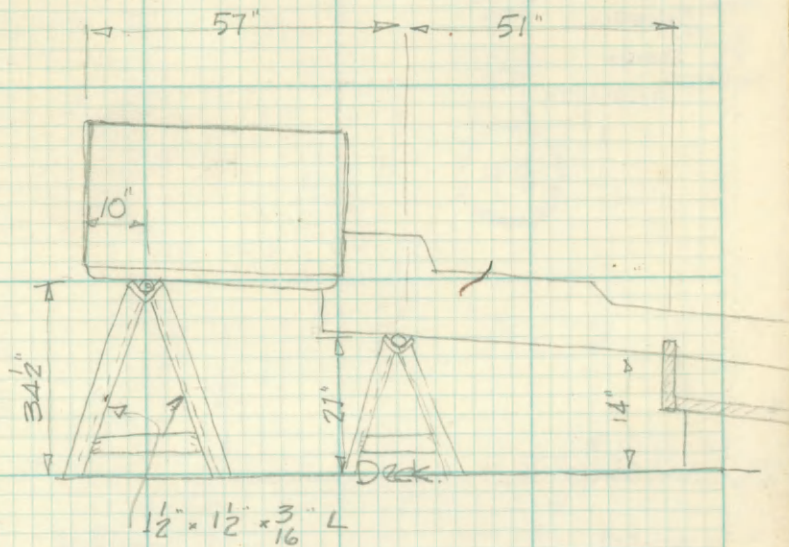


BOTTOM END

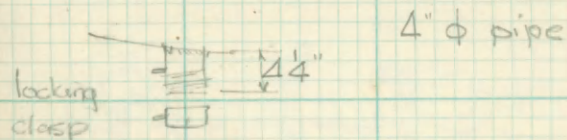

$$R_{\text{Outside Screen}} = 4' - 6''$$




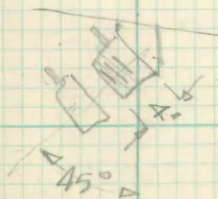
DEEDGE N°6 Distributor Cleanup Long Term



Move 1 1/2" closer to dist discharge pipe
 + support on horse

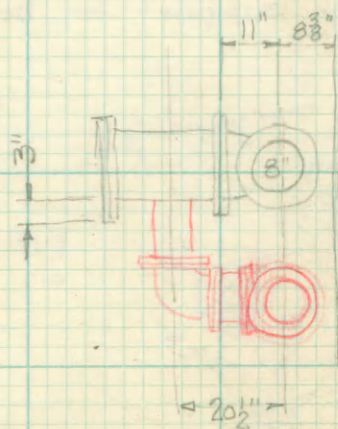


put 4" nipple (welded)
 on bottom @ 45°

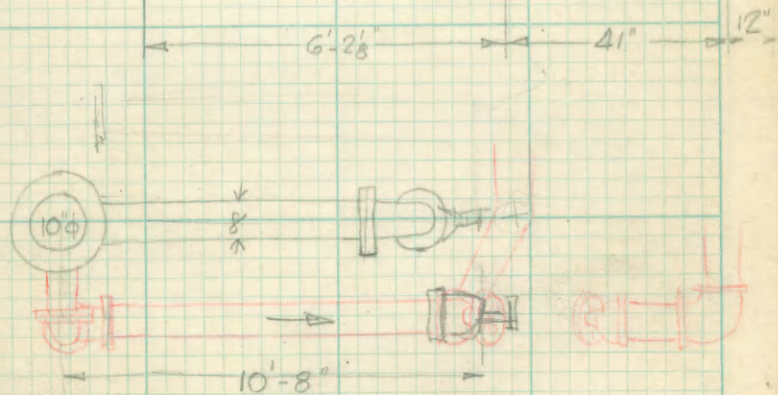
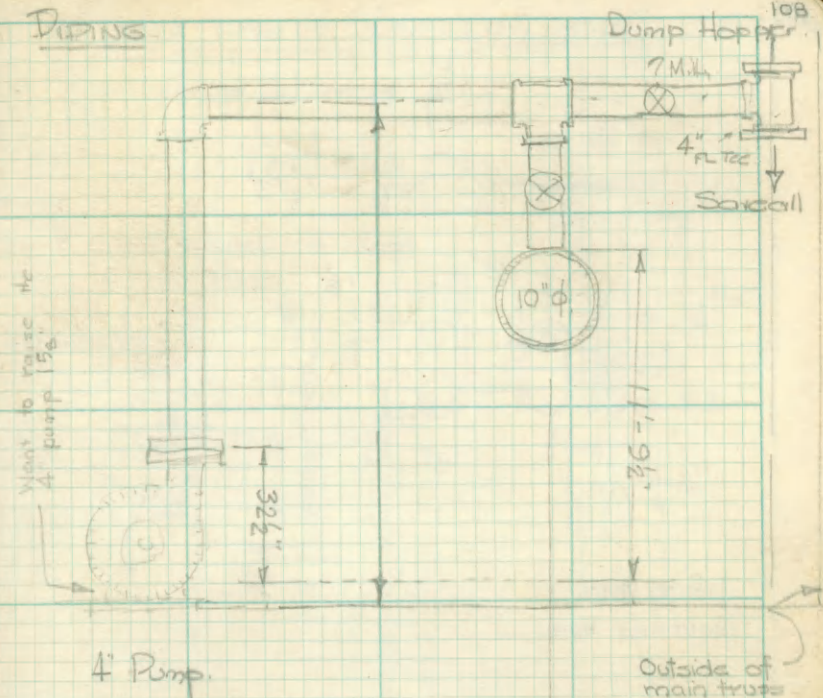


PRIMING BARREL
 SAWALL
 STAIRS
 TAILSLUICE

CONSTANT HEAD TANK SUPPLY.

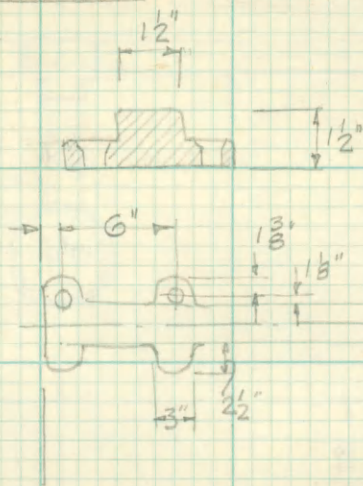


DRAINING



1 - 14" length 6" pipe to extend tank intake.

SPURCE BARS



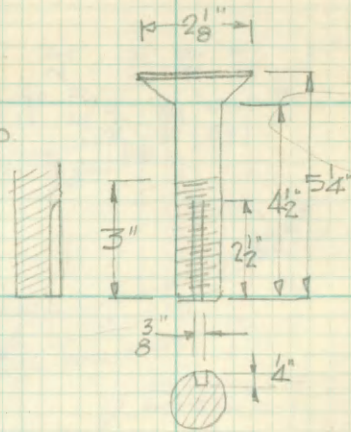
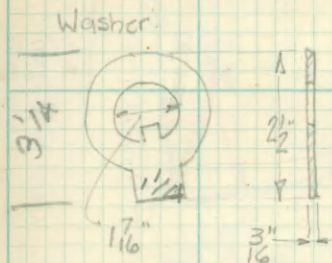
Lifting bars
Retaining bars

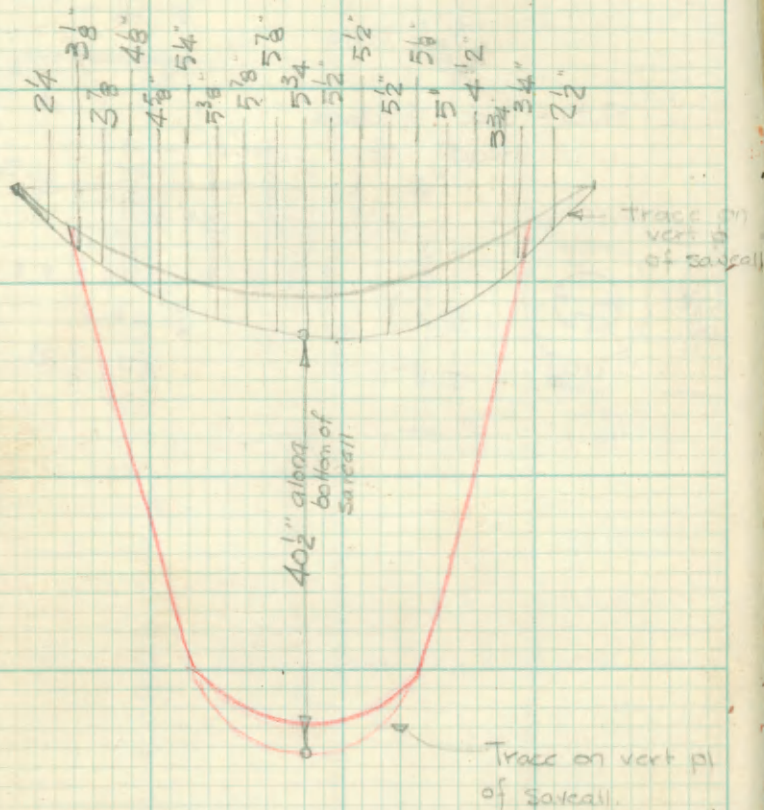
UPPER TUMBLER WRG ϕ BOLTS

for heel pl + toe pl.

$1 \frac{3}{8}$ " ϕ bolts

2 Nuts - Lock $\frac{3}{4}$ " deep
Head





112

Screen ϕ outside of shell 54"

28"

Screen 2 outer shell

Sawall bottom

Measurements on opp page

lengths shown on p 104 measured on

52 $\frac{3}{8}$ is width outside of liner at widest point (if liner is to go only as far as screen)

Slope of bottom of sawall = 15 $\frac{3}{4}$ °

The two plates are 33 $\frac{1}{4}$ " apart

Needham rule 32 $\frac{1}{2}$ °

15 $\frac{3}{4}$ °

24

PIPING FOR SAVEALL + D HOPPER

2" 45° Ell (in place in Damp box)

2" Short nipple
4" Flange
From 4" Pump

Saveall spray

4"

to feed 2 - 2" lines - one on either side of well hole by doors -

Supply also -

PRIMING BARREL

barrel
Inside of housing

8'-1"
16"
8'-0"
3/4" Filling pipe
3/8" pipe (pump)

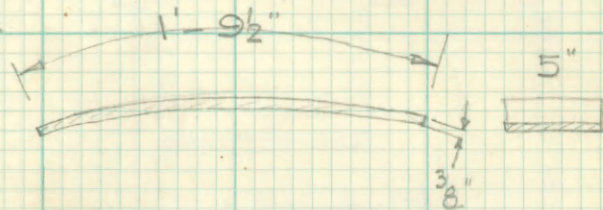
Send also 9'-0" 2 1/2" pipe - from priming pump to A Vertical line - + Valve -

SCREEN ROOM STAIRS - LOCATION DIMENS

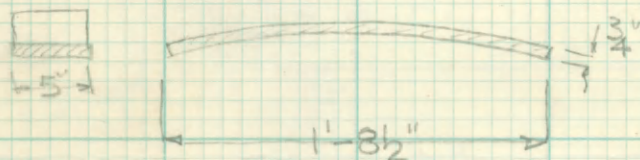
7'-9"
12'-11"
15'-8"
SWITCH PLATFORM
DOOR TRUSS

SCREENBUTT STRAPS

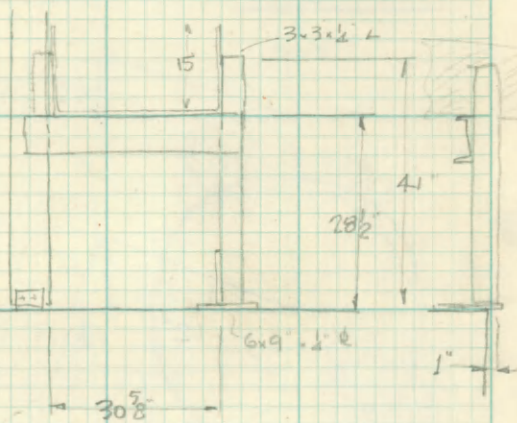
Outside

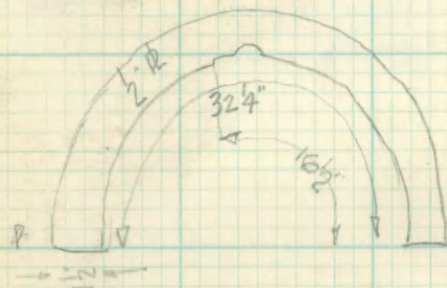
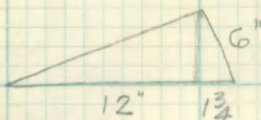
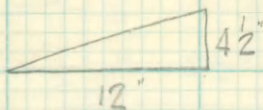


30 REED.

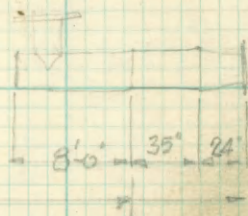
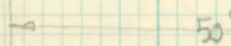
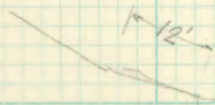
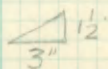
Make MK E of sawall sluice $3\frac{3}{8}"$ longer.TAILSLUICE - WATER SUPPORT

Starb'd.



PIPE CLAMP

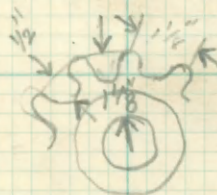
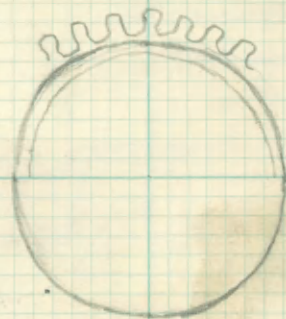
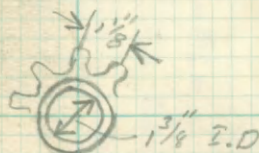
⊕ Down pipe



Motor shaft 151 RPM
Amal Brrt 22 RPM.

10T

70T



AIR VALVE?

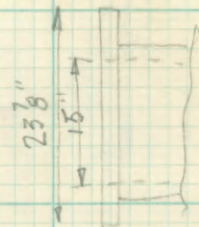
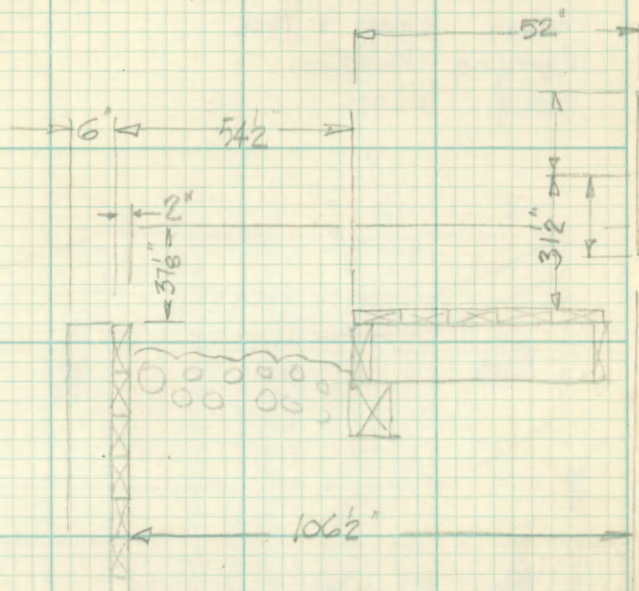
22 more rail

Exp Joint.

OP 13

PUMP SUCTION

120



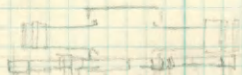
PUMP SUCTION

AMALGAMATOR CORE BOXES

heavy elasp + lock
Carrying handles.
heavy hinges.

Make 48

39"

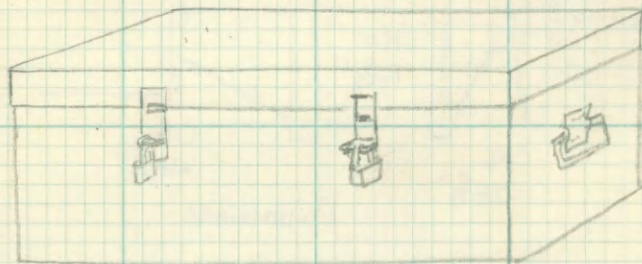
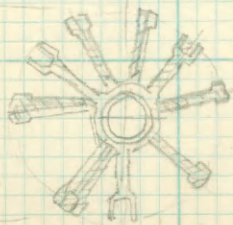


13 3/4"

Make 17

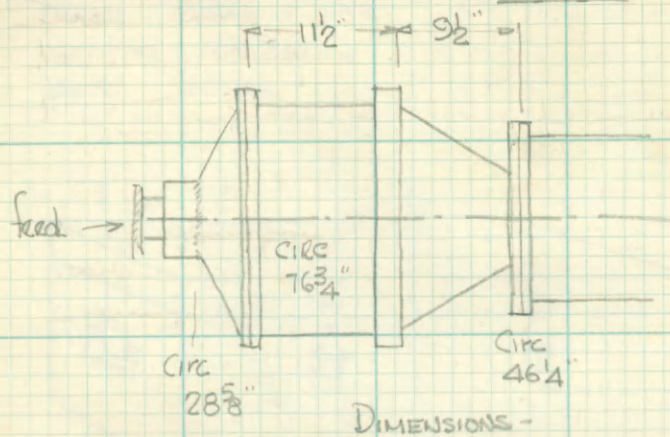
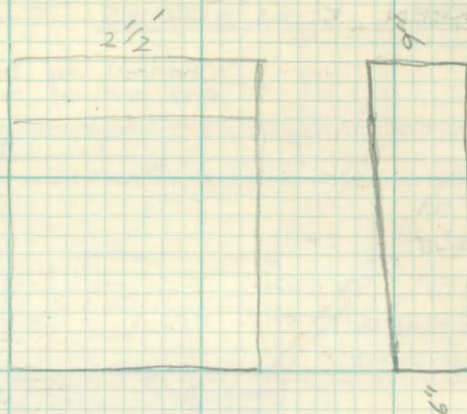
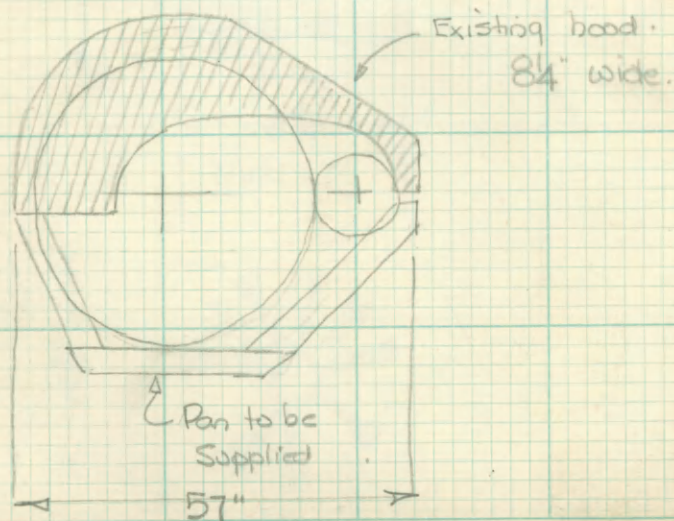
Make 15"

13 3/8"



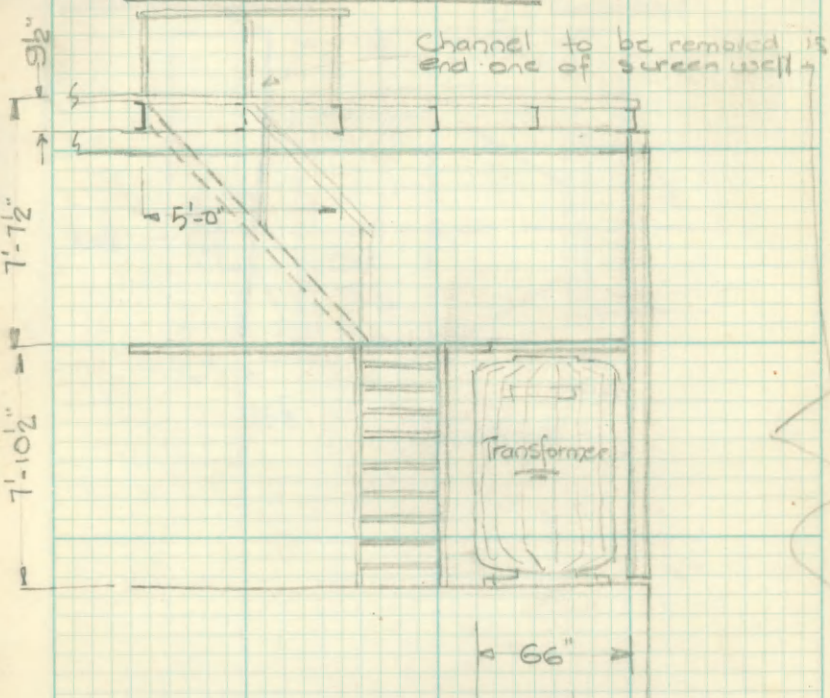
Make box 48" x 17" x 15"

MAY 24

AMALGAMATORDE 12MAIN DRIVE INTERM. PIN + BULL GEAR PAN.

SCREEN ROOM STAIRS.

Channel to be removed is end one of screen wall.

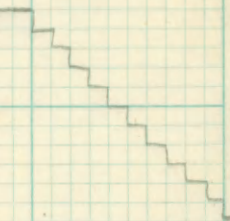


Clear to inside edge of baring.

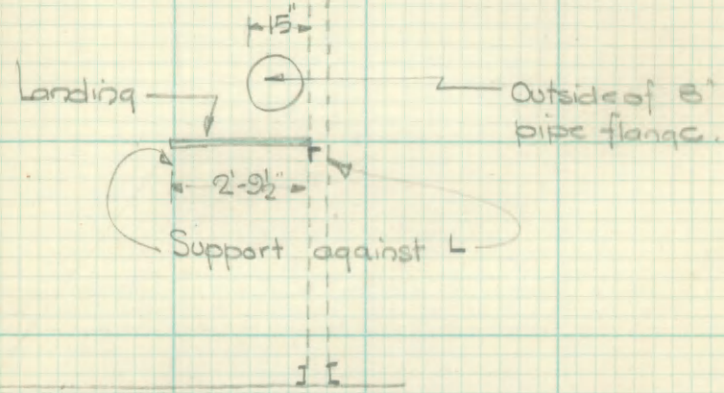
92"

Using 8 1/2" risers - 11 risers

10 steps - 6" steps -



4'-8" 8"

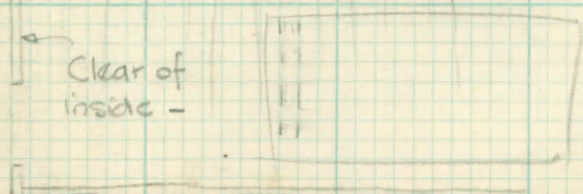


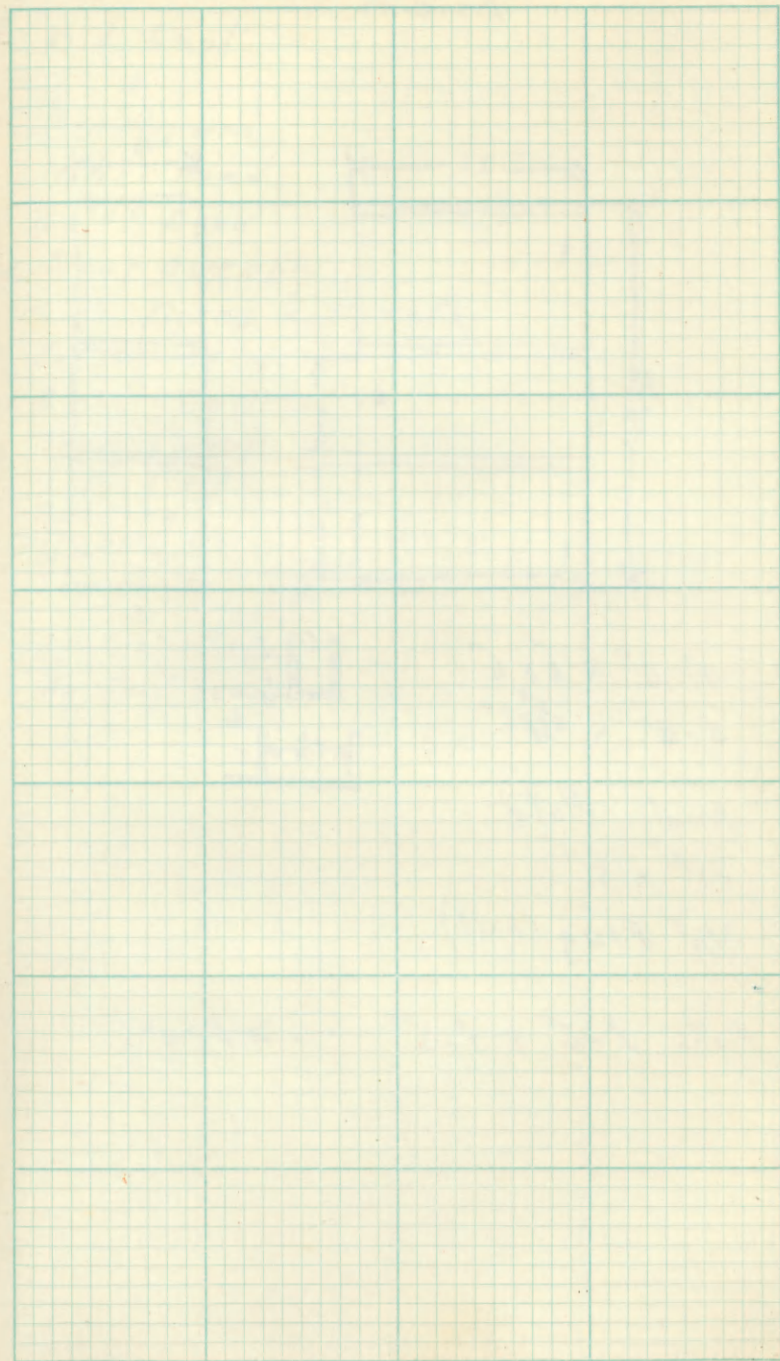
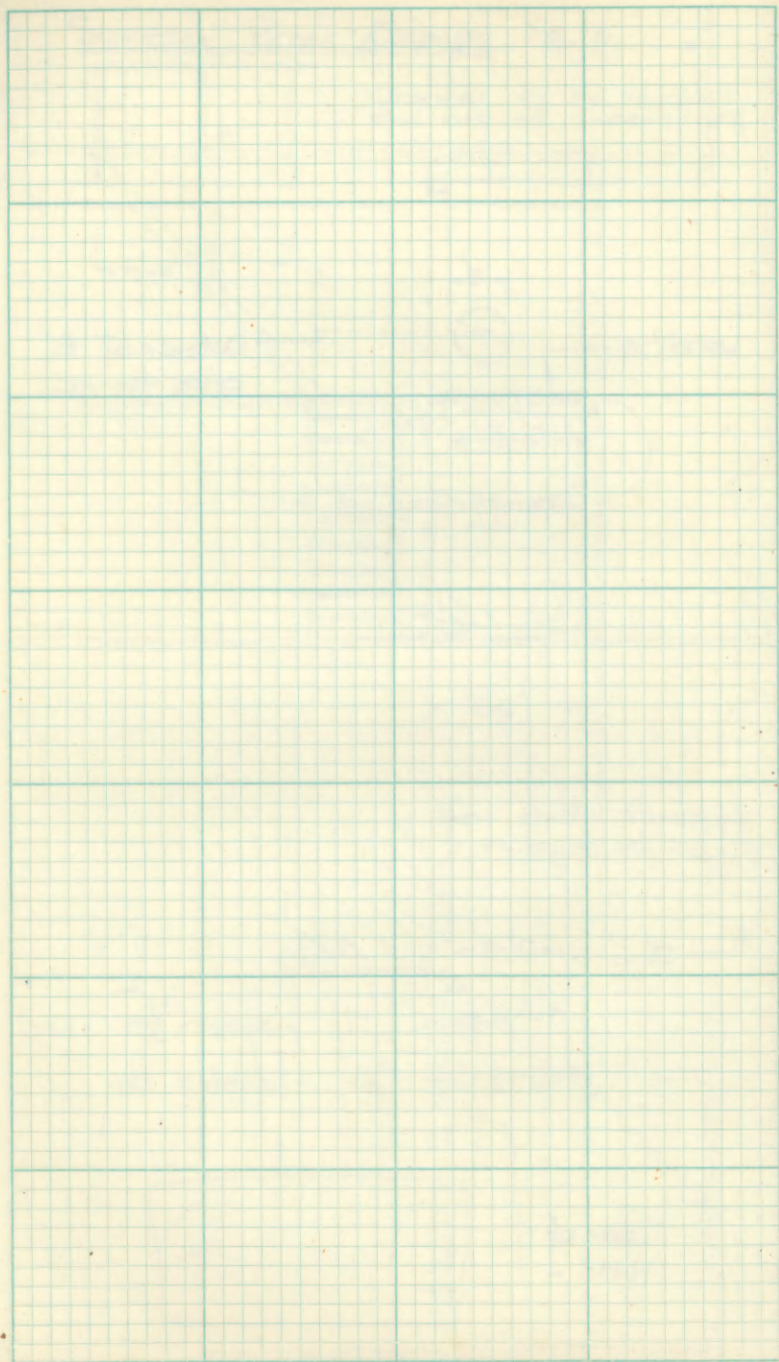
4'-8"

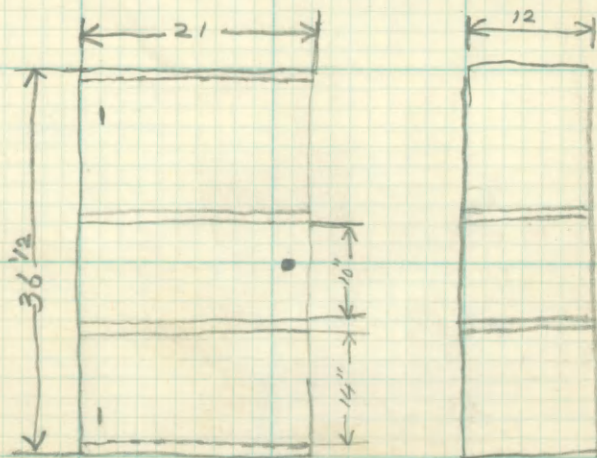
2'-6" 2'-2"

1'-11"

Clear of inside -







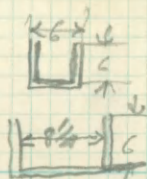
7'-6" x 6" x 6"

3'-3" x 8 1/4" x 6"

Amalg. Plate

18" x 8"

3/4" Plug (bolt)



Matts 3'-6" x 3'-5" - 4 Reg'd

Oil Seal

"

Diaphragm

INNER Band

Outer Band

Drive Gear Assembly

Hatch Discs & Nozzles

Jig Screens

Basket Baskets

Sand Pump

Liner Plates

Bearing

Shaft

Impeller

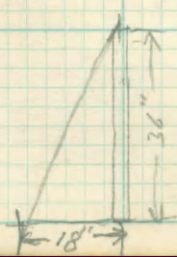
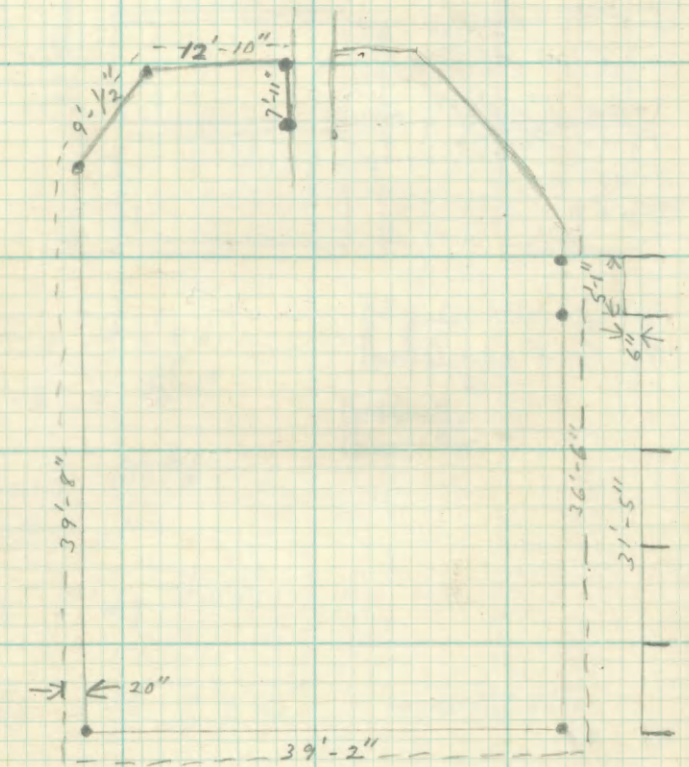
Amalgamator

Hg. Feed gears

36'-6" 39'-2" 39'-8" Guardrail
 9'-1/2" 12'-10" 7'-11"

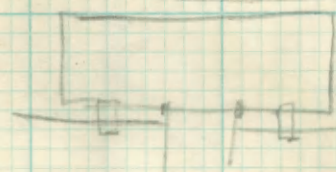
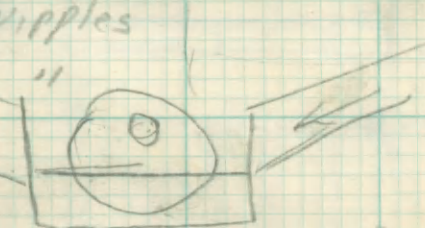
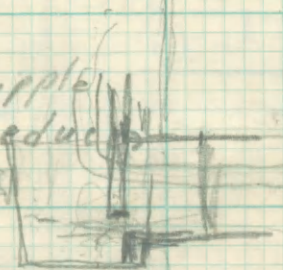
Ht - 36"

Brackets - 18" from centre of rail
 Lengths are from post to Post



Suction - 8' @ 1" inside Diam
 Water - 25' @ 3/4" " "
 Discharge - 18' @ 1" inside Diam "

- 2 - 1 1/2" Tee
- 4 - 1 1/2" x 6" Nipples
- 1 1/2 to 1/2" Reduc
- 2 - 1/2" Valve
- 4 - 1 1/2" - 6" Nipples
- 1/2 - 3/4" - 6" "

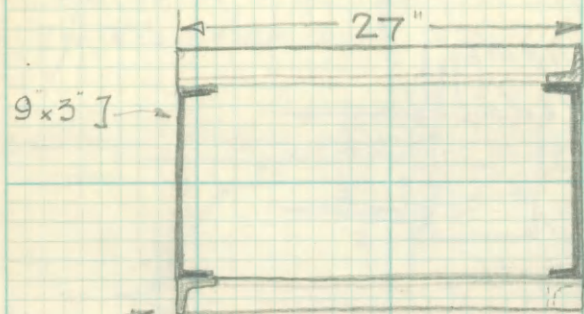
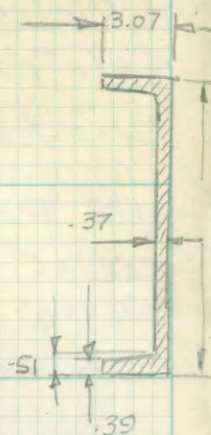


clone sluice
 12" wide x 8'

Cocoon matting
 Expanded Metal

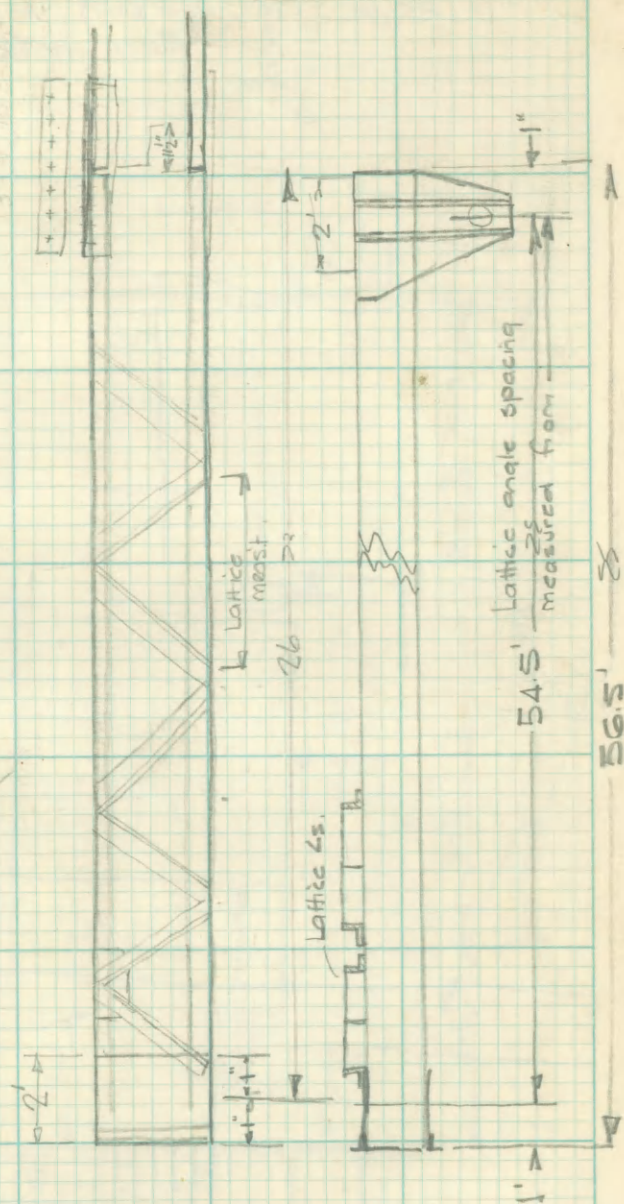
Nov. 20 1954.

Span 56'2"


$$2'2'' \times 2'2'' \times 1'4'' \text{ L}$$


Spacing of Lattice Angles

from end with pin hole.



Lattice angle spacing
measured from 2θ

五

七

10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8 10^9 10^{10} 10^{11} 10^{12} 10^{13} 10^{14} 10^{15} 10^{16} 10^{17} 10^{18} 10^{19} 10^{20} 10^{21} 10^{22} 10^{23} 10^{24} 10^{25} 10^{26} 10^{27} 10^{28} 10^{29} 10^{30} 10^{31} 10^{32} 10^{33} 10^{34} 10^{35} 10^{36} 10^{37} 10^{38} 10^{39} 10^{40} 10^{41} 10^{42} 10^{43} 10^{44} 10^{45} 10^{46} 10^{47} 10^{48} 10^{49} 10^{50} 10^{51} 10^{52} 10^{53} 10^{54} 10^{55} 10^{56} 10^{57} 10^{58} 10^{59} 10^{60} 10^{61} 10^{62} 10^{63} 10^{64} 10^{65} 10^{66} 10^{67} 10^{68} 10^{69} 10^{70} 10^{71} 10^{72} 10^{73} 10^{74} 10^{75} 10^{76} 10^{77} 10^{78} 10^{79} 10^{80} 10^{81} 10^{82} 10^{83} 10^{84} 10^{85} 10^{86} 10^{87} 10^{88} 10^{89} 10^{90} 10^{91} 10^{92} 10^{93} 10^{94} 10^{95} 10^{96} 10^{97} 10^{98} 10^{99}

DR. 4- MEASUREMENTS FOR DUMP HOPPER WALKWAY

PLAN

Panel
Clear

33.5"

2'-0"

28"

13"

Door

STAIRS

1 NOV. 51

1'-8"

7'-4.2"

7'-4.2"

10'-11.2"

3'-7"

4'-5.2"

EDGE

OF BOARDING

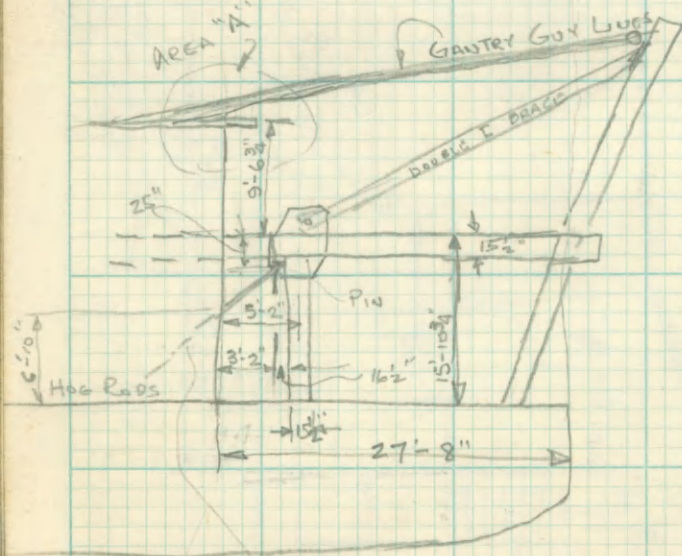
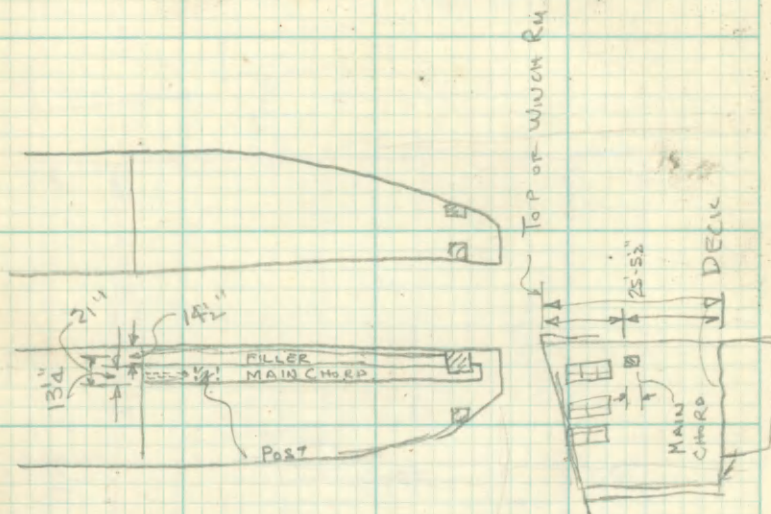
83"

54"

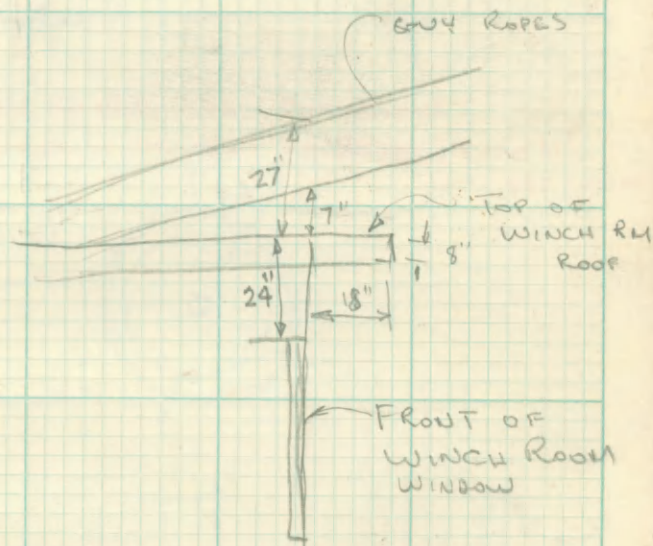
TIMBER

UT.

MEASUREMENTS FOR FORWARD CROSS-TRUSS



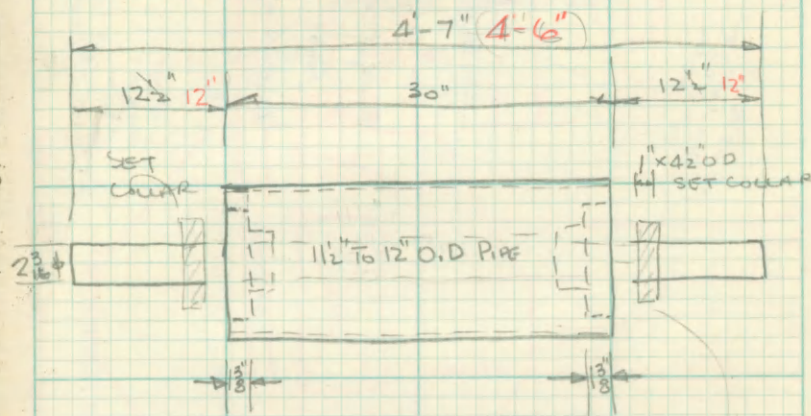
DIAG. HOG ROD
IS ON WELL HOLE SIDE
OF VERT.



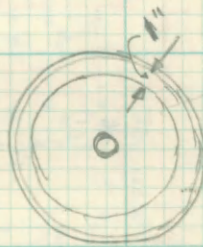
ENLARGEMENT OF AREA 'A'
OPP. PAGE.

DR. 9. STACKER SNUB ROLLER

MEASUREMENTS TAKEN FROM USED
ROLLER IN YARD - SEE W.D. #621A



FIGURES IN RED ARE DIMENSIONS
FROM ROLLER IN OPERATION ON DREDGE (12 JUNE '51),
SEE DWG. 5411



AFT

FORWARD

10"
2 Bolts
x 3" Bolts

2x 11" Bolt
10"

Platform

7 Spacing at 20" 11-8

62 1/2"
59" PLATE
UPPER THRUST
ROLLER CASTING
SCREEN
A 59" x 15" x 1/2" PLATE
45" 5/8" TO POST
2x 11" Bolt
10"
12 1/2"
13 1/2"
14 1/2"
15 1/2"
16 1/2"
17 1/2"
18 1/2"
19 1/2"
20 1/2"
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94 1/2"
95 1/2"
96 1/2"
97 1/2"
98 1/2"
99 1/2"
100 1/2"

VIEW LOOKING TO PORT

3" Bolts - MUSH HEAD PROJECTS ON EAR SIDE 300

CHORD MEASURES 19 1/2" DEEP OUTSIDE
19" INSIDE

DR 4 -

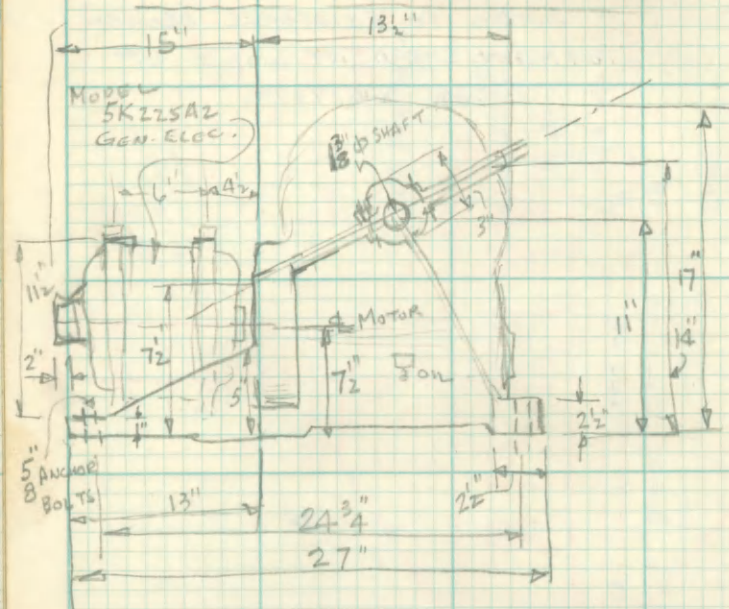
120" 1/2" 1/2"

MEASUREMENT TAKEN FOR SPLICE
PLATES TO REINFORCE BROKEN
STBD MAIN CHORD AT JOINT U4.
SEE DWG. 7229.

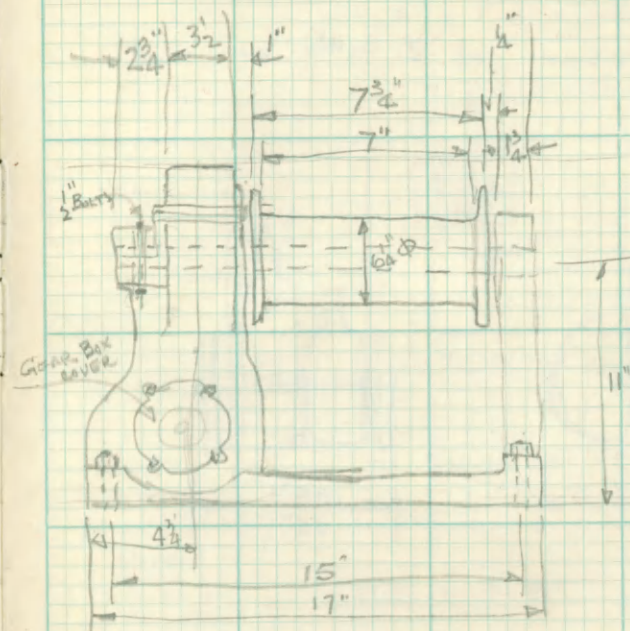
1 MAY. 57

146

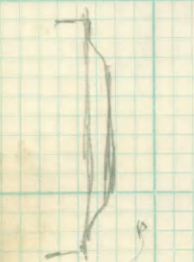
PROPOSED FOR
MOTOR-HOIST COMBINATION TO BE USED
ON DR. 4 SCREEN-DECK HOIST.



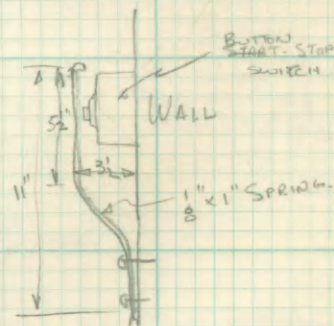
2 H.P. MOTOR, -1740 RPM



VIEW OF HOIST

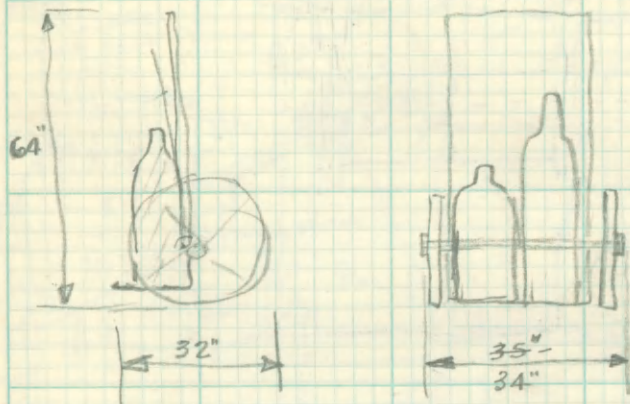


CAGE TRIPPING
DEVICE

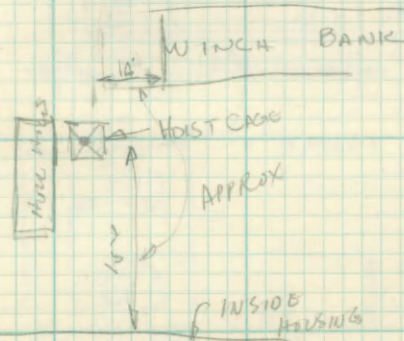
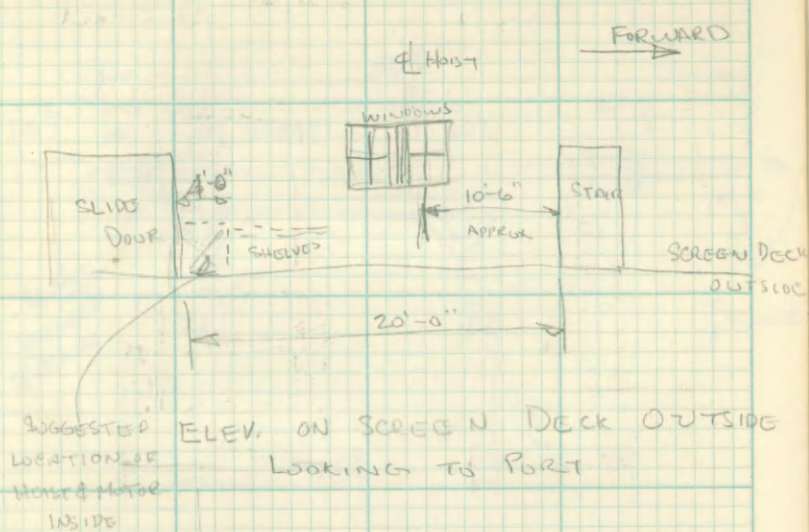


STOPPING SWITCH

Dimensions of 2-Bottle post-card



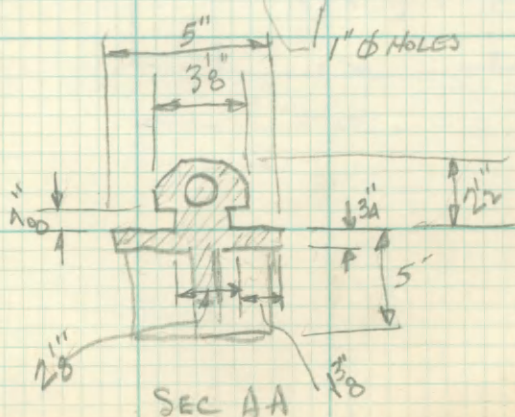
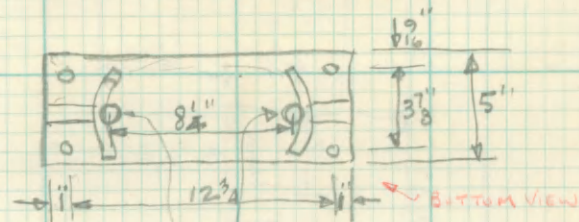
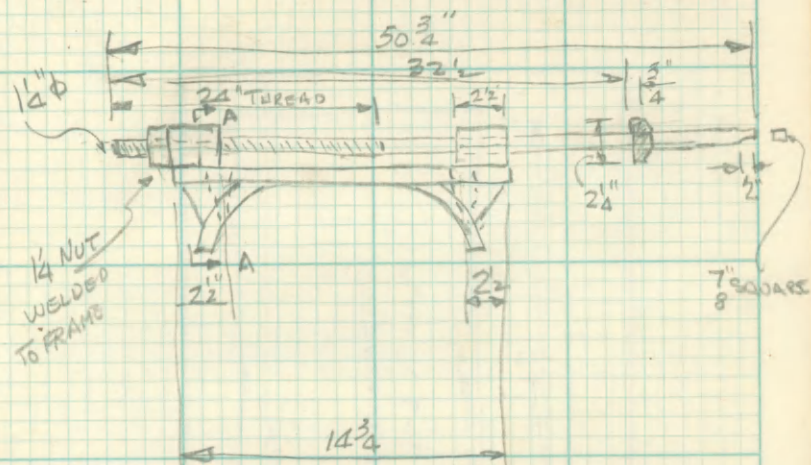
DR. 4- MEASUREMENTS FOR SCREEN DECK HOIST



LOCATION PLAN ON MAIN DECK

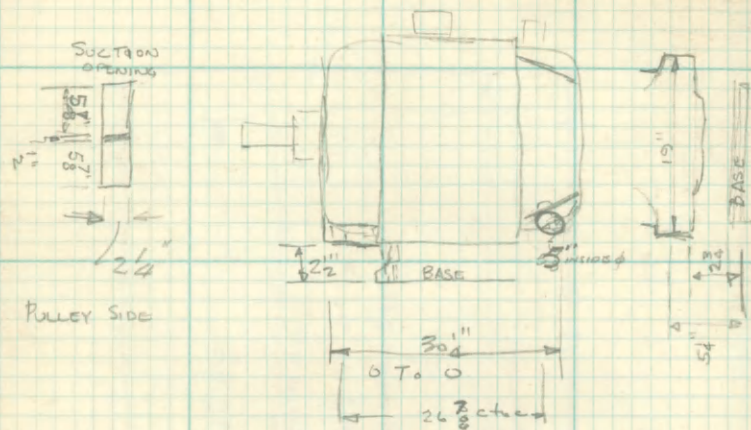
DR. 4 - STACKER LOWER END

TAKE-UP SCREW & CASTING.

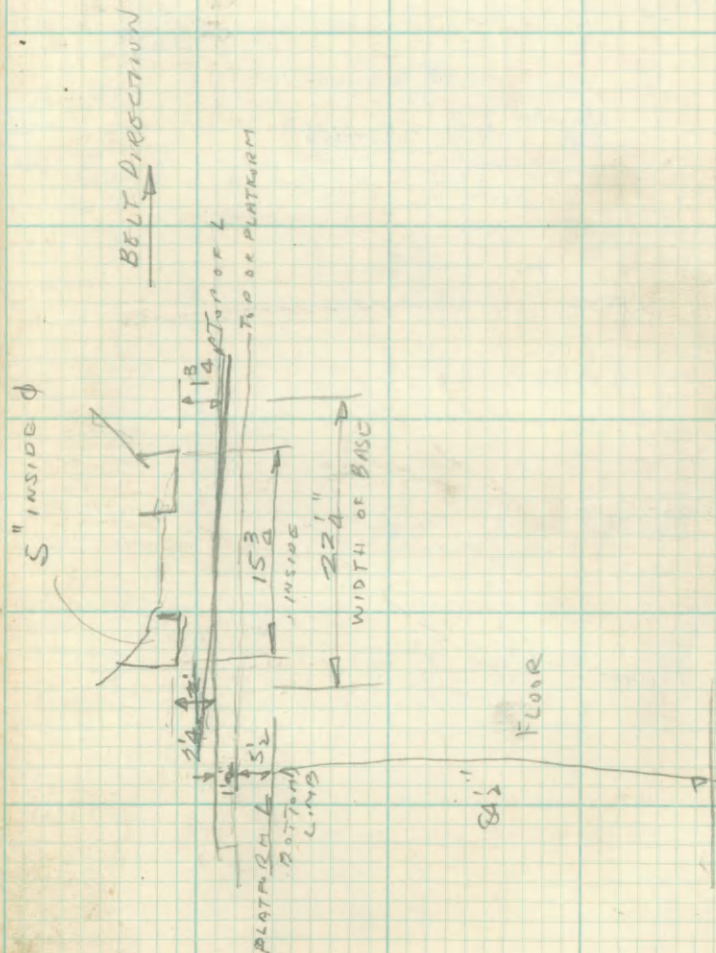
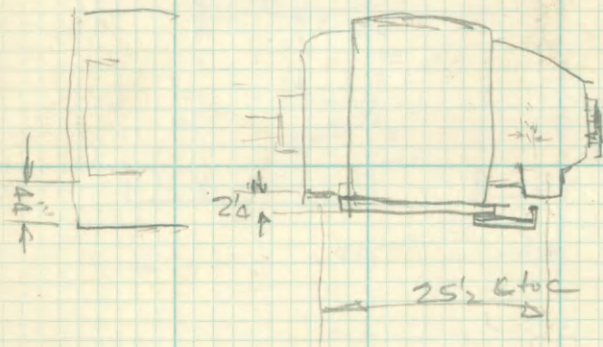


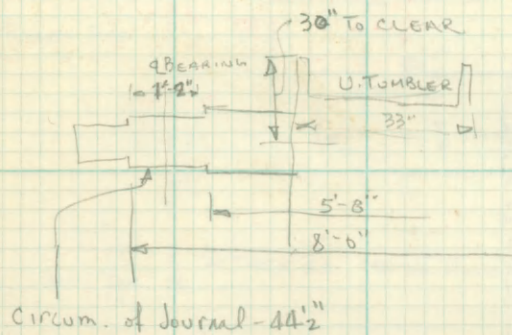
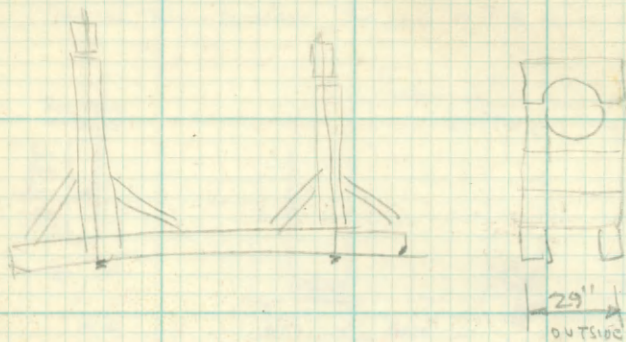
11 OCT 50

SPARE - 30 H.P. DR II STACKER MOTOR
SERIAL No - 26W495 STORED IN #3 W.H.



STACKER MOTOR NOW OPERATING
ON DR. II.



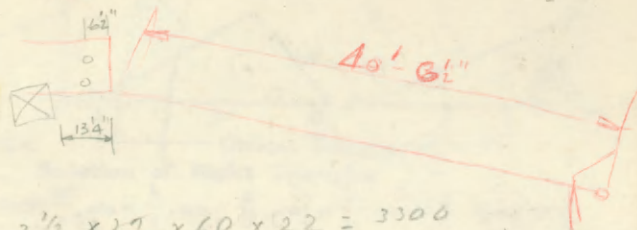


$9\frac{3}{4} \times 9\frac{3}{4} \times 20\frac{1}{2}$ Rough Run

8×10
 10×10 Rough Spr. - 16' Len.

Dr 4.

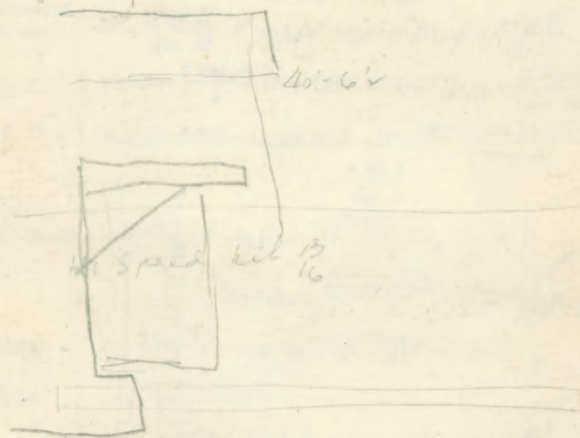
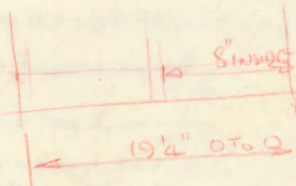
28 2.4



$$\frac{2\frac{1}{2} \times 27 \times 60 \times 22}{27} = 3300$$

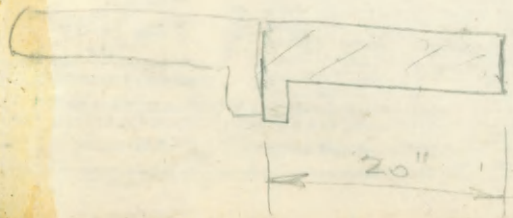
$$3300 \times \frac{1}{2} = 1650$$

$$\begin{array}{r} 1650 \\ .50 \\ \hline 825.00 = 27\frac{1}{2} \\ 30 \end{array}$$



27"

57.6"



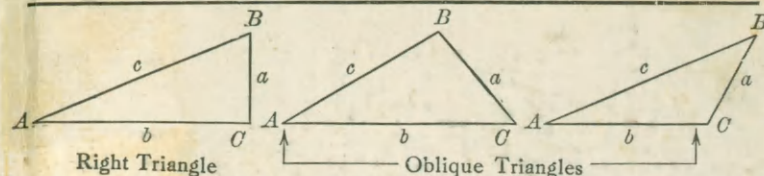
17+23
 5. 6 3/4
 2 4 1/2
 2 4 1/2
 10 3 1/10

Well
 4000 lb = 8000 lb



Wedges
 Strips - 30'
 25 - 1/4 x 1/8

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\csc = \frac{c}{b}$

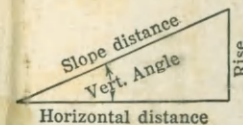
Given a, b	Required A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

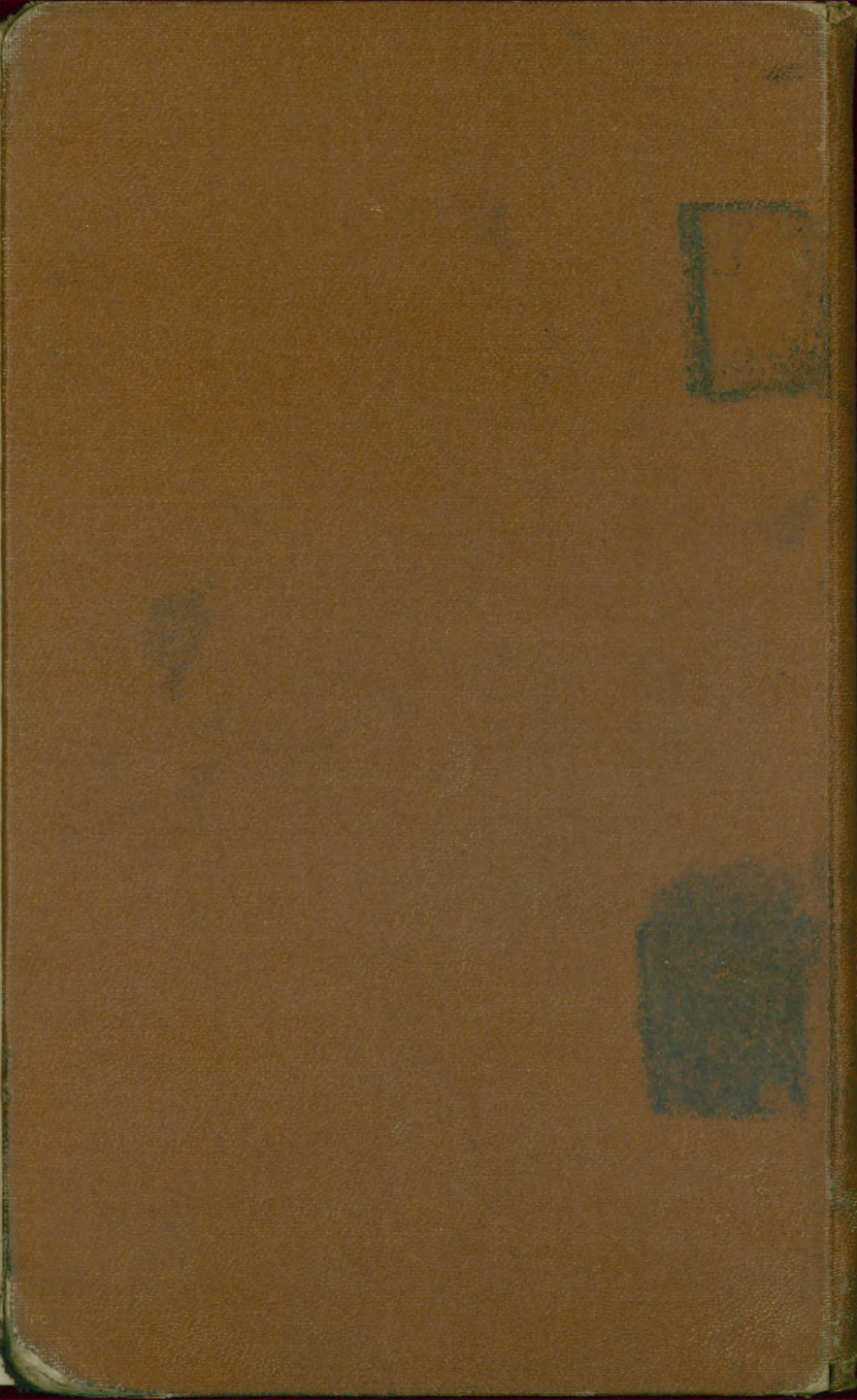
Solution of Oblique Triangles

Given A, B, a	Required b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{b c}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{a c}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{b c \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
 Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.
 When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.







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ACCESSION _____ VOL 88 PAGE(S) 84
BOX/BOÎTE _____ REEL/BOBINE _____
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