

# RODNEY HUNT COMPANY

ESTABLISHED 1840



ORANGE, MASSACHUSETTS, 01364, U.S.A.  
JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

NO EXCEPTIONS TAKEN	AMEND-RESUBMIT
MAKE CORRECTIONS NOTED	REJECTED-RESUBMIT
REVIEWED BY: <i>RM</i>	DATE: 3-26-89
RECOMMENDED BY: LANCE WOOD	DATE: 3-28-89

February 5, 1985

**RECEIVED**

FEB - 7 1985



Alder Construction Company  
3939 South 500 West, Suite 1  
Salt Lake City, UT 84107  
Attention: Mr. William T. Herodes  
Subject: Your Purchase Order #38-9

Rodney Hunt Shop Order #55972-2  
South Valley Water Reclamation Facility  
Salt Lake City, Utah

Gentlemen:

We are sending you herewith eight (8) copies of the following drawings for your approval:

*23* *24*

<u>Item #1:</u>	<u>Oxidation Ditch - Distribution Structure (2 Units)</u>
	<u>Tag OD-G-21A &amp; OD-G-22A</u>
→ E-32003	Inst: 48" X 48" Sluice Gate, Series Hy-Q
→ E-19625	Assy: 48" X 48" Sluice Gate, Series Hy-Q
E-27838	Det: 48" diameter Wall Thimble, "E" Section, 16" Deep (Existing Wall Thimble)
Catalog Cut	Molly Parabond Capsule
F-11413	Det: Stud for use with Molly Parabond Anchors
→ E-20126-03	Assy: Wall Bracket
→ F-9314-08	Assy: Stem Cover

<u>Item #2:</u>	<u>Oxidation Ditch (2 Units)</u>
	<u>Tag OD-G-15 &amp; OD-G-17</u>
E-32004	Inst: Hoist Stem & Accessories
E-3678-47	Assy: Wall Bracket
D-7505-01	Assy: 12" Handwheel
F-7887-03	Assy: Stem Cover

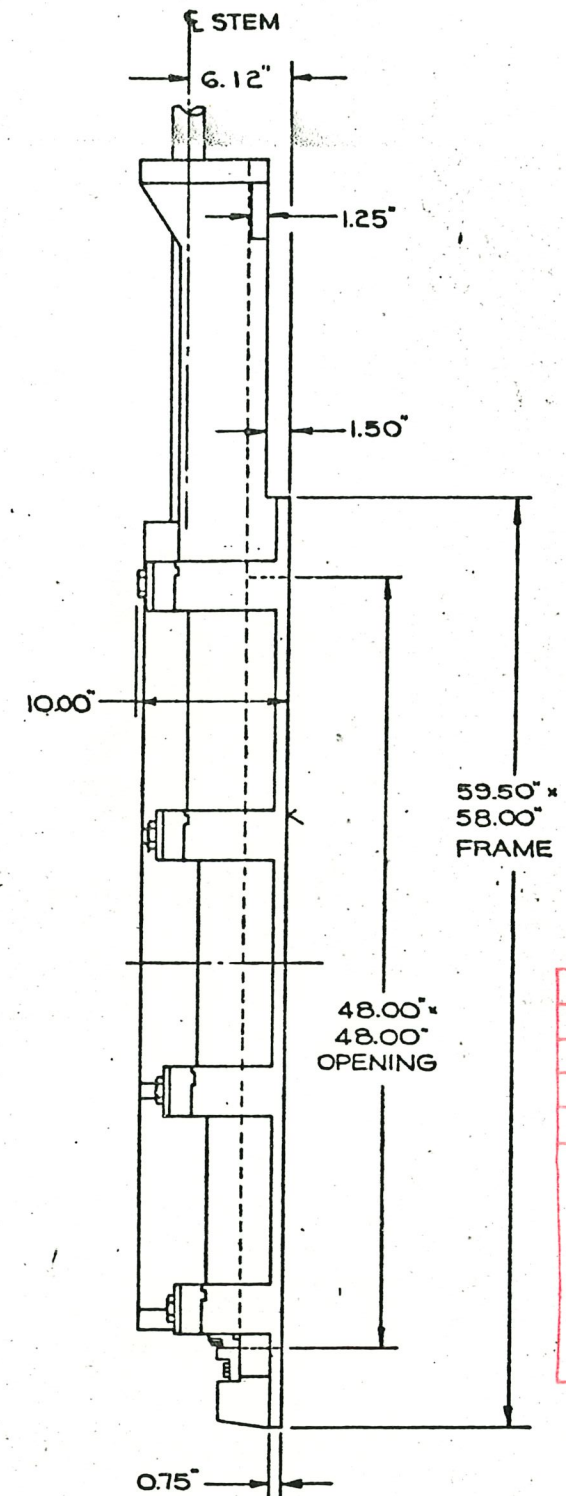
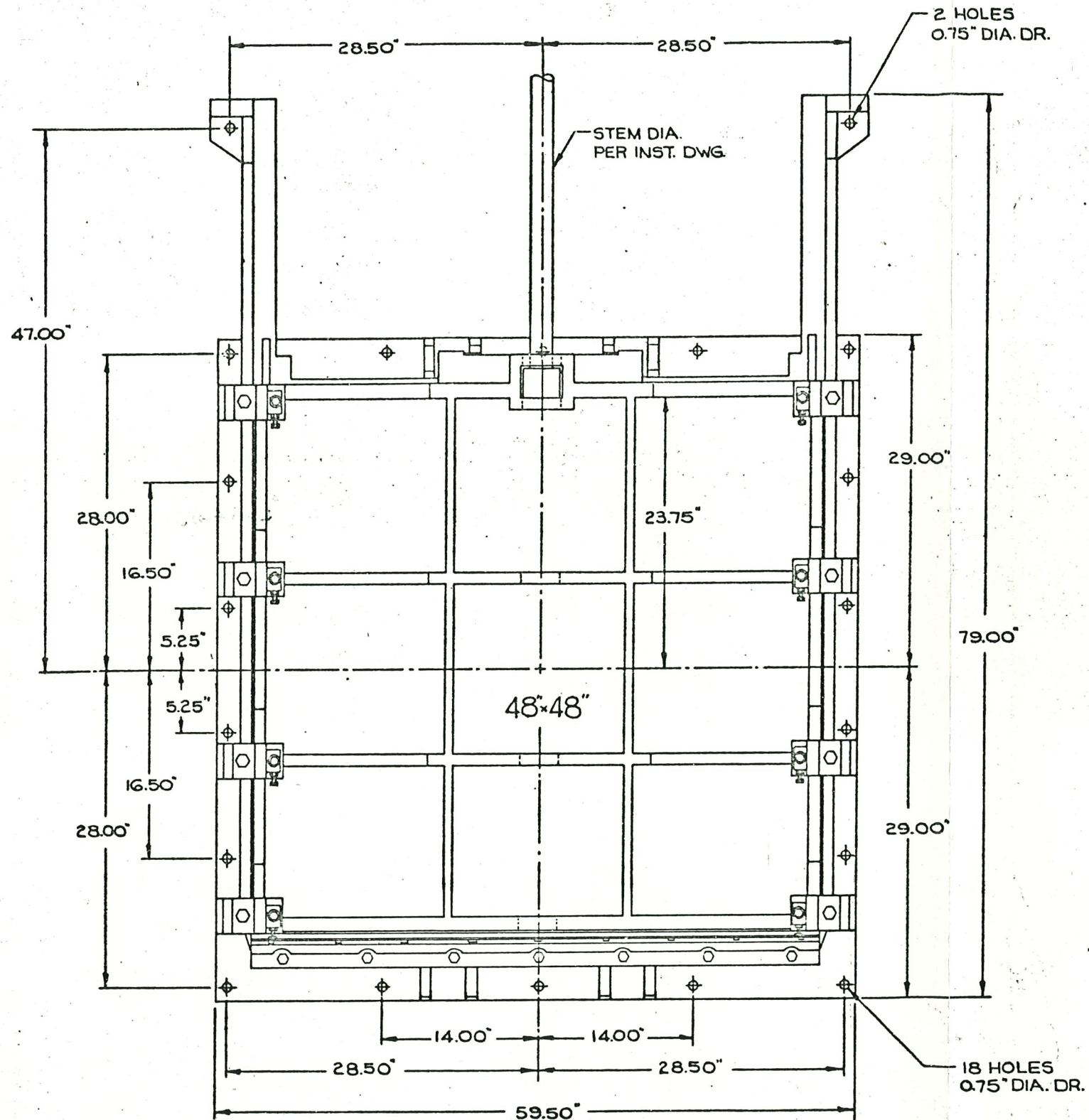
<u>Item #3:</u>	<u>Dump Station (1 Unit)</u>
E-32005	Inst: 6" diameter Sluice Gate
E-26758-02	Assy: 6" diameter Sluice Gate, Series Hy-Q
D-7503-02	Assy: 16" diameter Handwheel
F-5785-04	Det: Stem Adapter

55972-2	Material Specification Sheet
WCE 82-4	Instruction Manual



NOTES

THIS SLUICE GATE REPLACES  
GATES FORMERLY DESIGNATED  
AS SERIES: 5220/5240.



JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.			
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MAKE CORRECTIONS NOTED	<input checked="" type="checkbox"/>	REJECTED-SUBMIT	
REVIEWED BY:	<i>RM</i>	DATE:	3-26-85
RECOMMENDED BY:	ORIGINAL SIGNED BY LANCE WOOD	DATE:	3-28-85

CORRECTIONS OR COMMENTS MADE ON CONTRACTOR'S SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH CONTRACT, DRAWINGS AND SPECIFICATIONS. THIS SHOP DRAWING HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES AND TECHNIQUES, COORDINATING WORK WITH OTHER TRADES, AND SATISFACTORY AND SAFE PERFORMANCE OF THE WORK.

TEMPLATE NO: B048135

CHANGE	BY	CHKD	DATE	ALT.	CHANGE	BY	CHKD	DATE	ALT.	CHANGE	BY	CHKD	DATE	ALT.	CHANGE	BY	CHKD	DATE	ALT.	CHANGE	BY	CHKD	DATE	ALT.
REVISED SERIES F-11247 WASE-1989Z (STOP BAR)	K	R	9-22-81																					

SEAL: F-4535 RET.R: C-14525-16 STOP BAR: F-11247 DISC: E-19890-2 FRAME: E-19891-2 THRUST NUT-RS: E-16627 THRUST NUT-NRS: E-16628

RODNEY HUNT COMPANY, ORANGE, MASS., 01364			
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ASSEMBLY: 48" x 48" SLUICE GATE ~ SERIES HY-Q			
DRAWN WEL	DESIGNED RMS	DATE 10-24-78	
CHECKED <i>WEL</i>	APPROVED	SCALE NTS	
ORDER NO.	DWG. NO. E-19625		

E-19624



2

3

4

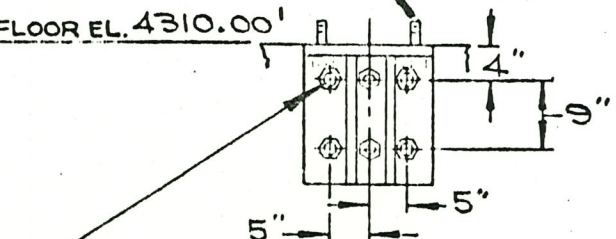
STOP COLLAR  
(POSITION  $\frac{1}{16}$ " ABOVE  
HOIST NUT WITH GATE  
IN LOWEST POSITION)

2.00" DIA. STEM  
THREAD ACME L.H.  
X 56.00" LONG  
(METHOD M).

3'-5 $\frac{5}{8}$ "

4-1 $\frac{1}{8}$ " DIA. STUDS X 4 $\frac{1}{4}$ " LONG  
TO PROJECT 2 $\frac{5}{8}$ " FOR S-5004  
HOIST W/STEM COVER  
F-9314-08

FLOOR EL. 4310.00'

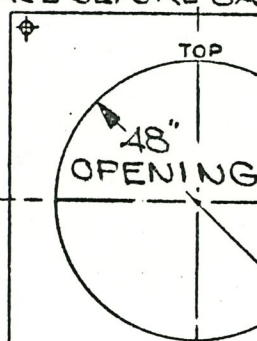


6- $\frac{7}{8}$ " DIA. HOLES X 6 $\frac{5}{8}$ " DP FOR  $\frac{3}{4}$ " MOLLY  
PARABOND CAPSULES # M20-34 &  $\frac{3}{4}$ "  
DIA. STUDS X 9 $\frac{1}{8}$ " LG. F-11413 TO  
PROJECT 2 $\frac{1}{2}$ " FOR WALL  
BRACKET E-20126-03

2- $\frac{7}{8}$ " DIA. HOLES X 6 $\frac{5}{8}$ " DP FOR  $\frac{3}{4}$ "  
MOLLY PARABOND CAPSULES  
9'-6" # M20-34 &  $\frac{3}{4}$ " DIA. STUDS X  
8 $\frac{5}{8}$ " LG. F-11413 TO PROJ. 2"  
FOR STEM GUIDE (1) REQ'D

2- $\frac{3}{4}$ " DIA. HOLES X 5" DP FOR  $\frac{5}{8}$ "  
MOLLY PARABOND CAPSULES  
# M16-58 &  $\frac{5}{8}$ " DIA. STUDS X 8 $\frac{7}{8}$ "  
LG. F-11413 TO PROJ. 3 $\frac{3}{8}$ " FOR  
UPPER GUIDES

\* NOTE: UPPER GATE GUIDE  
SUPPORT NUTS TO BE IN  
PLACE BEFORE GATE INSTALL.



JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.	
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REVIEWED BY: RM	DATE: 3-28-85
RECOMMENDED BY: LANCE WOOD	ORIGINAL SIGNED BY DATE: 3-28-85
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FEB 5 1985

INV.  
EL. 4295.00'

FILL W/ ASPHALTUM OR  
EQUAL AFTER INSTALL.

ATTACH GATE ASSEMBLY  
E-19625 WITH 18- $\frac{5}{8}$ " DIA. X 2 $\frac{5}{8}$ " LG. STUDS  
TO PROJ. 1 $\frac{5}{8}$ " FROM (EXISTING WALL THIMBLE  
E-27838)

BACK FLGE TAPPED  
125" STD. (HARD-  
WARE BY OTHERS)

\* TAG: OD-G-21A & OD-G-22A

(REF. S.O. 22040-2)

ALT.	CHANGE	BY	CHKD.	DATE

PROJECT: SOUTH VALLEY WATER RECLAMATION  
FACILITY WEST JORDAN, UT.  
GATE LOCATION: OXIDATION DITCH-DISTRIBUTION  
STRUCTURE

GATE NUMBER: \* QUANTITY: 2 ORDER ITEM NUMBER: 1  
FOR MATERIALS SEE SPECIFICATION SHEET: 55972-2

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HUNT COMPANY NOVEL AND PATENT-  
ABLE FEATURES SHOWN ARE PROTECT-  
ED BY U.S. AND OR FOREIGN PAT. AND  
PAT. PEND.

INSTALLATION: 48" X 48" SLUICE GATE

SERIES HY-Q FOR ALDER

CONSTRUCTION CO

DRAWN P. WEST DESIGNED P. V. W. DATE 1-29-85

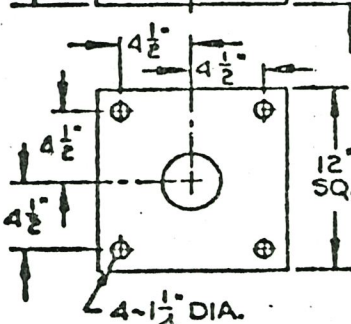
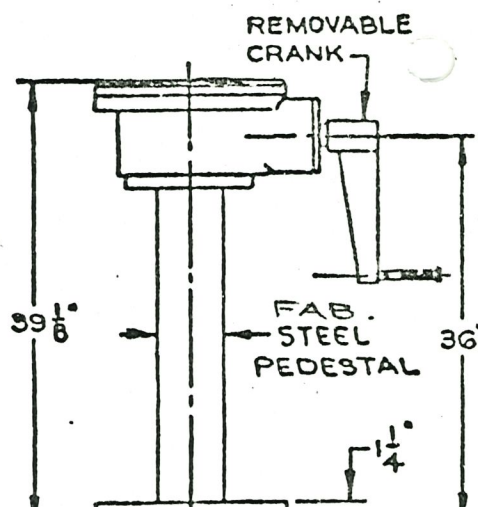
CHECKED DRL. APPROVED SCALE NTS

ORDER NO. 55972-2 DWG. NO. E-32003

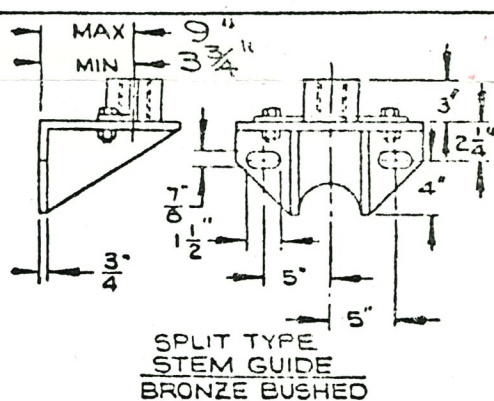
HOIST: E-18569

STOP F-4217C-07 STEM: 15915-04 FLR. MTD.  
COLLAR: GUIDE: STEM GUIDE:

THRUST NUT: E-16627-04 COUPLING:  
ATTACH PER: E-6560-07 ATTACH PER:



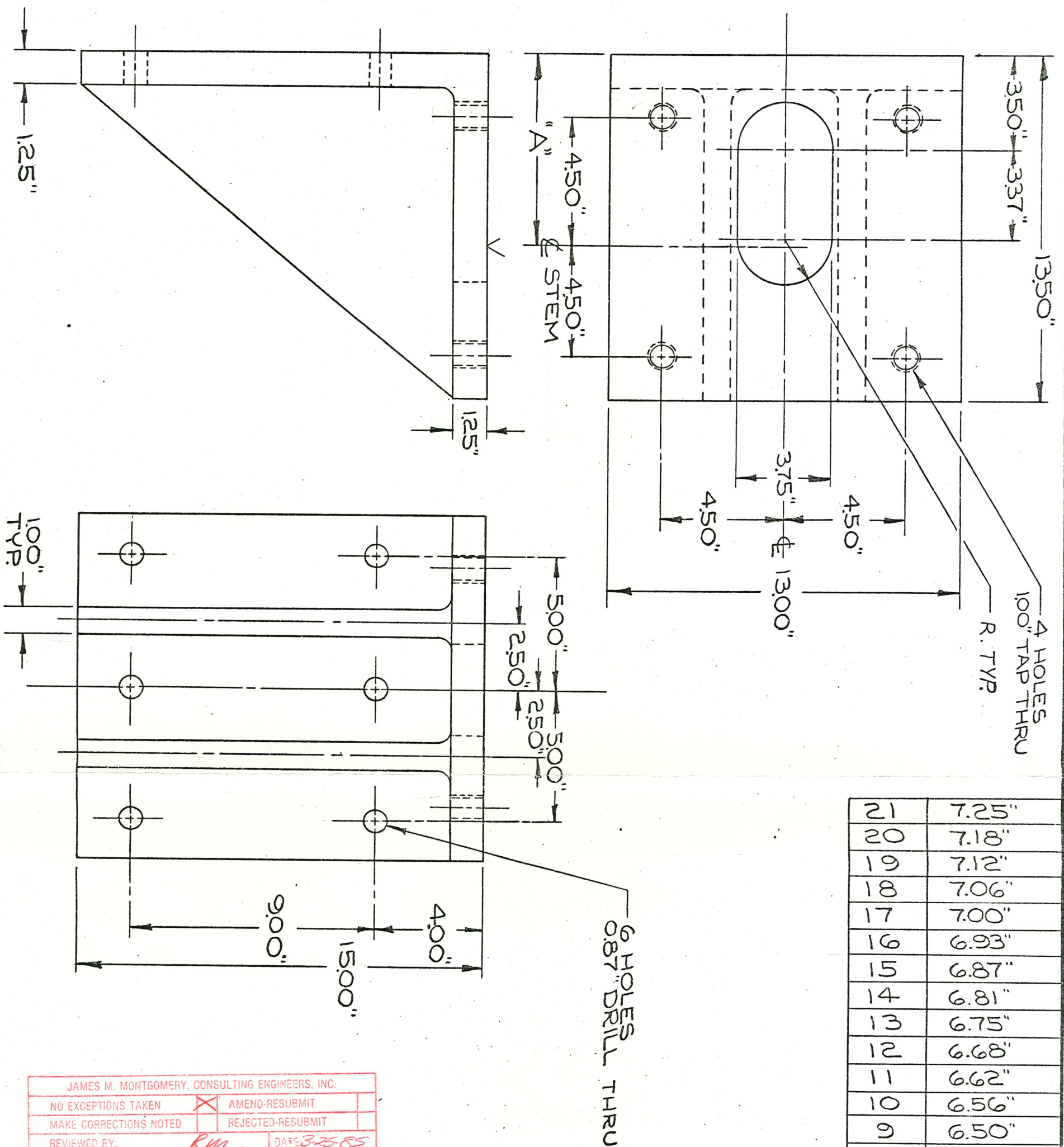
S-5004 HOIST  
SINGLE SPEED  
4:1 RATIO



SPLIT TYPE  
STEM GUIDE  
BRONZE BUSHED

DWG. NO. E-32003





21	7.25"
20	7.18"
19	7.12"
18	7.06"
17	7.00"
16	6.93"
15	6.87"
14	6.81"
13	6.75"
12	6.68"
11	6.62"
10	6.56"
9	6.50"
8	6.43"
7	6.37"
6	6.31"
5	6.25"
4	6.18"
3	6.12"
2	6.06"
1	6.00"
ITEM	"A" ¢ TO BACK

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.	
NO EXCEPTIONS TAKEN	<input checked="" type="checkbox"/> AMEND-RESUBMIT
MAKE CORRECTIONS NOTED	<input type="checkbox"/> REJECTED-RESUBMIT
REVIEWED BY: <i>Rm</i>	DATE: 3-25-85
RECOMMENDED BY: <i>LANCE WOOD</i>	DATE: 3-28-85
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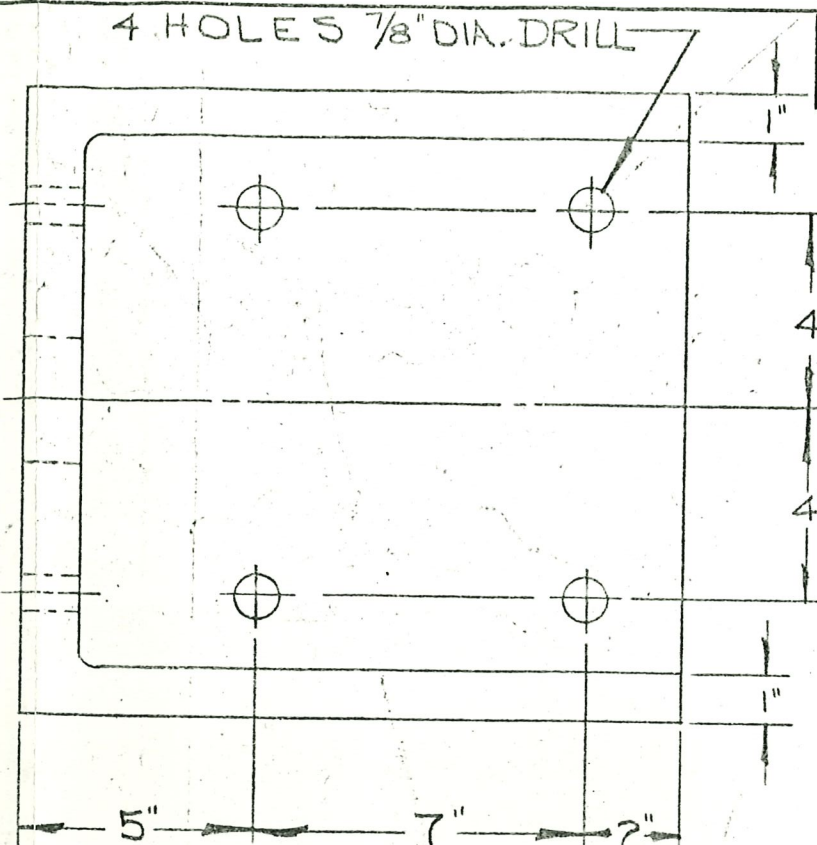
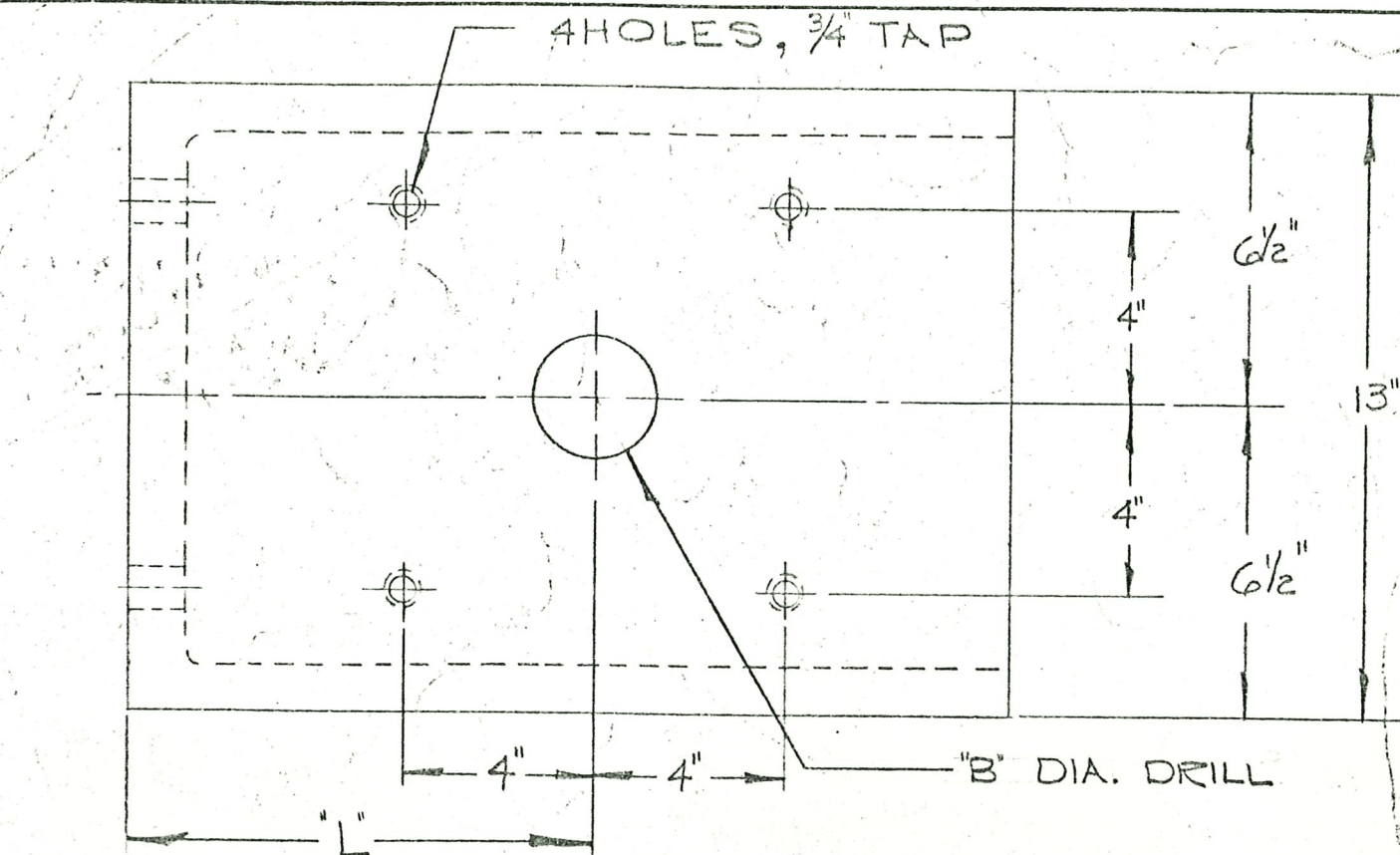
PATTERN NO. ~ 2-B265-01

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DETAIL ~ WALL BRACKET FOR S-5004 HOIST (MAX. 2.50" DIA STEM)		
RANGE 6.00" TO 7.25"		
DRAWN TFB	DESIGNED PKD	DATE 8-14-80
CHECKED DRL.	APPROVED	SCALE 3"=1'-0"
INDEX SYMBOL PL	ORDER NO.	DWG. NO. E-20126

ISSUED FROM E-17573 ISSUED 7-155 FOUNDRY

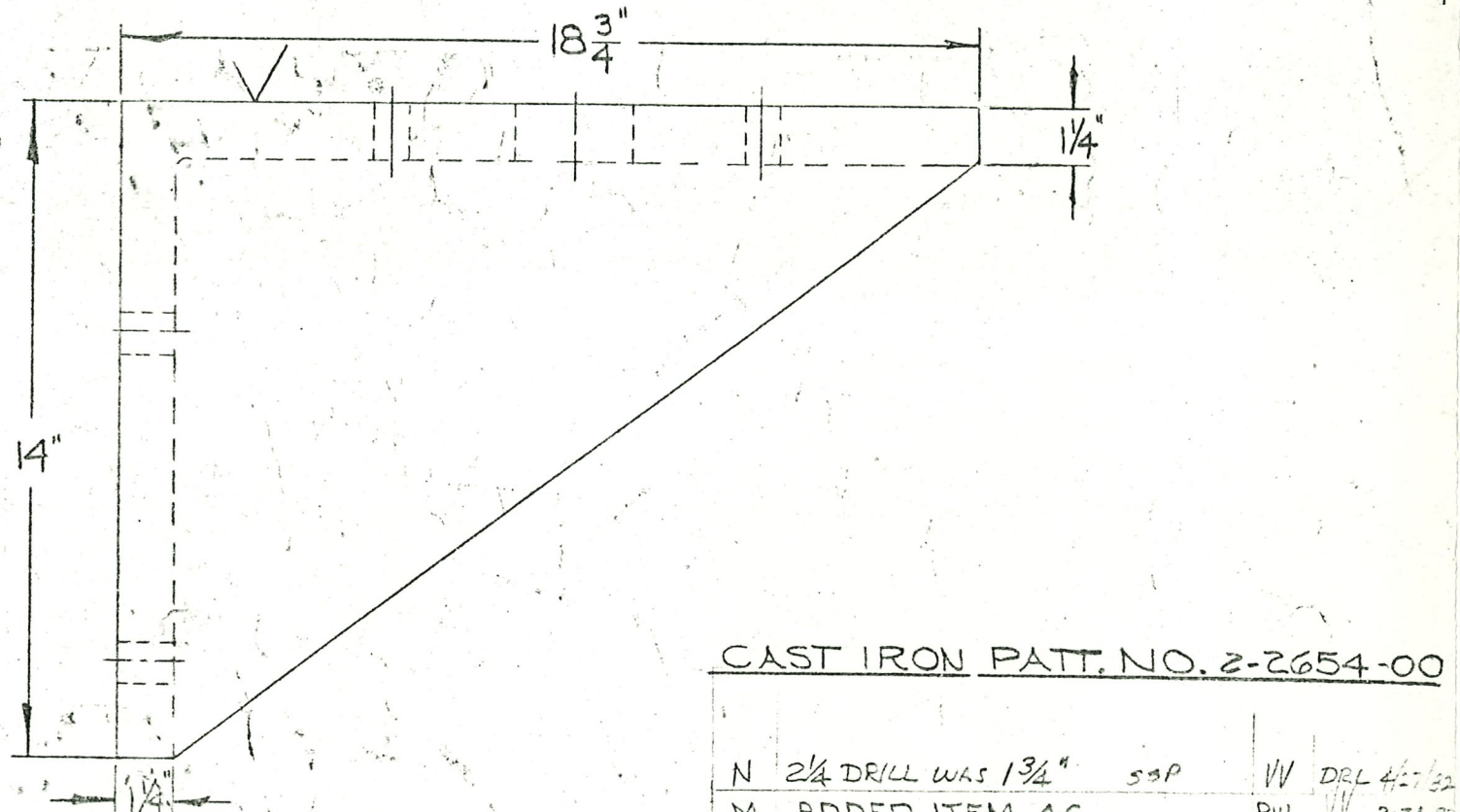
E-20126





# NOTES

47	11 3/16	2"	
46	10 1/8	2"	M
45	13 1/4	2 1/2"	L
44	12 1/8	1 1/2"	K
43	11 7/8	3	J
38	9 15/16	2 1/2"	
37	12 5/8	2 1/2"	
36	8 1/16	2 1/2"	
35	12"	2 1/2"	
34	10 7/8	2 1/2"	
31	7 7/8	2 1/4"	
27	5 1/8	2"	
26	6 1/4	2 1/2"	
25	8 7/8	2"	
12	4 13/16	2"	
11	13 7/8	2 1/2"	
10	8 5/16	2 1/2"	
9	8 9/16	2 1/2"	
8	7 1/8	2"	
7	6 1/16	2 1/2"	
6	5 3/8	2 1/2"	
5	9 1/2	2 1/2"	
4	5 3/4	2 1/2"	
3	8 5/8	2 1/2"	
2	10	3 1/2"	
1	10 1/16	3 1/2"	
ITEM "L"	"B"	ITEM "L"	"B"



JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

NO EXCEPTIONS TAKEN	<input checked="" type="checkbox"/> AMEND-RESUBMIT
MAKE CORRECTIONS NOTED	<input type="checkbox"/> REJECTED-RESUBMIT
REVIEWED BY: <i>LM</i>	DATE: <i>3-28-85</i>
RECOMMENDED BY: <i>LANCE WOOD</i>	DATE: <i>3-28-85</i>

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CAST IRON PATT. NO. 2-2654-00

N 2 1/4 DRILL WAS 1 3/4" SSP  
M ADDED ITEM 46 PW

ALT.	CHANGE	BY	CKD.	DATE	ALT.	CHANGE	BY	CKD.	DATE
A	ADDED ITEM 33 (SSP)	EL	12	5-69	E	ADDED RANGE	W	7-1-77	
B	ADDED ITEM 34	D	FW	5-15-70	H	ADDED ITEM 41 SSP	V	3-2-78	
C	" " 35	JGH	SSP	10-25-71	J	ADDED ITEM 43 SSP	DAP	5-16-78	
D	ADDED ITEM 38	KP	SPS	5-21-73	K	ADDED ITEM 44	TFB	7-13-80	
E	ADDED ITEM 40	SSP	DRL	3-24-77	L	ADDED ITEM 45	JEF	9-8-80	

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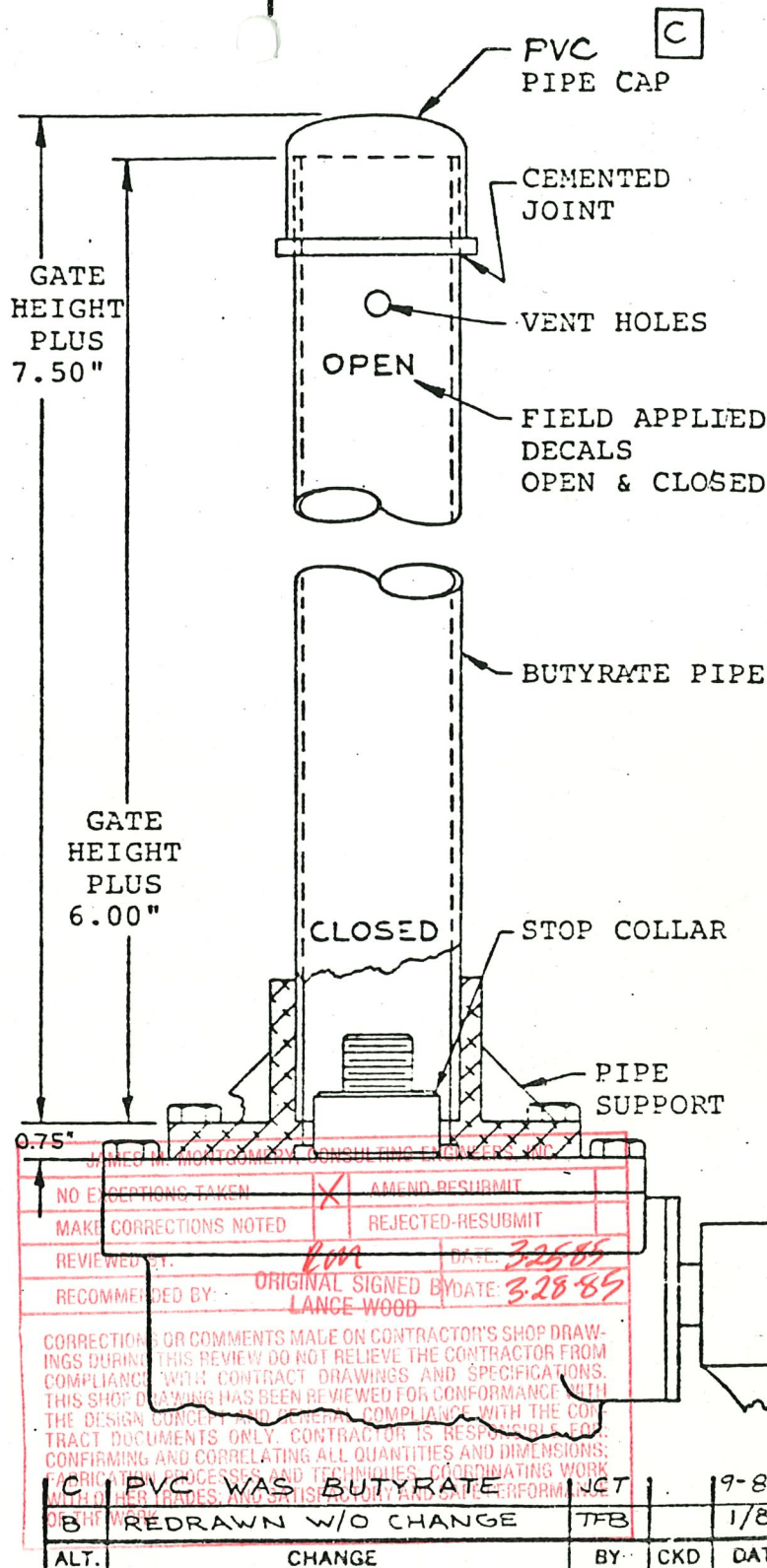
WALL BRACKET  
S-2400 THRU S-5003  
RANGE 10.00 THRU 13.50

DRAWN <i>gmh</i>	DESIGNED	DATE 10-31-62
CHECKED	APPROVED	SCALE 3"=1'-0"
INDEX SYMBOL	ORDER NO.	DWG. NO. <i>E-3678</i>



# NOTES

STEMS UP TO 2.00" DIAMETER		STEMS 2.25" TO 3.00" DIAMETER	
3.00" PIPE		4.00" PIPE	
ITEM	GATE HGT.	ITEM	GATE HGT.
01	18.00"	26	18.00"
02	20.00"	27	20.00"
03	21.00"	28	21.00"
04	24.00"	29	24.00"
05	30.00"	30	30.00"
06	36.00"	31	36.00"
07	42.00"	32	42.00"
08	48.00"	33	48.00"
09	54.00"	34	54.00"
10	60.00"	35	60.00"
11	66.00"	36	66.00"
12	72.00"	37	72.00"
13	78.00"	38	78.00"
14	84.00"	39	84.00"
15	90.00"	40	90.00"
16	96.00"	41	96.00"
17	102.00"	42	102.00"
18	108.00"	43	108.00"
19	114.00"	44	114.00"
20	120.00"	45	120.00"
21	126.00"	46	126.00"
22	132.00"	47	132.00"
23	138.00"	48	138.00"
24	144.00"	49	144.00"



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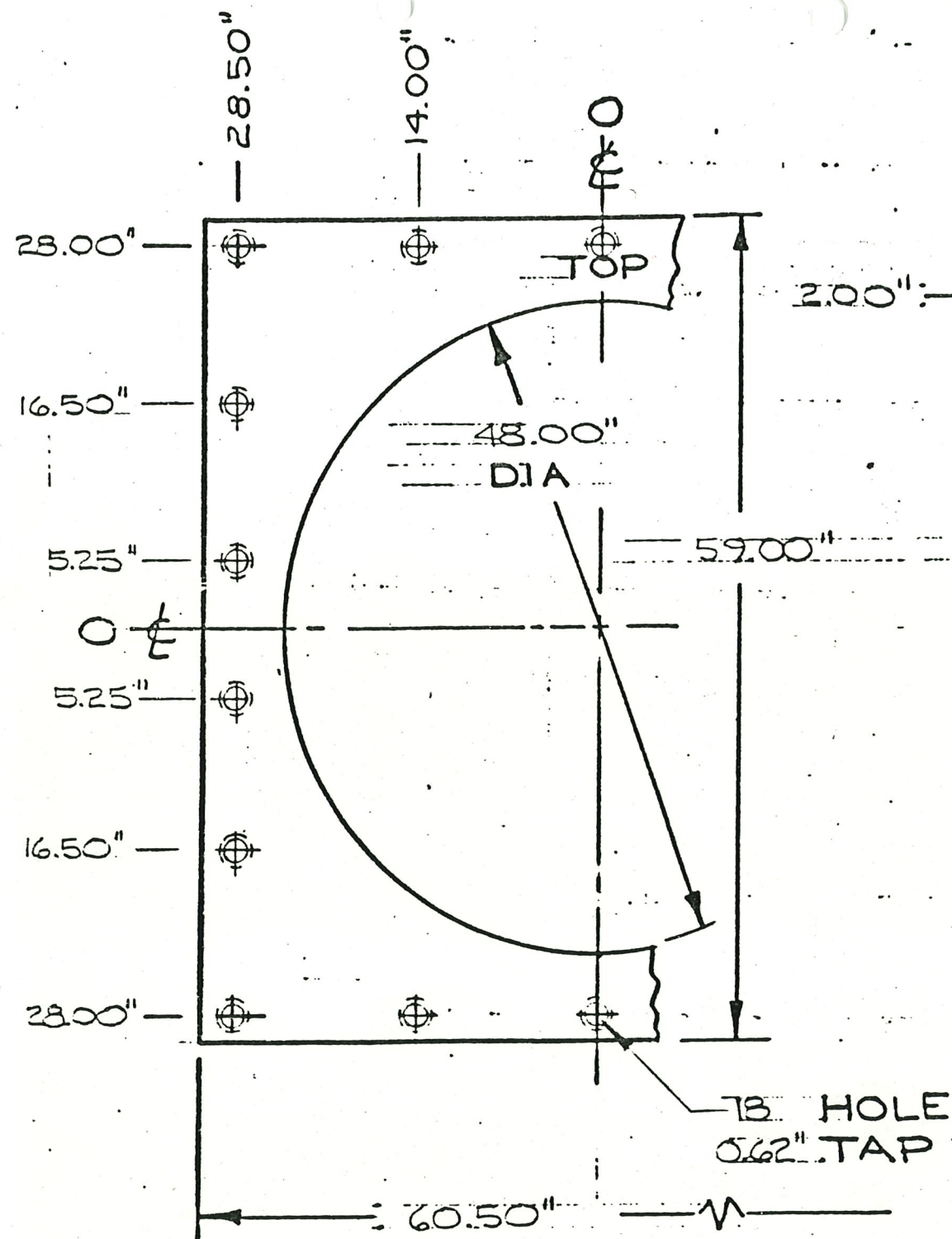
ASSEMBLY: CLEAR STEM COVER FOR S-5004,  
S-5012, S-5020, S-5036 & S-5054

CRANK OPERATED HOISTS

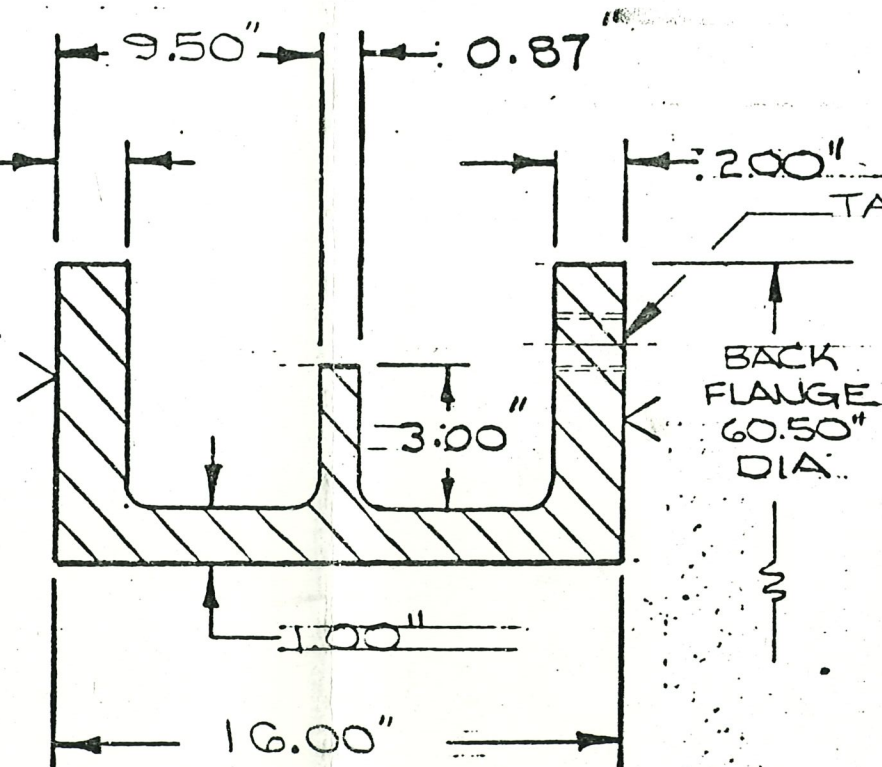
RE-DRAWN	TFB	DESIGNED	DATE 1-5-84
CHECKED	DRL	APPROVED	SCALE N.T.S.

INDEX SYMBOL	ORDER NO. <i>Issued</i>	DWG. NO. F 9314
MAKEPEACE P-23893	ASSEMBLE PER F-11313-22,-23	SUPPORT D-23893 (3") D-25766 (4")





FRONT FLANGE



TYPICAL SECTION

TAP BACK FLANGE ~ 44 HOLES  
1.50" TAP THRU ON 56.00" D.B.C.  
STRADDLE'S 125# STD.  
TEMPL. NO. B048001

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.			
NO EXCEPTIONS TAKEN	<input checked="" type="checkbox"/>	AMEND-RESUBMIT	
MAKE CORRECTIONS NOTED	<input type="checkbox"/>	REJECTED-RESUBMIT	
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PATT. NO. 2-B888-05

TEMPLATE NO. B048135

ALT.	CHANGE	BY	CKD.	DATE	ALT.	CHANGE	BY	CKD.	DATE

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DET: 48" DIA WALL THIMBLE  
"E" SECTION 16" DEEP

DRAWN EFL DESIGNED PKD DATE 10-18-82  
CHECKED APPROVED SCALE NTS

INDEX SYMBOL IBM PL ORDER NO. DWG. NO. E-27838