



2575 GREENSBURG ROAD - NORTH CANTON, OH 44720
PHONE: 330-833-3600 - FAX: 330-833-0229
WEBSITE: www.cantonelevator.com

RevolutionTM

"Machine Room-less" Hydraulic Elevator
Systems

INSTALLATION MANUAL

JOB #: 30859 T DATE: 12-12-23

PROJECT NAME: E-Studio Suites

ELEVATOR
CONTRACTOR: DC Elevator

NOTICE TO INSTALLER:
Back charges for corrective work
or replaced materials will NOT be
accepted unless expressly
authorized by CANTON ELEVATOR Inc.
before any such costs are incurred.

IMPORTANT: PLEASE READ MANUAL CAREFULLY AND FOLLOW
ALL INSTRUCTIONS EXACTLY DURING ASSEMBLY OF ELEVATOR
EQUIPMENT. PROPER OPERATION OF CANTON ELEVATORS IS
DEPENDENT UPON CORRECT INSTALLATION. WE CANNOT BE
RESPONSIBLE FOR IMPROPER OPERATION DUE TO INCORRECT
ASSEMBLY. IF YOU HAVE ANY QUESTIONS PLEASE CONTACT
OUR ENGINEERING DEPARTMENT AT (330) 833-3600.

IMPORTANT!!!

IMPORTANT!!!

BEFORE BEGINNING JACK INSTALLATION, verify that PIT DEPTH, TOTAL TRAVEL, and CLEAR OVERHEAD are EXACTLY as shown on the Elevator Layout Drawings and/or Jack Installation Sheet CY1. of this manual.

If there is ANY VARIATION between actual dimensions and those shown on our drawings, please contact the factory at 330-833-3600 before setting jack equipment.

In some cases jack setting height may have to be adjusted to maintain code requirements.

IMPORTANT!!!

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ALL JACK UNITS

 **CANTON ELEVATOR**
INCORPORATED

TABLE OF CONTENTS

Elevator Layout Drawings	Drawing Labels	Elevator Layout Drawings	Drawing Labels
Rails & Brackets -----	RB	Sling, Platform, & Tie Rods -----	SL
Jack Unit Installation -----	CY	Sling assembly, shoe installation, platform, & tie rod placement.	
Includes cylinder, piston, head, buffers, and PVC liner (if included).		Limit Switches, Duct, Tape Selector, & Wiring ---	SW
Power Unit Details -----	PU	Layout of provided equipment with connections to sling and rail.	
Includes motor wiring, valve adjustments and belt drive details (if not submersible).		Cab Details -----	CA
Oil Line -----	OL	Entrance Details -----	EN
Detailed information for oil line run from power unit to jack unit(s). Including grooving and threading requirements.		Fixture Details -----	FI
		Check Chart For Oil Hydraulic Elevators -----	Pg 1-2

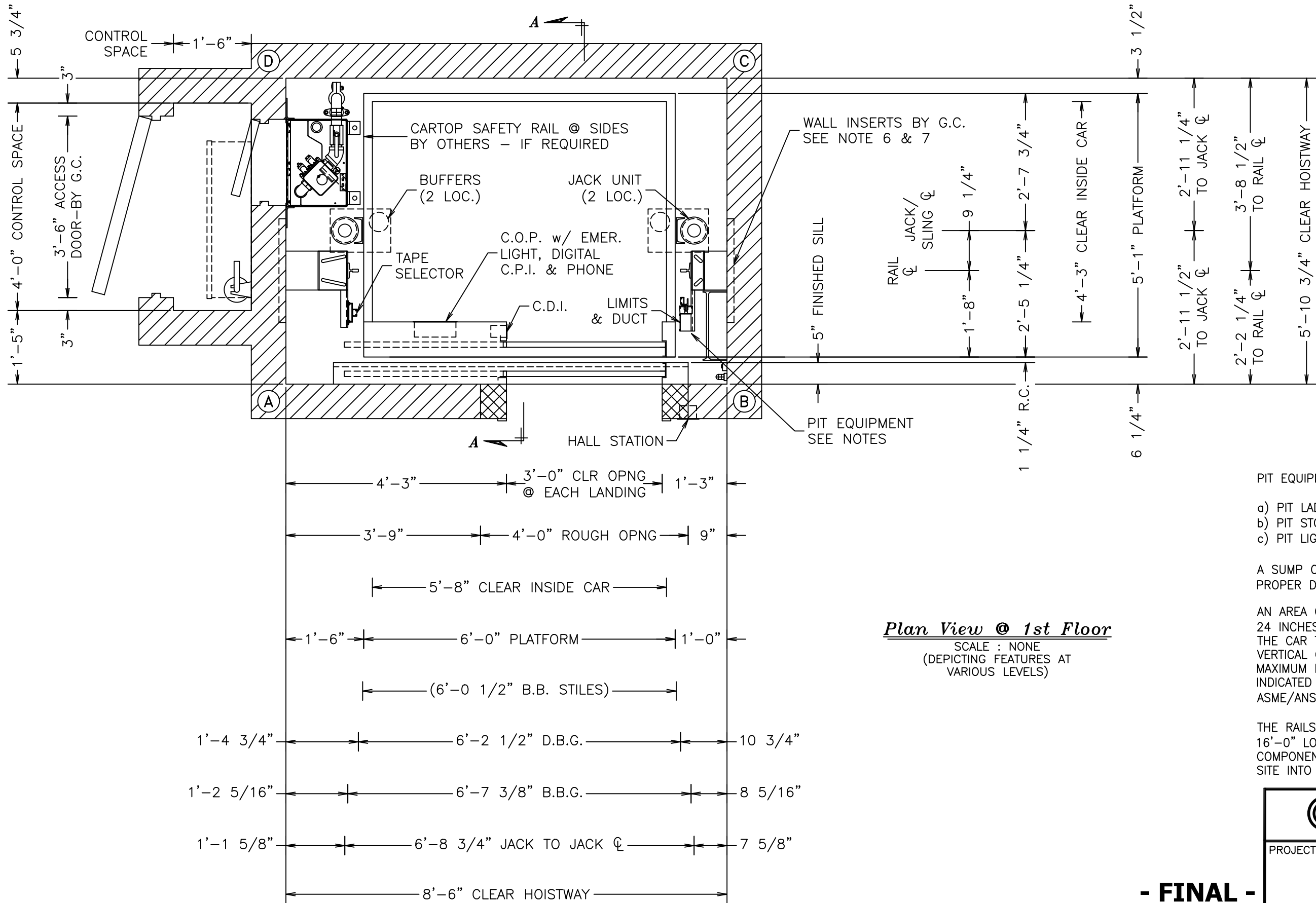
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IMPORTANT: PLEASE READ MANUAL CAREFULLY AND FOLLOW ALL INSTRUCTIONS EXACTLY DURING ASSEMBLY OF ELEVATOR EQUIPMENT. PROPER OPERATION OF CANTON ELEVATORS IS DEPENDENT UPON CORRECT INSTALLATION. WE CANNOT BE RESPONSIBLE FOR IMPROPER OPERATION DUE TO INCORRECT ASSEMBLY. IF YOU HAVE ANY QUESTIONS PLEASE CONTACT OUR ENGINEERING DEPARTMENT AT (330) 833-3600.

DRAWING LABELS - REFER TO LOWER
RIGHT CORNER OF DRAWINGS FOR AREAS
PERTAINING TO THE COMPONENTS LISTED.

TABLE OF CONTENTS


INCORPORATED



Plan View @ 1st Floor

SCALE : NONE
(DEPICTING FEATURES AT
VARIOUS LEVELS)

PIT EQUIPMENT:

- a) PIT LADDER (BY G.C.)
- b) PIT STOP SWITCH (BY ELEV. CONTR.)
- c) PIT LIGHT & SWITCH (BY ELEC. CONTR.)

A SUMP OR DRAIN IS REQUIRED IN THE PIT WITH PROPER DISCHARGE AS PER ASME/ANSI A17.1.

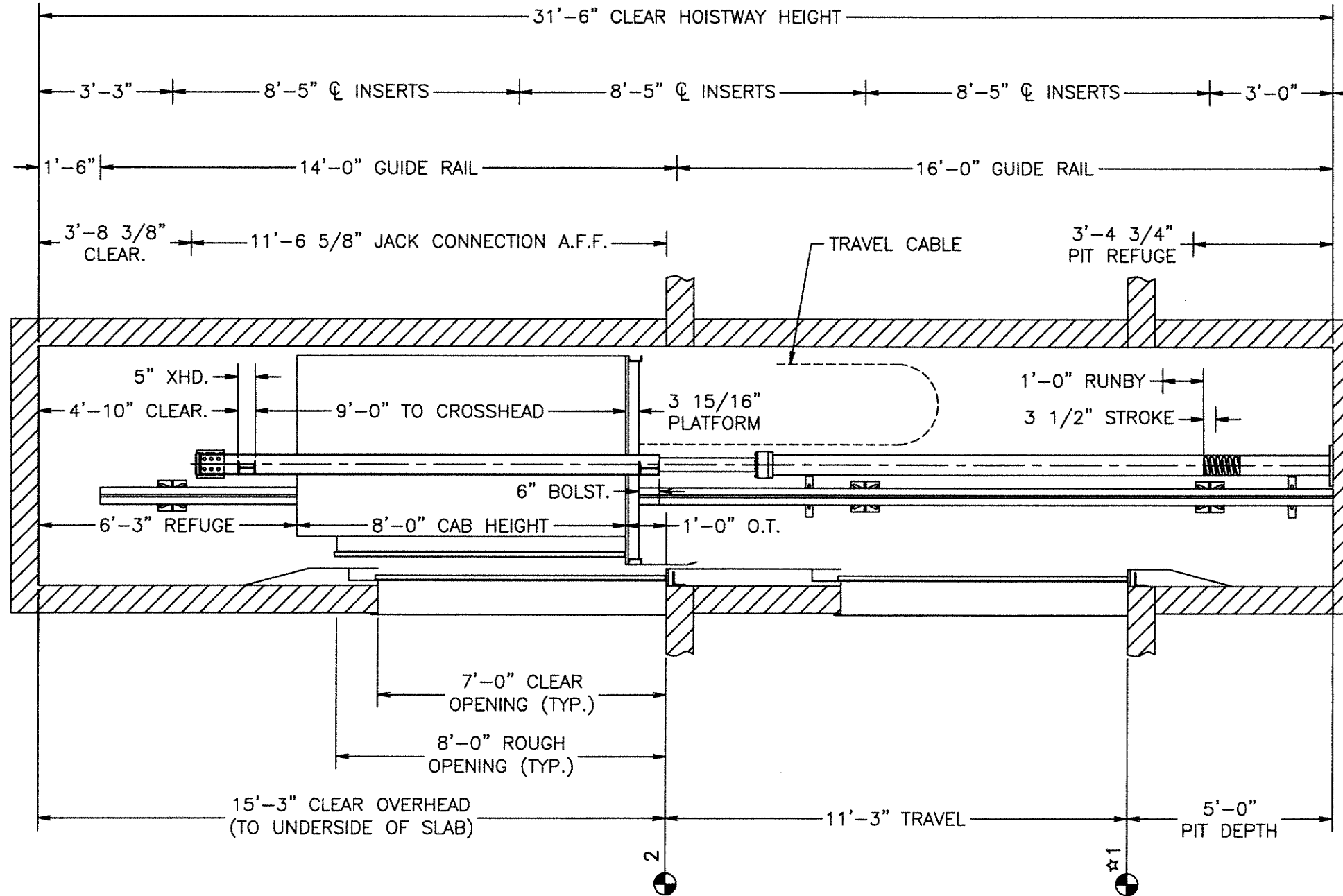
AN AREA OF 5.49 SQUARE FEET (NOT LESS THAN 24 INCHES ON ANY SIDE) IS TO BE LOCATED ON THE CAR TOP WHERE 43 INCHES MINIMUM OF VERTICAL CLEARANCE EXIST WITH THE CAR AT ITS MAXIMUM LIMIT OF TRAVEL. THIS AREA IS TO BE INDICATED ON THE CAR TOP AS REQUIRED BY ASME/ANSI A17.1.

THE RAILS FOR THIS JOB ARE APPROXIMATELY 16'-0" LONG. MAKE SURE THAT THIS LENGTH COMPONENT CAN BE MOVED THROUGH THE JOB SITE INTO THE HOISTWAY.

- FINAL -

DATE	BY	CHKD	DESCRIPTION
09-08-23	JMA		ORIGINAL
09-25-23	JMA		REVISED HOISTWAY DIMENSIONS
02-16-24	JMA		REVISED CONTROL SPACE LOCATION

PROJECT	
E-STUDIO SUITES PLAINFIELD, IN	
CONTRACT No.	SHEET No.
30859T	2 OF 4



BRACKET SPACING-G.C. IS TO PROVIDE MASONRY WALL INSERTS AT LOCATIONS SHOWN FOR THE PURPOSE OF ATTACHING ELEVATOR GUIDE RAIL BRACKETS IN ACCORDANCE WITH NOTES 6 & 7.

Hoistway Section "A-A"
SCALE : NONE

- FINAL -

DATE	BY	CHKD	DESCRIPTION
09-08-23	JMA		ORIGINAL
09-25-23	JMA		REVISED PIT DEPTH & RELATED
11-13-23	CLC		REVISED OVERHEAD & PLATFORM



PROJECT

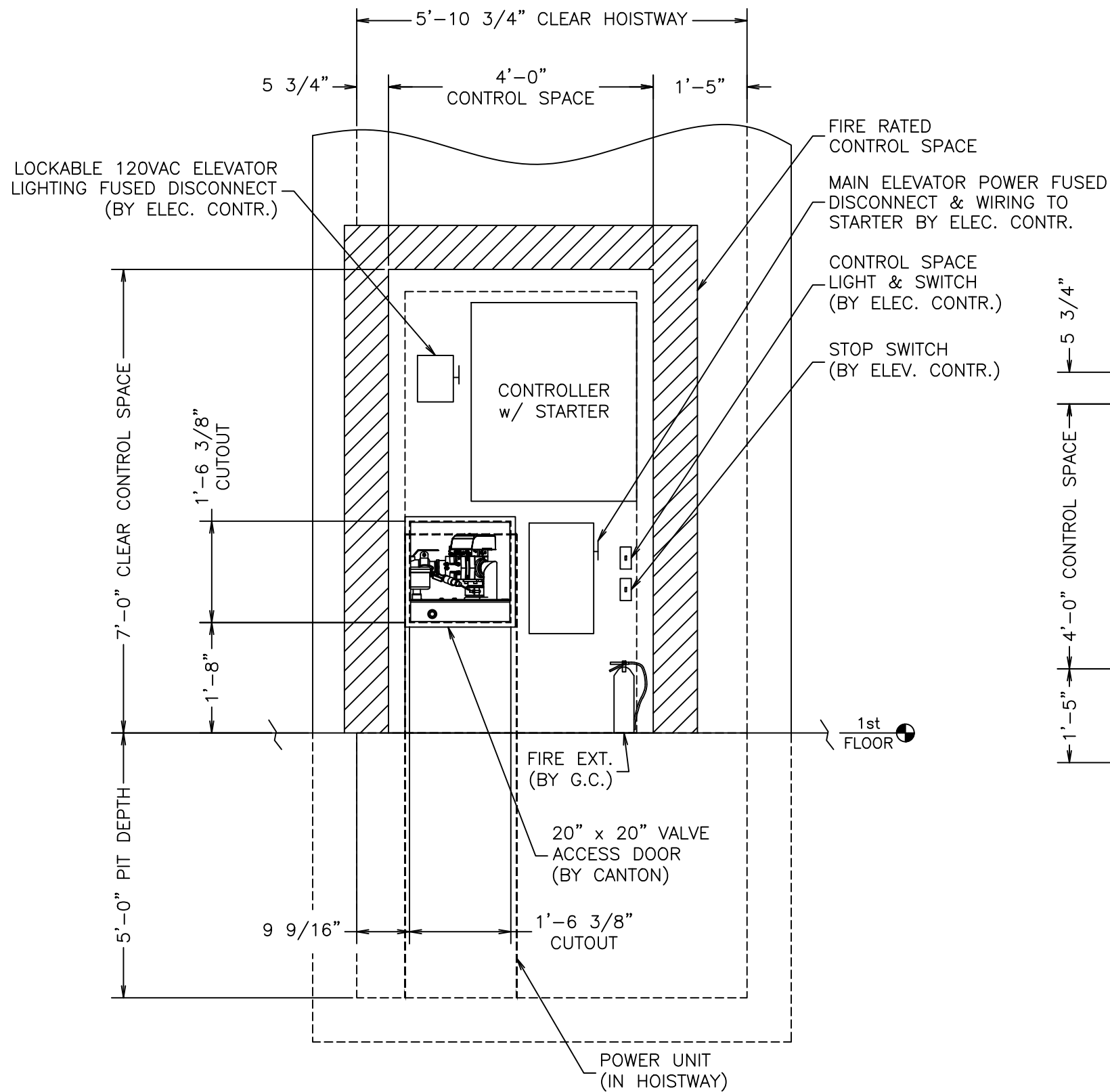
E-STUDIO SUITES
PLAINFIELD, IN

CONTRACT No.

30859T

SHEET No.

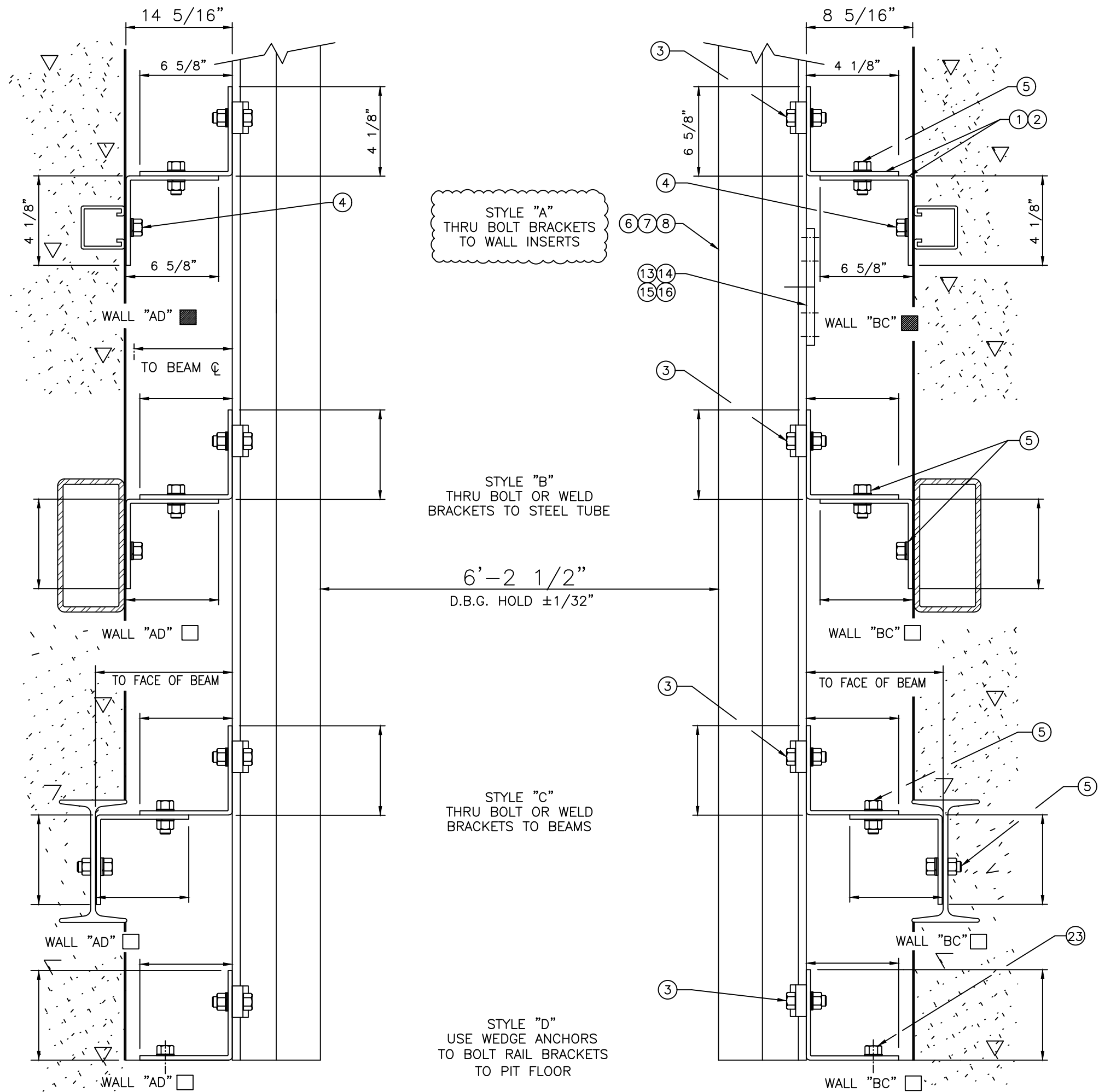
3 OF 4



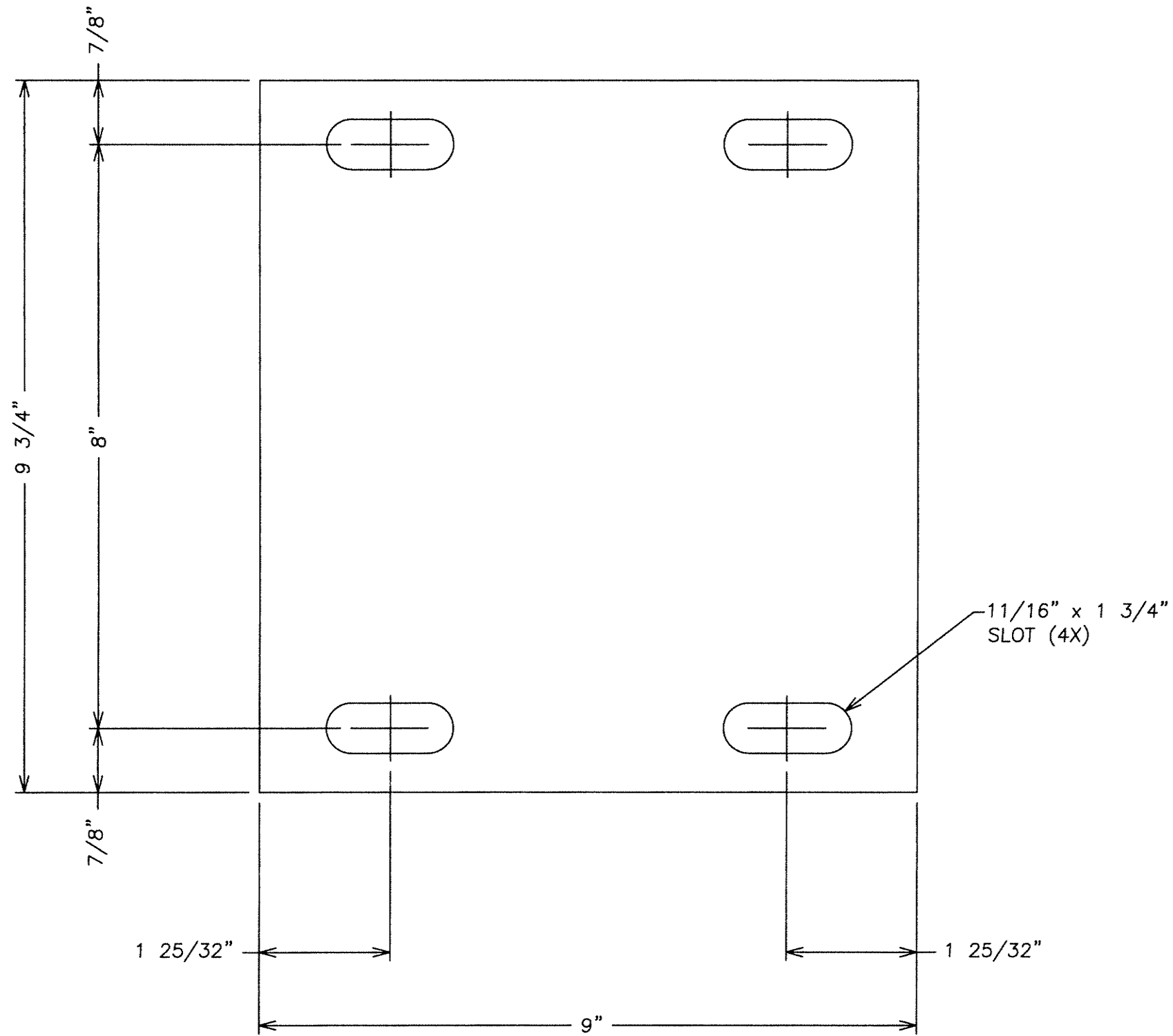
Control Space Elevation
SCALE : NONE

- INSTALLATION NOTES**
1. CUT AND GROOVE SUPPLIED PIPE AS REQUIRED TO MAKE RUN FROM JACK OUTLET TO POWER UNIT IN MACHINE ROOM.
 2. USE ANTI-SEIZE TAPE OR COMPOUND ON ALL THREADED JOINTS.
 3. LOCATE SUPPLIED PIPE STAND TO SUPPORT ANY FREE LENGTH OF PIPE RUN AS REQUIRED. USE SUPPLIED FASTENER TO ATTACH OIL LINE TO PIPE STAND.
 4. ANCHOR PIPE STAND TO PIT FLOOR WITH SUPPLIED WEDGE ANCHORS.

No.	OIL LINE MATERIAL	PART NO.	
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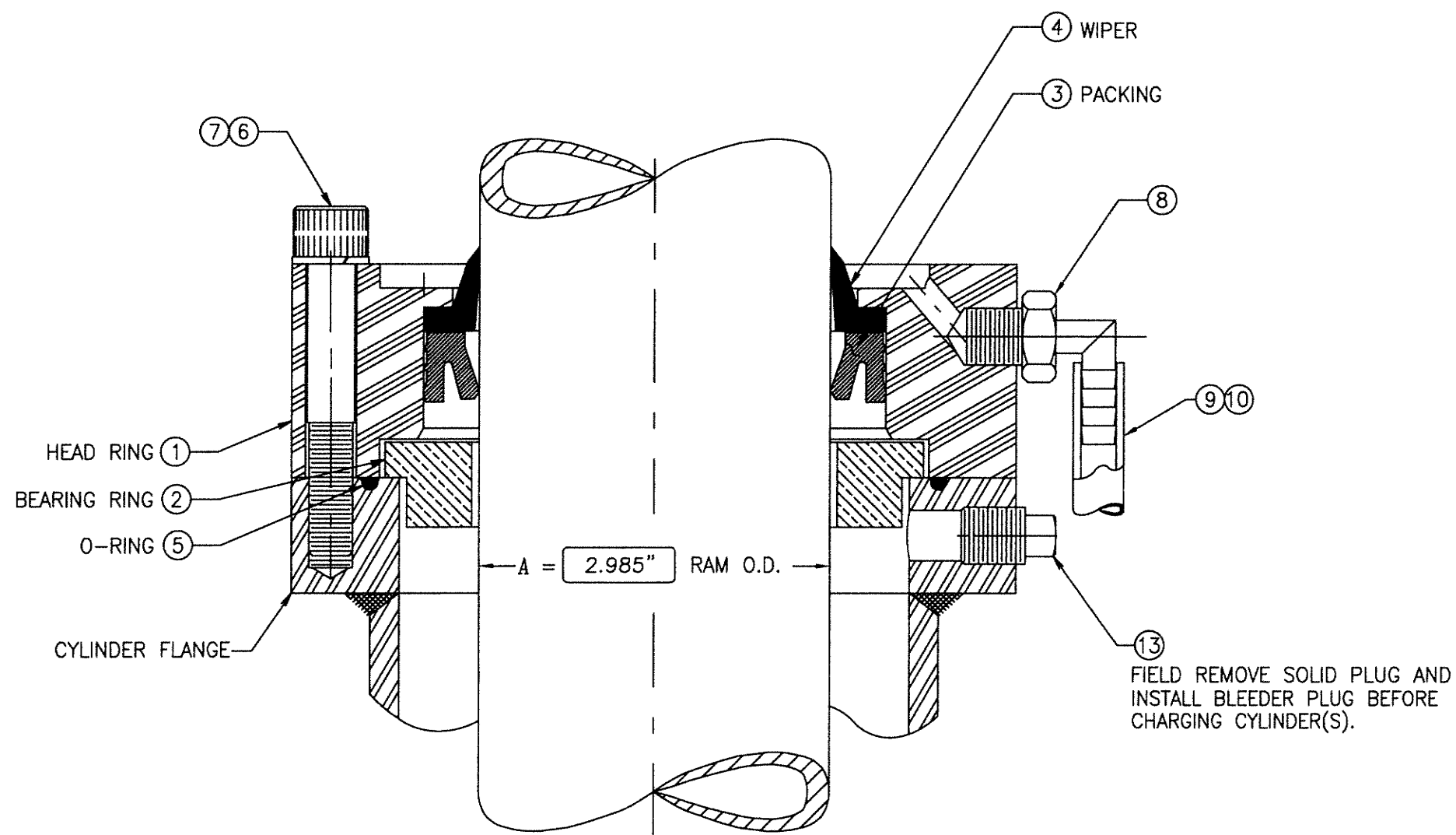


REV	TITLE:	PART NO.	QTY	S/P	LOCATION
1	RAIL & BRACKETS TRADESMAN 8# RAIL				
2	1/4" x 4 1/8" x 6 5/8" RAIL BRKT (11.50)	17485	16	S	PB
3	8# RAIL CLIP HARDWARE KIT	51001			



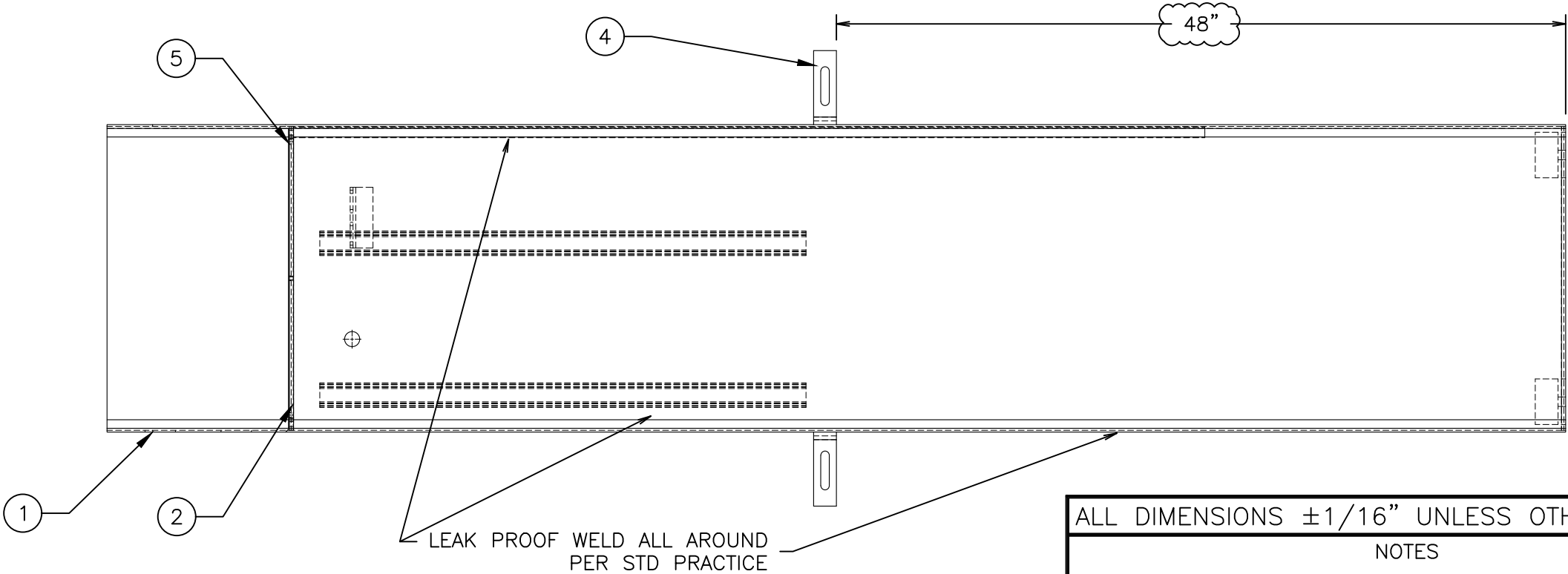
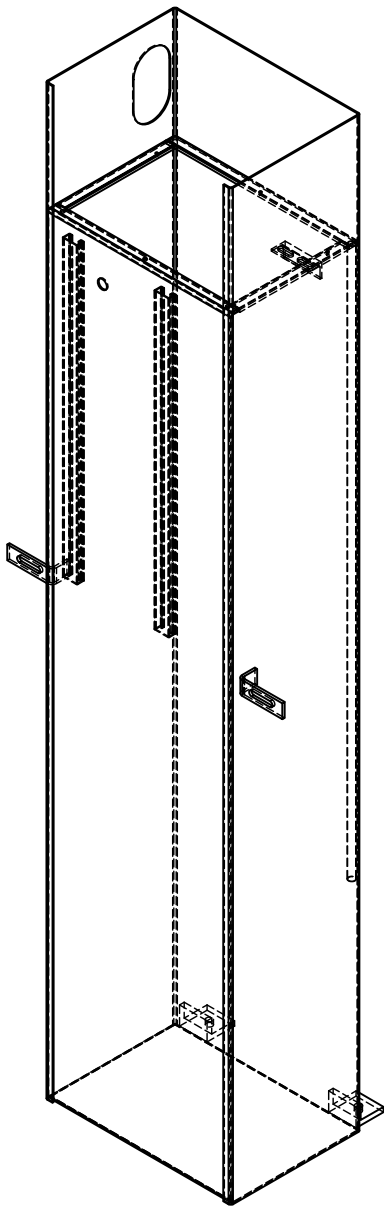
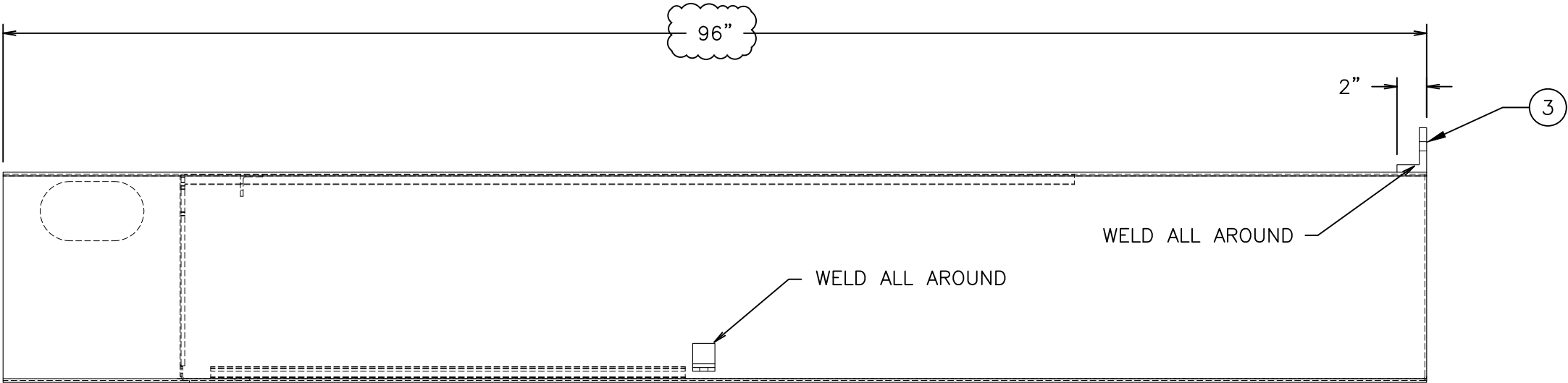
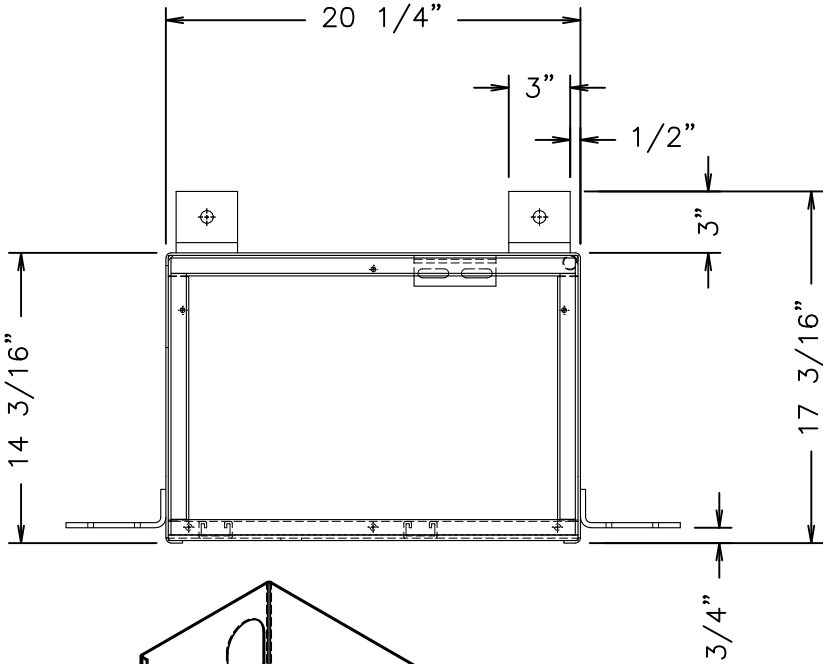
NO.	TITLE:	PART NO.	QTY	S/P	LOCATION
1	RAIL BRACKET EXTENSION PLATE - 9"				
2	1/4" x 9" FB (A36 STEEL) x 9 3/4" LG	60910	4	S	MANU
3					
4					
5					
6					
7					
8					
9					

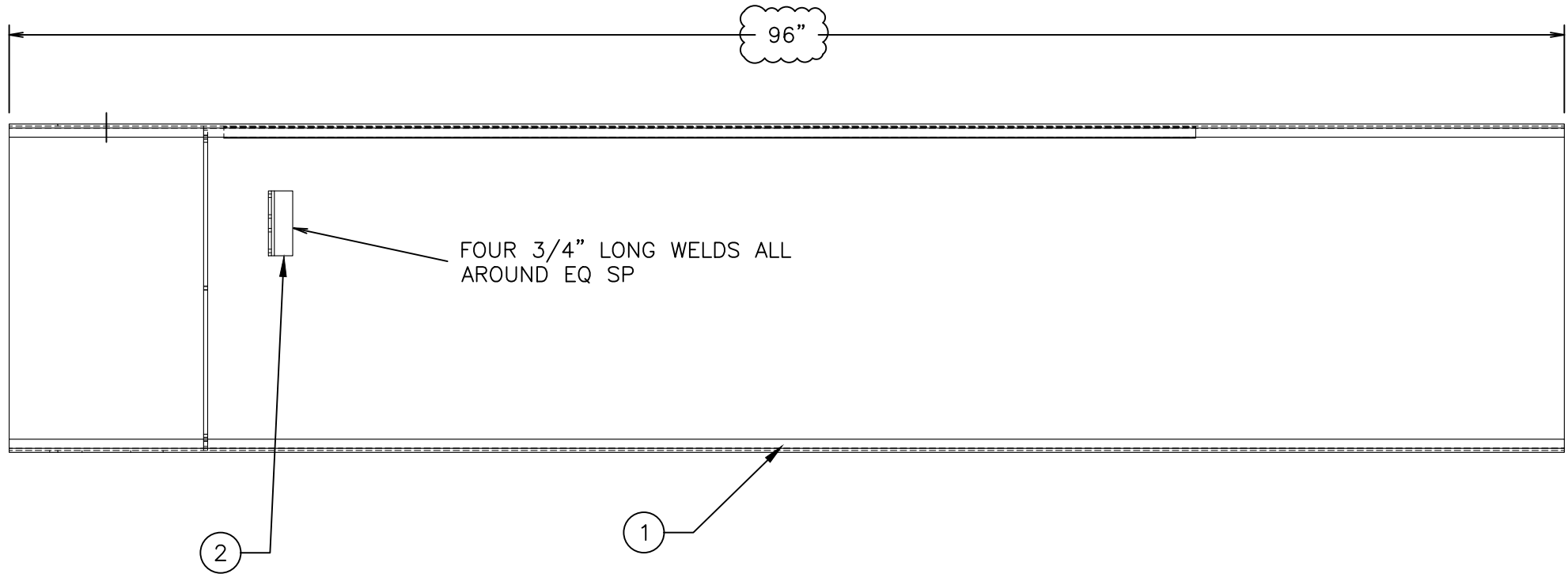
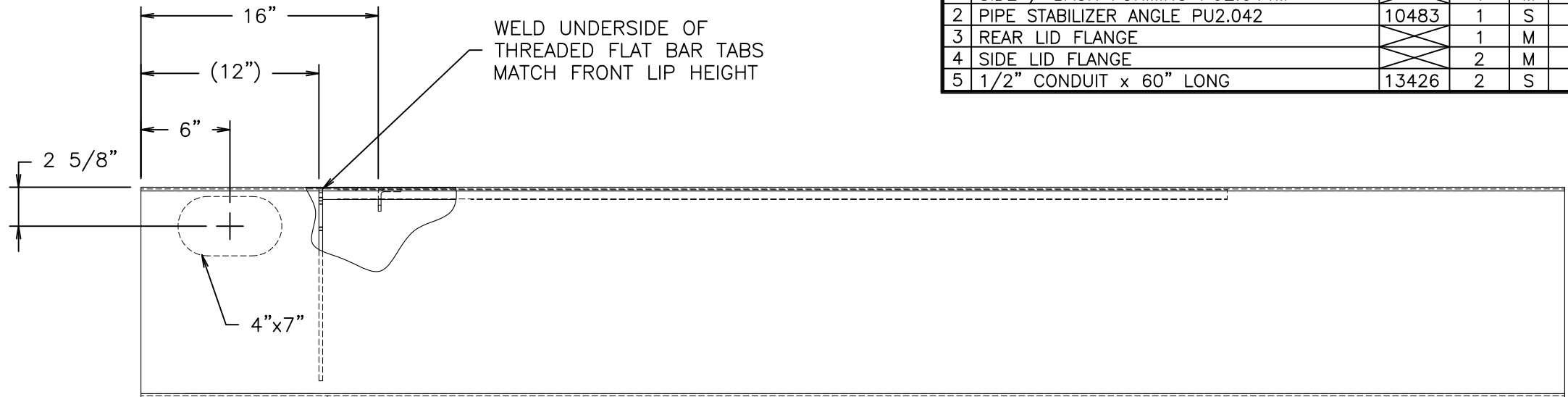
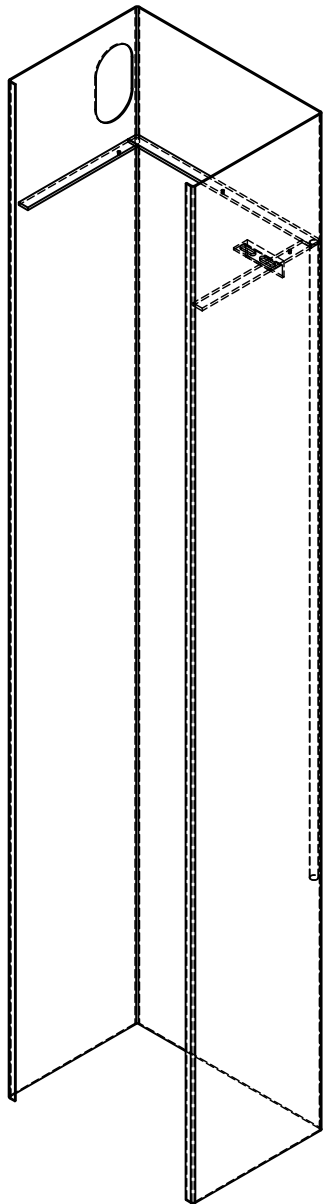
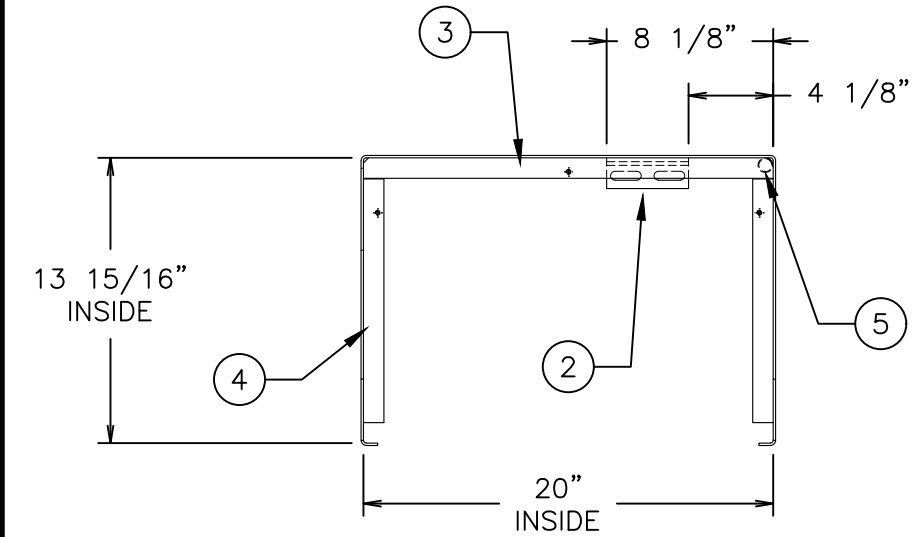
ALL DIMENSIONS ± 1/32" UNLESS OTHERWISE NOTED			
NOTES			
PAINT: CANTON PRIME			
REVISIONS			
ORIG. 4-18-93	BY DMB	WEIGHT 30#	DATE 11-17-23
DATE 3-5-98	BY FD	TIME STUDY .25	DWG BY CLC
DATE	BY	QTY. 1 JOB	DWG.# RB2.021
DATE	BY	SCALE NONE	JOB # 30859T



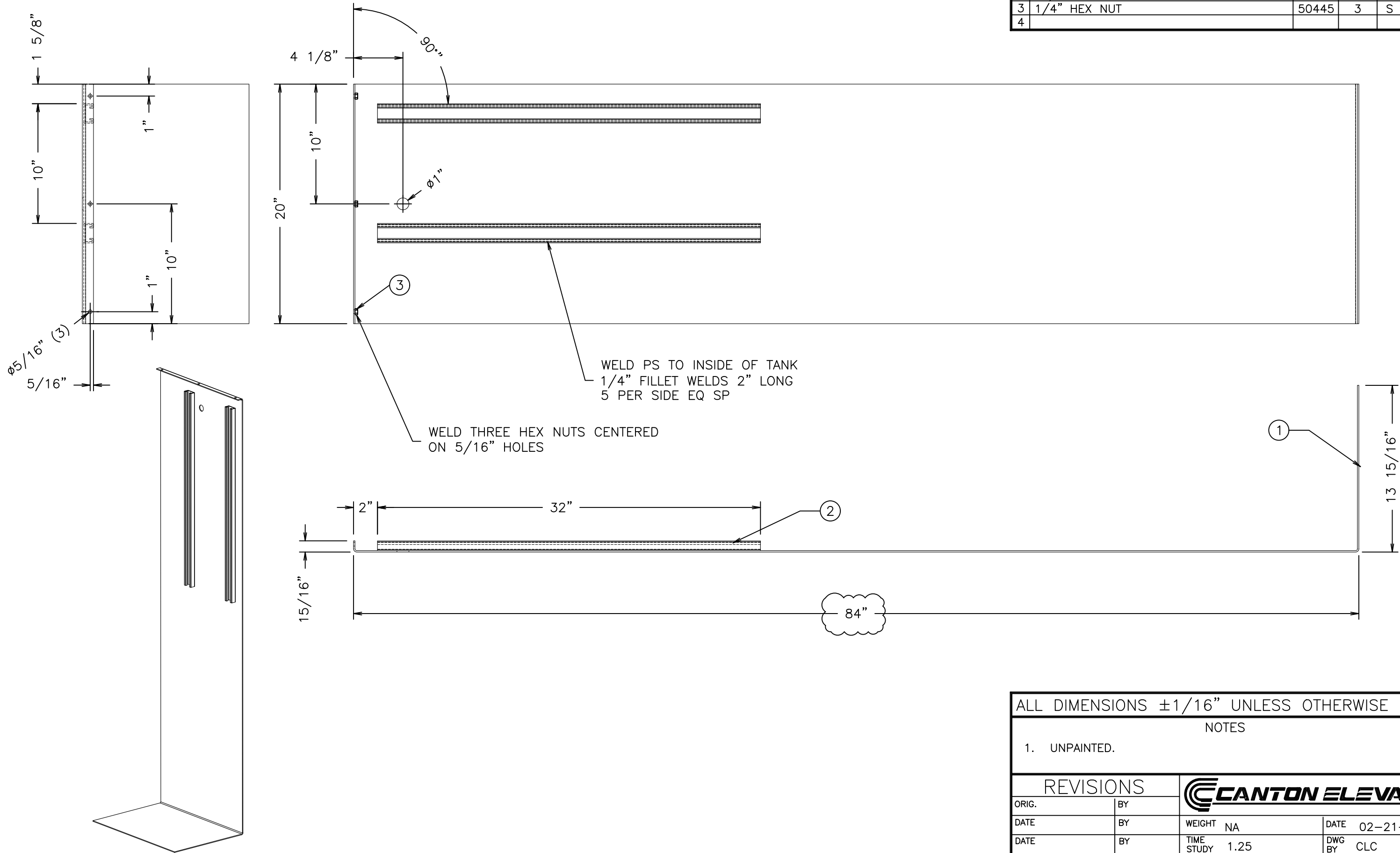
Q	TITLE: 500 PSI HEAD ASSEMBLY 3" NOMINAL RAM O.D.	PART NO.	QTY	S/P	LOCATION
1	3" STEEL HEAD RING (CY4.003)	12479	2	S	MANU.
2	3" ALUMINUM BEARING RING (CY4.001)	12545	2	S	MANU.
3	3" x 1/2" PACKING	12197	2	S	MANU.
4	3" x 4" WIPER	12214	2	S	MANU.
5	1/8" x 4 1/2" I.D. O-RING	50740	2	S	MANU.
6	3/8"-16 x 2 1/2" SHCS	50300	20	S	MANU.
7	3/8" LOCK WASHER	503			

TITLE:		PART NO.	QTY	S/P	SHIPPED
TANK ASSEMBLY, VERTICAL SUB PU, LEFT HAND (UC4M)					
No.					
1	SIDE / BACK SUB ASSY PU2.040M		1	M	
2	FRONT SUB ASSEMBLY L/H PU2.041M		1	M	
3	1/2" x 2" x 3" ANGLE	15562	2	S	
4	SLOTTED POWER STRURT ANGLE SW2.007	14233	2	S	
5	SEAL MATERIAL	10313	6'	S	



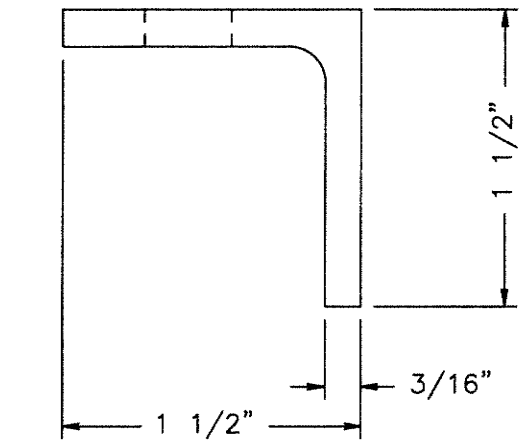
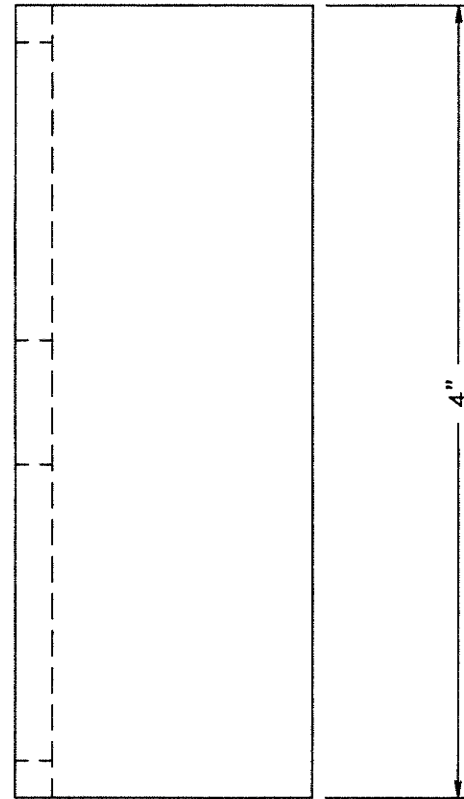
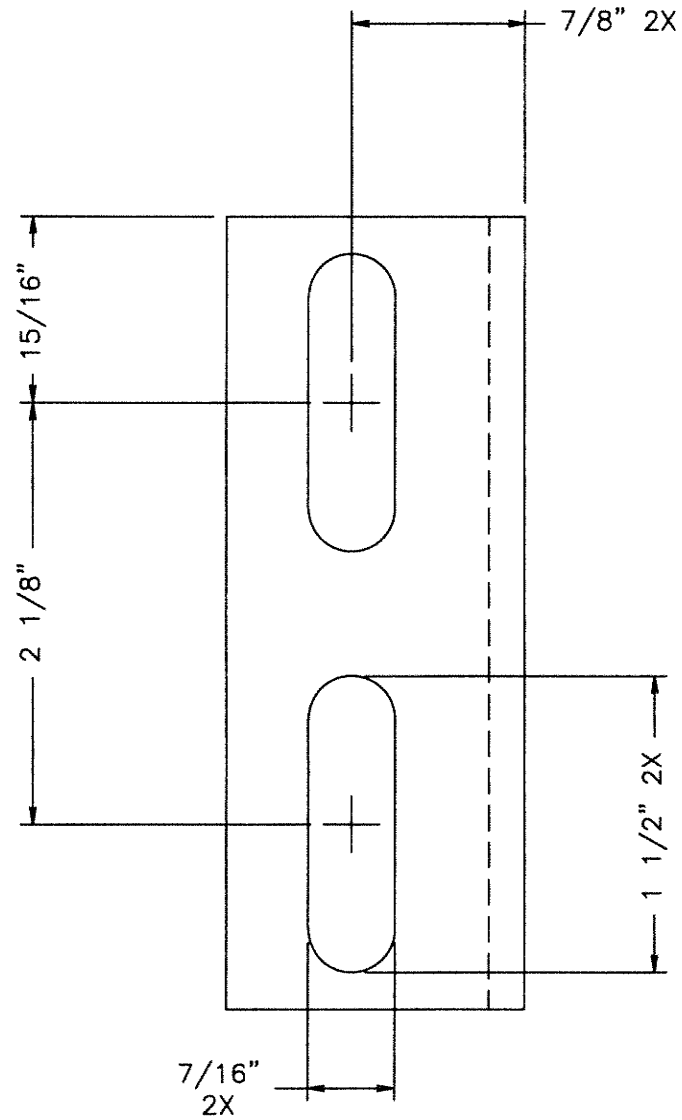


TITLE:		PART NO.	QTY	S/P	SHIPPED
No.	TANK ASSEMBLY, VERTICAL LEFT HAND (UC4M)				
1	SIDE / BACK FORMING PU2.044M				



No.	TITLE: SUB ASSEMBLY, FRONT, (L/H OUTLET) SUB PU, VERTICAL (UC4M)	PART NO.	QTY	S/P	SHIPPED
1	FRONT BOTTOM FORMING PU2.043M		1	M	
2	13/16" PS x 32" LONG	60250	2	S	
3	1/4" HEX NUT	50445	3	S	
4					

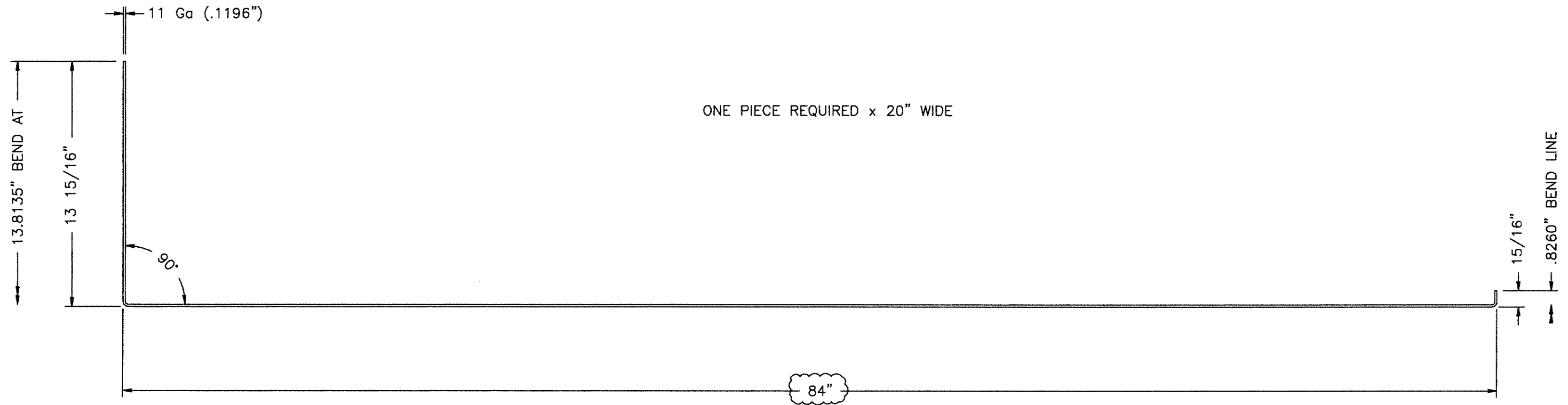
ALL DIMENSIONS ±1/16" UNLESS OTHERWISE NOTED			
NOTES			
1. UNPAINTED.			
REVISIONS		CANTON ELEVATOR	
ORIG.	BY	WEIGHT	DATE
DATE	BY	NA	02-21-24
DATE	BY	TIME STUDY	DWG BY
DATE	BY	1.25	CLC
DATE	BY	QTY.	DWG.#
DATE	BY	1-JOB	PU2.041M
DATE	BY	SCALE	JOB #
		NONE	30859T



No.	TITLE:	PART NO.	QTY	S/P	SHIPPED
1	ANGLE, PIPE STABILIZER MOUNT. (VERT. SUB PU)	60235	1	S	
2					
3					
4					

TITLE:		PART NO.	QTY	S/P	SHIPPED
FRONT / BOTTOM, VERT. SUB PU TANK					
No.					
1	11 Ga SHEET 48" x 120"	60027	.324	S	
2					
3					
4					

FLAT SIZE 20" x 98.45"

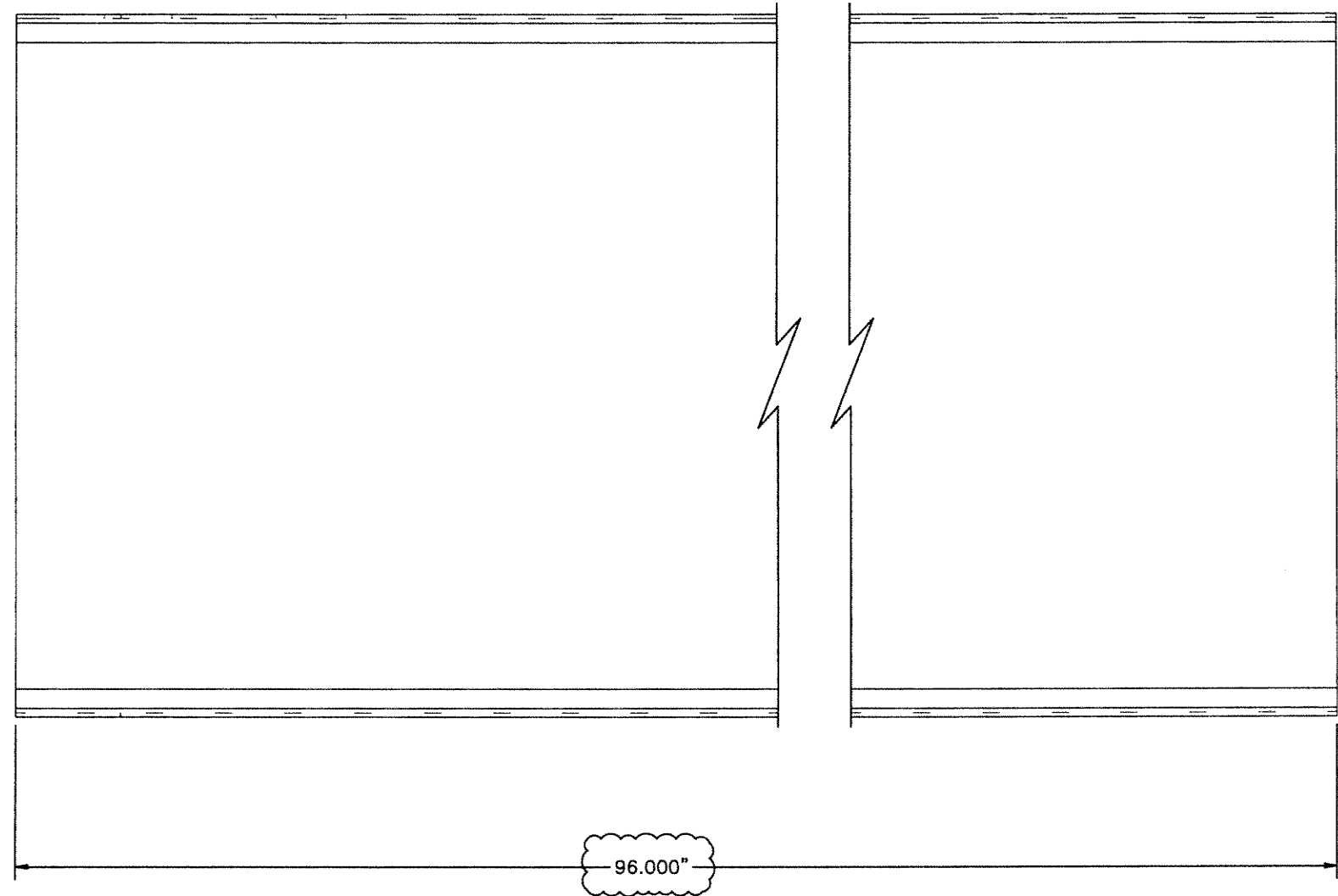
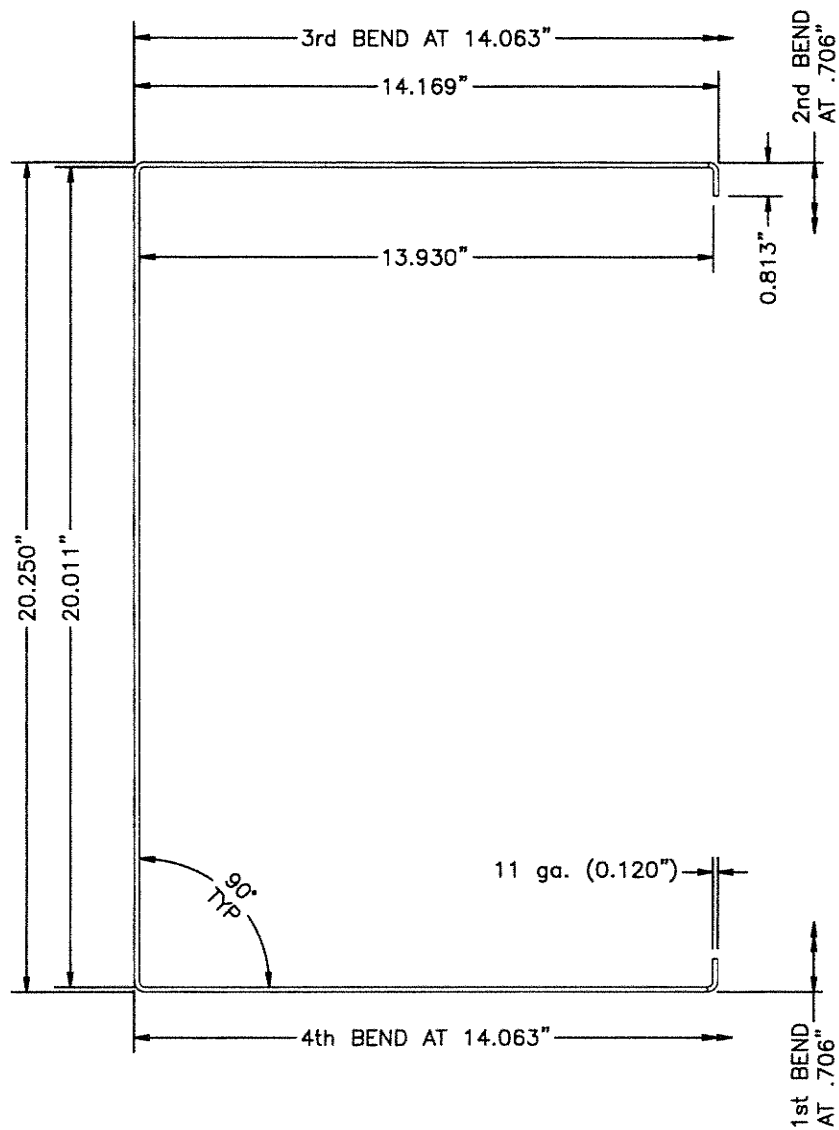


ALL DIMENSIONS ±1/32" UNLESS OTHERWISE NOTED

NOTES

- 1. UNPAINTED.</

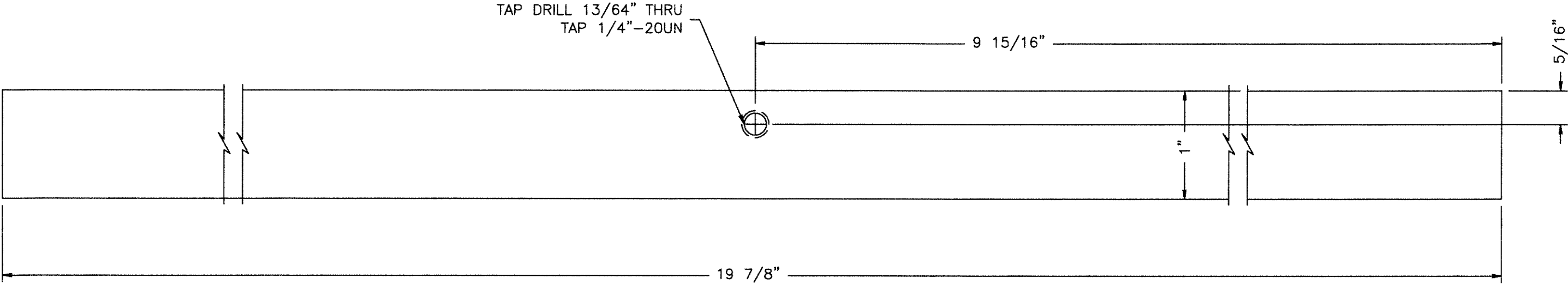
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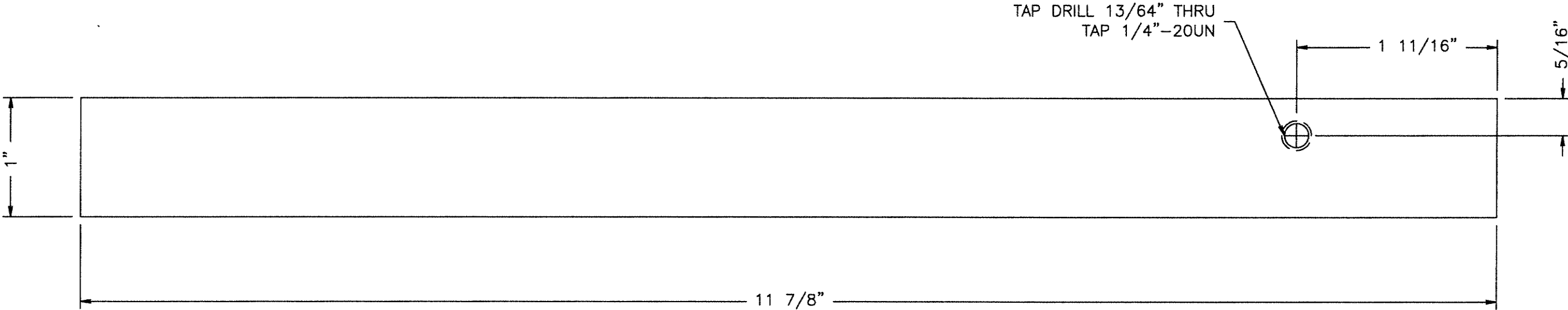
TITLE: SIDES & BACK VERTICAL SUB POWER UNIT TANK		PART NO.	QTY	S/P	SHIPPED
No.					
1	11 Ga. HR SHEET 60" WIDE x 120" LONG	60091	.750	S	
2					

FLAT SIZE: 49

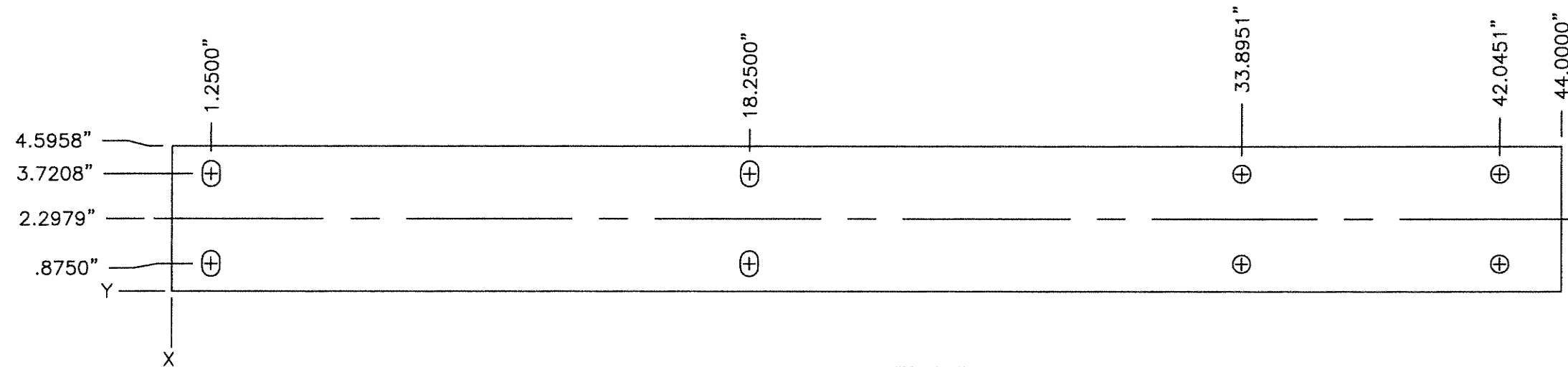
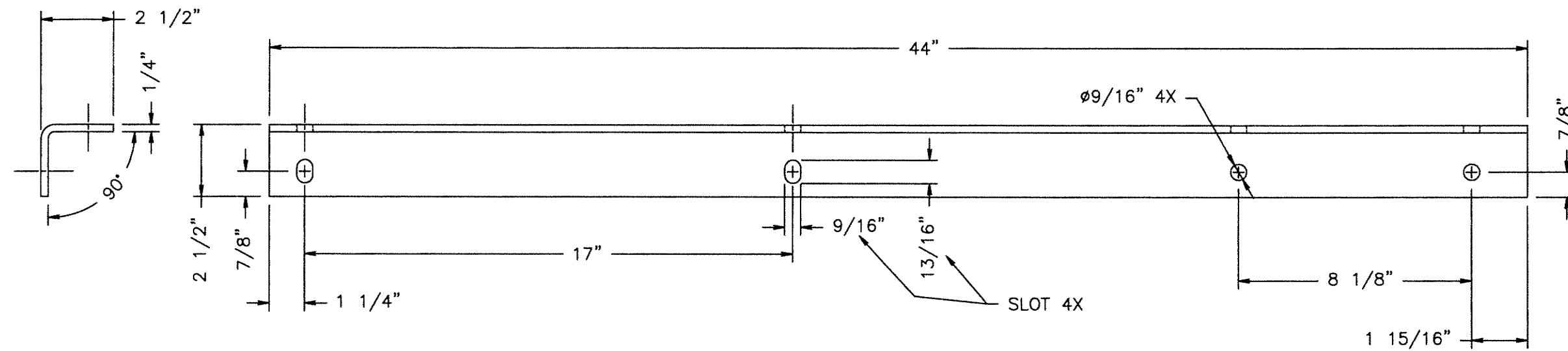
TITLE:		PART NO.	QTY	S/P	SHIPPED
TAB - REAR, SIDE SUB PU					
No.					
1	1/4" x 1" FB x 19 7/8" LONG	60025	1	S	
2	1/4" x 1" FB x 11 7/8" LONG	60025	2	S	
3					
4					

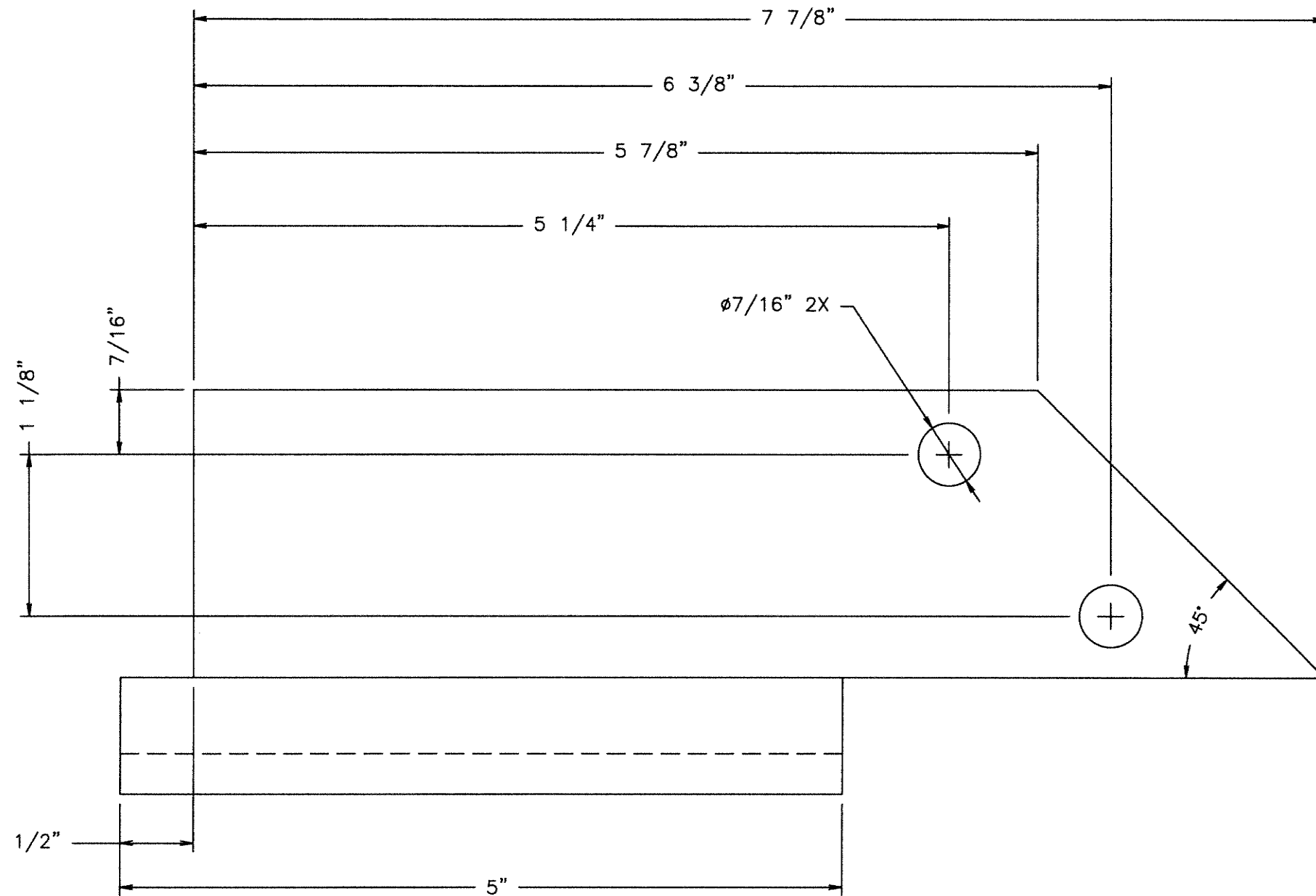


DETAIL 1 (1) REQ'D.

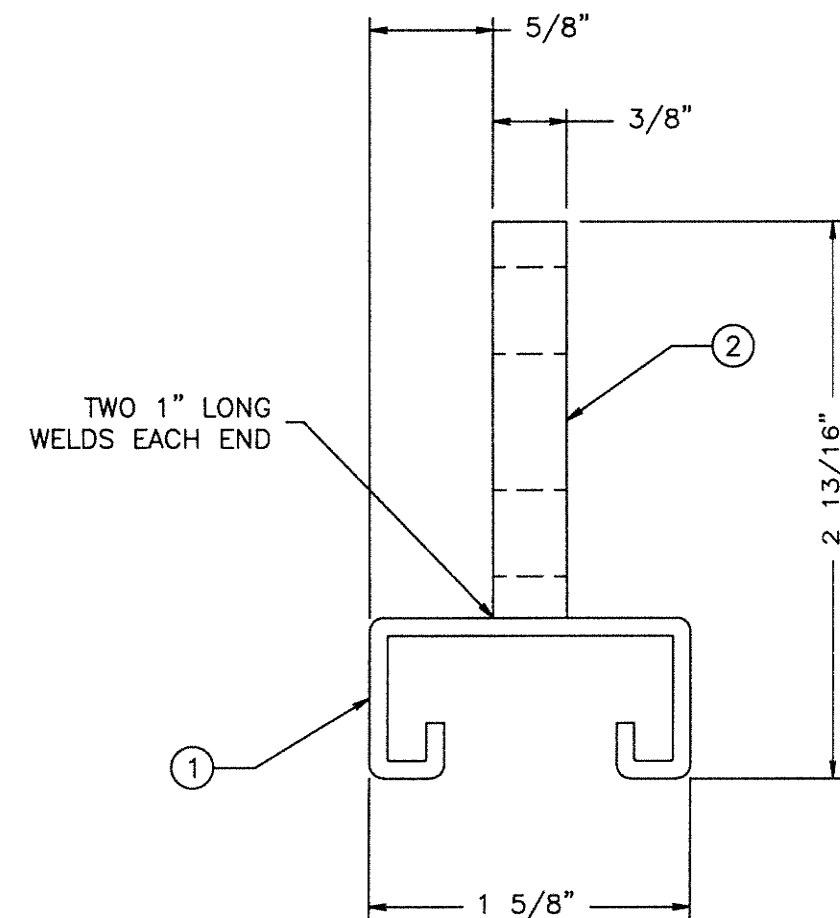


TITLE:		PART NO.	QTY	S/P	SHIPPED
No.	BRACKET, PUMP MOTOR VERTICAL MRL				
1	1/4" PLATE 48" x 96"	60730	.112	S	
2					
3					
4					

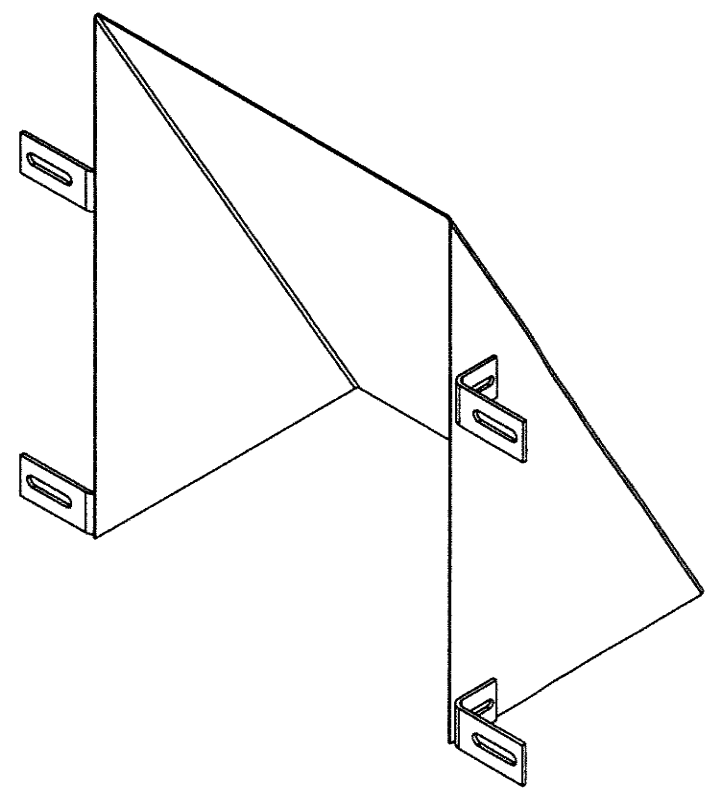
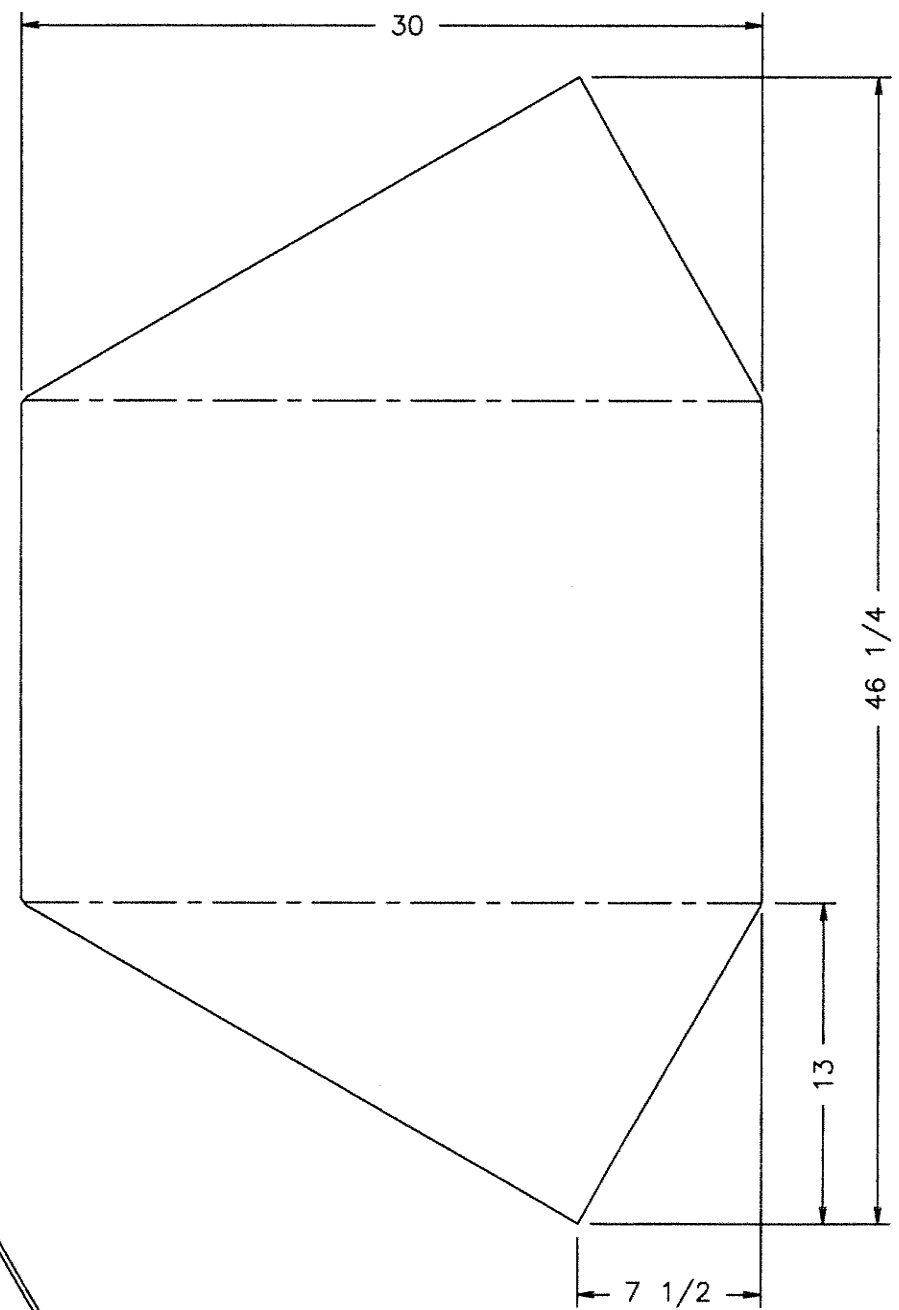
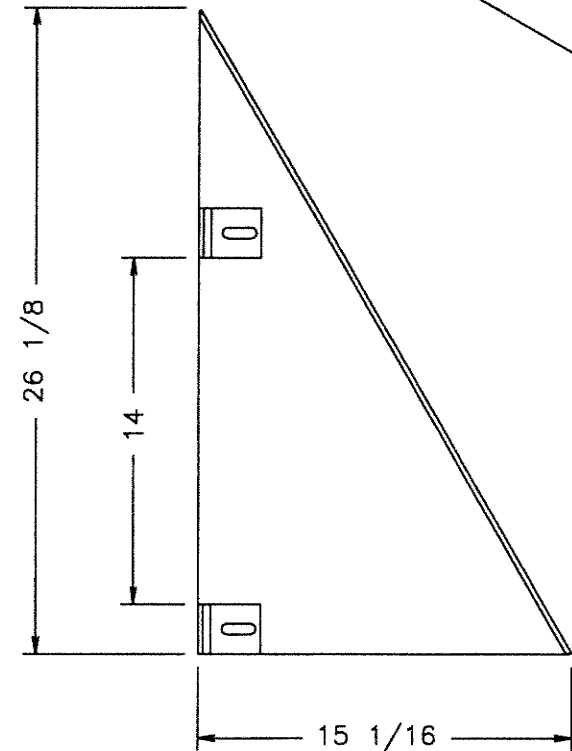
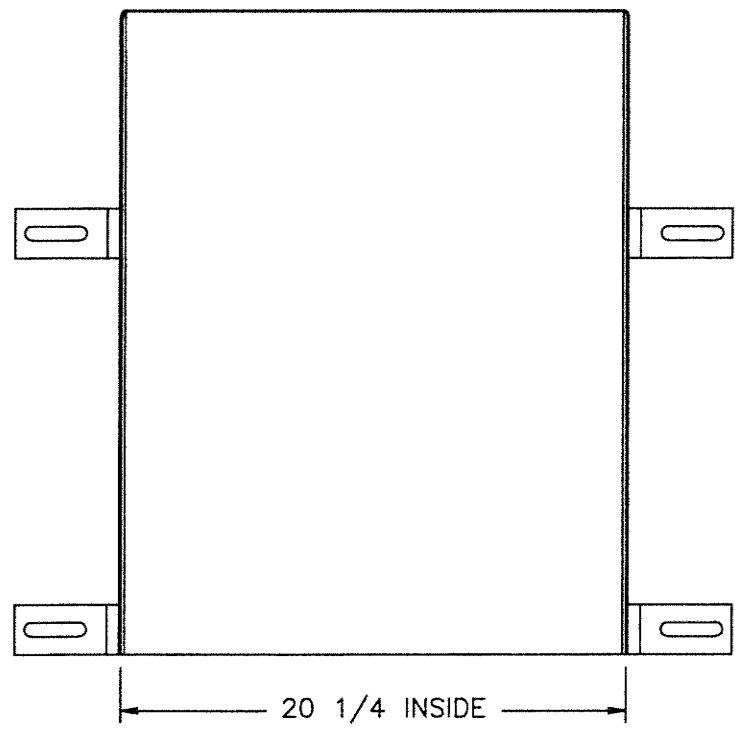
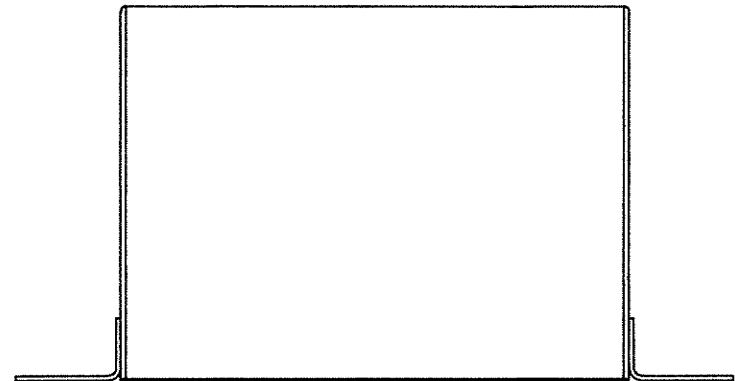




TITLE: BRACKET, CLAMP, VERT SUB PU RISER PIPE		PART NO.	QTY	S/P	SHIPPED
No.					
1	13/16" P.S. x 5" LONG	60250	1	S	
2	3/8" x 2" FB x 7 7/8" LONG	60913	1	S	
3					
4					

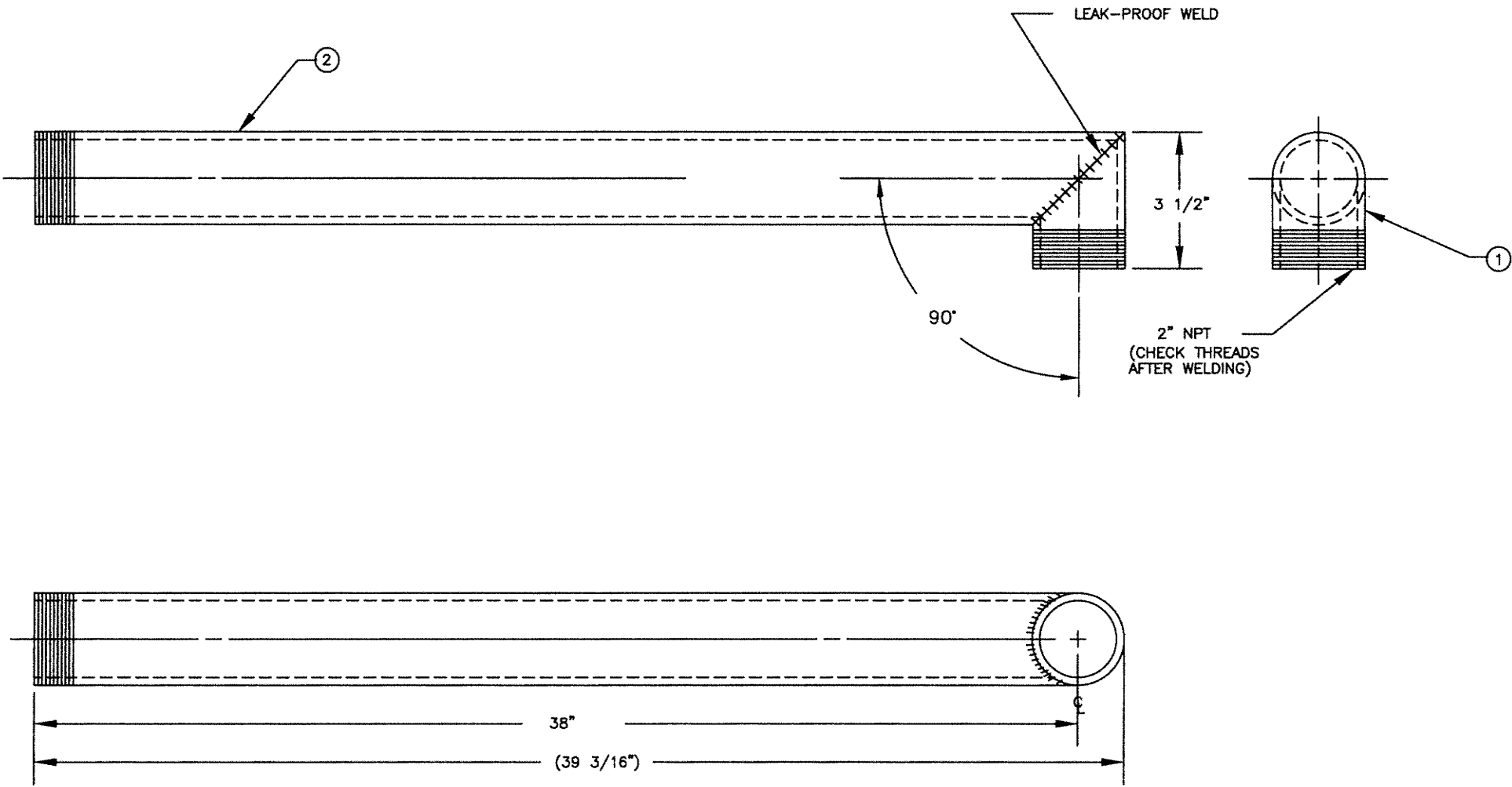


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TITLE: POWER UNIT COVER		PART NO.	QTY	S/P	SHIPPED
No.					
1	14 GA. SHEET METAL	60039	.2	S	
2	3/8-16 x 1 7/8" LG. WEDGE ANCHOR	50418	4	S	
3	SLOTTED ANGLE BRACKET	14233	4	S	
4					
5					

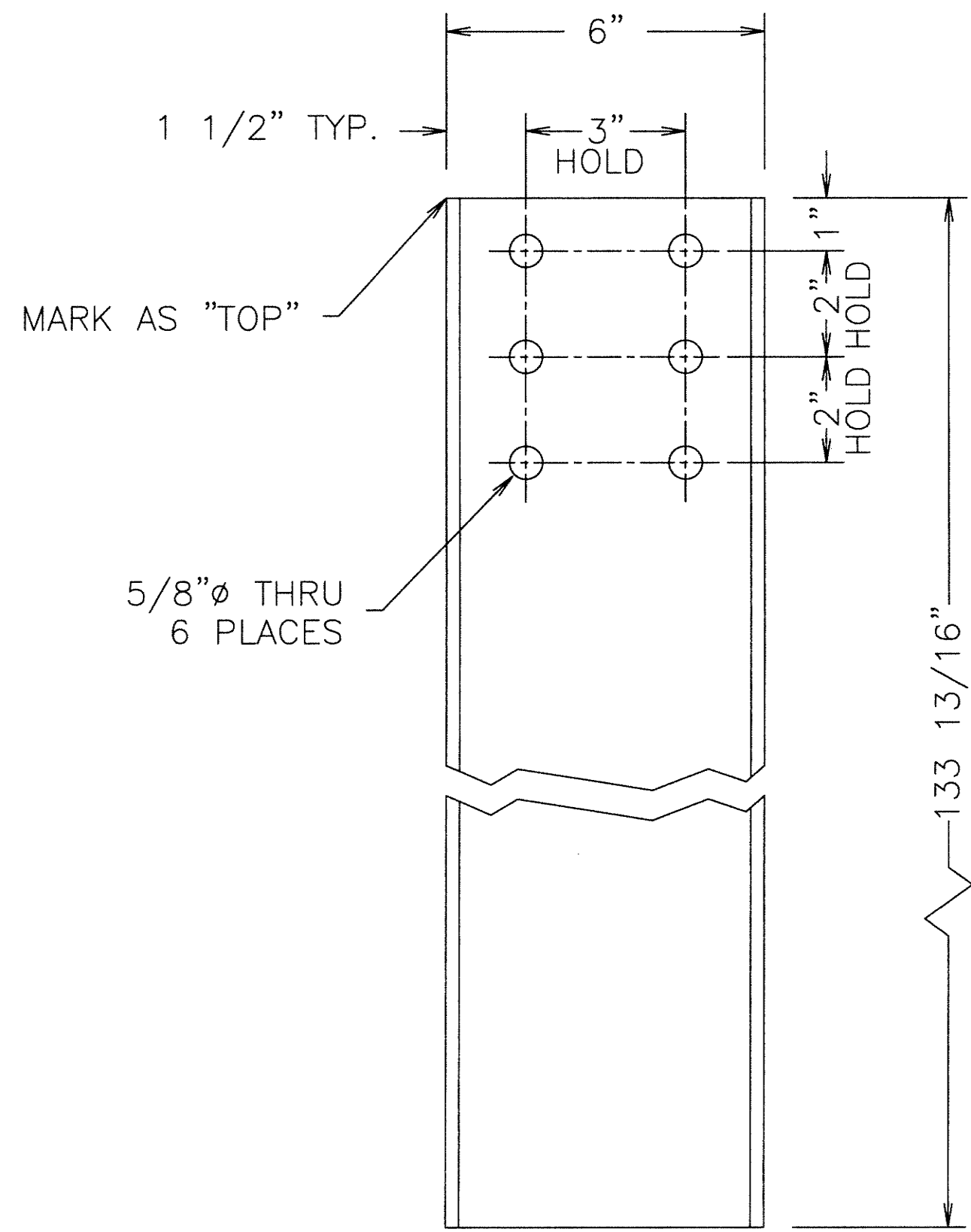
QTY	TITLE:	MRL SUBMERSIBLE OIL RETURN LINE	PART NO.	QTY	S/P	SHIPPED
1	2" SCHD 40 PIPE x 3 1/2" LG T/P	18533	1	S		
2	2" SCHD 40 PIPE x 39 3/16" LG T/P	18533	1	S		
3						
4						
5						
6						
7						
8						
9						



UNPAINTED

ALL DIMENSIONS ± 1/16" UNLESS OTHERWISE NOTED			

TBSCALE=6

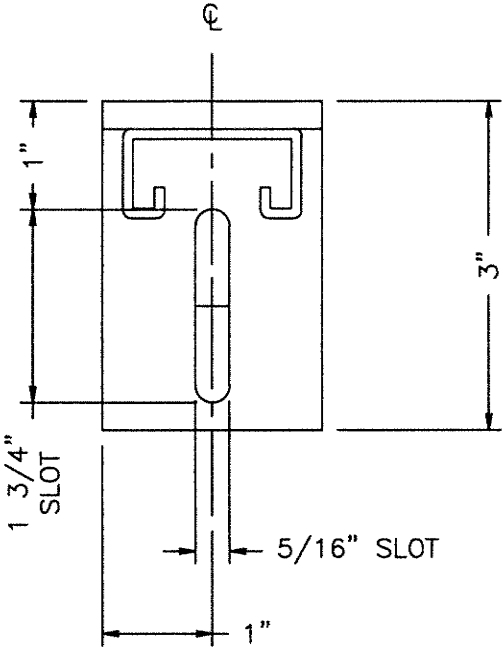
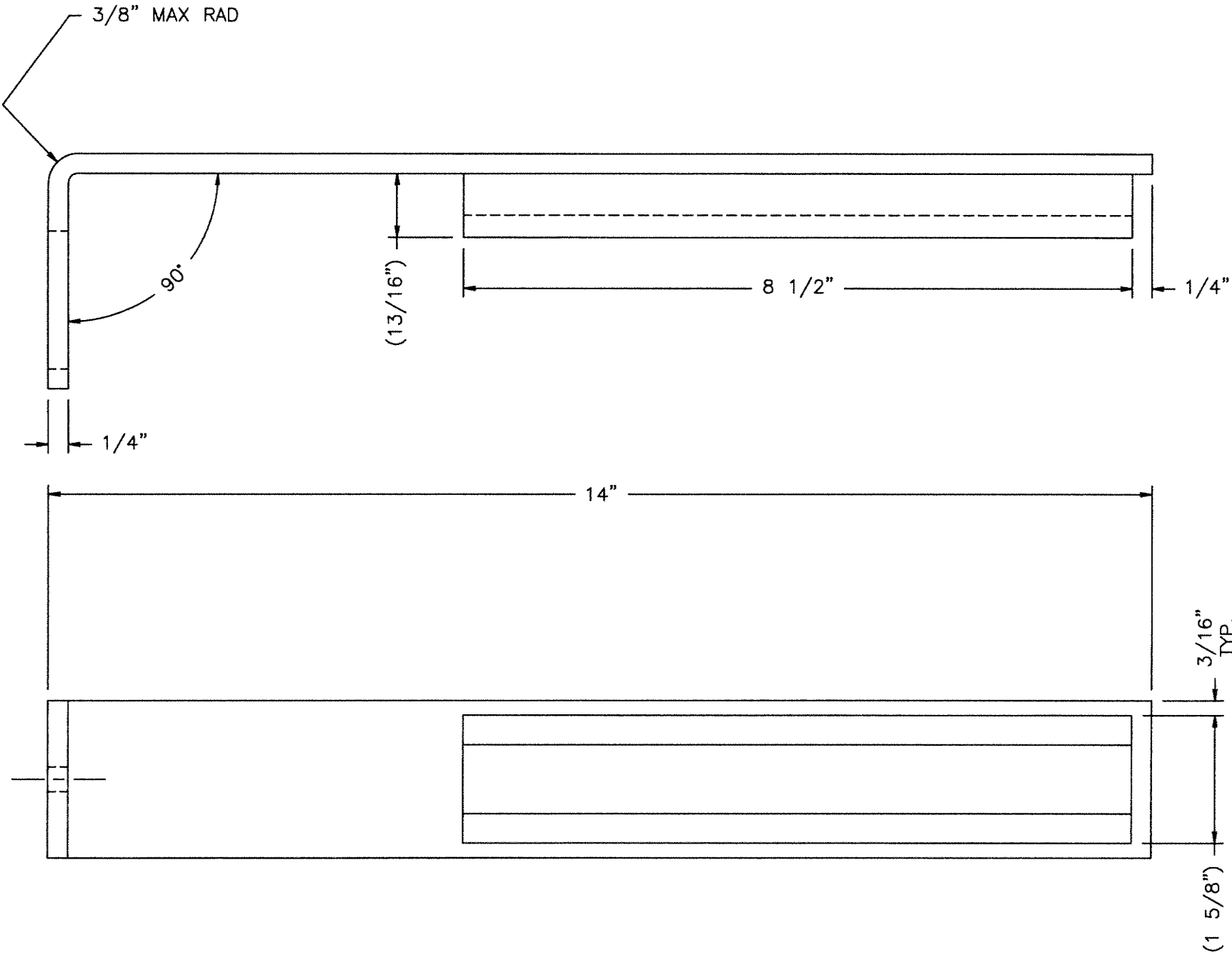


QTY	TITLE: SIDE STILE MODIFICATION FOR TWIN HOLELESS JACKS	PART NO.	QTY	S/P	LOCATION
1	SIDE STILE C6" x 8.2#/ft x 133 13/16" LG	60244	2	C	MANU.
2					
3					
4					
5					
6					
7					

ALL DIMENSIONS $\pm 1/32$ " UNLESS OTHERWISE NOTED

NOTES

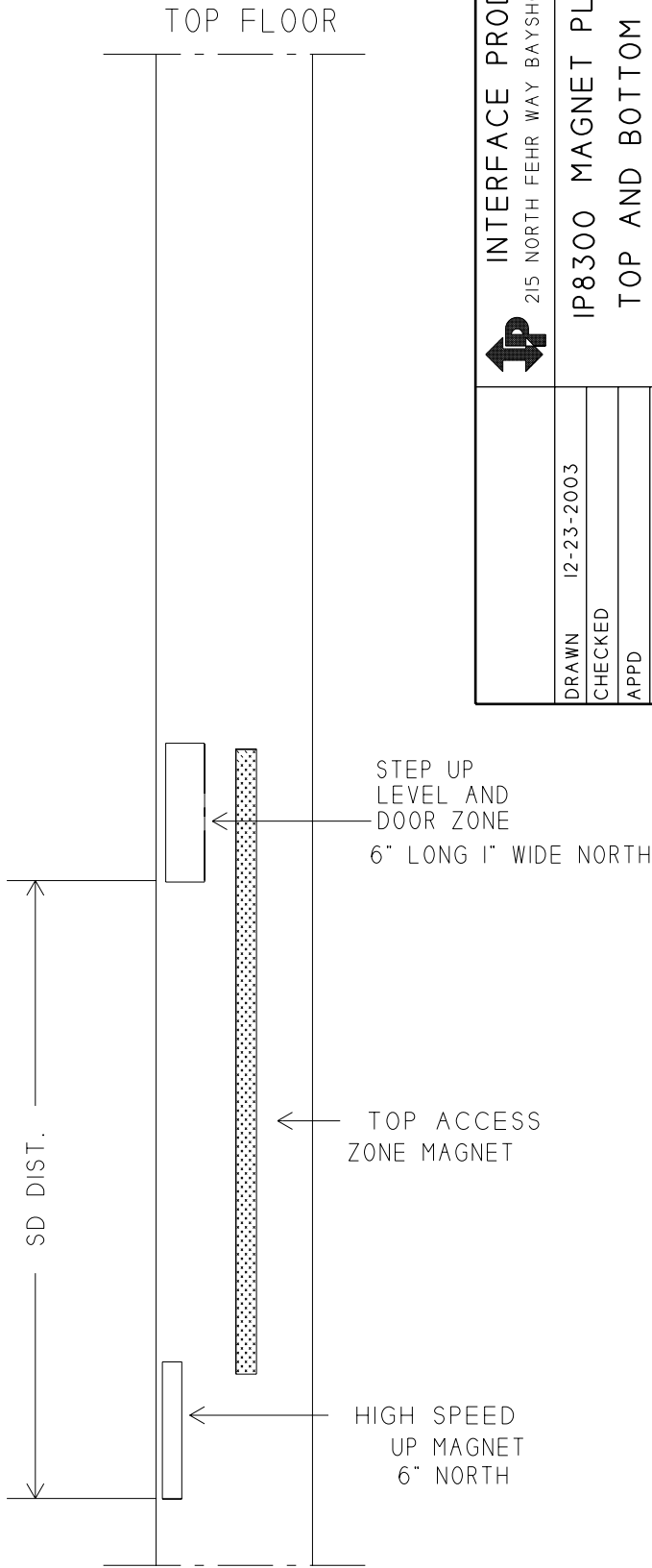
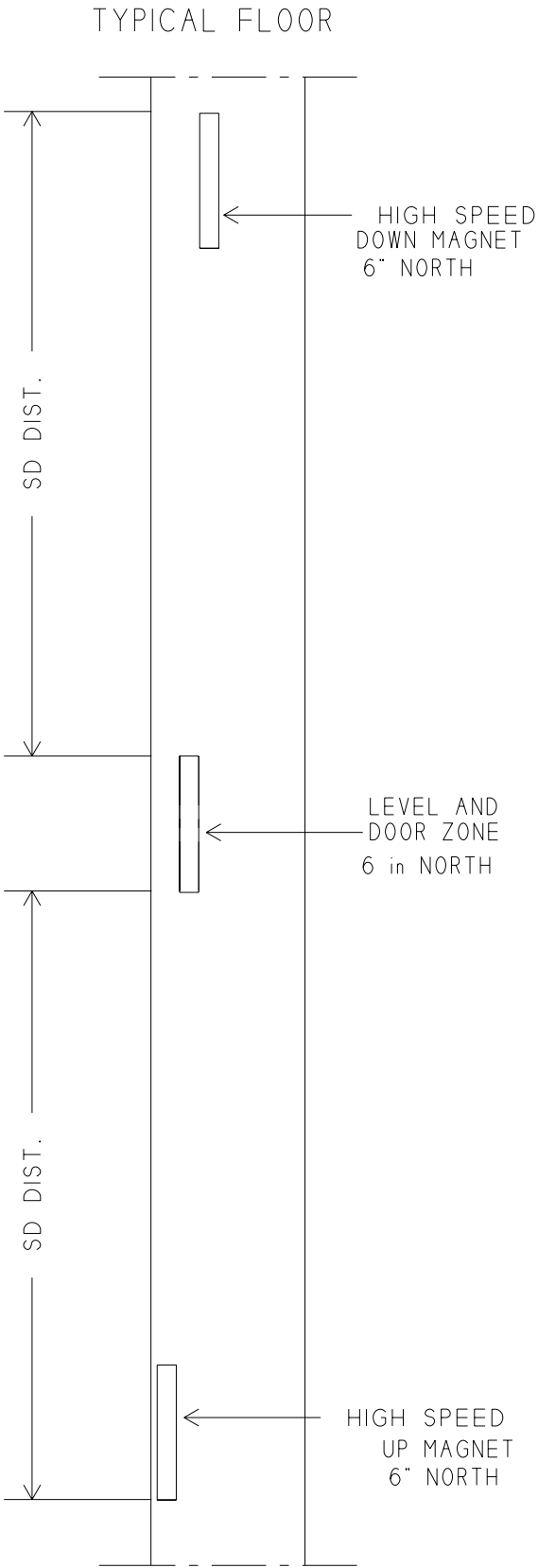
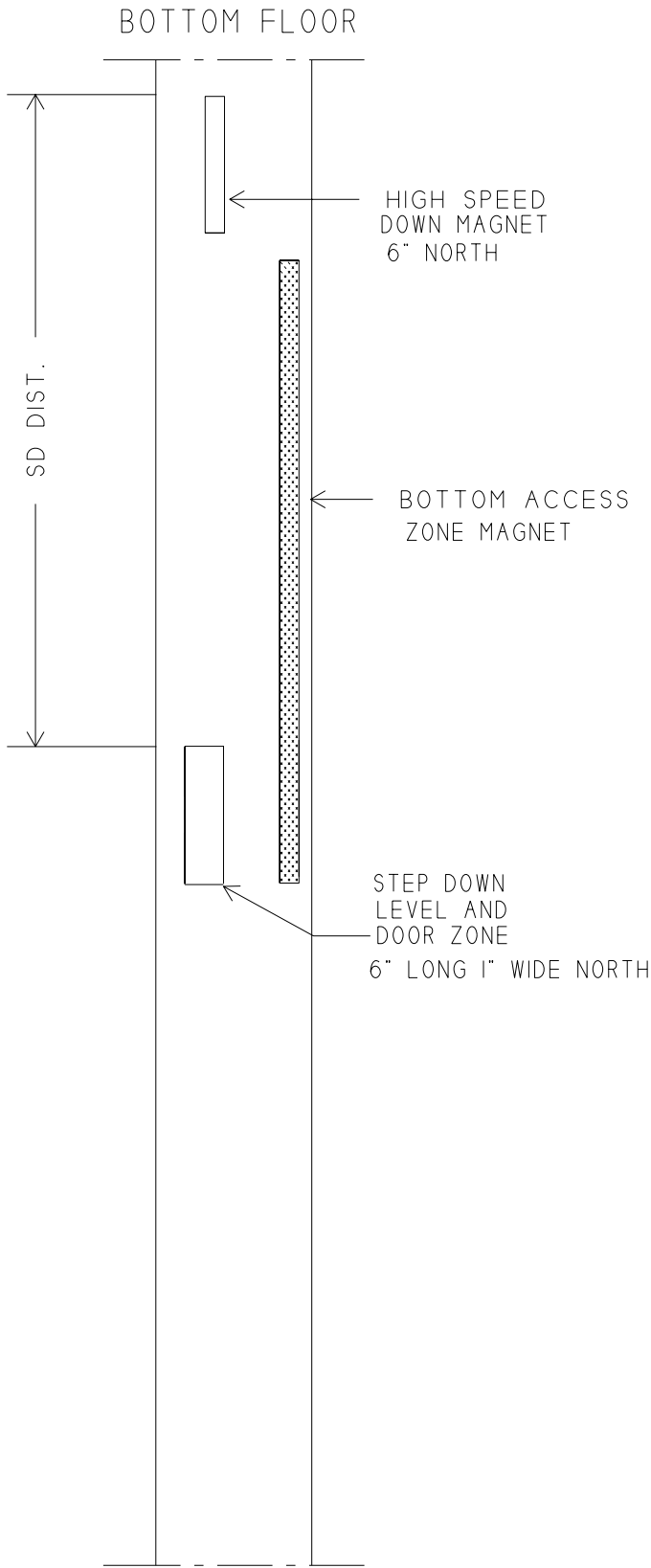
TITLE: HATCH WIREWAY BRACKET 8# RAIL		PART NO.	QTY	S/P	LOCATION
No.					
1	1/4" x 2" A36 F.B. x 16 9/16" LG.	60020	6	S	MANU.
2	13/16" P.S. x 8 1/2" LG.	60250	6	S	MANU.
3					



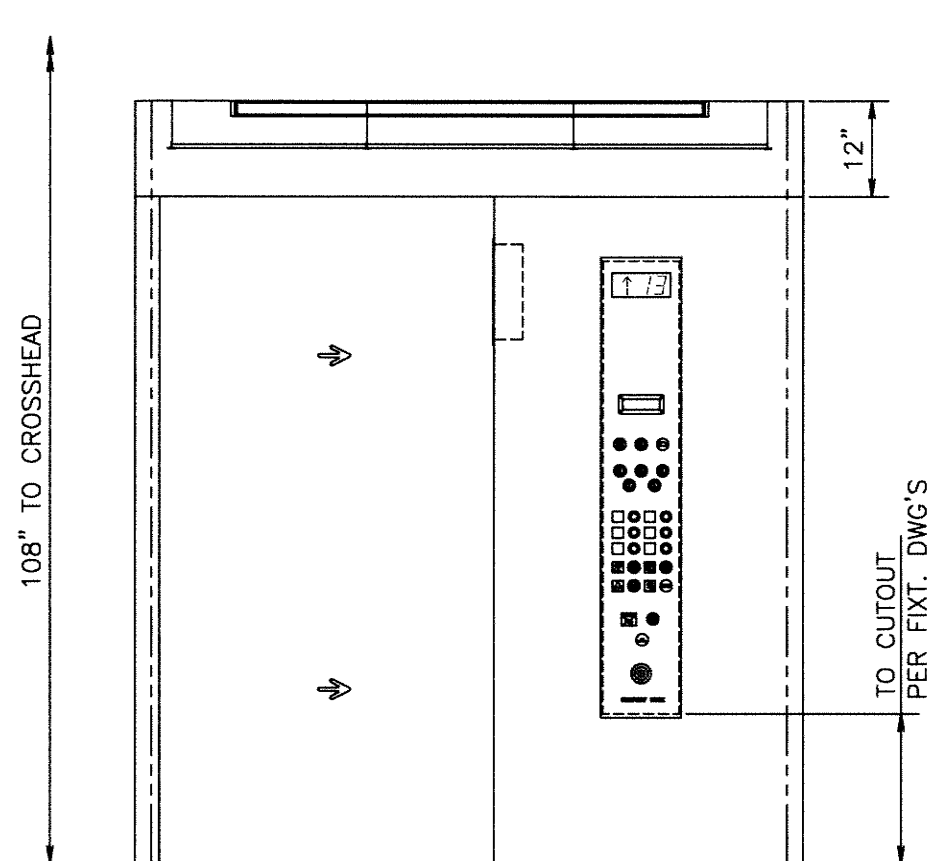
- ALL DIMENSIONS $\pm 1/16"$ UNLESS OTHERWISE NOTED
- NOTES
- WELD P.S. TO BRACKET WITH FOUR 1" LONG $3/16"$ FILLET WELDS. TO MINIMIZE DISTORTION OF BRACKET – DO NOT WELD ACROSS ENDS OF P.S.
 - AFTER WELDING STRAIGHTEN BRACKET AS REQUIRED.
 - PAINT COMPLETED BRACKET.

REVISIONS		CANTON ELEVATOR	
ORIG. 3-5-19	BY LSK	WEIGHT 3.5#	DATE 11-17-23
DATE 7/28/20			

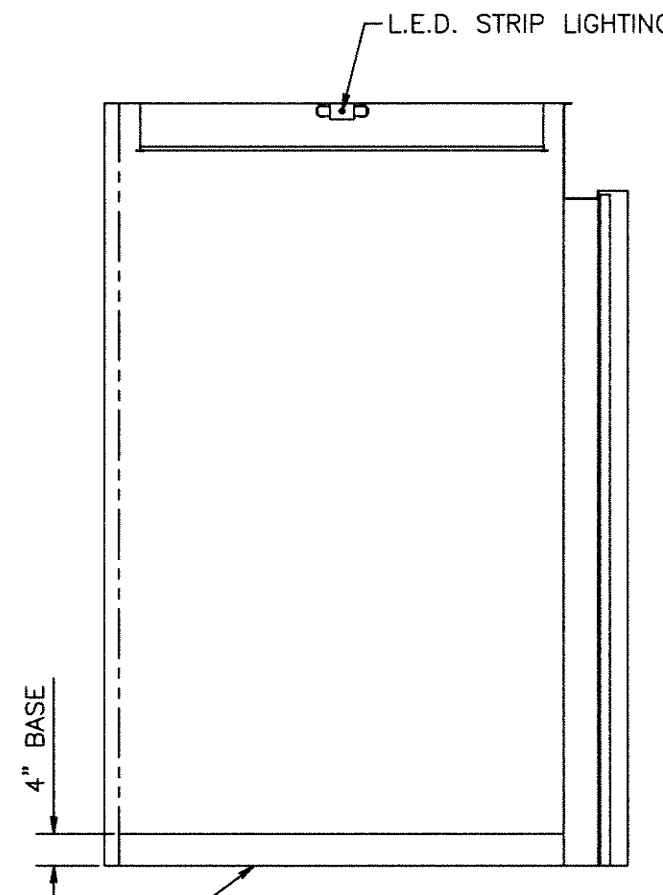
MAGNET PLACEMENT



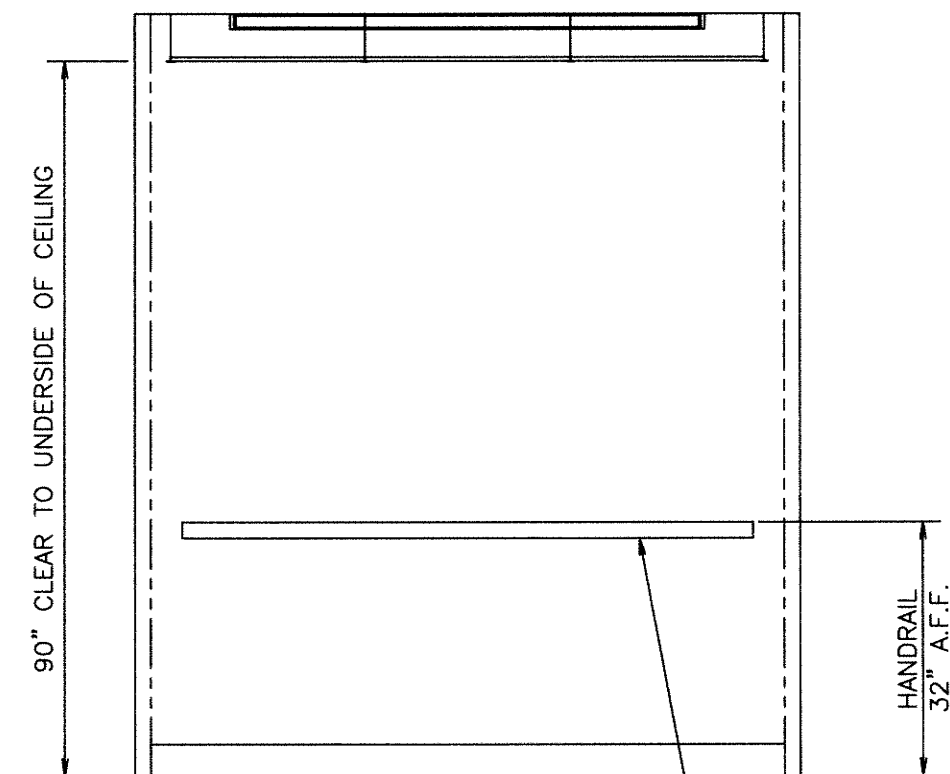
	INTERFACE PRODUCTS			215 NORTH FEHR WAY BAYSHORE, NY 117
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Front Elevation

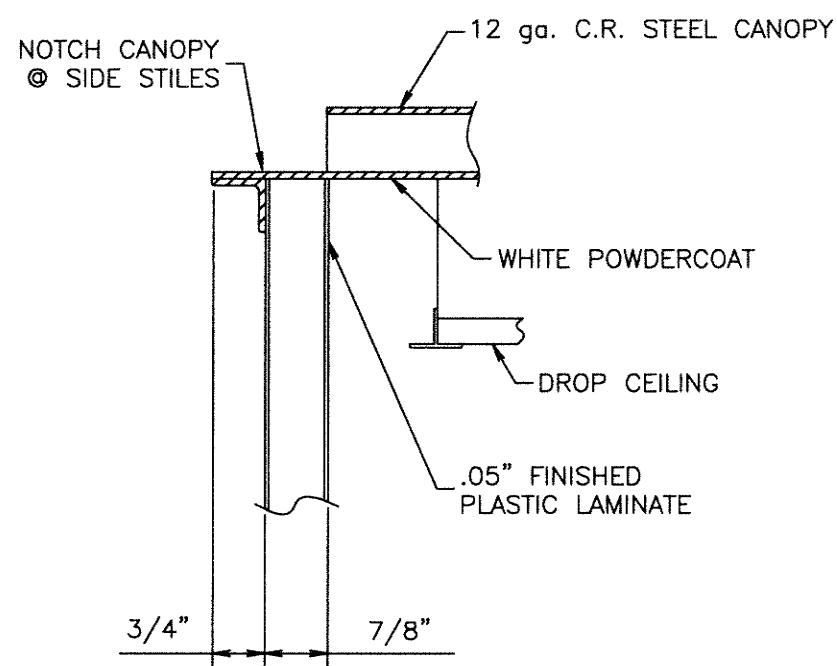


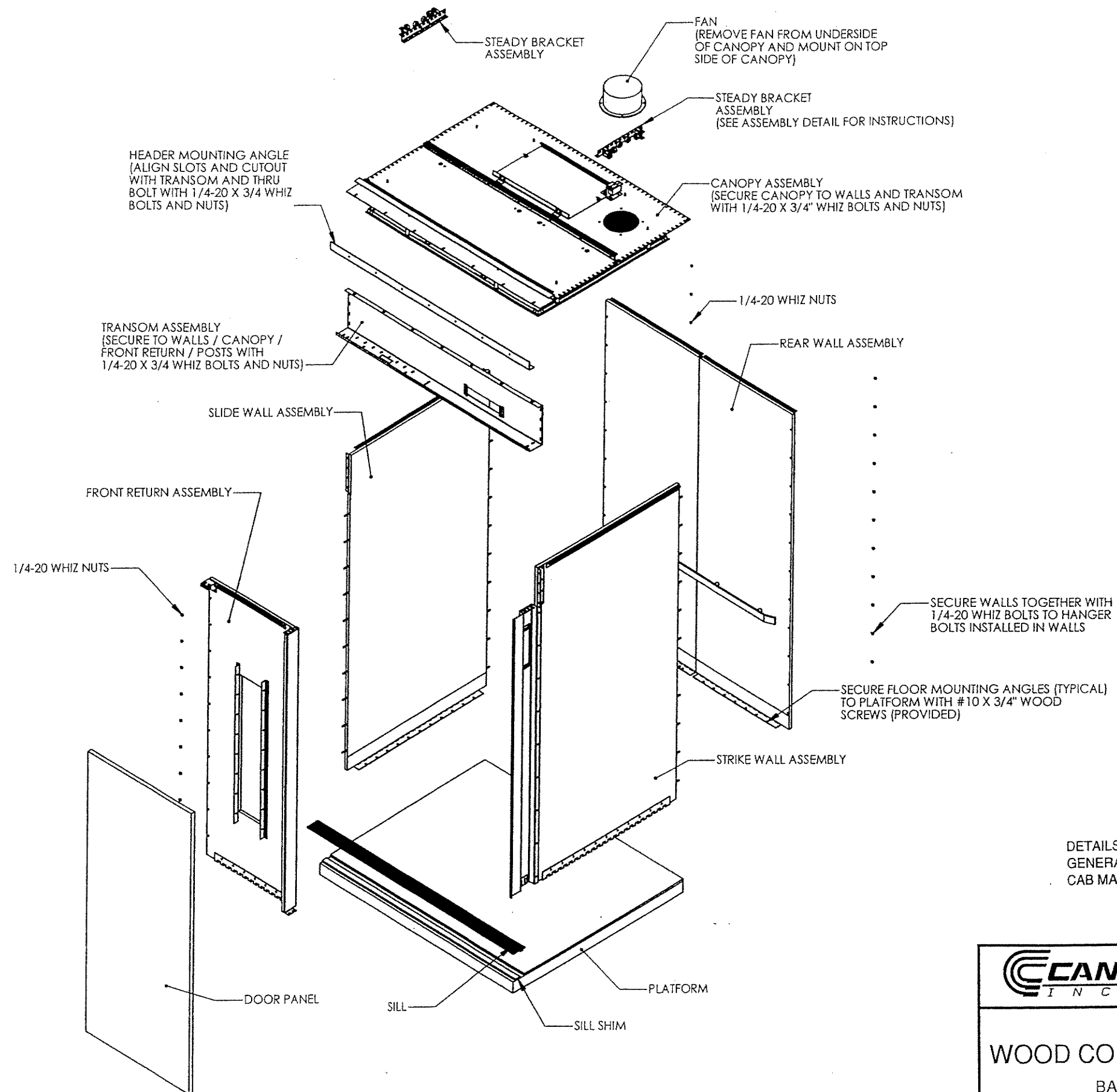
VENTING TO SUIT CODE — Side "A" Elevation
(Side "B" Elevation similar)

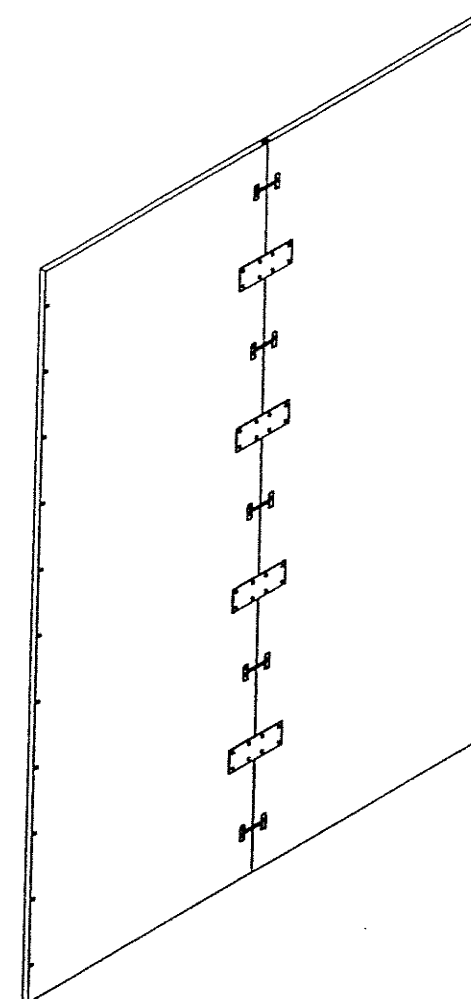
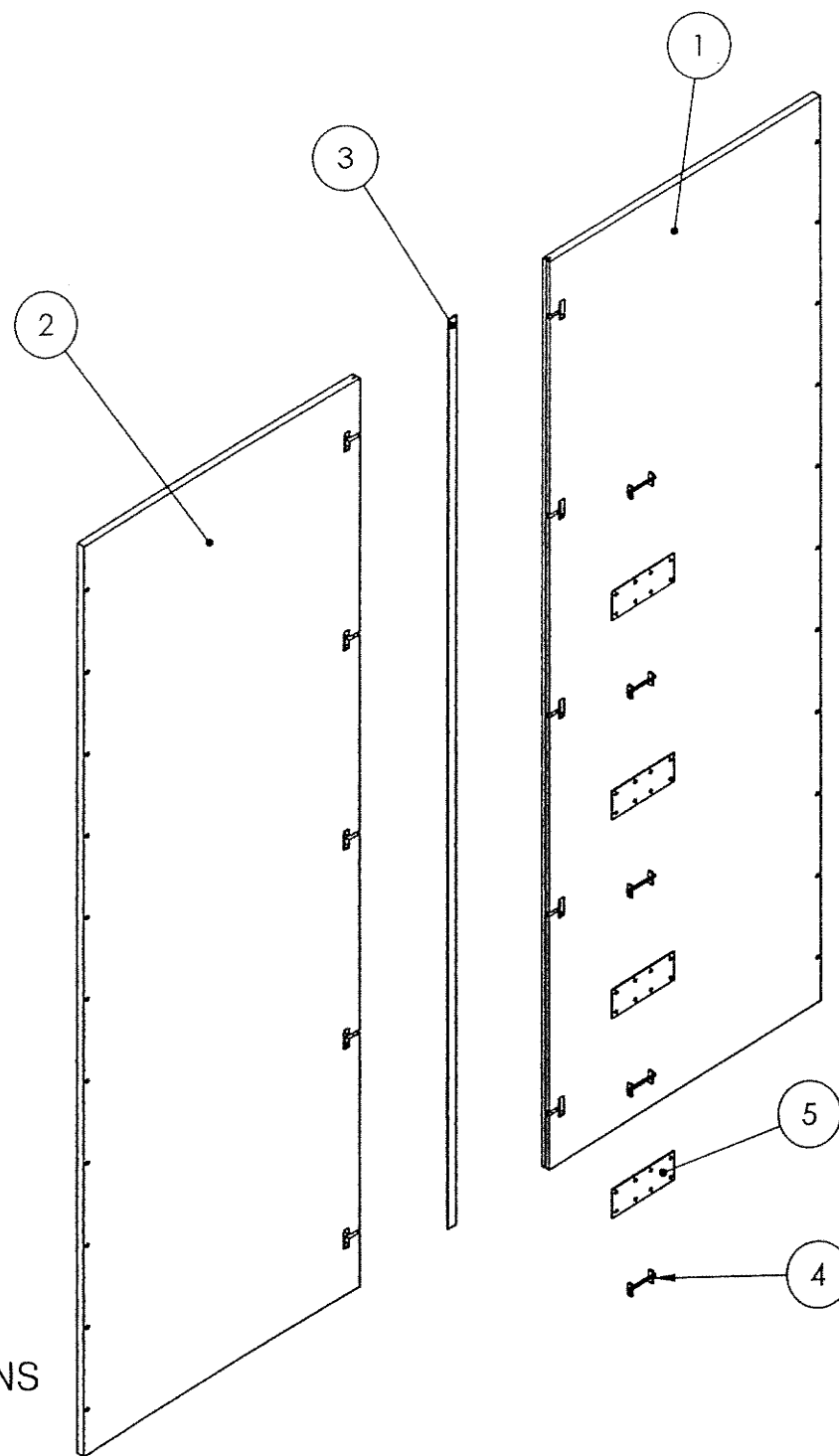
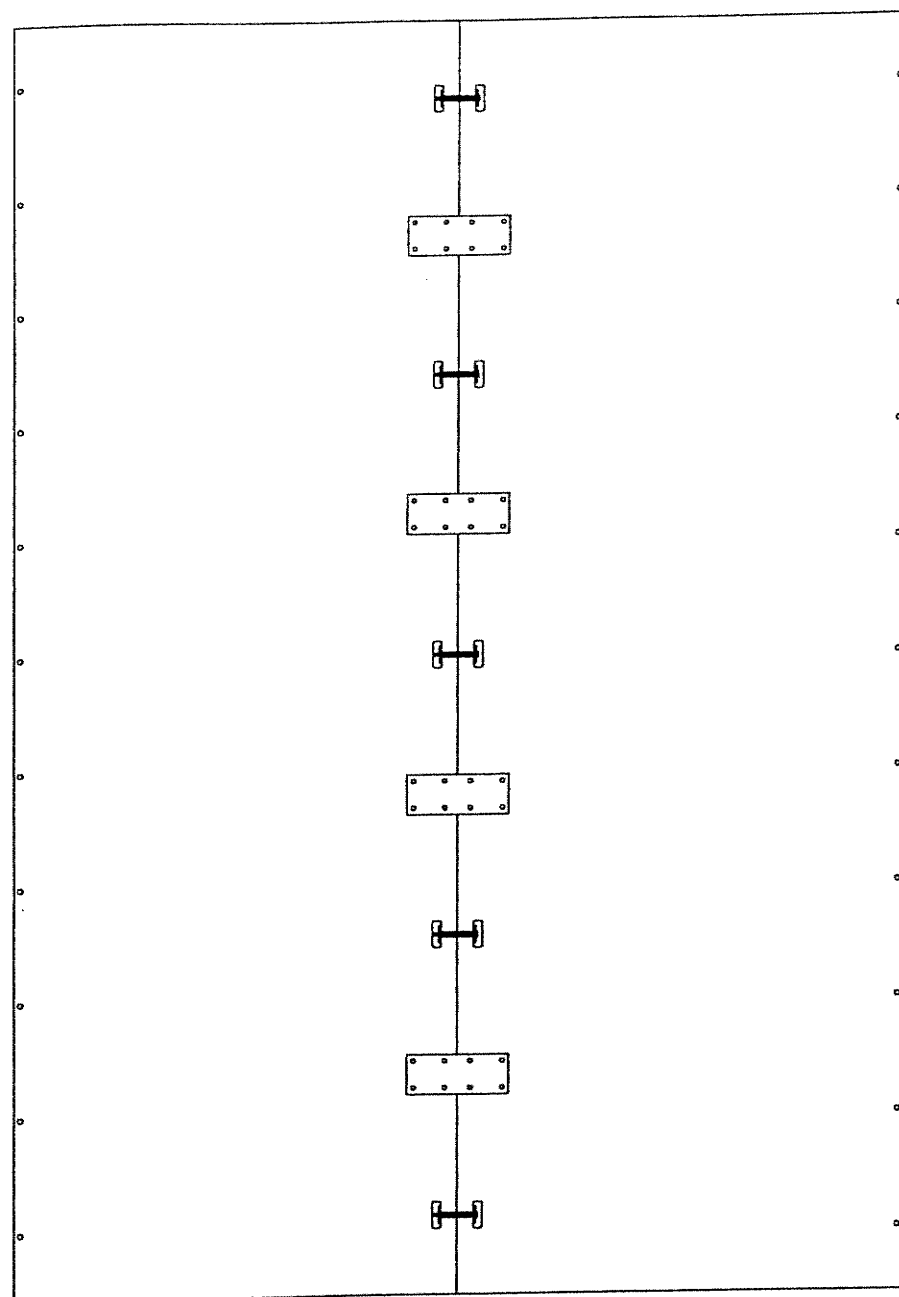


Rear Elevation

2" x 3/8" SATIN STNL. STL.
HANDRAIL w/ 1" x 1 1/2"
STAINLESS STEEL SPACERS
& THRU BOLTS



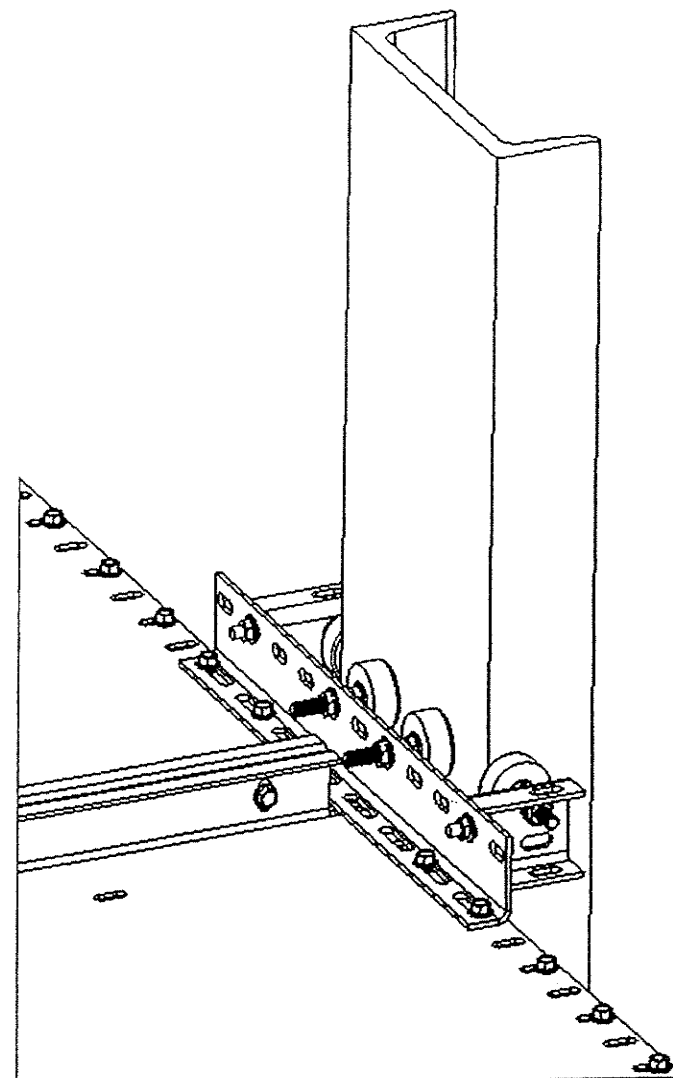
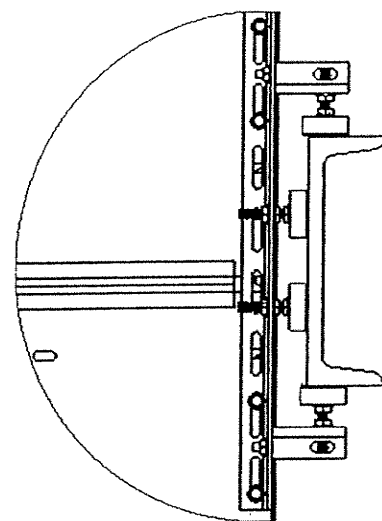




ASSEMBLY INSTRUCTIONS

1. ITEMS ① AND ② ARE THE WALLS.
2. INSERT SPLINE, ITEM ③, INTO THE RECESSED POCKET ALONG THE VERTICAL EDGE OF EITHER WALL SECTION.
3. ALIGN RECESSED POCKET IN OTHER WALL WITH SPLINE PROJECTING OUT OF THE FIRST WALL AND PRESS TOGETHER.
4. LOOSEN DRAW BOLTS, ITEM ④, AND INSERT IN ROUTED POCKETS LOCATED ON BACK SIDE OF WALL.
4. USE CAUTION TO NOT OVER TIGHTEN DRAW BOLTS TOGETHER TO PULL WALLS TOGETHER.
5. SECURE SPLICE PLATES, ITEM ⑤, TO BACK SIDE OF WALL OVER THE SEAM USING PROVIDED WOOD SCREWS.

DETAILS DEPICTED HERE FOR
GENERAL LAYOUT ONLY. ACTUAL
CAB MAY VARY FROM THAT SHOWN.



INSTALLATION INSTRUCTIONS

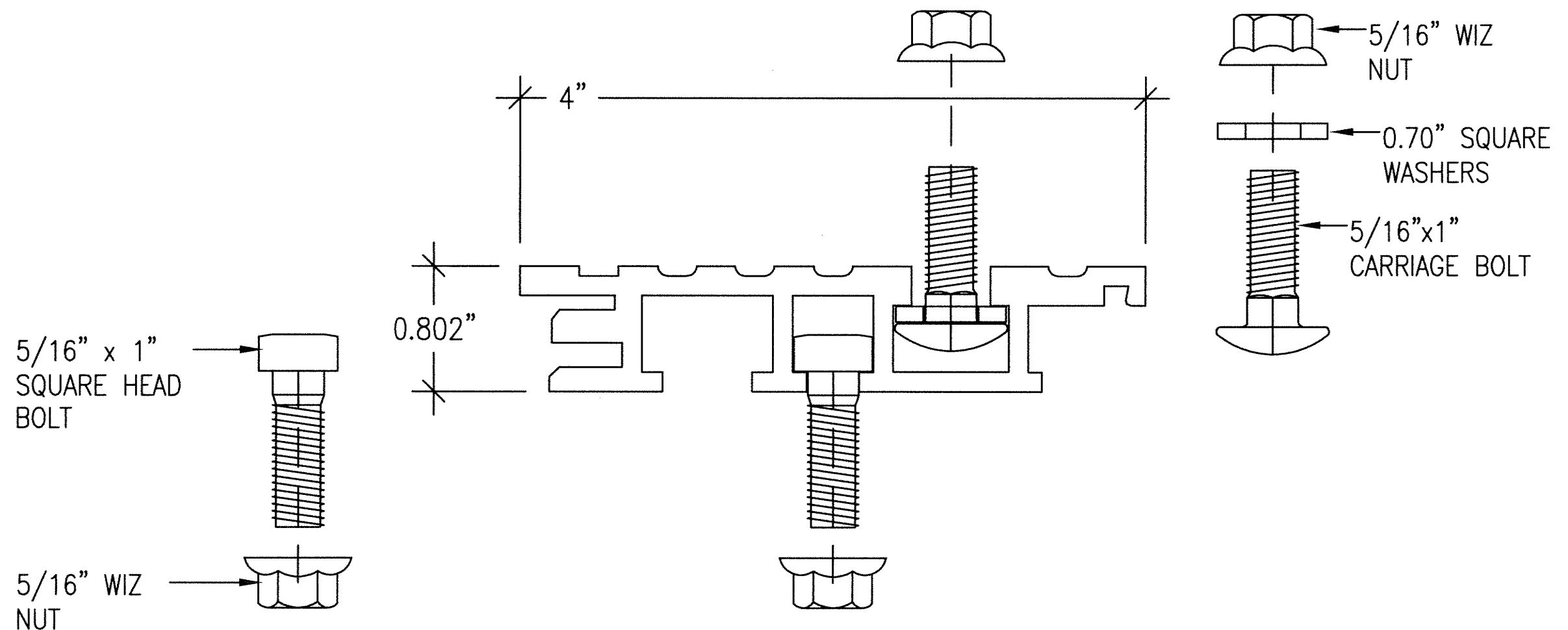
- POSITION THE STEADIER BRACKETS TO FIT AROUND THE SIDE STILES ON EACH SIDE OF THE CAB.
- SECURE ANGLE TO CANOPY USING 1/4"-20 x 3/4" WHIZ BOLTS AND NUTS.
- ADJUST RUBBER BUMPERS TIGHT AGAINST SIDE STILES AND SECURE.

DETAILS DEPICTED HERE FOR
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CAB MAY VARY FROM THAT SHOWN.

CANTON ELEVATOR
INCORPORATED

CAB STEADIER INSTALLATION

(NON CORNERPOST OR
CANTILEVER)



SSL EXTRUDED ALUMINUM HATCH SILL



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TITLE:	Aluminum SILL, 1 SP
DWG NO.	12670(Q-18949)
PROJECT NO.	306113
SHEET	4 OF 4
DATE:	12/07/2023
DRAWN BY:	C.R.
CLIENT #:	CANOH

L A N D I N G	ELEVATOR 1		
FLOOR MARKINGS			
	FRONT	REAR	SIDE
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L A N D I N G	ELEVATOR 1		
FLOOR MARKINGS			
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CHECK CHART FOR ELEVATORS		
20__	EXAMINER	OBSERVATIONS & NOTES
JANUARY		
FEBRUARY		
MARCH		
APRIL		
MAY		
JUNE		
JULY		
AUGUST		
SEPTEMBER		
OCTOBER		
NOVEMBER		
DECEMBER		