

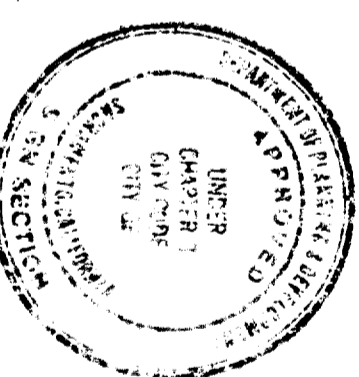
4517 Franklin Blvd.
Sacramento, CA 95820

916-452-8000
916-452-3331

In case of plans and specifications not to the job or changes and if it is necessary to make any changes or alterations, reference #550090 shall apply and permission from the City of Sacramento, CA, Section 5.05.01 shall be required.

The sign shall be in plan and specification as shown on the plan and specification sheets, and shall be subject to permit approval from the Department of Public Works, City of Sacramento, CA, Section 5.05.01.

DOUBLE SIDED NON ILLUMINATED HANGING SIGN



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
ALL DIMENSIONS ARE SUBJECT TO FIELD INSPECTIONS.
APPLY POLYURETHANE PAINT TO MATCH PMS 310 COLOR TO MATCH PHOTOS.
SURFACE APPLIED STANDARD 3M VINYL COPY.
COLOR: GLOSS WHITE.
SURFACE APPLIED CUSTOM PAINTED 3M VINYL LOGO.
SMOOTH PAINT WITH MATTHEWS ACRYLIC POLYURETHANE PAINT.
COLOR: TO MATCH PMS 310.
FINISH: SEMI-GLOSS.

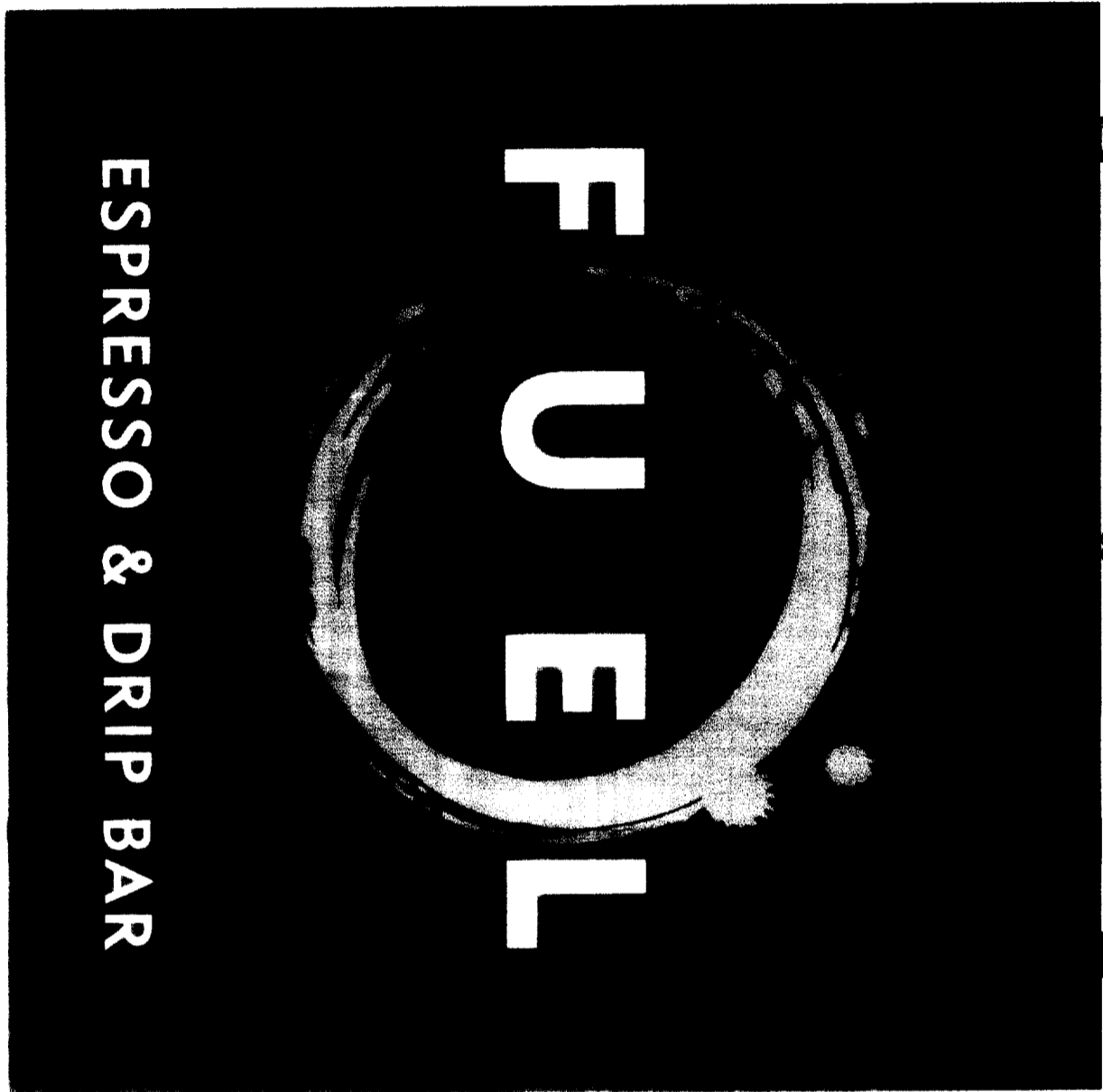
FIELD SURVEY EXISTING GLASS AND ALUMINIUM AWNING ANGLES.
HANG SIGN FROM EXISTING GLASS AND ALUMINIUM AWNING WITH THE FOLLOWING PER ENGINEER'S DRAWINGS.
MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO FINISHED SIDEWALK TO BE 100".
HARDWARE TO HAVE A BRUSHED ALUMINIUM FINISH.

Project: FUEL ESPRESSO & DRIP BAR
Company:

FUEL ESPRESSO & DRIP BAR
Work Order:

21124
Drawn by: HDM
Date: 04-03-00
Revisions:
06-22-00 HDM 1
08-24-00 HDM 2

Drawing Title: MID-H



ESPRESSO & DRIP BAR

FUEL

FRONT ELEVATION

SCALE: 1/8" = 1"



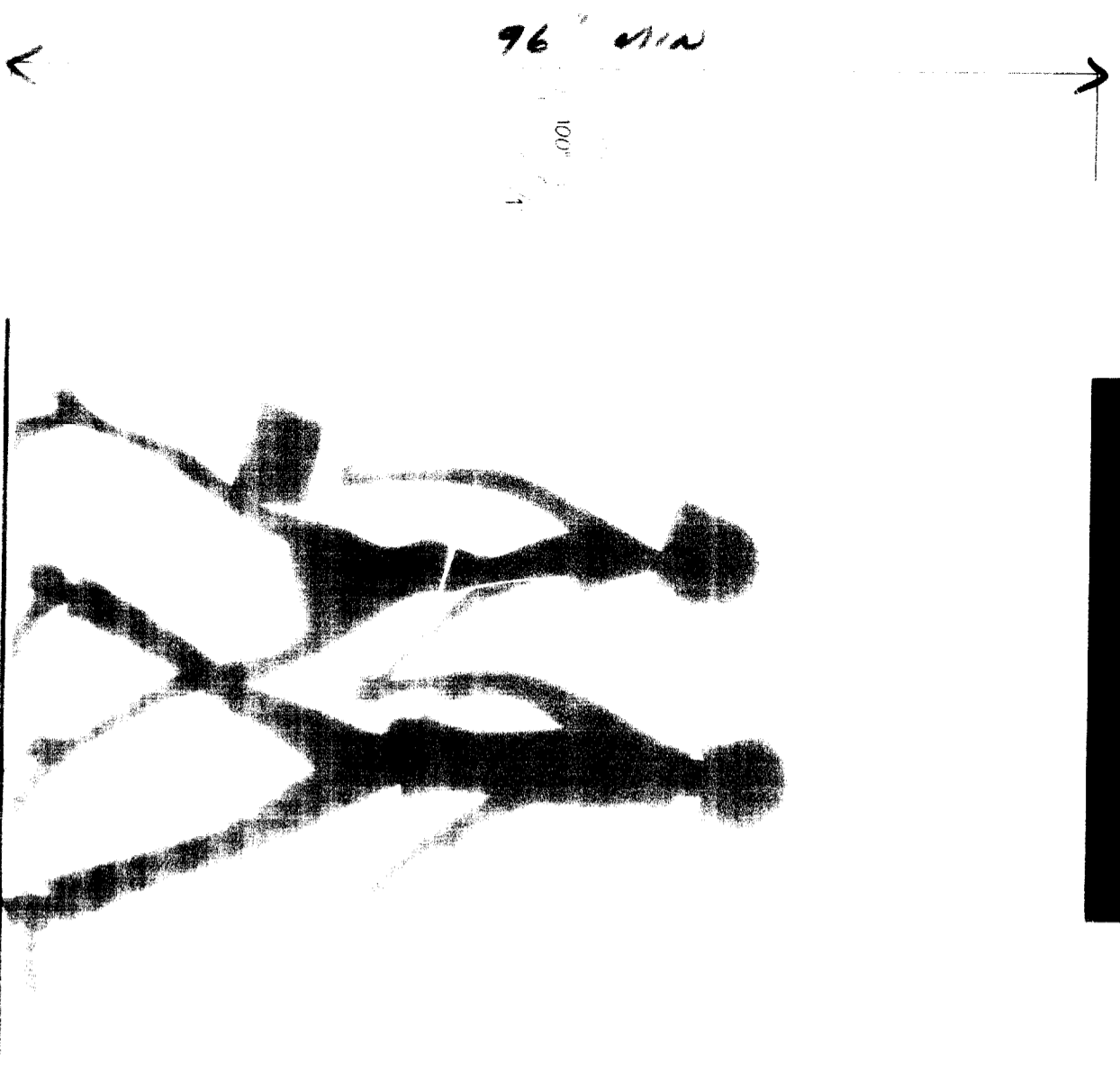
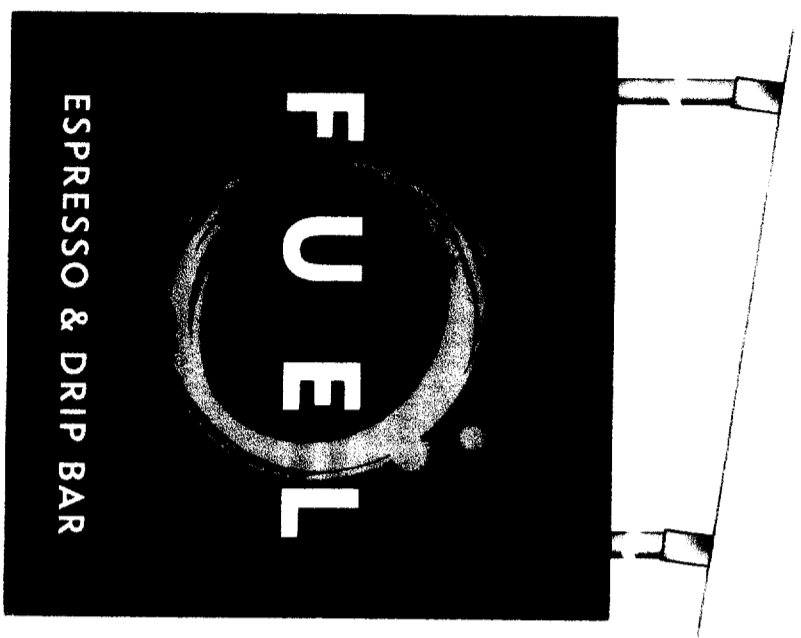
PLAN VIEW

SCALE: 1/16" = 1"

APP. NEEDED:
SIGN: 1
DRAWING: 1

WEIDNER ARCHITECTURAL/SIGNAGE
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FRONT ELEVATION
SCALE: 1/16" = 1"

Project
**FUEL ESPRESSO
& DRIP BAR**
Company
**FUEL ESPRESSO
& DRIP BAR**
Work Order
21124
Drawn By
HDM
Date
04-03-00
Revisions
06-22-00 HDM 1

Drawing Title
MID-H

AS NOTED
SHEET
2

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Project

FUEL ESPRESSO
& DRIP BAR
Company

FUEL ESPRESSO
& DRIP BAR
Work Order

21124

Drawn By
HDM

Date
08-22-00

Revisions

Printer's Title

MID-H

Scale

AS NOTED
SCALE

3

VISUAL STUDY
SCALE NTS

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JOB NO. 5958 SH 0
NO. 1 OF 5
BY *DL* DATE 6/23/08

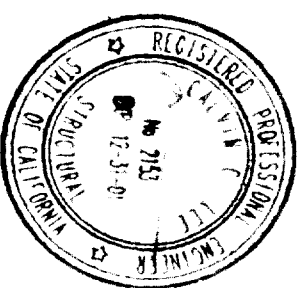
STRUCTURAL CALCULATIONS

FOR CONNECTION OF FUEL ESPRESSO AND

DRIP BAR / SIGN TO

ESPRESSO STAND STAND

STRUCTURAL CALC



DESIGN SIGN CONNECTION

- DESIGN LOADS

- SIGN WEIGHT = 40 #
- DETERMINE WIND LOAD PER 1994 UBC $q = C_e C_q q_z I$
- BASIC WIND SPEED = 80 MPH $q_s = 16.4 \text{ PSF}$
- IMPORTANCE $I = 1.0$
- HT. < 15 FT., EXP. E $C_e = 0.62$
- SIGN $C_q = 1.4$

$\therefore q = (0.62)(1.4)(16.4 \text{ PSF})(1.0) = 14.2 \text{ PSF}$

USE WIND LOAD = 20 PSF

- WIND GOVERNS OVER SEISMIC LOADING BY INSPECTION

- MATERIALS

USE 6063-T5 ALUMINUM $F_y = 16 \text{ KSI}$
 $E = 10,100 \text{ KSI}$

- COMPRESSION DESIGN

SIGN = $50.5" \times 57.5" (1777 \text{ ft}^2)$
 $P_{wind} = (20 \text{ PSF})(1777 \text{ ft}^2) = 3594 \text{ #}$

$F_y = 40 \text{ #}/2 = 20 \text{ #}$

$P = 5.4 \text{ #}/2 = 2.7 \text{ #}$

$M_2 = 1111' (59.5 \text{ KIP}) / 2 = 6.6 \text{ #}$

USE 2" ϕ ALUM. PIPE (2.315 O.D.)

$r = 1.67$

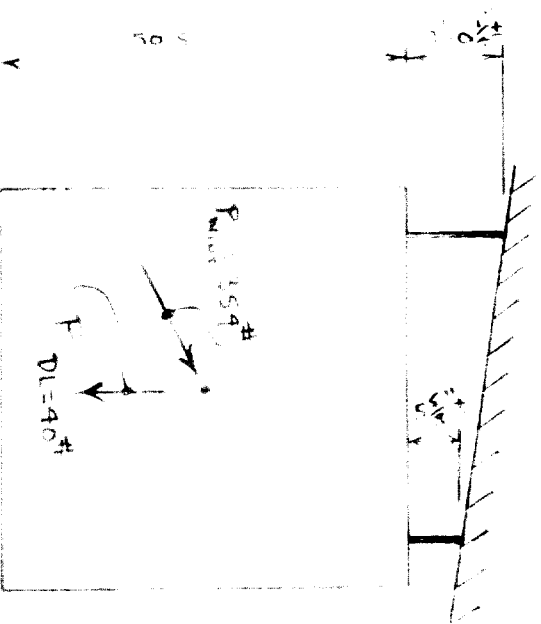
$A = 2.14 \text{ in}^2$

$S_x = 0.89 \text{ in}^3$

$F_c = M/S = 6.6 / 0.89 = 7.4 \text{ KSI}$

$C F_c = 8.6 (40) = 10.7 \text{ KSI}$

\uparrow WIND OR
DEAD



- FOR ALL-AROUND FULL PEN. WELD TO ALUM. $\text{FE } \frac{7}{16} \times 2\frac{1}{2}''$

$$A_w = 2.19 \text{ in}^2$$

$$S_w = 0.971 \text{ in}^3$$

$$f_w = \sqrt{(.020/2.19)^2 + (.177/2.19)^2} + (5.6/0.971) = 6.7 \text{ KSI}$$

$$F_w = (5 \text{ KSI})(4/3) = 6.66 \text{ KSI} \approx f_w = 6.7 \text{ KSI} \text{ o.k. } *$$

- CHECK 4 - $\frac{1}{4}'' \phi$ S.S. N.S.

$$F_T = \frac{.040 + 6.6}{2(4)} = .010 + .825 = 0.835 \text{ K/screw}$$

$$F_V = .177/4 = .044 \text{ K/screw}$$

$$F_T = (.1345/.226)(1.772 \text{ #})(4/3) = 1.009 \text{ #/screw} > F_T = 835 \text{ #/screw}$$

$$F_V = .647(4/3) = 863 \text{ #/screw} >> F_V = 44 \text{ #/screw} \text{ o.k.}$$

- CHECK ALUM $\text{FE } \frac{7}{16} \times 2\frac{1}{2}''$

$$M = 2(.835 \text{ K})(2 - 1.19'') = 1.35 \text{ in}\cdot\text{K}$$

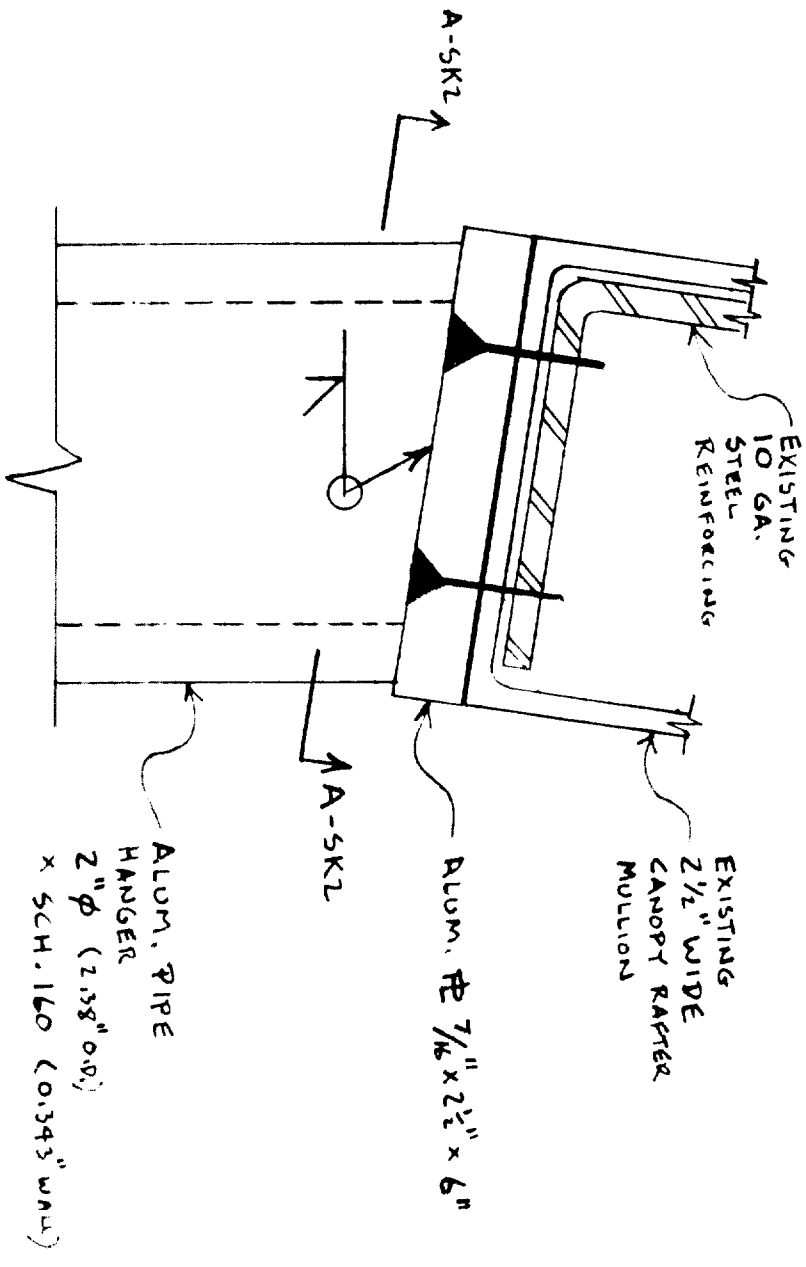
$$S = 2.5 (438 \text{ in}^3/\text{ft})/6 = 0.183 \text{ in}^3$$

$$f_b = 135(1.35 \text{ in}\cdot\text{K})/16.9 \text{ in}^3 = 10.5(4/3) = 14 \text{ KSI} *$$

* NOTE: STRESS CHECK FOR ALUM. PERFORMED USING 1997 AISC SPEC. CODE
 REFERENCE: 1997 AISC SPEC. CODE

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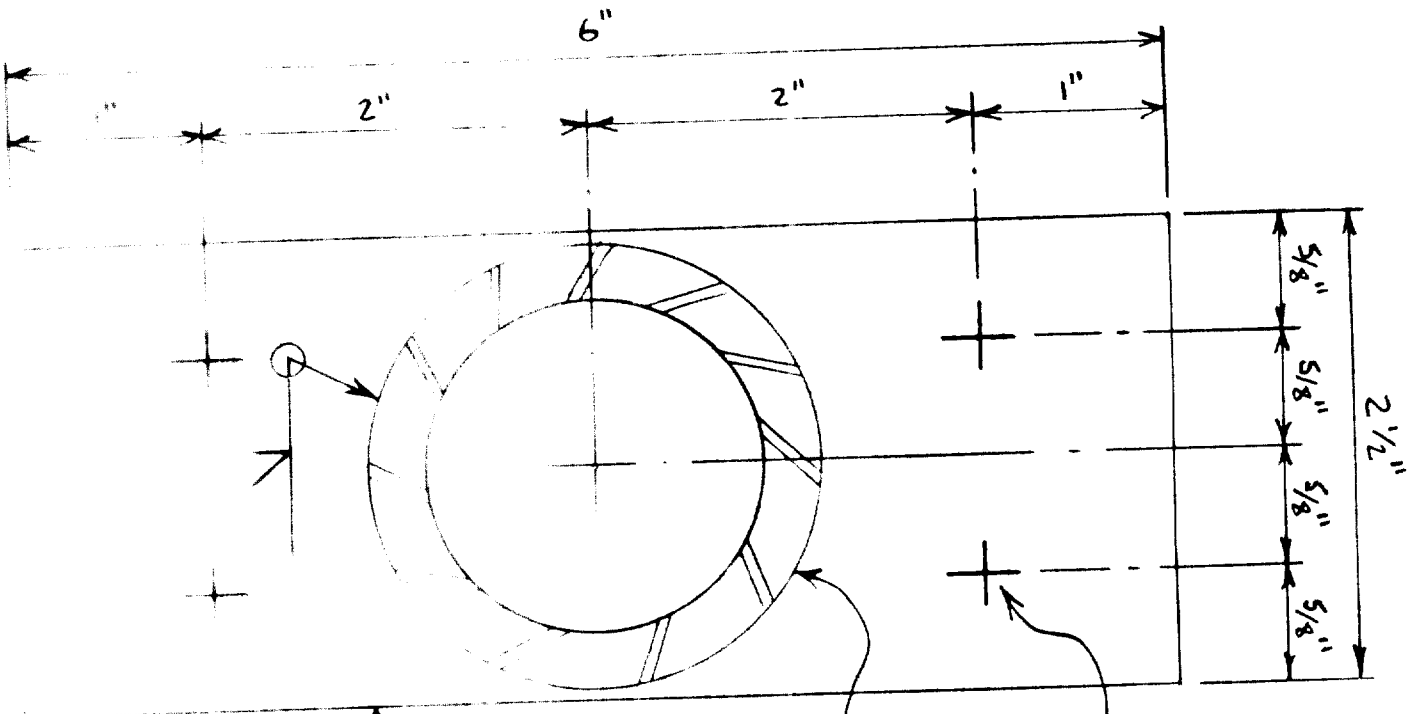
JOB NO. 5938 SH 5K1
NO. 4 OF 5
BY SA DATE 6/24/00



A - SK1
1" = 1"

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JOB NO. 5958 SH 5K2
 NO. 5 OF 5
 BY SD DATE 6/23/00



4 - 1/4" ϕ F.H. S.S.M.S.

ALUM. PIPE
 2" ϕ (2.38" O.D.)
 X SCH. 160 (0.343" WALL)

ALUM. ϕ 3/16" x 2 1/2" x 6"

A - SK2
 1" = 1"