

BILL OF MATERIAL					
MARK	QUAN.	DESCRIPTION	LENGTH		WEIGHT
			FT.	INCH	
12HR1	ONE	HANDRAIL			
a	3	BAR 2 x 30	0	6	4
b	1	BAR 4 x 30	13	13 1/2	34
LIN.	FT.	1 1/4" STD. PIPE	39	0	89
12HR2	ONE	HANDRAIL			
a	2	BAR			3
c	1	BAR 4 x 30	7	11 1/2	20
LIN.	FT.	1 1/4" STD. PIPE	23	0	51
12HR3	ONE	HANDRAIL			
a	3	BAR			4
d	1	BAR 4 x 30 (BENT)	12	6 3/4	33
f	4	1" STD. PIPE	0	6	3
LIN.	FT.	1 1/4" STD. PIPE	38	0	80
12HR4	ONE	HANDRAIL			
a	3	BAR			4
f	4	PIPE			3
g	1	BAR 4 x 30 (BENT)	17	2 1/2	40
LIN.	FT.	1 1/4" STD. PIPE	45	0	102
12HR5	ONE	HANDRAIL			
h	1	BAR 4 x 30 (BENT)	17	2 1/2	44
k	4	3 x 2 1/2 x 30	0	6	13
p	4	2 1/2 x 2 1/2 (1 CUTS 2)	0	25 1/2	2
LIN.	FT.	1 1/4" STD. PIPE	51	0	116
12HR6	ONE	HANDRAIL			
m	1	BAR 4 x 30	3	9	10
k	2	L			6
p	2	FE (1 CUTS 2)			1
LIN.	FT.	1 1/4" STD. PIPE	17	0	39
12HR7	ONE	HANDRAIL			
a	1	BAR			1
f	2	PIPE			1
k	1	L			3
n	1	BAR 4 x 30 (BENT)	7	8 1/2	20
p	1	FE			1
LIN.	FT.	1 1/4" STD. PIPE	21	0	48
t	1	2 1/2 x 2 1/2 x 1 1/4	0	2	

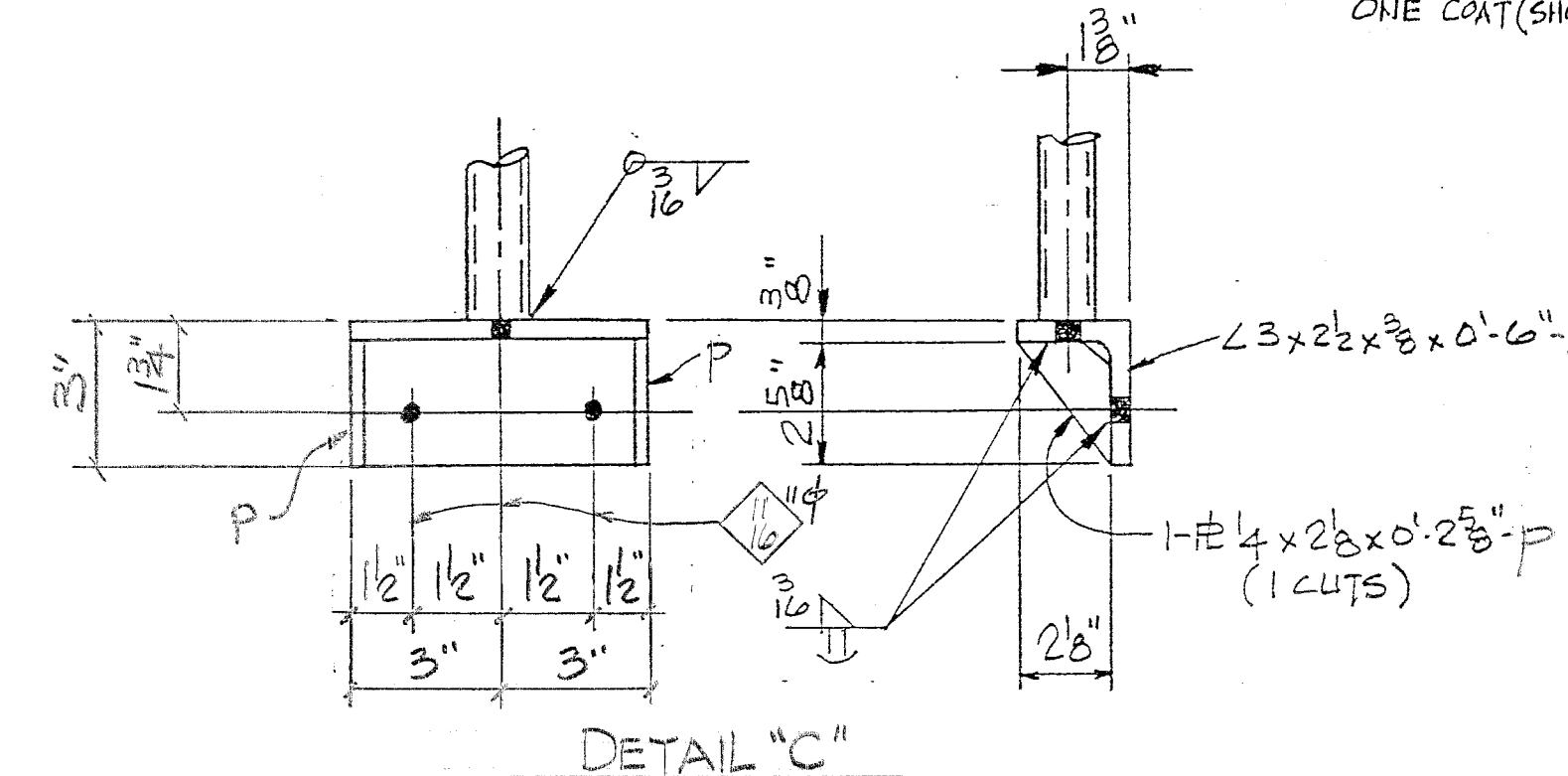
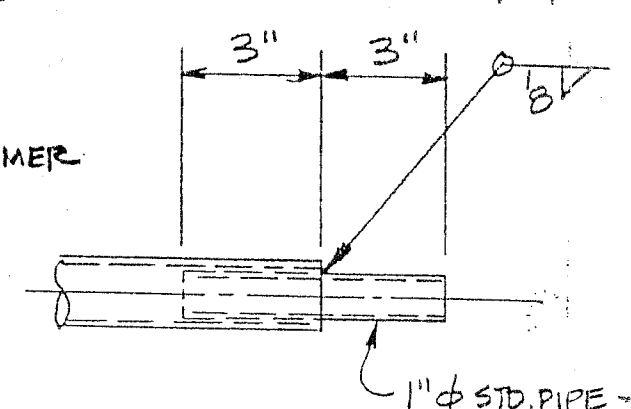
NOTES:

ALL HOLES TO BE 13" ϕ UNLESS NOTED

ALL YIELDS TO BE E70XX

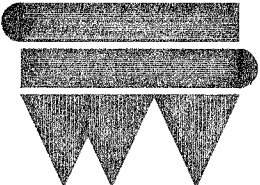
PAINT: SURFACE PREPARATION SP-3

ONE COAT (SHOP APPLIED) RED OXIDE PRIMER.



O	ISSUED FOR CONSTRUCTION	KLP	2-16-84
REV.	DESCRIPTION	BY	DATE

STRUCTURAL STEEL
MOTOR ROOM/TRANSFORMER ROOM
STAIR STEEL
SHOP FABRICATION DETAILS

ENGINEERING & CONSTRUCTION JOHN BROWN PROCESS PLANTS		CHARLESTON, WV
JOHN BROWN E & C	CAD NAME	
JOB NUMBER 93729		
		
STEEL OF WEST VIRGINIA HUNTINGTON, WEST VIRGINIA		
Scale: NONE	Equipment No.:	
Date: 2-14-84	Drawing No.:	
Drawn By: KJP	D-3481	
Approved By: RDR		