SCALING RULES
SIZE E
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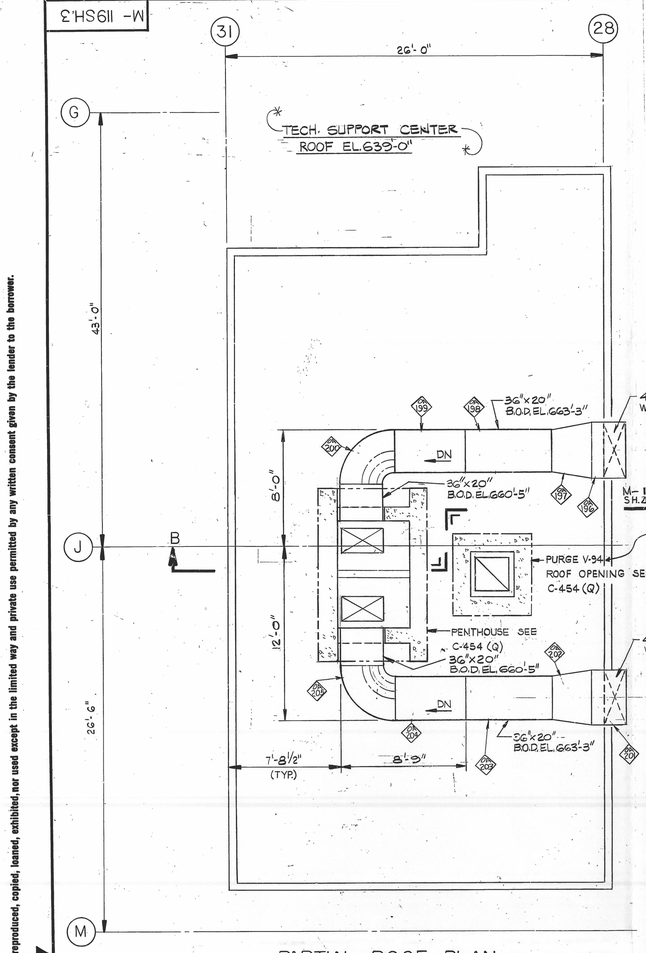
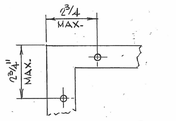


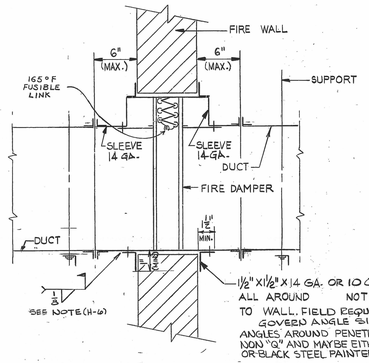
PARTIAL ROOF PLAN EL.659'-2"

SCALE: ¼" = 1'-0"

NOTE:
ANGLES BOLTED OR WELDED TO DUCTWORK.
BOLTED CONNECTIONS ¼" NUTS & BOLTS, MAX. 7" O.C. STARTING A MAX. OF 2¾" FROM AN EDGE. WELDED CONNECTIONS ⅛" FILLET, MAX. 7" O.C., 1½" LONG; STARTING A MAX. OF 2¾" FROM AN EDGE.

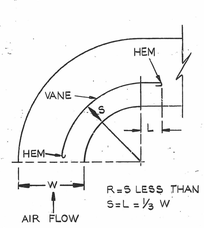


BOLTED CONNECTION



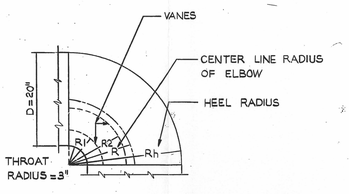
SECTION VIEW FOR FIRE DAMPER

SCALE : NONE



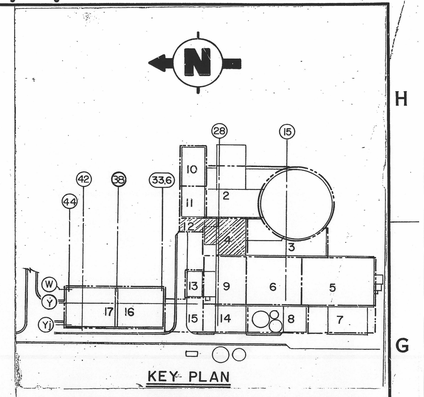
90° SHORT RADIUS ELBOW (SINGLE VANE)

FOR LOCATION OF VANES IN SHORT RADIUS ELBOWS IN NEW DUCT SEE PEABODY & WIND DUCTWORK CONSTRUCTION MANUAL M-181 (Q)-7.



90° RECTANGULAR ELBOW VANE LOCATION (MULTIPLE VANE)

3" THROAT RADIUS MINIMUM DIMENSION TO A MAXIMUM OF 10" FOR A 20" EXAMPLE. ½D IS RECOMMENDED, THEN WILL REQUIRE ONLY ONE VANE. REFER TO PEABODY AND WIND DUCKWORK CONSTRUCTION MANUAL.



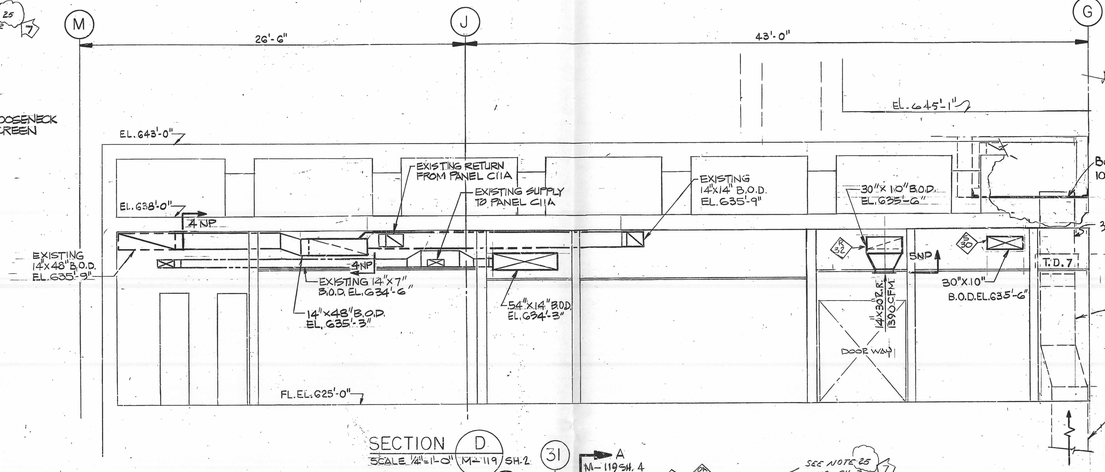
KEY PLAN

NOTES

1. FOR GENERAL NOTES SEE M-119 SH. 2 (Q).
2. FOR DETAILS OF STIFFNERS AND WELDING REQUIREMENT SEE DRAWING 12.44.47-C-530 (Q)
3. INSTALLATION OF HVAC DUCTWORK ON THE MECHANICAL EQUIPMENT ROOM ROOF IS NON-"Q".
4. DELETED
5. DELETED
6. ALL DUCTWORK IN DIRECTION INDICATED IS OF 10 GAGE MATERIAL.

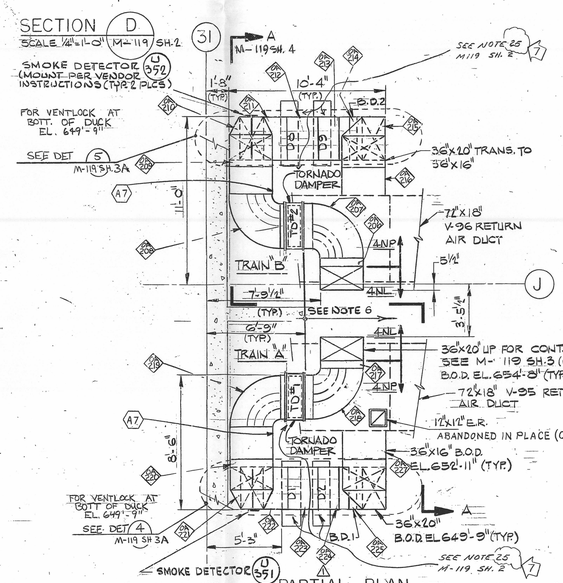
REFERENCE DRAWINGS

1. M-218 SH. 6 (Q), 6A	PIPE & INSTRUMENT DIAGRAM
2. M-119 SH. 2 (Q)	HEATING & VENTILATION CONTROL ROOM & MECH. ROOM PLAN EL. 625'-0" & 659'-2"
3. C-454 (Q)	CONCRETE ROOF PLAN EL. 659'-2" & DETAILS.
4. A-244	ARCH. FLOOR & ROOF PLANS.



PARTIAL PLAN EL.654'-8"

SCALE 1/4" = 1'-0"



PARTIAL PLAN EL.654'-8"

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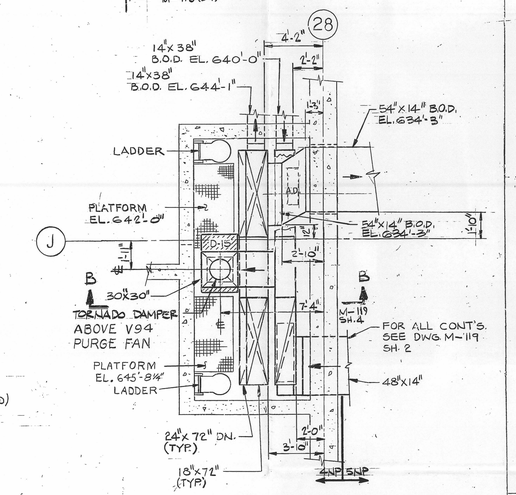


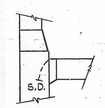
PARTIAL PLAN EL.643'-9"

SCALE 1/4" = 1'-0"

LEGEND

S.R.	SUPPLY REGISTER
E.R.	EXHAUST OR RETURN REGISTER
T.A.	TRANSFER AIR (NON DUCTED)
B.O.G.	BOTTOM OF GRILLE ELEVATION
B.O.D	BOTTOM OF DUCT ELEVATION
EL.	ELEVATION
DIA.	DIAMETER
CFM.	CUBIC FEET PER MINUTE
DN.	DOWN
TRANS.	TRANSITION
S.D.	SPLITTER DAMPER
B.D.	BALANCING DAMPER
C.D.	CEILING DIFFUSER
O.A.	OUTDOOR AIR
GR.	GRILLE
A.D.	ACCESS DOOR
S.S.	STAINLESS STEEL
M.D.	MOTORIZED DAMPER
N.D.	NECK DIAMETER
T.D.	TORNADO DAMPER

- FIRE DAMPER - VERTICAL INSTALLATION.
- FIRE DAMPER HORIZONTAL INSTALLATION.
- OPPOSED BLADE VOLUME DAMPER LOCKING QUADRANT (B.D.)
- FLEXIBLE CONNECTION
- SUPPLY DUCT
- EXHAUST DUCT
- PROPORTIONAL BRANCH TAKE-OFF WHEN (BRANCH CFM IS GREATER THAN 25% OF MAIN DUCT CFM SUPPLY SYSTEM ONLY)

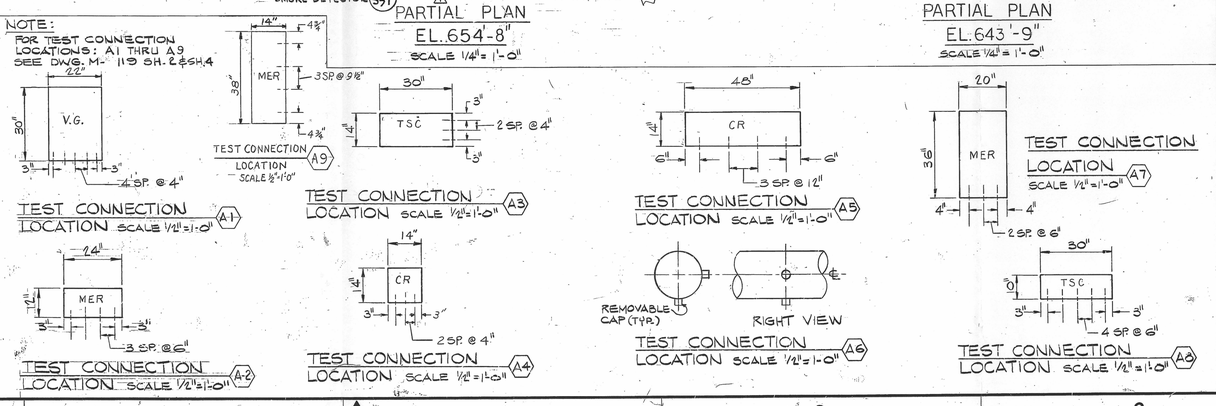


BRANCH TAKE-OFF (WHEN CFM IS LESS THAN 25% OF MAIN SUPPLY AND EXHAUST SYSTEM) NO S.D. ON RETURN OR EXHAUST DUCT

OPPOSED BLADE DAMPER SECTION VIEW

OPPOSED BLADE DAMPER PLAN VIEW

NOTE:
FOR TEST CONNECTION LOCATIONS: A1 THRU A9 SEE DWG. M-119 SH. 2 & SH. 4



No.	DATE	REVISIONS	BY	CHK	GRD SUPV.	ENG.	PROJ. ENGR	MICROFILM DATE
7	4-24-96	CHANGED NOTE 15 (REF) TO 25 PER DCR 96-170						
6	4-19-95	ADDED DETAIL 4 & 5 TO VENTLOCK AT BOTT OF DUCT SC-93-0342 DCR 95-156						
5	8-4-86	ADDED DCR 86-79 NOTE 16-79 V-94.4 DR-9 D-7 & M-10 SEC. SC-86-0703	WPD			DSE		FC-571
4	10/24/84	CORRECTED HEATING & VENTILATING EQUIPMENT PER GWO 8721						
3	6/11/84	REVISED 1850 CFM, WAS 1900 CFM (E-4 & E-7) ISSUED FOR RECORD						
2	3/2/84	REVISED NOTE 4 (F-3) ADDED NOTE 15 (B-21) & CHANGED NOTE 5 (F-3) PER DCR 84-21 SC-84-0703						
1	2/10/84	REVISED PER DCR 84-10 (F-1) DELETED NOTE 3 ADDED NOTE 14 (F-2) & REVISED NOTE 5 (F-3) ADDED NOTE 15 (F-3) SC-84-0703						
0	1/16/84	ISSUED FOR RECORD	BL					

SCALE AS NOTED | DESIGNED M. UNAL | DRAWN M. UNAL

BECHTEL
ANN ARBOR, MICHIGAN

PALISADES PLANT
CONSUMERS POWER COMPANY
GWO 8721

HEATING AND VENTILATING
MECHANICAL ROOM ROOF PLAN SECTIONS AND DETAILS

JOB No.	DRAWING No.	REV.
12447-054	M-119 SH.3	7

34 X 44

D-16