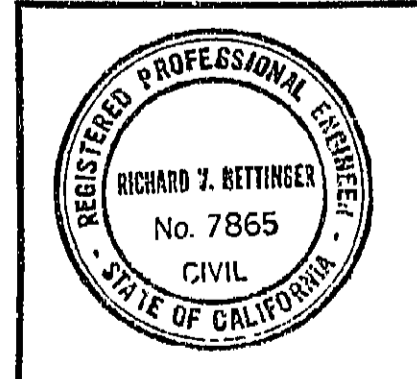


Restraint No.	Pipe No.	Pipe Size	Dynamic Force (K)	Details Shown on Dwg. No.	Remarks
1/IRR					Combined with 1/2RR
1/2RR	109	14"	265	443366	For orientation see Detail Dwg.
1/3RR	"	"	"	"	"
1/4RR	"	"	"	"	"
1/5RR	"	"	"	"	"
1/6RR	"	"	"	443367	"
1/7RR	"	"	"	"	"
1/8RR	"	"	"	"	"
1/9RR	"	"	"	"	"
1/10RR	1665	"	33.1	443368	Mechanical Pipe Sleeve-Dwg.
2/IRR	927	14"	71.6	443368	"
2/2RR	"	"	"	"	"
2/3RR	"	"	"	"	"
2/4RR	"	"	"	"	"
3/IRR	16	14"	280	443364	"
3/2RR	"	"	"	"	"
3/3RR	"	"	"	443363	"
3/4RR	"	"	"	"	"
3/5RR	"	"	"	"	"
3/6RR	"	"	"	"	"
3/7RR	"	"	"	443365	"
3/8RR	"	"	"	"	"
3/9RR	"	"	"	"	"
3/10RR	"	"	"	443364	"
3/11RR	"	"	"	443363	"
4/IRR	256	10"	162	443366	"
4/2RR	"	"	"	"	"
4/3RR	"	"	54.1	"	On Diaphragm N.I.C.
4/4RR	"	"	"	"	"
4/5RR	"	"	"	"	Mechanical Pipe Sleeve-Dwg.
4/6RR	"	"	"	"	"
5/IRR	253	10"	54	443362	"
5/2RR	"	"	"	"	Mechanical Pipe Sleeve-Dwg.
5/3RR	"	"	"	"	"
5/4RR	"	"	"	"	"
5/5RR	"	"	"	"	"
5/6RR	"	"	162	"	"
5/7RR	"	"	"	"	"
6/IRR	254	10"	54	443365	"
6/2RR	"	"	"	"	Mechanical Pipe Sleeve-Dwg.
6/3RR	"	"	"	443364	"
6/4RR	"	"	"	443365	"
6/5RR	"	"	"	"	"
6/6RR	"	"	162	"	"
6/7RR	"	"	"	"	"
6/8RR	"	"	"	"	"
7/IRR	255	10"	162	443369	"
7/2RR	"	"	"	"	"
7/3RR	"	"	54.1	"	On Diaphragm N.I.C.
7/4RR	"	"	"	"	"
7/5RR	"	"	"	"	"
7/6RR	"	"	"	443368	Mechanical Pipe Sleeve-Dwg.
7/7RR	"	"	"	"	"
7/8RR	"	"	"	"	"
11/IRR	238	6"	57.1	443367	"
11/2RR	"	"	"	"	"
11/3RR	"	"	"	"	"
12/IRR	235	6"	57.1	443362	"
12/2RR	"	"	"	"	"
13/IRR	236	6"	57.1	443365	"
13/2RR	"	"	"	"	On Diaphragm N.I.C.
13/3RR	"	"	"	"	"
14/IRR	14	4"	27.9	443377	*abandoned per DC2-EC-40053 RO
14/2RR	"	"	"	"	Completely removed per DC2-EC-40053 RO
15/IRR	13	4"	27.9	443377	*abandoned per DC2-EC-40053 RO
15/2RR	"	"	"	"	Completely removed per DC2-EC-40053 RO
15/3RR	"	"	"	"	"
16/IRR	50	3"	14.62	443363	"
17/IRR	246	"	"	443369/443378	"
18/IRR	24	3"	14.62	443363	"
18/3RR	"	"	"	"	"

- ### GENERAL NOTES
- Unless noted otherwise:
- All steel shall be ASTM A-36.
 - All connections to be full penetration butt weld.
 - All bolts and anchor rods shall be ASTM A-490 with heavy hex nuts unless noted otherwise. No welding is permitted on bolts, rods, or nuts.
 - Welded studs shall be $7/8" \phi \times 8\frac{1}{2}"$.
 - Use template for location of anchor rods for two or four legs restraint. Template location tolerance $T_4 = 1/4"$.
 - Embedded steel - Spec. 8881.
Non-embedded steel - Spec. 8833XR.
 - Provide shims @ legs, if needed, to obtain flush base @ to bearing @ connections.
 - All stiffeners shall have the same thickness as the respective member flanges, and be full penet butt welded to the web & flange they are attached to.
 - For shim pack and corner details, splices, and member sizes, see dwg. 443361.
 - For embedment details and installation procedures of insert or anchor rod with respect to working point see dwg. 443360.
 - All closed sections shall have $1/2" \phi$ vents at the lowest point.
 - For working points at El. 94'-0" see dwg. 443302.
 - All frames shall be shop assembled as reqd. to verify fit of bolted connections.
 - Do not scale from restraint drawings.
 - Provide $1/2" \phi$ drain holes where reqd.
 - *Do not remove restraint frames without prior approval from PG&E Mechanical Engineering.

- ### REFERENCE DRAWINGS
- Concrete Pedestals For Equipment Supports 443302
 - Pipe Rupture Restraints Details - Sh.No.1 443361
 - " " " " Sh.No.2 443362
 - " " " " Sh.No.3 443363
 - " " " " Sh.No.4 443364
 - " " " " Sh.No.5 443365
 - " " " " Sh.No.6 443366
 - " " " " Sh.No.7 443367
 - " " " " Sh.No.8 443368
 - " " " " Sh.No.9 443369
 - " " " " Sh.No.10 443377
 - " " " " Sh.No.11 443378
 - Pipe Rupture Restraints Embedments 443360

REV. 3 & ON SEE DWG. 063618 FOR APPROVER'S STAMP.



RM IN-EXED REV. 3

GROUP	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	NO.	DATE	DESCRIPTION	GM/SPEC	BY	CH	RESP. ENG.	SUPV. ENG.	NO.	DATE	DESCRIPTION	GM/SPEC	BY	CH	RESP. ENG.	SUPV. ENG.	NO.	DATE	DESCRIPTION	GM/SPEC	BY	CH	RESP. ENG.	SUPV. ENG.	
MECH.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.																									
ELEC.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.																									
CIVIL	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.																									
ARCH.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.	DESIGN	ENG.																									

APPROVED BY: GM 169972, SUPV. AVASHIROV, DESGN. S. LINDA, DR. F. TIER, CH. J. SHATTNER, O.K. R. HARRIS, DATE 1-20-72, SHEET 178=1 FT.

UNIT 2: PIPE RUPTURE RESTRAINTS, PLAN BELOW EL. 120, CONTAINMENT STRUCTURE AREA F & G

DIABLO CANYON, DEPARTMENT OF ENGINEERING, PACIFIC GAS AND ELECTRIC COMPANY, SAN FRANCISCO, CALIFORNIA

DRAWING LIST: 060940, SUPERSEDED BY, SHEET NO. 443359, SHEETS