DRAWING NUMBER

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DRAWING NUMBER 9321-F-53533

DRAWING NUMBER UE&C

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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

TITLE

UP(+Y) W(-Z) N(+X) S(-X) E(+Z) DN(-Y)

PIPE RESTRAINT & SUPPORT LEGEND

ALL RESTRAINTS & SUPPORTS WILL BE DESIGNATED AS FOLLOWS:

A B C - D - 1 2 3 - Z

- SYSTEM DESIGNATION FROM PIPING FAB. SPEC. NO. 9321-05-248-73
- BASIC FUNCTION
  - HANGER OR SUPPORT — H
  - ANCHOR — A
  - SEISMIC RESTRAINT — R
  - THRUST BLOCK — T
- SUPPORT NO.
- DETAILED DESCRIPTION OF FUNCTION

SUPPORT	UNRESTRICTED	S
"	"U" BOLTED TIGHT	U
"	"U" " LOOSE - 1/16" CLEAR SIDES & TOP *	G
"	GUIDED - 1/16" CLEAR SIDES & TOP	R
HANGER -	PLAIN RIGID ROD	W
"	WITH ROCKER WASHER	V
"	SPRING VARIABLE	C
"	SPRING CONSTANT	F
ANCHOR -	FIXED	P
"	PARTIAL	R
SEISMIC	RESTRAINT - RIGID *	G
"	" GUIDED - 1/16" CLEAR SIDES & TOP	H
"	" HYDRAULIC	

* MAXIMUM

CONT. ON DWG. #55783

CONT. ON DWG. #55793

PLAN "C"

PLAN "A"

SUPP. #527, #528, #529, #530, #532, #533, #408-1

N 59+45.5 (5.1), N 59+75.17 (3.3), N 59+65.17, N 59+47.50 (BB)

E 14+88.58 (FF), E 15+9.50 (DD), E 15+38.75 (AA), E 15+20.25

SLEEVE Lc, SLEEVE Lb, SLEEVE La, SLEEVE Ld, SLEEVE Le

OUTSIDE CONTAINMENT BLDG.

OUTSIDE WALL OF CONTAINMENT BLDG.

℄ EL. 56'-6", ℄ EL. 53'-6", ℄ EL. 52'-6"

TOP OF CONCRETE EL. 51'-0"

N 59+47.7, E 14+82.9

SWN-41-(9) 470#, SWN-41-(3) 470#, SWN-41-(4) 470#, SWN-41-(2) 410#, SWN-41-5 470#

SWN-43-5 DRAIN (TYP.), SWN-42-5

SWN-H&R-527-U SEE PLAN "C"

SWN-H&R-528-U SEE PLAN "C"

SWN-H&R-529-U SEE PLAN "C" & DETAIL

SWN-H&R-530-U SEE PLAN "A" & DETAIL

SWN-H&R-533-U

SWN-H&R-408-U SEE PLAN "A"

SWN-R-532-R SEE PLAN "A"

SWN-10-(3) 620#, SWN-10-(2) 620#, SWN-38 620# INCL. FLGS.

18"-408, 14"-408, 24"-409, 24"-408, 24"-405, 20"-411 CONT. ON DWG. 55163

PLATF. EL. 54'-9"

FLR EL. 41'-0", FLR. EL. 43'-9", FLR. EL. 35'-0", EL. 32'-0", EL. 29'-0", EL. 12'-6", EL. 51'-0"

SEE TABLE SWN-H&R-525-U

SEE TABLE SWN-H&R-526-U

SWN-R-524-R SEE DETAIL

SWN-H&R-529-U

SWN-R-524-R

M/S-511-SWN-H&R-408-U 9321-F-52233

M/S-510-SWN-H&R-408-U 9321-F-52233

M/S-509-SWN-H&R-408-U 9321-F-52233

M/S-508-SWN-H&R-408-U 9321-F-52233

M/S-547-SWN-R-408 9321-F-53543

GRADE EL. AST. 18'-0"

FACE OF TUNNEL WALL

HATCH LINE

932LF27003, 9321-F-27013

U-BOLT INSTALLED IN A SEISMIC MANNER

18"℄ EL. 52'-6" 14"℄ 10"℄ EL. 50'-0"

COLUMN OR WALL

FLR. EL. 41'-0"

SWN-H&R-530-U

REFERENCE DWGS.

9321-F-27003	SERVICE WATER PIPING IN YARD AREA - PLANS - SHT. No. 1
9321-F-27013	" " " " " " " " 2
9321-F-27023	" " " " " " SECTIONS
9321-F-27223	FLOW DIAG. SERVICE WATER SYS.
9321-F-55163	LINE 411
9321-F-53543	" 409
9321-F-55113	LINES 405, 410 & 509
9321-F-26803	VALVE OPERATOR EXTENSIONS TO SHIELDED PLATF. IN PIPE TRENCH
9321-F-27163-3	CONTAINMENT BLDG. ARRG'T. OF PIPING PENETRATIONS

SUPPORT #525

LINE #	D.WT.	V. SEIS	V. THER	H. SEIS	H. THER
408	3381	601	—	573(Z)	—
409	3339	486	—	815	—

SUPPORT #526

LINE #	D.WT.	V. SEIS	V. THER.	H. SEIS	H. THER
408	2634	251	—	924(Z)	—
409	2913	643	—	1377	—

Docket # 50-286, Accession # 5302110001, Date 11/25/93 of Ltr, Regulatory Docket File

UNCONTROLLED DRAWING. Comp. Date 1/26/93. CAUTION — Extended use of this drawing copy may result in its inaccuracy due to subsequent design changes and drawing updates.

* = IMPOSSIBLE TO VERIFY

SITE ITEM # 28 12/18/80

SI APERTURE CARD

REV. NO.	DATE	DESCRIPTION	ENGR	SUP ENG
6	2-11-80	AS PER LINE WALK.		
5	9/1/76	FINAL ISSUE ADDED "AS-BUILT" INFO		
4	1/29/73	REVISED LOCATION OF SUPTS. 382 & 526 PER "AS-BUILT"		
3	3/15/73	LOAD TAGS CREATED, 18"x10" REQ'D WAS 14"x10"		
7	7/24/91	REVISED DWG. TO INDICATE LATEST VALVE NOS.		
1	5/21	FIRST ISSUE FOR STRESSING		

ENGINEER John R. Hettrick, STATE REG M.Y. NO. 43360, UNITED ENGINEERS & CONSTRUCTORS INC.

WESTINGHOUSE ELECTRIC CORPORATION

PIPE TRENCH AREA

RESTRAINT & SUPPORT DESIGN

LINES 408, 11a, 11b, 11c, 11d & 11e

FOR

CONSOLIDATED EDISON COMPANY

INDIAN POINT GENERATING STATION UNIT NO. 3

U.E.&C. DWG. NO. 9321-F-53533-7

CON. ED. CO. DWG. NO. A205253

9302180107