

Pacific Gas and Electric Company

77 Beale Street
San Francisco, CA 94106
415/972-7000
TWX 910 372-6587

James D Shiffer
Vice President
Nuclear Power Generation

June 9, 1989

PG&E Letter No. DCL-89-158



U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Re: Docket No. 50-275, OL-DPR-80
Docket No. 50-323, OL-DPR-82
Diablo Canyon Units 1 and 2
Additional Information Regarding Installation of Expansion
Anchors on Safety-Related Walls and Slabs

Gentlemen:

As a result of the NRC Staff's review of PG&E letter DCL-88-127, dated May 11, 1988, the NRC Staff requested that PG&E sample safety-related walls and slabs to determine the extent and proximity of anchors located back-to-back in thin walls and slabs. PG&E has completed its sample and review and the results are provided in the enclosure.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,

A handwritten signature in black ink, appearing to read "J. D. Shiffer". It is written in a cursive style with a large, stylized initial "J" and "D".

J. D. Shiffer

cc: J. B. Martin
M. M. Mendonca
P. P. Narbut
H. Rood
B. H. Vogler
CPUC
Diablo Distribution
INPO

Enclosure

2734S/0069K/DJH/1810

8906140286

70pp

Att'l Drawings
To: Reg Files

8906140286 70pp



ENCLOSURE

EXPANSION ANCHORS LOCATED BACK-TO-BACK ON
SAFETY-RELATED WALLS AND SLABS

As a result of the NRC Staff's review of PG&E Letter DCL-88-127, "Request for Additional Information Hilti Kwik-Bolts," dated May 11, 1988, the Staff requested that PG&E review safety-related structures at DCPP and determine which walls and slabs, with thicknesses equal to or less than 12 inches, contained expansion anchors on both faces. Based on PG&E's review of drawings for safety-related structures (containment, auxiliary, and fuel handling buildings), 57 areas were identified. These areas are listed in Table 1. A walkdown of these 57 areas identified 18 areas with expansion anchors on both faces of the walls and slabs. These areas have been circled in Table 1. These walkdowns did not include areas inaccessible due to high radiation levels, space limitations, or limited access.

The NRC Staff requested that PG&E randomly sample 30 percent of the 18 areas described above and map the locations of the expansion anchors on both faces to determine the potential for overlapping anchors spaced closer than 1-1/2 anchor diameters. In response to this request, PG&E has completed the following:

- Six areas were randomly selected from the 18 areas above. The area numbers are 26, 33, 37, 42, 43, and 51. The locations of these six areas are shown on the attached Sketches Nos. 1-4.
- Plant walkdowns were performed for the walls and slabs in these areas to map the locations of the expansion anchors.
- The following 29 sketches show the locations of the expansion anchors on both faces of the walls for the above six areas:

Wall No.	Sketch No.
26A	SK-26A-1
26B	SK-26B-1
33A	SK-33A-1
33B	SK-33B-1
37	SK-37-1 thru SK-37-4
42A	SK-42A-1 & SK-42A-2
42B	SK-42B-1 & SK-42B-2
42C	SK-42C-1 & SK-42C-2
42D	SK-42D-1 & SK-42D-2
43A	SK-43A-1 & SK-43A-2
43B	SK-43B-1 & SK-43B-2
43C	SK-43C-1 & SK-43C-2
43D	SK-43D-1
51	SK-51-1 thru SK-51-6



Criteria

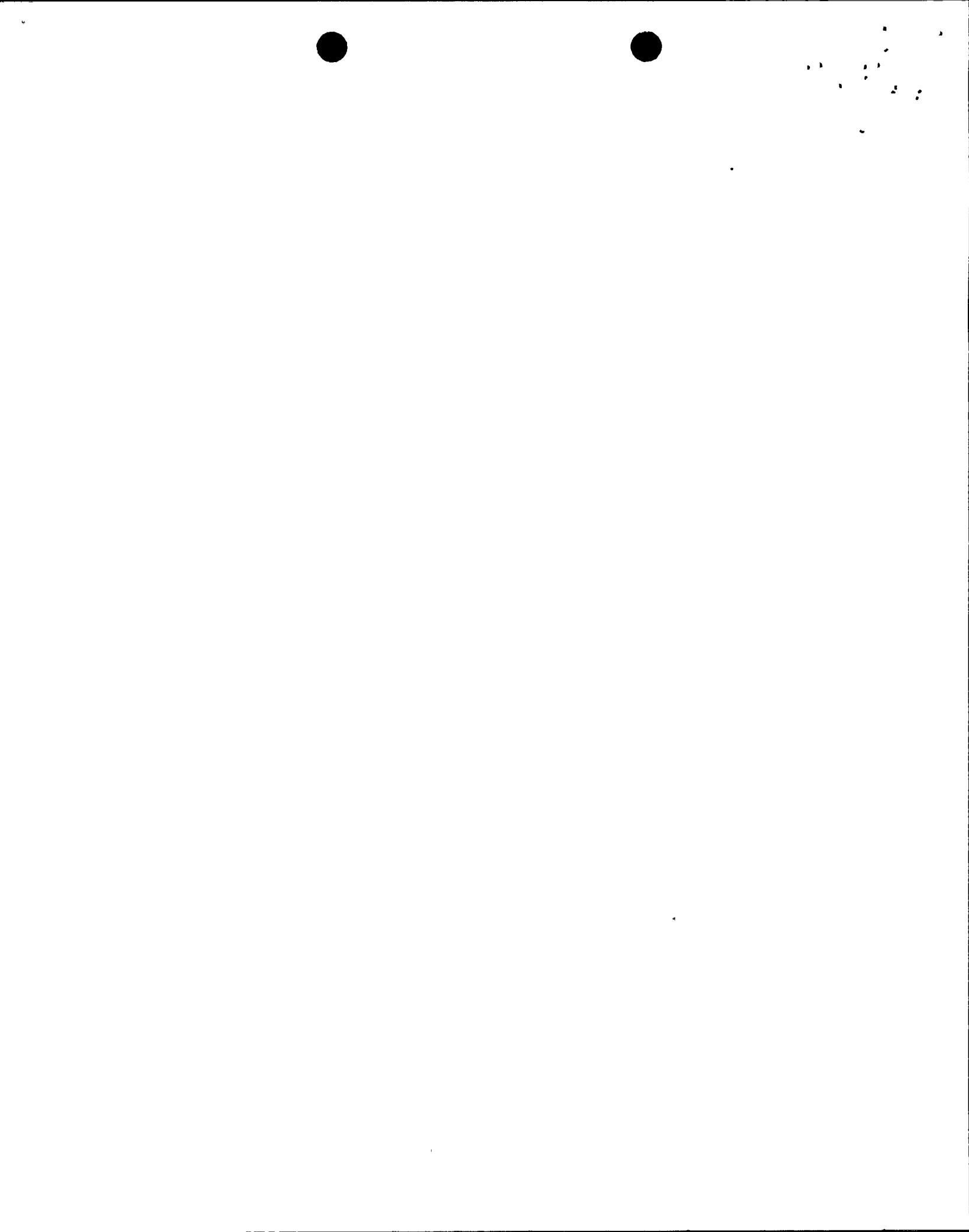
The following criteria were used to determine if back-to-back expansion anchors in close proximity existed at DCPP:

- The sum of the length of the embedments for back-to-back anchors would have to exceed 12 inches in order for the two anchors to overlap, since the specified concrete thickness in each of the six randomly selected areas is 12 inches.
- The standard specified embedment for a 3/4 inch diameter expansion anchor is 3-3/8 inches. The maximum specified embedment for a 3/4 inch diameter expansion anchor is 9 inches. The maximum expansion anchor diameter is 3/4 inches.
- The standard specified embedment of a 1/2 inch diameter expansion anchor is 2-1/4 inches. The maximum specified embedment for a 1/2 inch diameter expansion anchor is 6 inches. The majority of the expansion anchors at DCPP are 1/2 inches in diameter or less.

Results

Using the above criteria, PG&E performed a review of expansion anchors in the six randomly selected areas. Based on this review, PG&E concluded that back-to-back expansion anchors with centerline-to-centerline spacings less than 1-1/2 diameters are very limited. This review revealed the following:

- For expansion anchors greater than 1/2 inch diameter, there are no back-to-back expansion anchors having centerline-to-centerline spacings less than 1-1/2 diameters.
- For a combination of two back-to-back expansion anchors, one greater than 1/2 inch diameter and one equal to 1/2 inch diameter, there are no back-to-back expansion anchors having centerline-to-centerline spacings less than 1-1/2 diameters.
- For 1/2 inch diameter expansion anchors, there is only one pair of back-to-back expansion anchors having centerline-to-centerline spacing less than 1-1/2 diameters. These two expansion anchors are identified as Anchor "A" and Anchor "B" on Sketch No. SK-37-2 and SK-37-4, respectively. It is conservatively assumed that each anchor has the maximum specified embedment of 6 inches. Using the specified wall thickness of 12 inches, it was determined that these two anchors do not overlap. In addition, Anchor "A" is abandoned, i.e., it does not support any load. Anchor "B" is one of four anchors used for an electrical conduit support. These four anchors support a 3/4 inch diameter conduit. The factor of safety for these four anchors is very large. Therefore, any potential interaction between the two back-to-back anchors would not adversely affect the function of the conduit support.



- For expansion anchors less than 1/2" diameter, since the maximum specified embedment does not exceed half the specified concrete thickness, back-to-back expansion anchors do not overlap. Therefore, no evaluation is required.

Conclusion

Back-to-back expansion anchors with centerline-to-centerline spacings less than 1-1/2 diameters and embedment depths greater than half the concrete thickness are very limited. For the six randomly selected areas, there are approximately 980 expansion anchors shown on the attached 29 sketches. Of these 980 anchors, there is only one pair (Anchor "A" and "B") that have a small overlap if the actual embedment of both anchors are conservatively assumed to be the maximum specified embedment. This condition has been evaluated and has been shown to have no significant effect on the intended function of these two anchors.

Therefore, from the results of the sample testing it can be concluded that back-to-back expansion anchors that overlap in thin walls and slabs are rarely found (estimated probability less than 1 percent) at Diablo Canyon. In the one case where such a condition exists, evaluation showed that existing design margins can accommodate the design and functional requirements of those anchors.

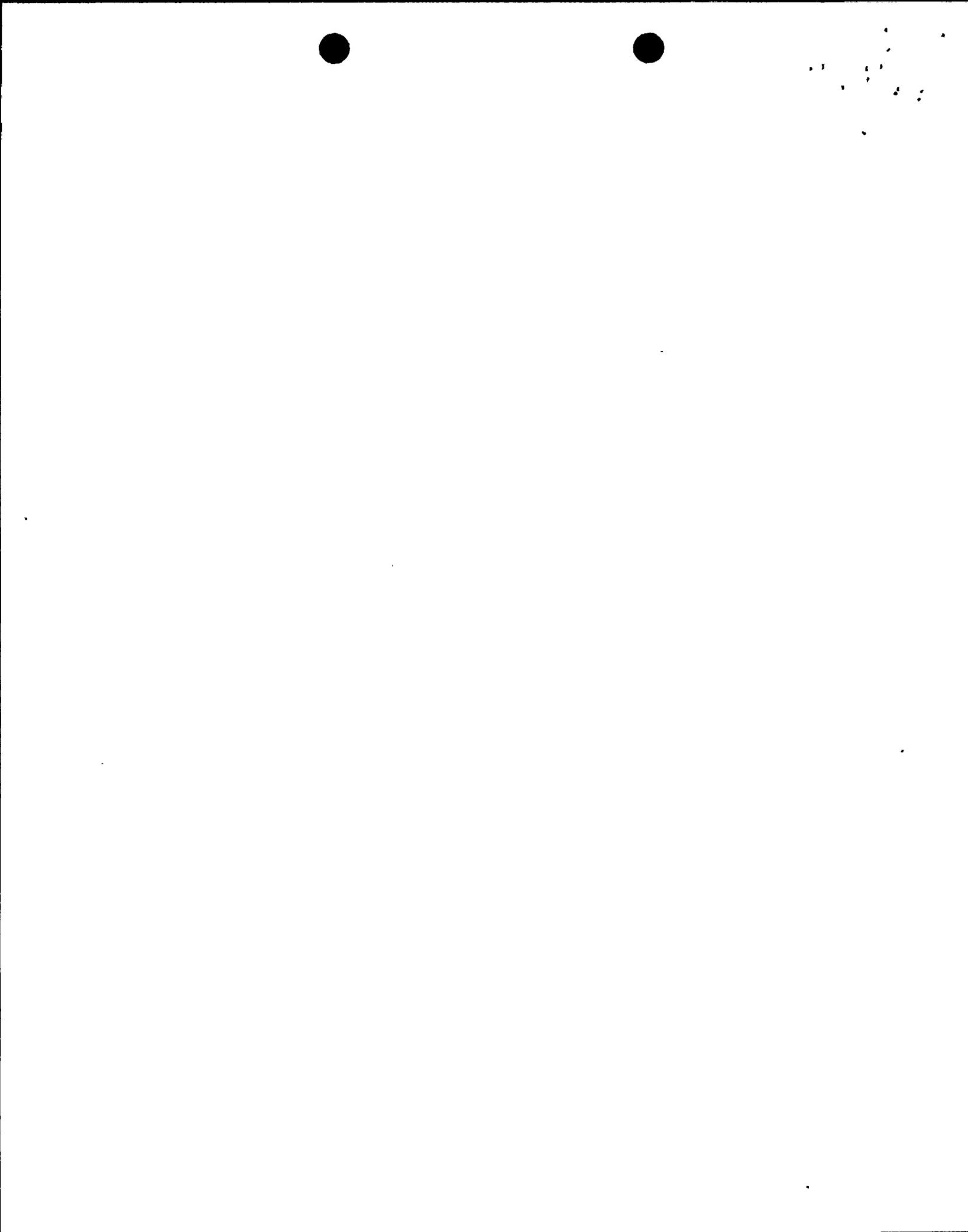


TABLE 1

List of Walls and Slabs with Thickness = 12 Inches or Less

<u>Sketch No.</u>	<u>Bldg.</u>	<u>Elevation</u>	<u>Area No.</u>	<u>Description</u>
1	Auxiliary, Unit 1	60' & 64'	1	Walls around Radwaste & Condensate Filters
1	Auxiliary, Unit 1	60' & 64'	2*	Walls around RHR sump pumps (4 areas)
1	Auxiliary, Unit 1	60' & 64'	3	Walls for Elevator No. 2
2	Auxiliary, Unit 1	73'	4	Walls between Containment Spray Pumps (2 walls)
2	Auxiliary, Unit 1	73'	5	Walls between CCW Pumps (4 walls)
2	Auxiliary, Unit 1	73'	6	Walls for Elevator No. 2
3	Auxiliary, Unit 1	85'	7	Walls for Elevator No. 2
3	Auxiliary, Unit 1	85'	8	Walls for Stair No. 2 H, Air Ducts & Janitor Closet
3	Auxiliary, Unit 1	85'	9	Walls & Slab for Pull Boxes (Access requires removal of heavy steel hatch covers)
3	Auxiliary, Unit 1	85'	10	Walls for Elevator No. 1 & Stair No. 1H
4	Auxiliary, Unit 1	91' & 100'	11	Walls for Roughing Filters & Heating Coil (2 walls)
4	Auxiliary, Unit 1	91' & 100	12	Walls for Roughing & HEPA Filters (3 walls)
4	Auxiliary, Unit 1	91' & 100'	13	Walls for Stair No. 1J
4	Auxiliary, Unit 1	91' & 100'	14*	Walls around Spent Fuel Pool Filters
4	Auxiliary, Unit 1	91' & 100'	15*	Walls & Slabs around CVCS Filters
4	Auxiliary, Unit 1	91' & 100'	16*	Walls & Slabs around Demineralizers

*Inaccessible - Radiation Zone IV

2734S/0069K

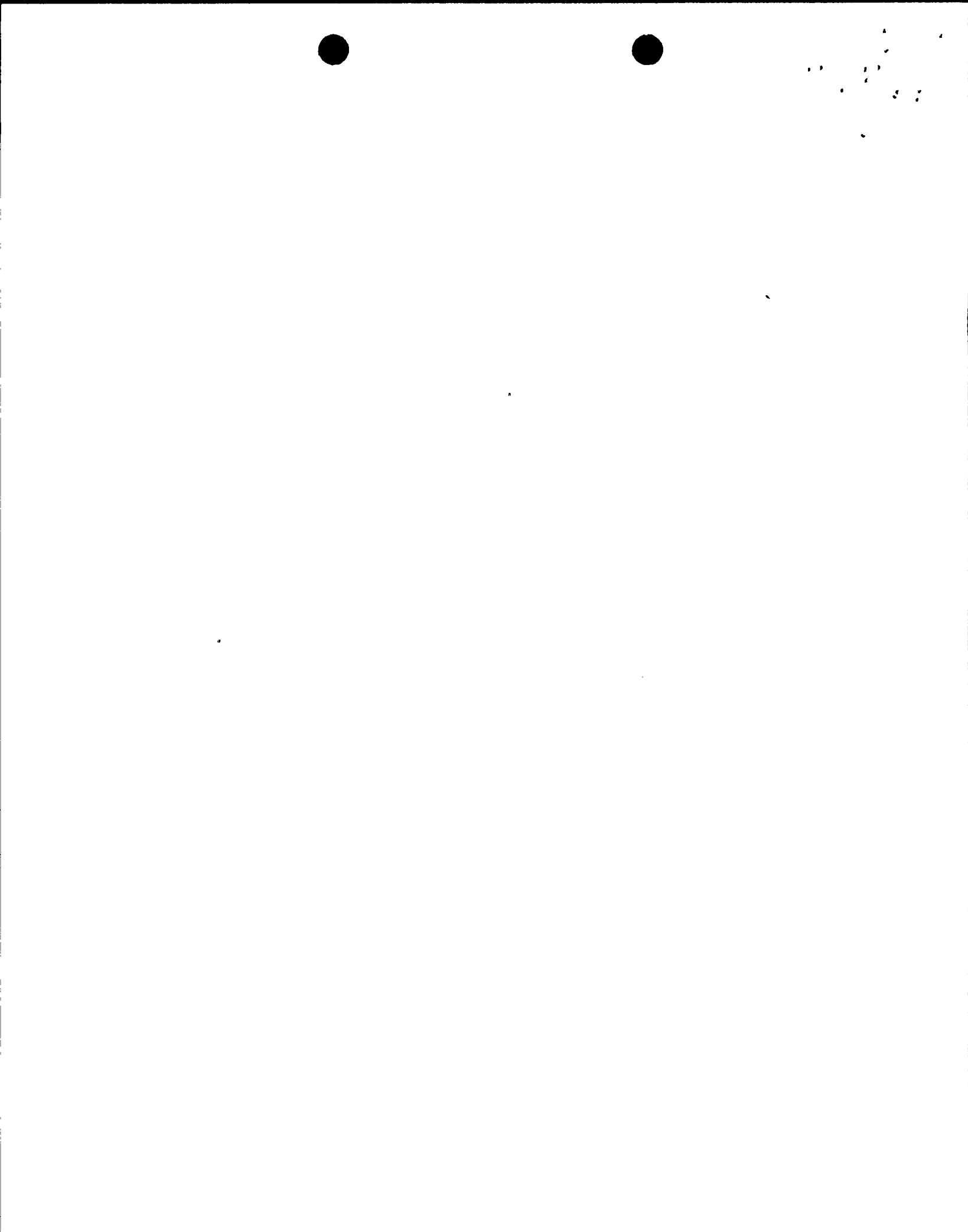


TABLE 1

<u>Sketch No.</u>	<u>Bldg.</u>	<u>Elevation</u>	<u>Area No.</u>	<u>Description</u>
4	Auxiliary, Unit 1	91' & 100'	17	Walls for Elevator No. 2
4	Auxiliary, Unit 1	91' & 100'	18	Walls for Stair No. 2H & Air Ducts
4	Auxiliary, Unit 1	91' & 100'	19	Slab at El. 107' (Limited access to underside of slab)
4	Auxiliary, Unit 1	91' & 100'	20	Walls for Elevator No. 1 & Stair No. 1H
5	Auxiliary, Unit 1	115'	21	Walls for Roughing Filters & Heating Coul (2 walls)
5	Auxiliary, Unit 1	115'	22	Walls for Roughing & HEPA Filters (4 walls)
5	Auxiliary, Unit 1	115'	23	Wall for Stair No. 1J
5	Auxiliary, Unit 1	115'	24*	Walls at Condensate Demineralizers & Ion Exchangers
5	Auxiliary, Unit 1	115'	25	Walls for Elevator No. 2
5	Auxiliary, Unit 1	115'	26	Walls for Stair No. 2H & Air Ducts
5	Auxiliary, Unit 1	115'	27	Walls between Battery Racks (3 walls)
5	Auxiliary, Unit 1	115'	28	Walls for Elevator No. 1 & Stair No. 1H
6	Auxiliary, Unit 1	128'	29	Walls at Stair No. 2H & Air Ducts
6	Auxiliary, Unit 1	128'	30	Walls at Col. Line L (2 walls)
6	Auxiliary, Unit 1	128'	31	Walls at Elevator No. 1 & Stair No. 1H
7	Auxiliary, Unit 1	140'	32	Walls for Roughing Filters & Slab at El. 148'-0"

*Inaccessible - Radiation Zone IV

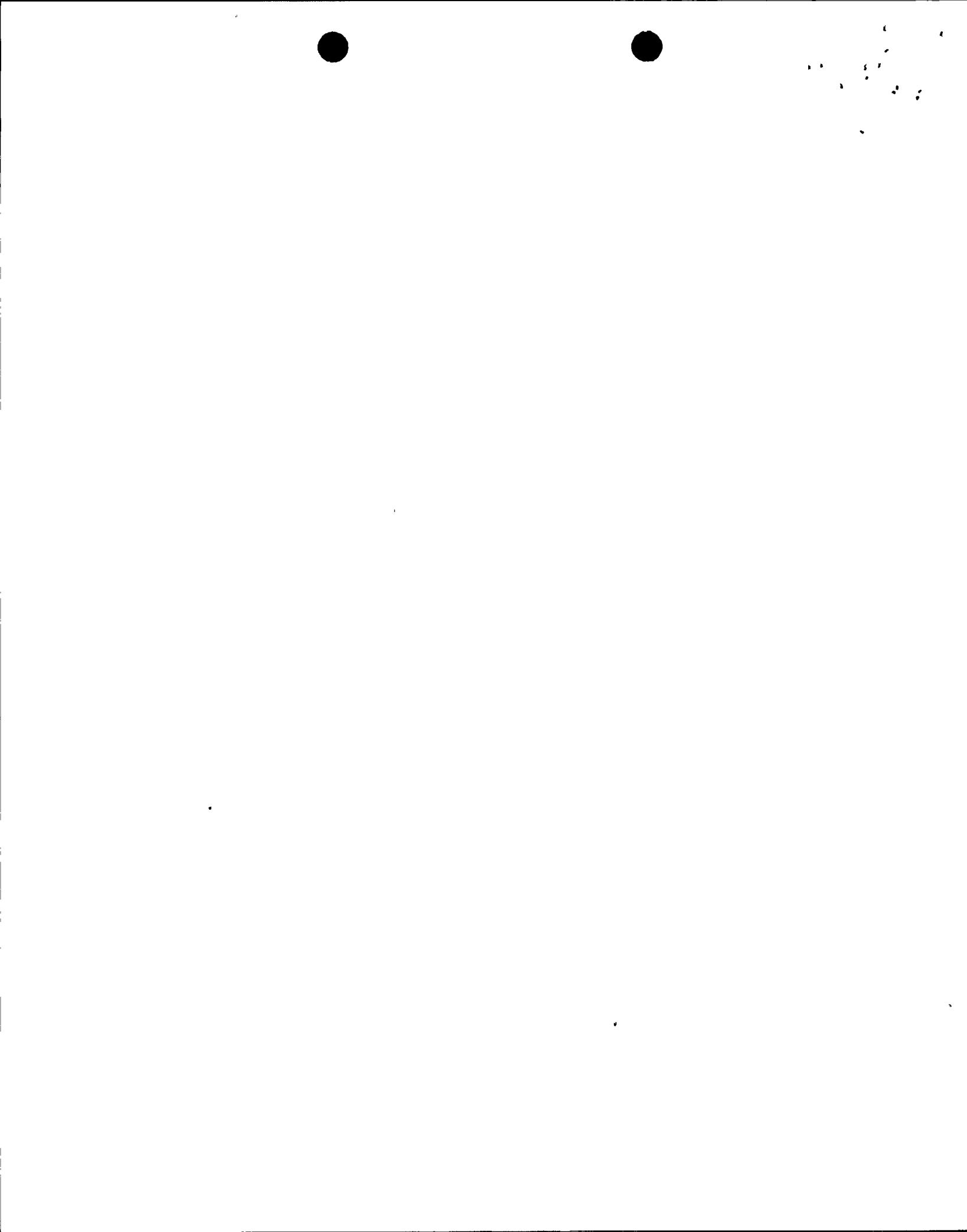


TABLE 1

<u>Sketch No.</u>	<u>Bldg.</u>	<u>Elevation</u>	<u>Area No.</u>	<u>Description</u>
7	Auxiliary, Unit 1	140'	(33)	Walls for Roughing Filters & Heating Coils (4 walls)
7	Auxiliary, Unit 1	140'	(34)	Walls for Supply Air Plenum
7	Auxiliary, Unit 1	140'	35	Walls for Elevator No. 2
7	Auxiliary, Unit 1	140'	36	Walls for Stair No. 2H & Air Ducts
7	Auxiliary, Unit 1	140'	(37)	Walls for Supply Air Plenum Room
7	Auxiliary, Unit 1	140'	(38)	Walls for Roughing Filters & Heating Coils
7	Auxiliary, Unit 1	140'	39	Walls for Elevator No. 1 & Stair No. 1H
8	Auxiliary, Unit 1	154'-6" & 163'-4"	40	Walls at Elevator No. 2 & Slab at El. 156'-8"
8	Auxiliary, Unit 1	154'-6" & 163'-4"	(41)	Walls at Air Ducts
8	Auxiliary, Unit 1	154'-6" & 163'-4"	(42)	Walls for Fan Rooms
8	Auxiliary, Unit 1	154'-6" & 163'-4"	(43)	Walls for Fan Rooms
9	Auxiliary, Unit 2	85'	44	Walls for Pull Boxes (Access requires removal of heavy steel hatch covers)
9	Auxiliary, Unit 2	91' & 100'	45*	Walls around Spent Fuel Pool Filters
9	Auxiliary, Unit 2	91' & 100'	46	Wall for Stair No. 1J-2
9	Auxiliary, Unit 2	91' & 100'	47	Walls for Roughing & HEPA Filters (2 walls)
9	Auxiliary, Unit 2	91' & 100'	(48)	Walls for Roughing Filters & Heating Coil (2 walls)

*Inaccessible - Radiation Zone IV

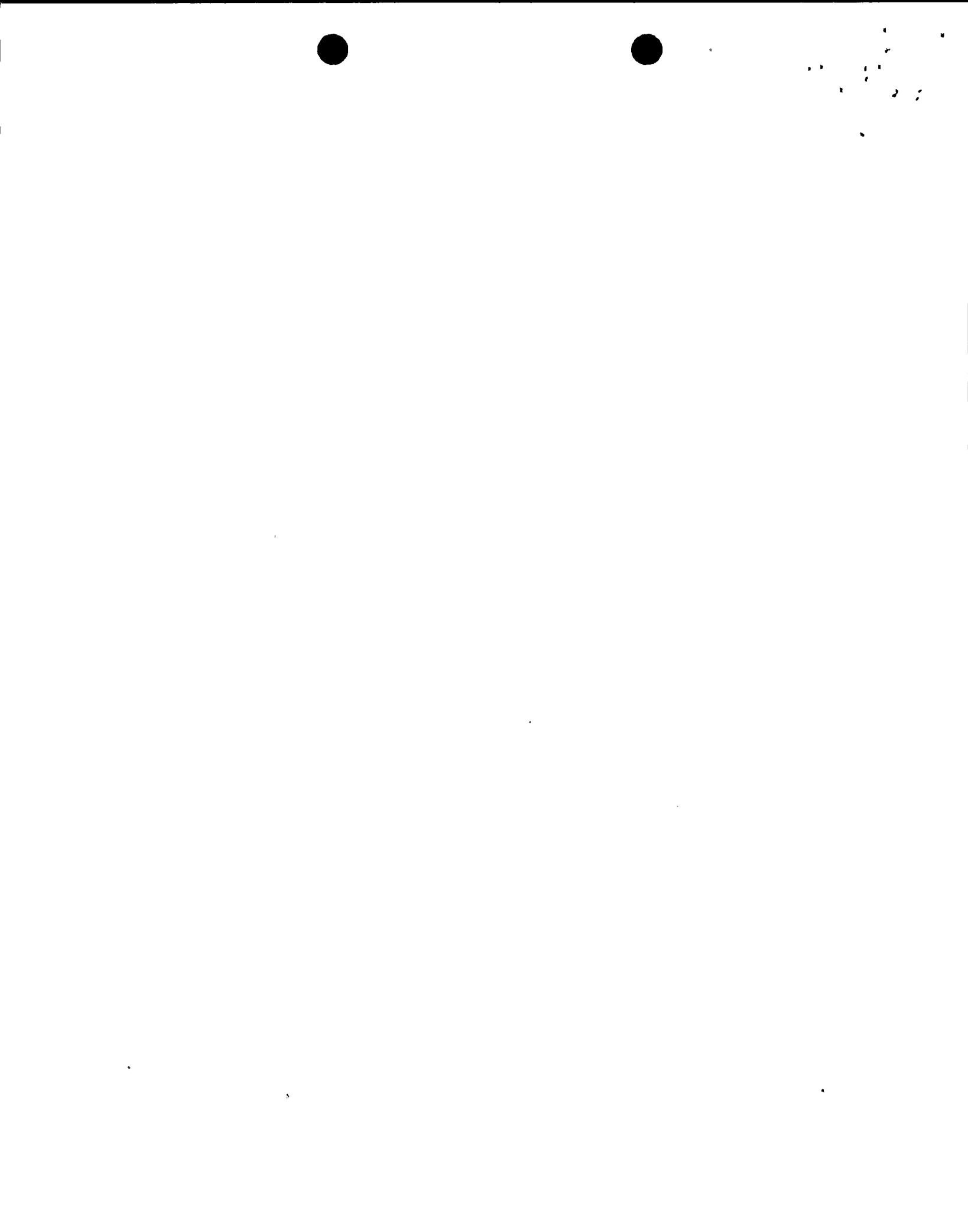
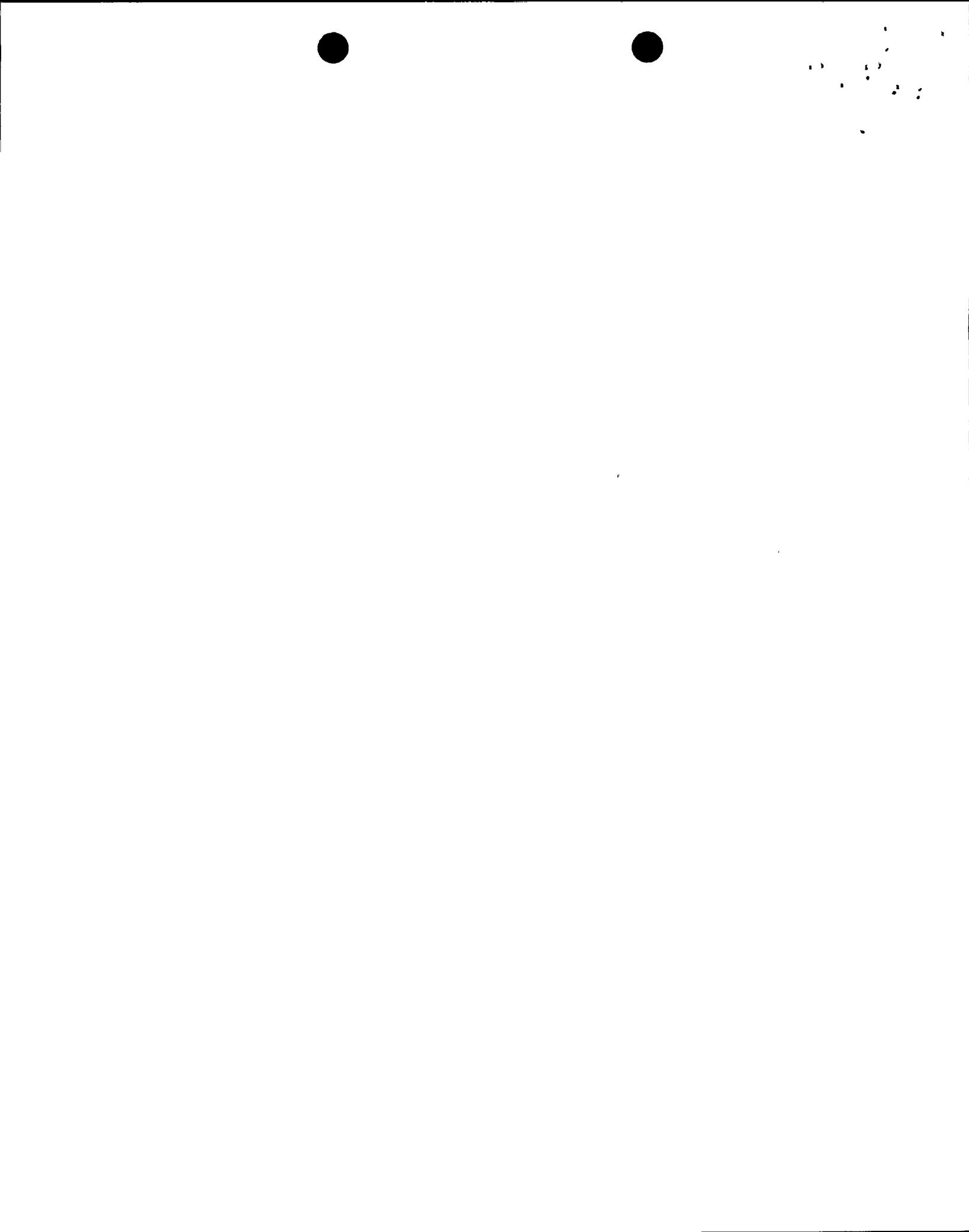
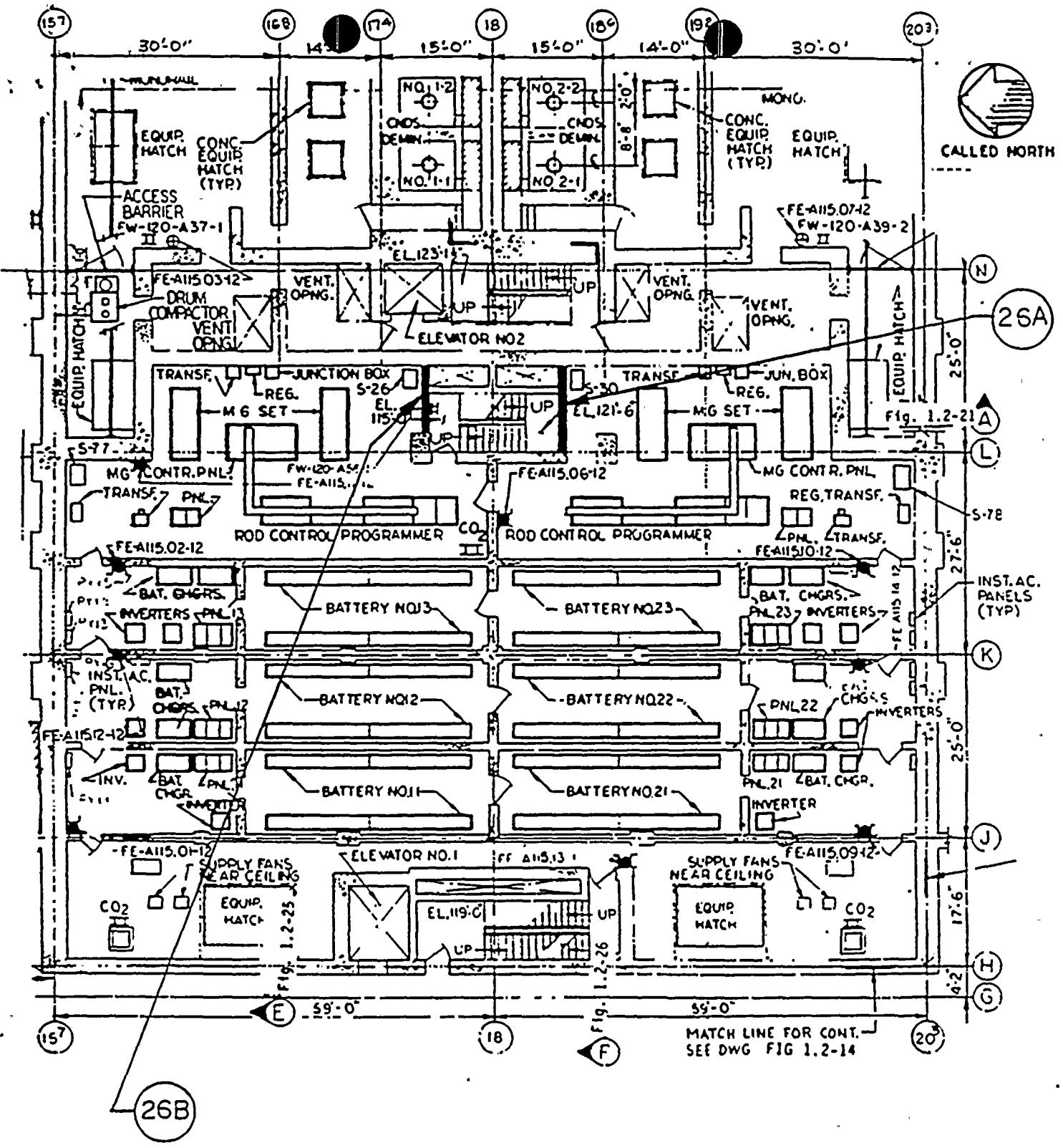


TABLE 1

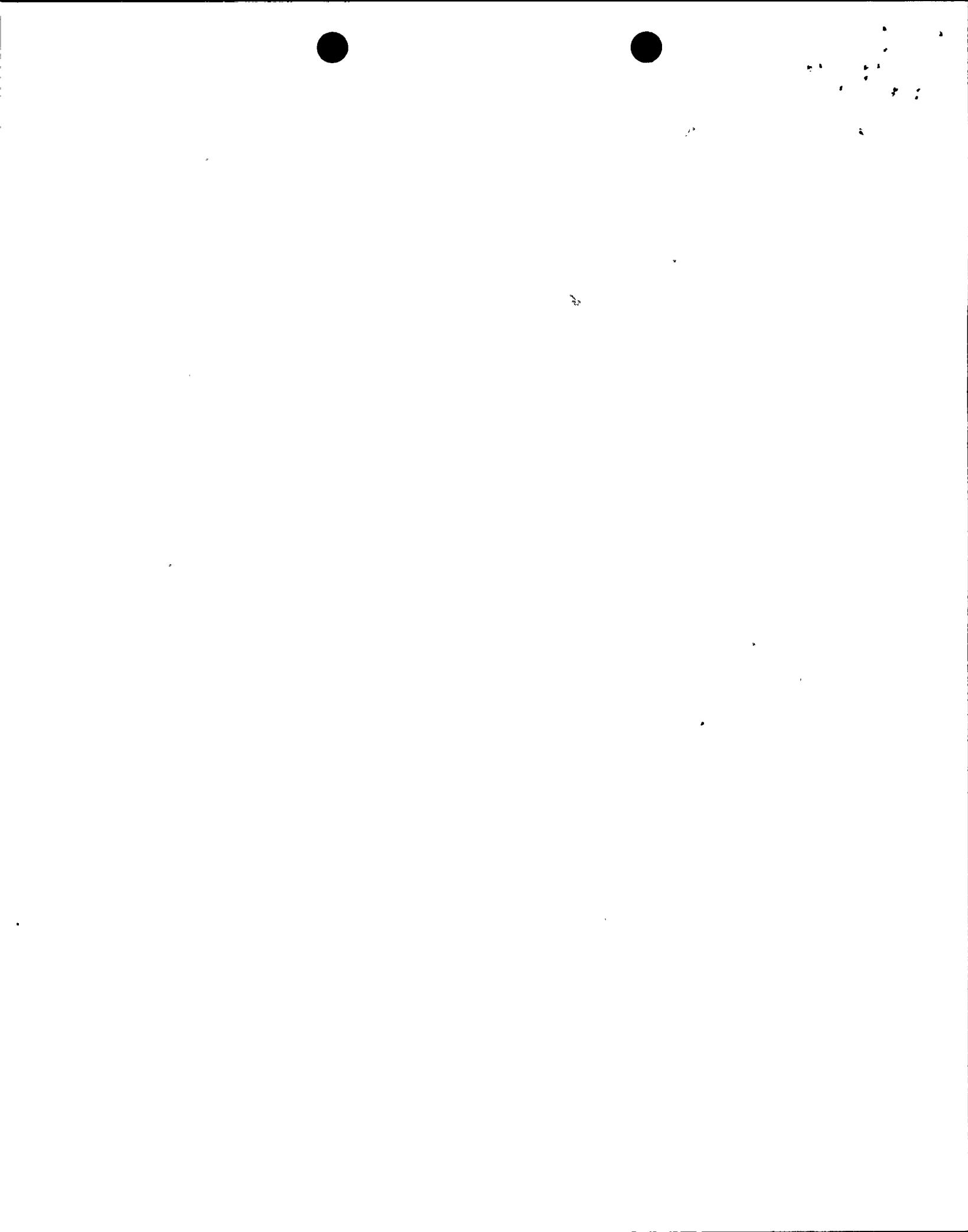
<u>Sketch No.</u>	<u>Bldg.</u>	<u>Elevation</u>	<u>Area No.</u>	<u>Description</u>
10	Auxiliary, Unit 2	115'	49	Walls for Roughing & HEPA Filters (4 walls)
10	Auxiliary, Unit 2	115'	50	Walls for Roughing Filter & Heating Coil (2 walls)
10	Auxiliary, Unit 2	140'	51	Walls for Roughing Filters & Slab at El. 148'-0"
4	Containment, Unit 1	91' & 100'	52*	Slab at El. 98'-0"
5	Containment, Unit 1	115'	53*	Slab at El. 130'-0"
7	Containment, Unit 1	140'	54*	Pressurizer Shield Wall
9	Containment, Unit 2	91' & 100'	55*	Slab at El. 98'-0"
10	Containment, Unit 2	115'	56*	Slab at El. 130'-0"
10	Containment, Unit 2	140'	57*	Pressurizer Shield Wall

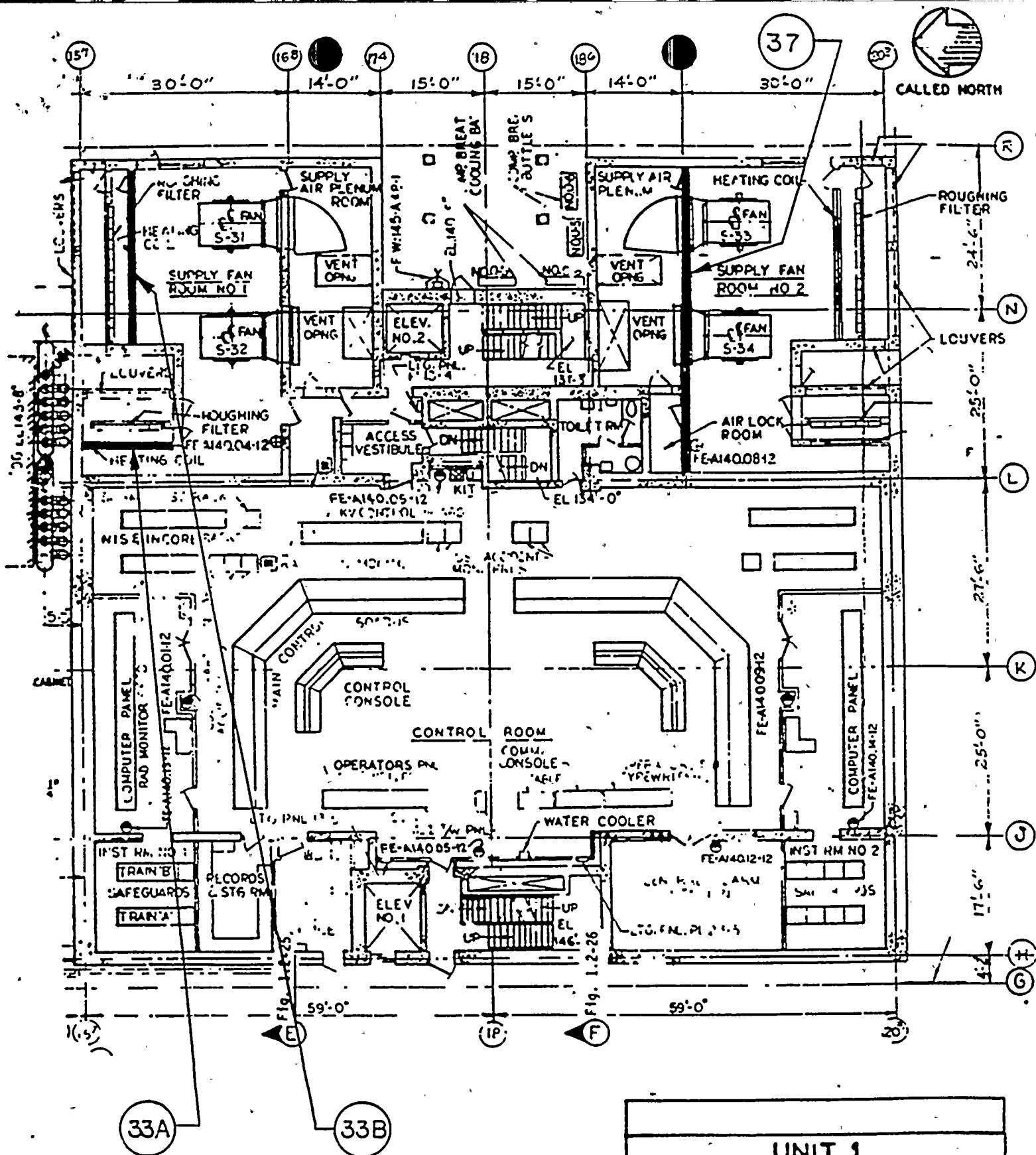
*Inaccessible - Radiation Zone IV



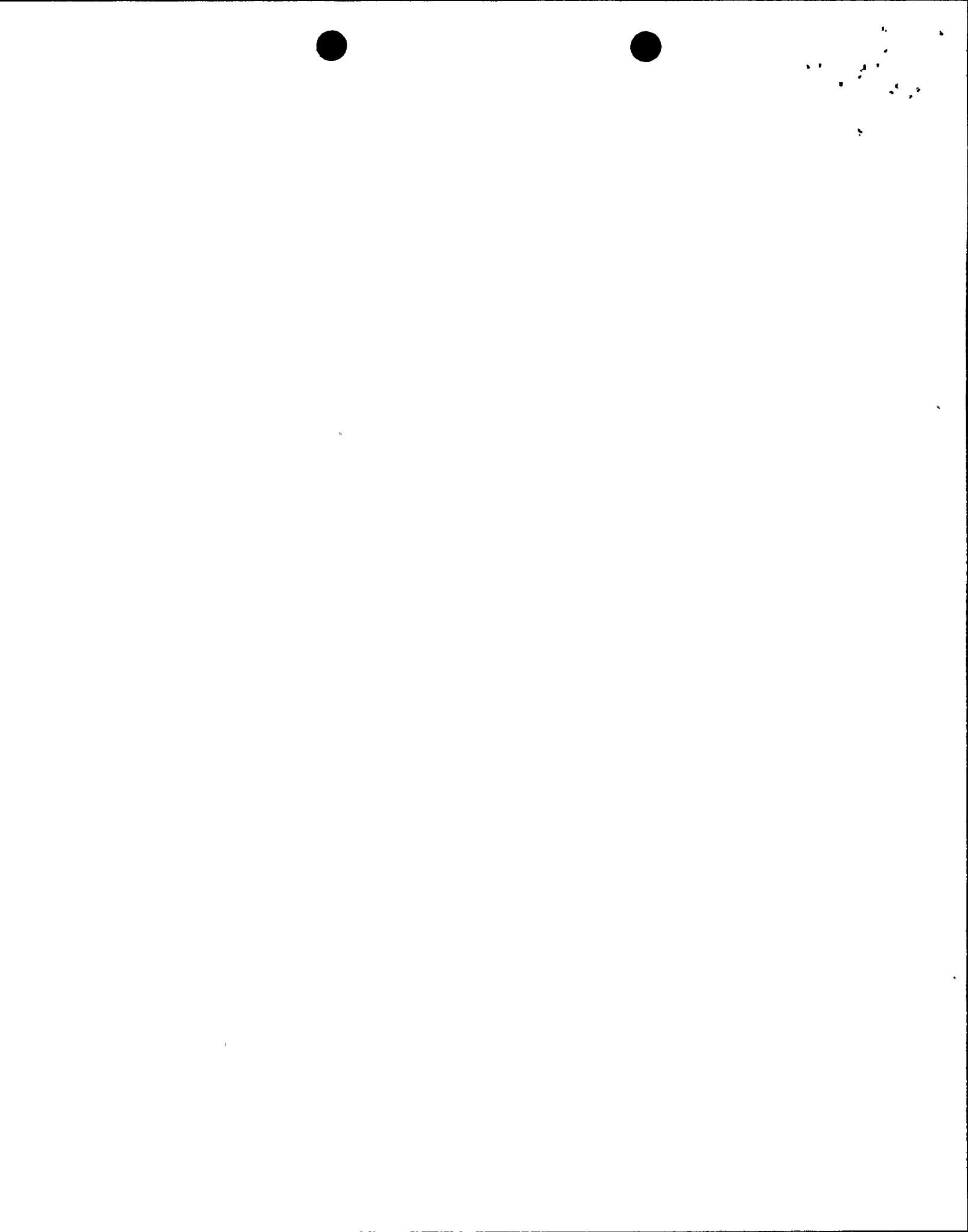


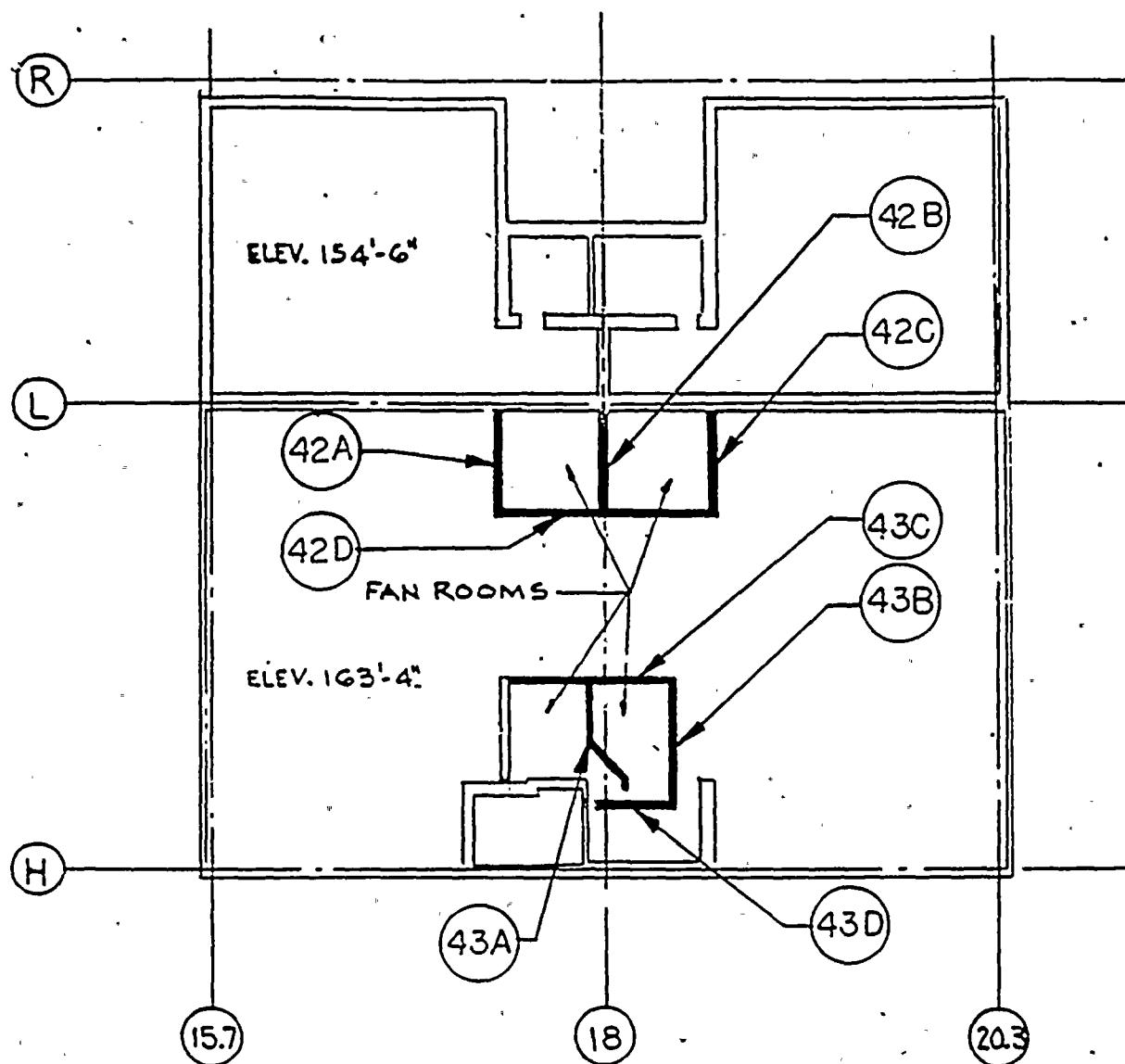
UNIT 1
DIABLO CANYON SITE
SKETCH #1
AUXILIARY BUILDING
PLAN AT ELEV. 115 FT.





**UNIT 1
DIABLO CANYON SITE
SKETCH #2
AUXILIARY BUILDING
PLAN AT ELEV. 140FT.**

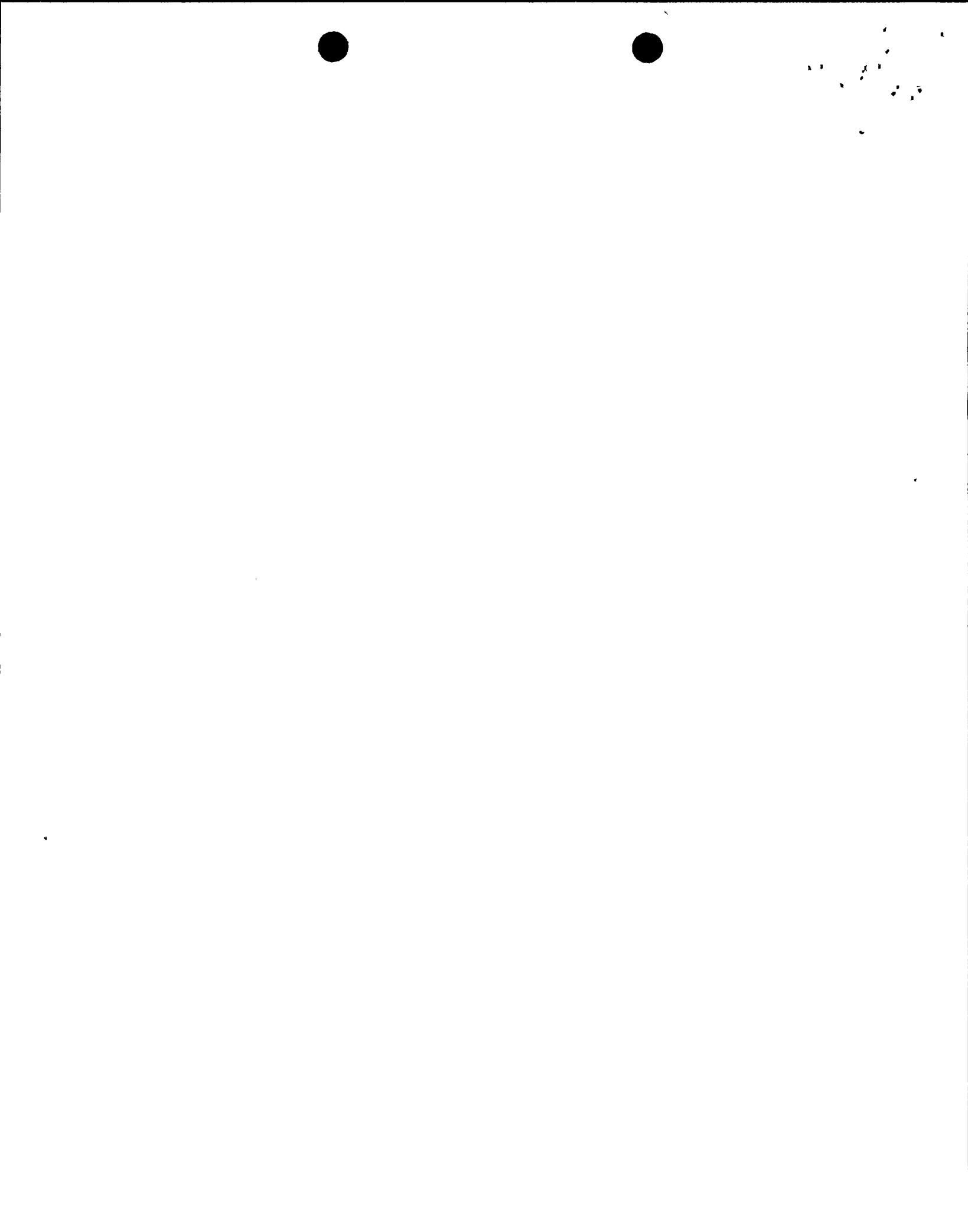


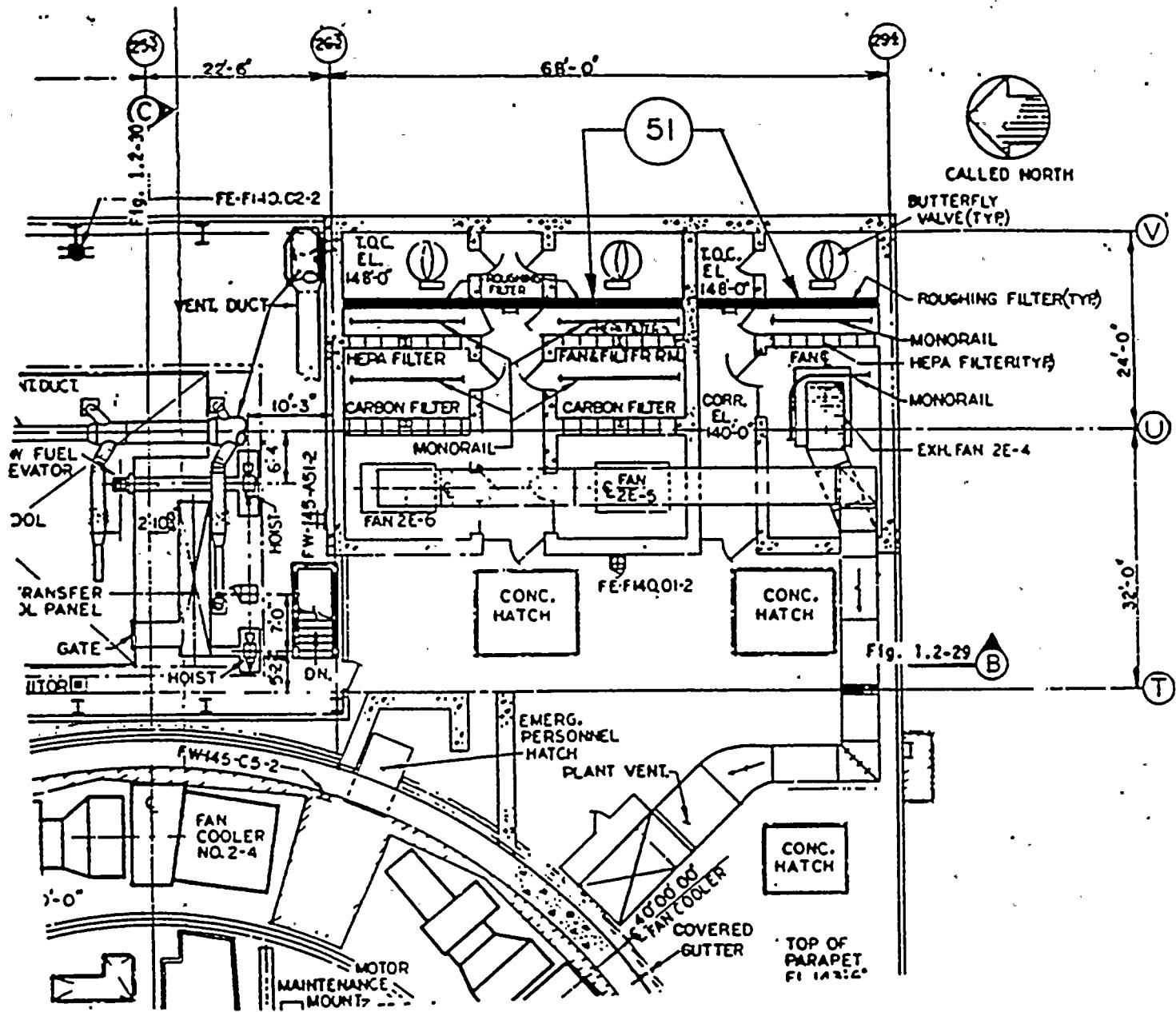


PLAN

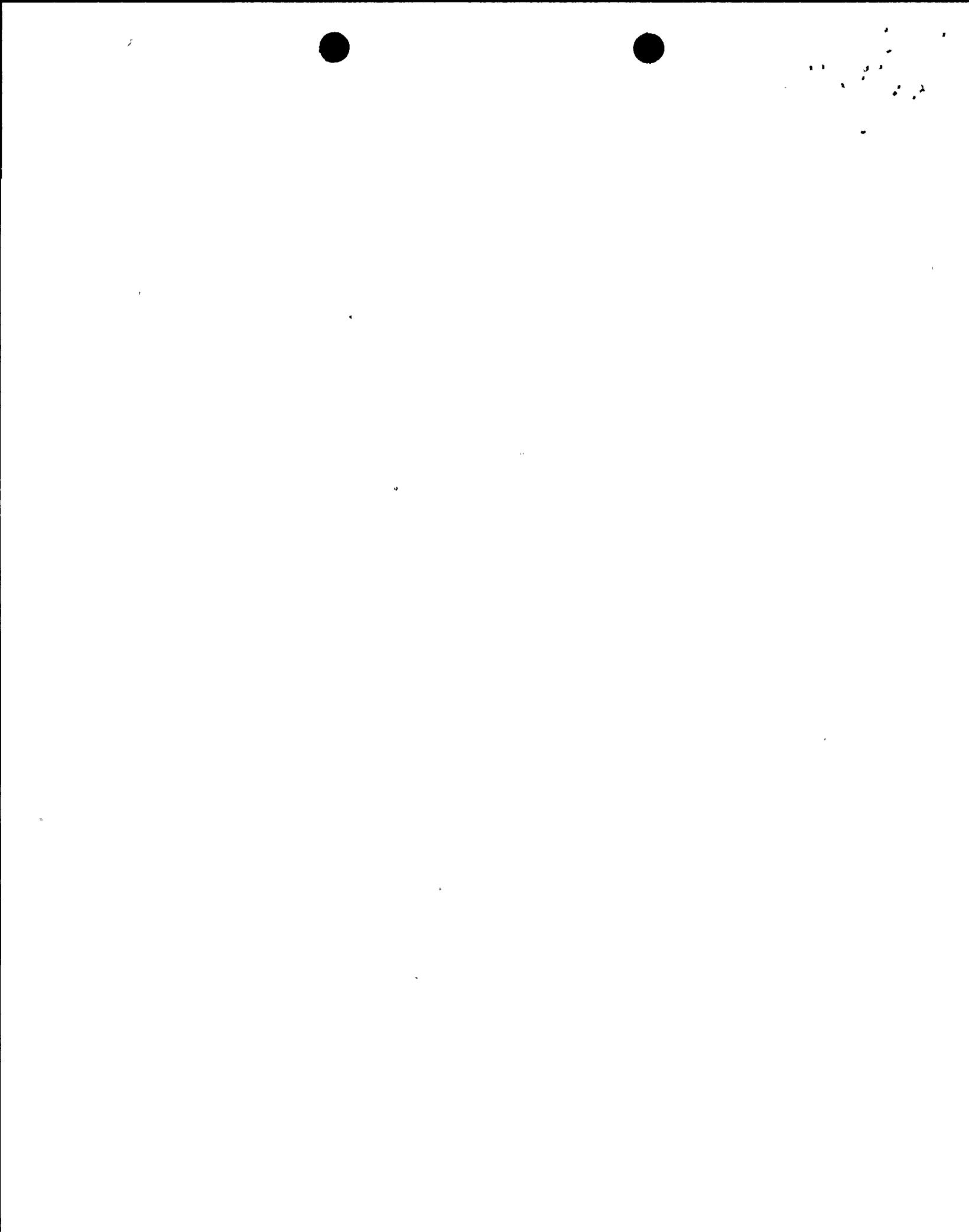
UNIT 1
DIABLO CANYON SITE

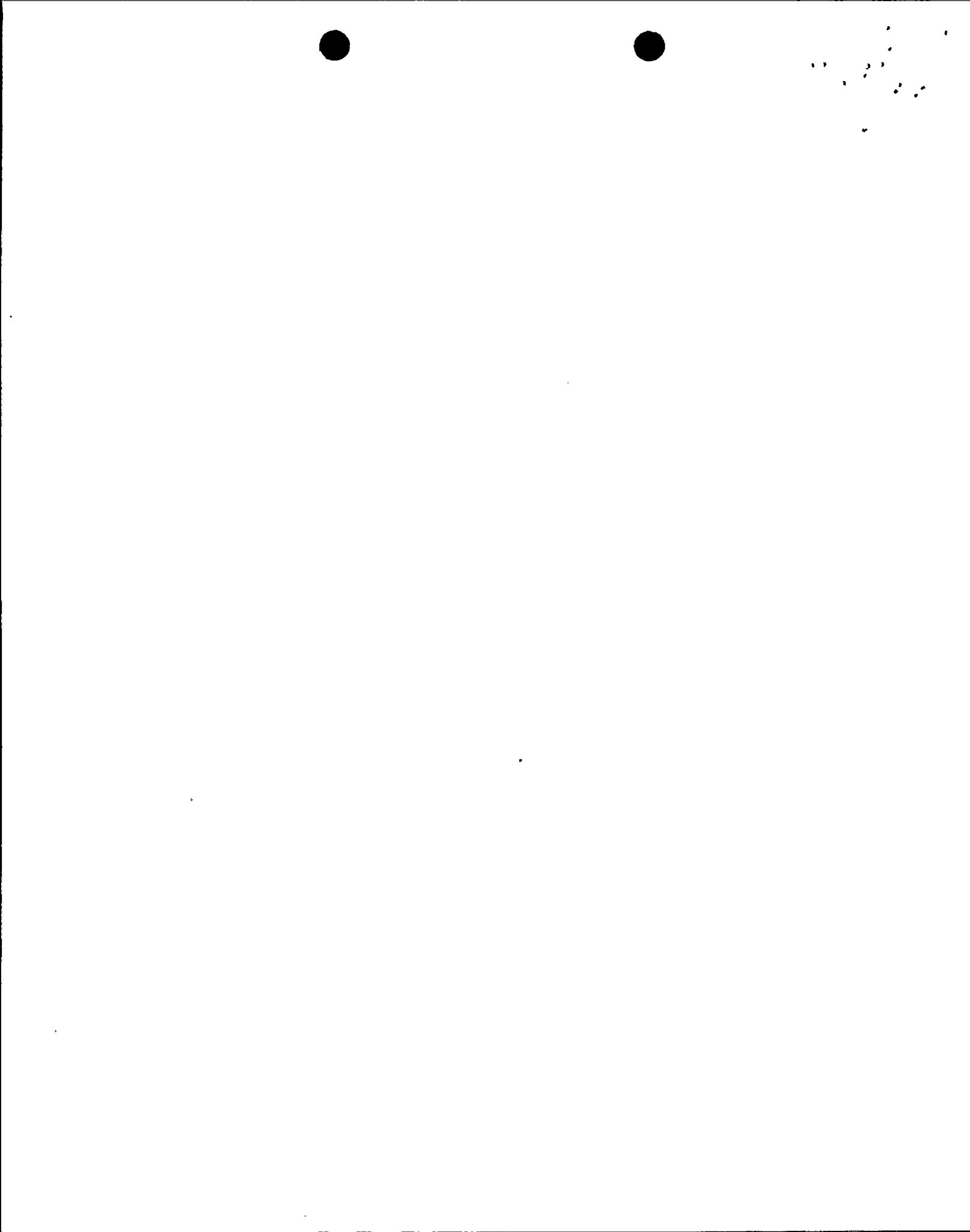
SKETCH #3
AUXILIARY BUILDING
PLAN AT ELEV. 154'-6" & 163'-4"

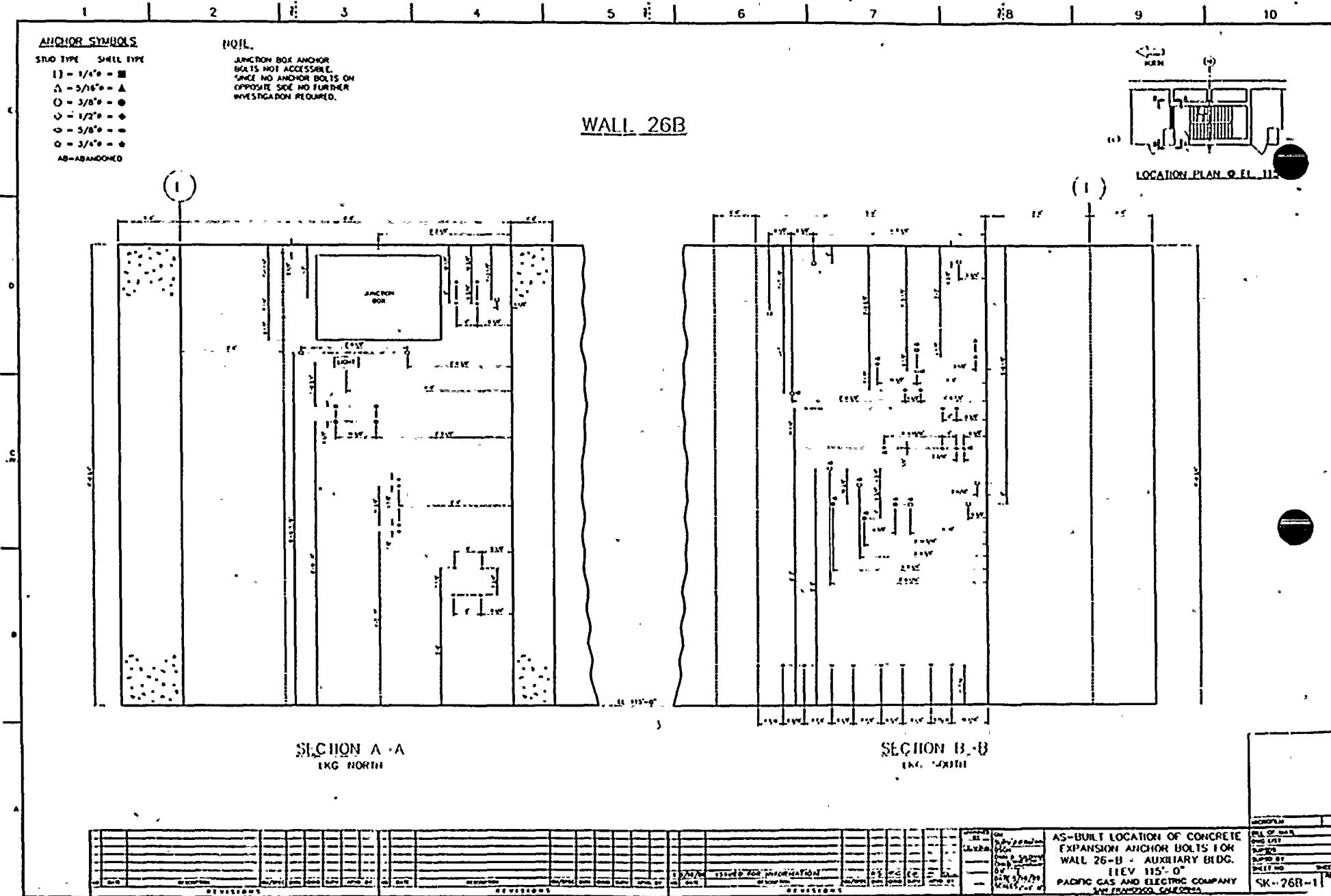


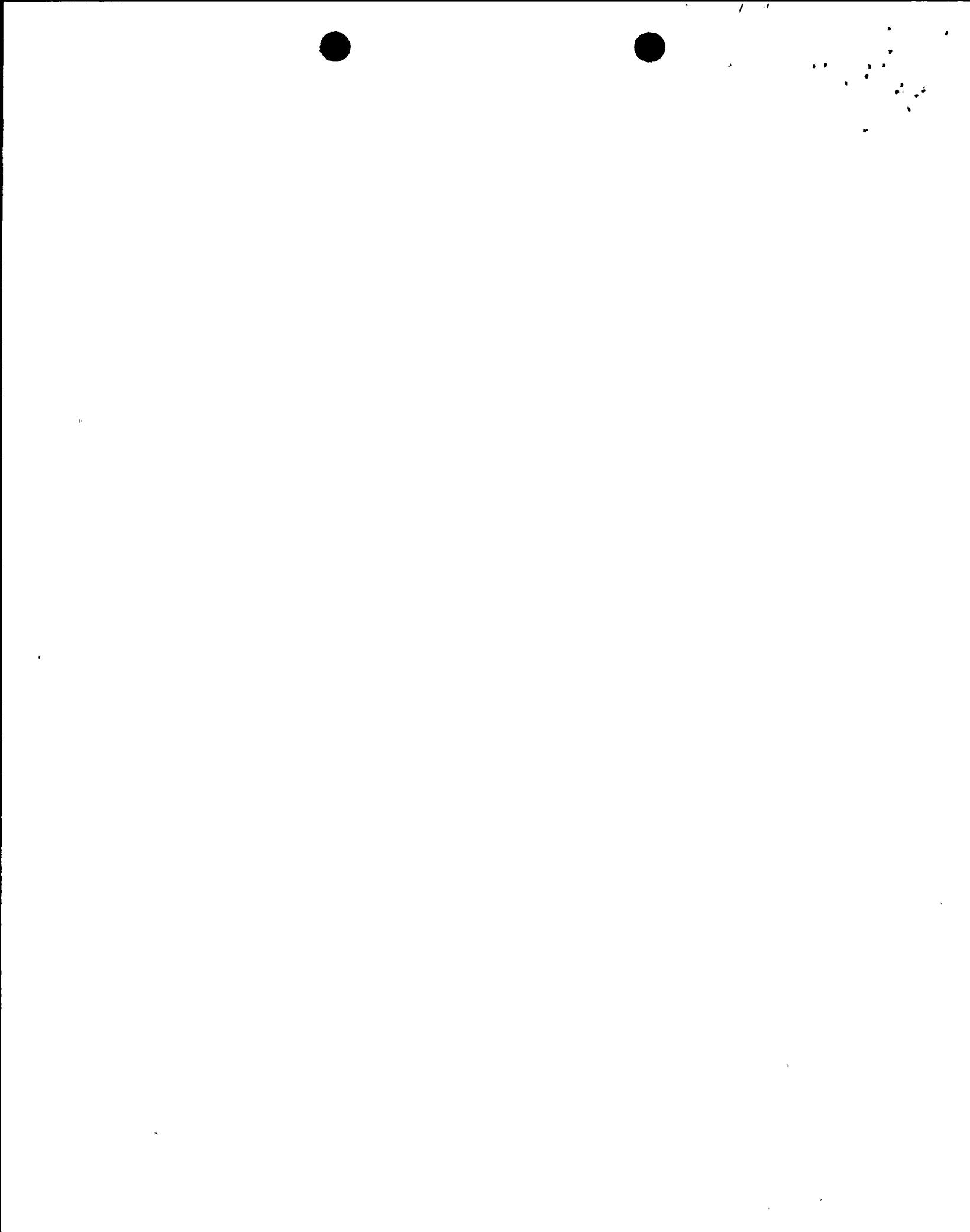


UNIT 1
DIABLO CANYON SITE
SKETCH #4
AUXILIARY BUILDING
PLAN AT ELEV. 140FT.

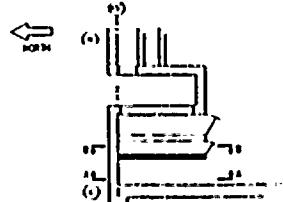
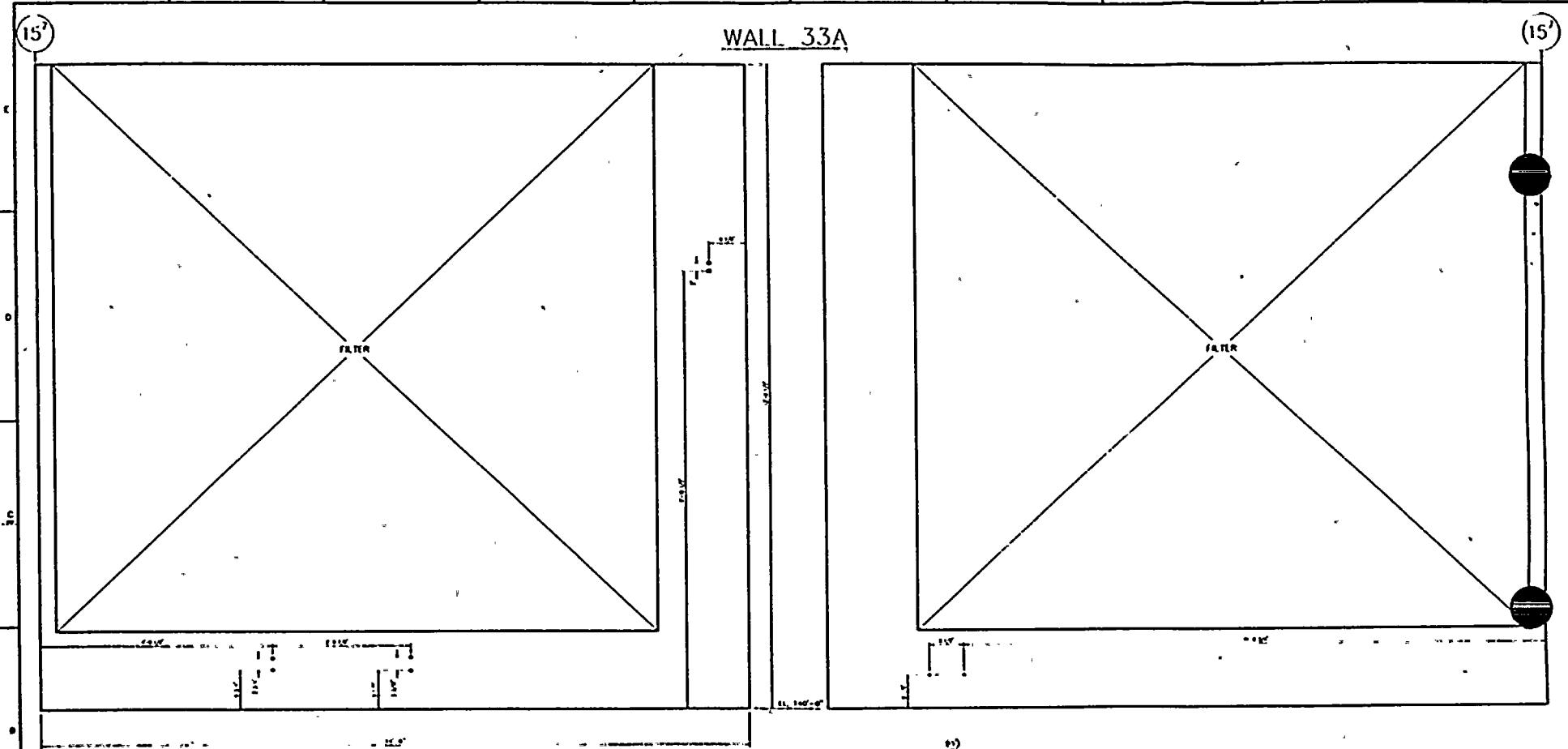








1 2 3 4 5 6 7 8 9 10



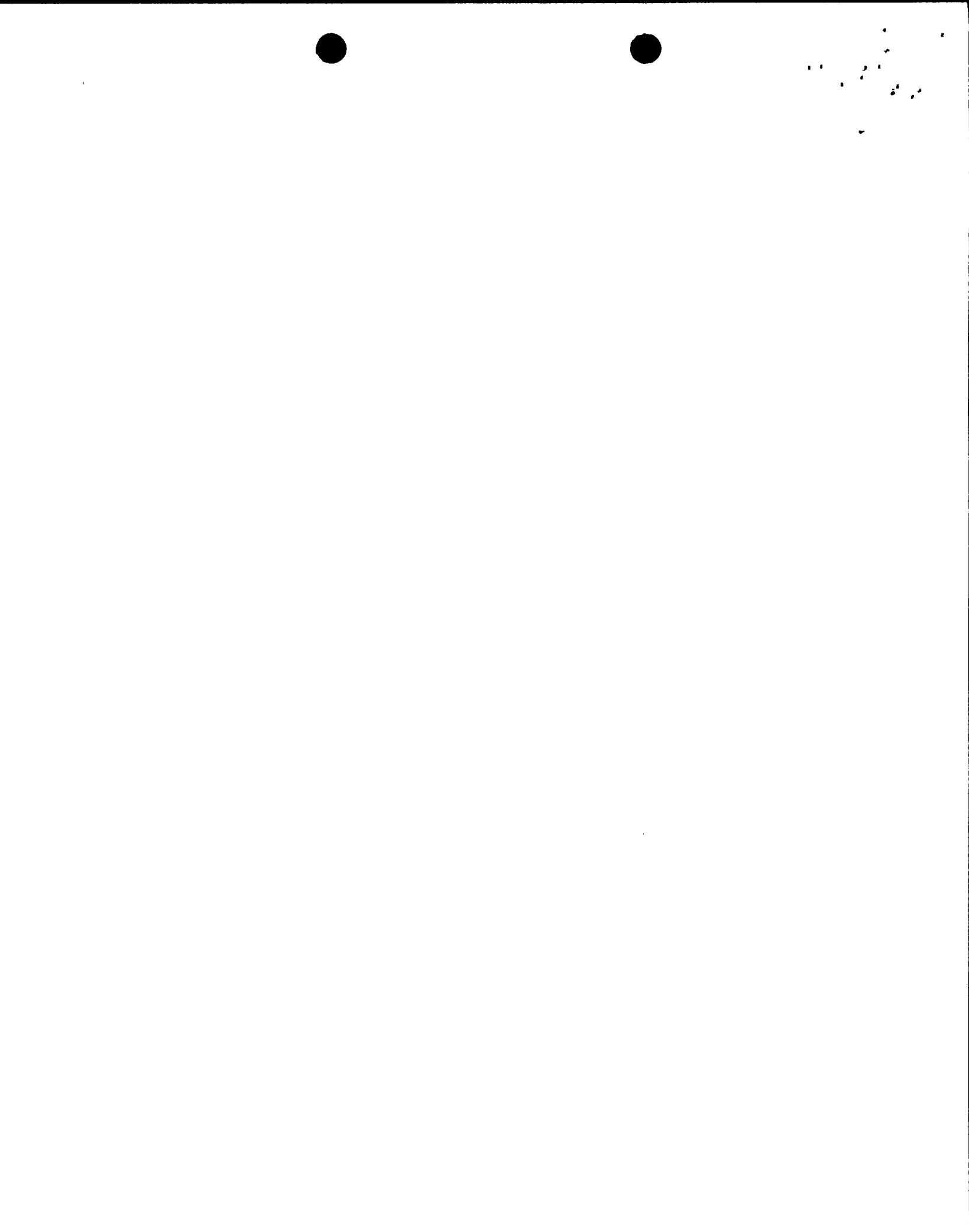
LOCATION PLAN @ EL. 140'

REV.	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE	REV.	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE	REV.	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 33-A - AUXILIARY BLDG.
ELV 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

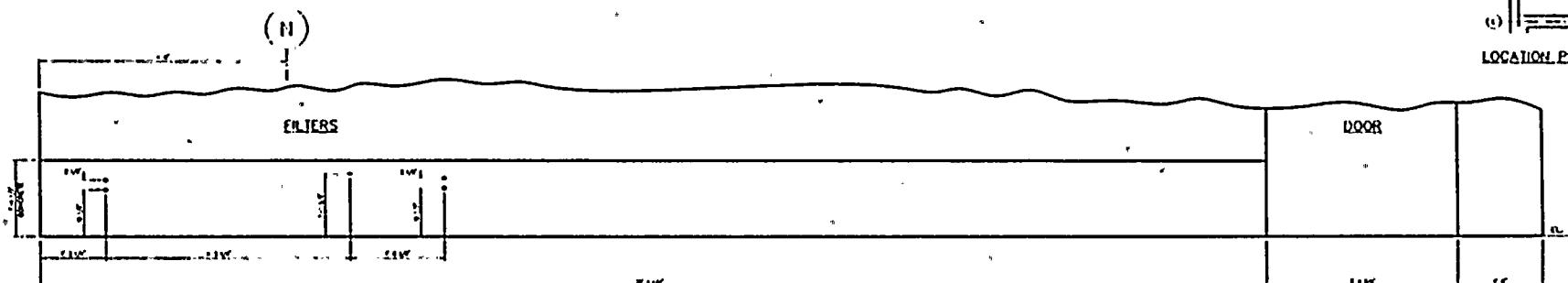
MCNICHOLS
BILL OF MATERIALS
DRAWING
SUPERVISOR
SUPERVISOR
SHEET NO.
SHEETS
REV.

SK-33A-1

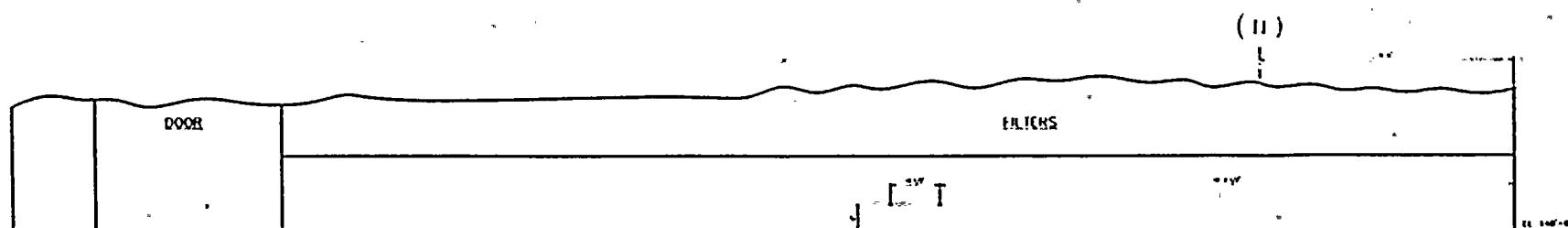


ANCHOR SYMBOLS	
STUD TYPE	SHELL TYPE
{ } = 1/4" x 1/4"	= ■
Δ = 5/16" x 1/4"	= △
() = 3/8" x 1/4"	= ●
◊ = 1/2" x 1/4"	= ◊
◊◊ = 5/8" x 1/4"	= ◊◊
◊◊◊ = 3/4" x 1/4"	= ★
AB=ABANDONED	

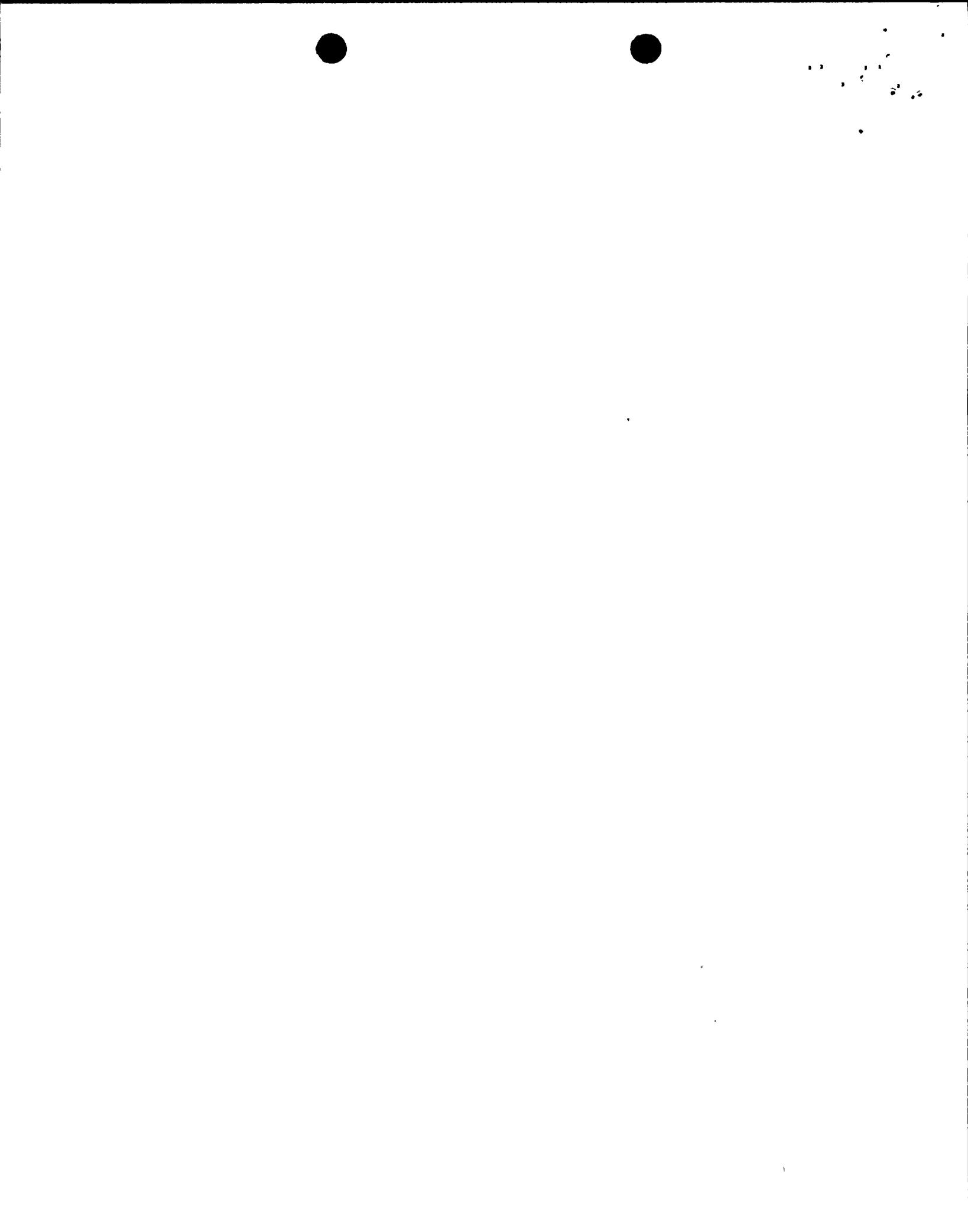
WALL 33B



SECTION A-A



SECTION B-B
LKG. SOUTH



1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

SHD TYPE SHELL TYPE NOTE: DIMENSIONS OMITTED FOR CLARITY

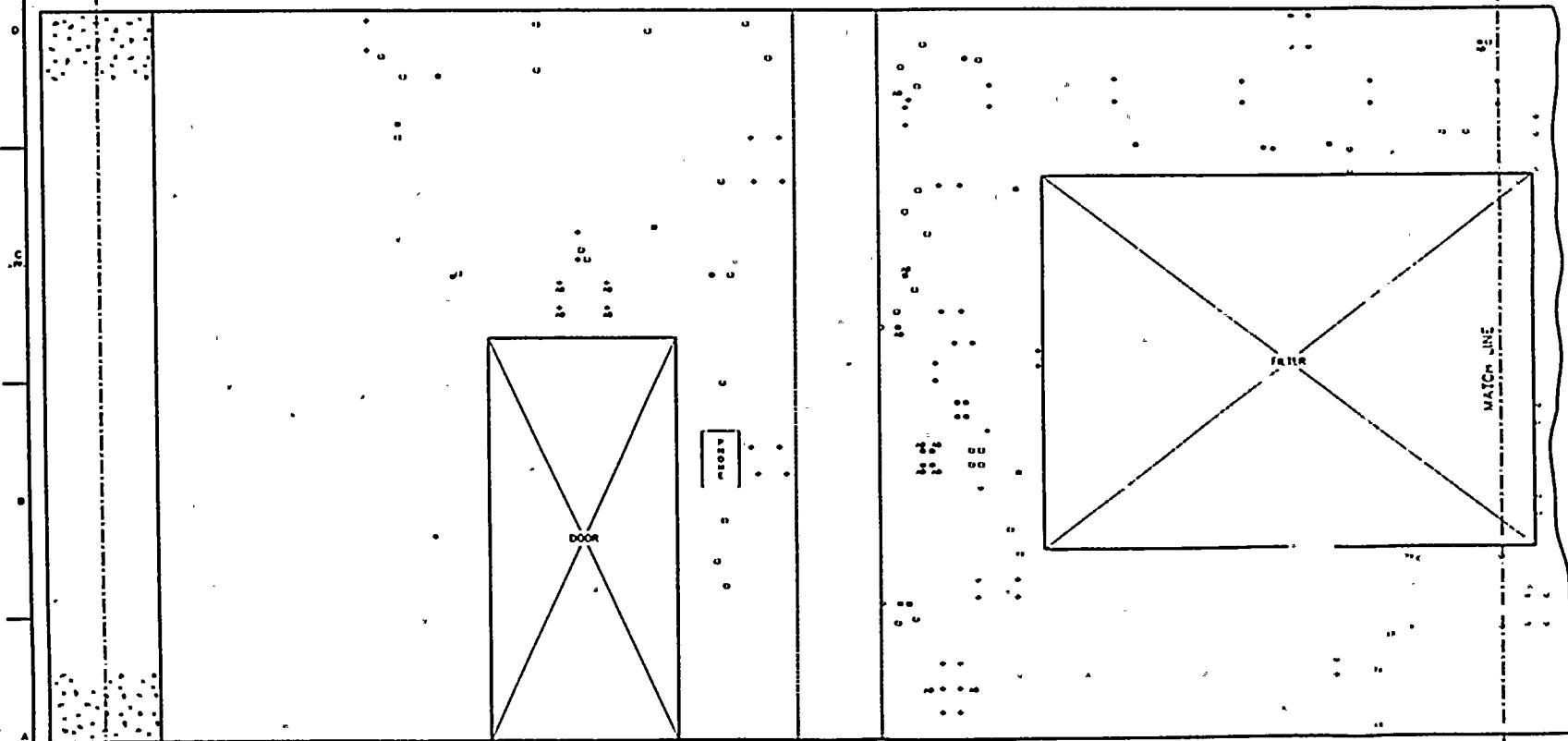
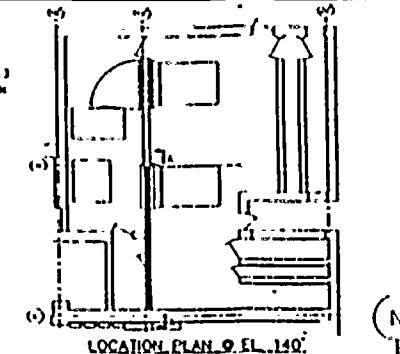
- (1) - 1/4" - □
- △ - 5/16" - △
- - 3/8" - ●
- ◊ - 1/2" - ◆
- ◆ - 5/8" - ◆
- - 3/4" - ○
- AB - ABANDONED

WALL 37

SECTION A-A

LKG. NORTH

(FOR OPPOSITE SIDE OF WALL SEE SK-37-2)



CONTINUED ON SK-37-2

ISSUED FOR INFORMATION												REVISIONS											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 37 - AUXILIARY BLDG.
ELEV 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

PULL OF
ONE LIST
RUBBER
TOP 50 BY
SHEET NO.
SHEETS
SK-37-1



1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE NOTE DIMENSIONS OMITTED FOR CLARITY

- 1) - 1/4" - □
- △ - 5/16" - △
- - 3/8" - ●
- ◊ - 1/2" - ◊
- ◊ - 5/8" - ◊
- ◊ - 3/4" - ★
- AB-ABANDONED

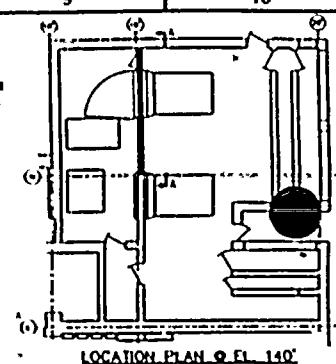
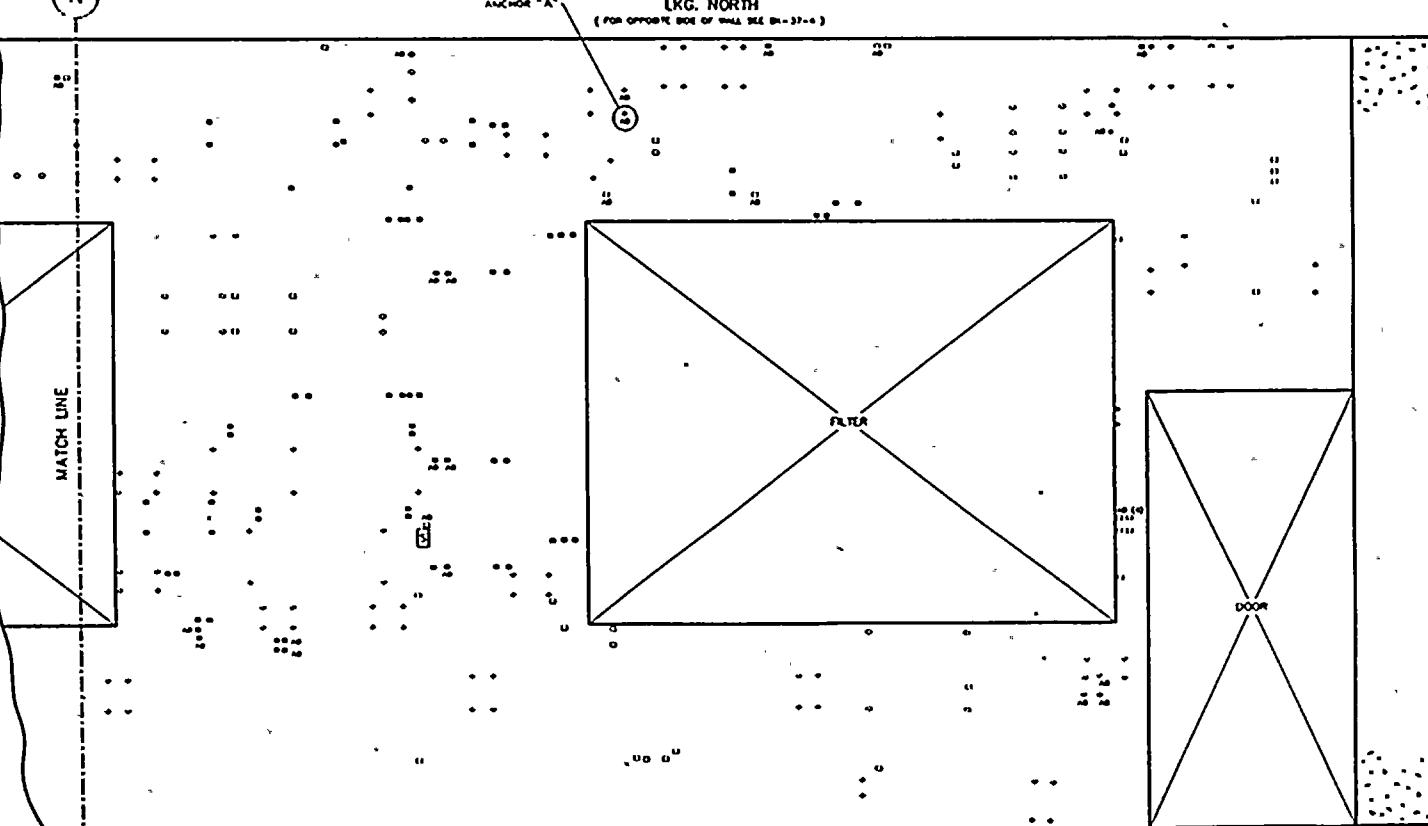
WALL 37

SECTION A-A

LKG. NORTH
(FOR OPPOSITE SIDE OF WALL SEE SK-37-4)

ANCHOR "A"

CONTINUED ON SK-37-1



LOCATION PLAN @ EL. 140'

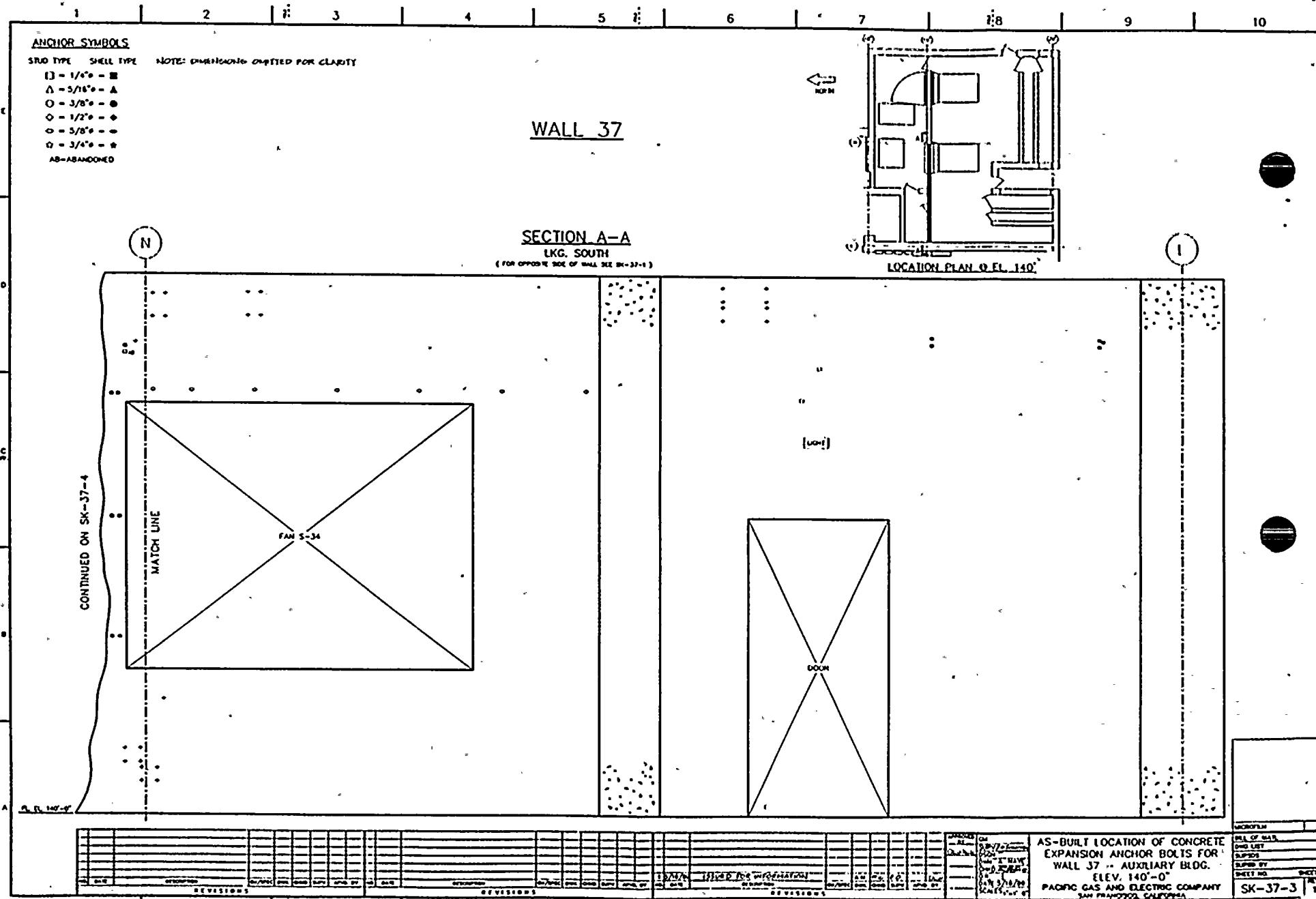
REVISIONS											
REV. 1	REV. 2	REV. 3	REV. 4	REV. 5	REV. 6	REV. 7	REV. 8	REV. 9	REV. 10	REV. 11	REV. 12

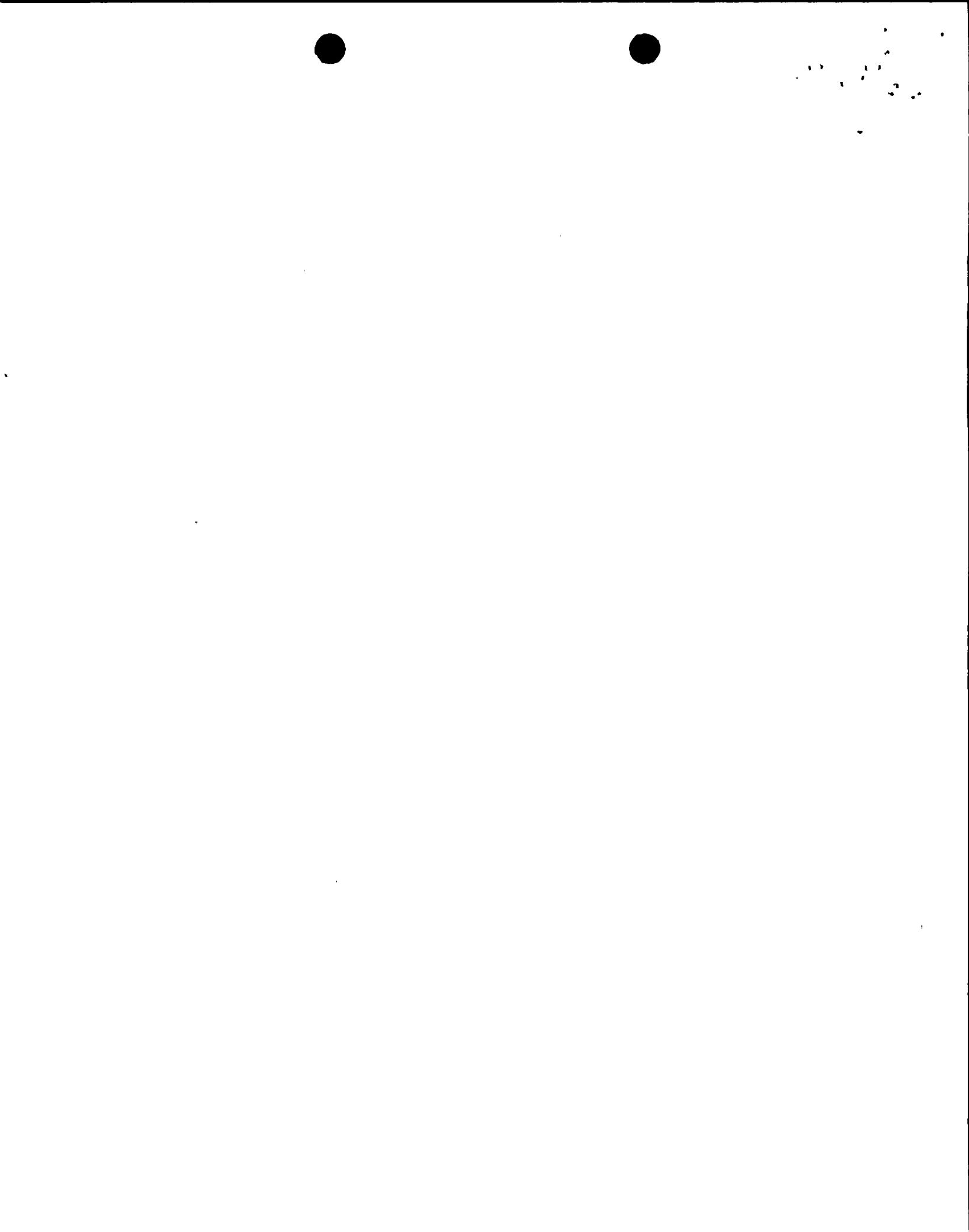
ISSUED FOR INFORMATION	REVISIONS
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12/24/74	2
12/24/74	3
12/24/74	4
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12/24/74	11
12/24/74	12

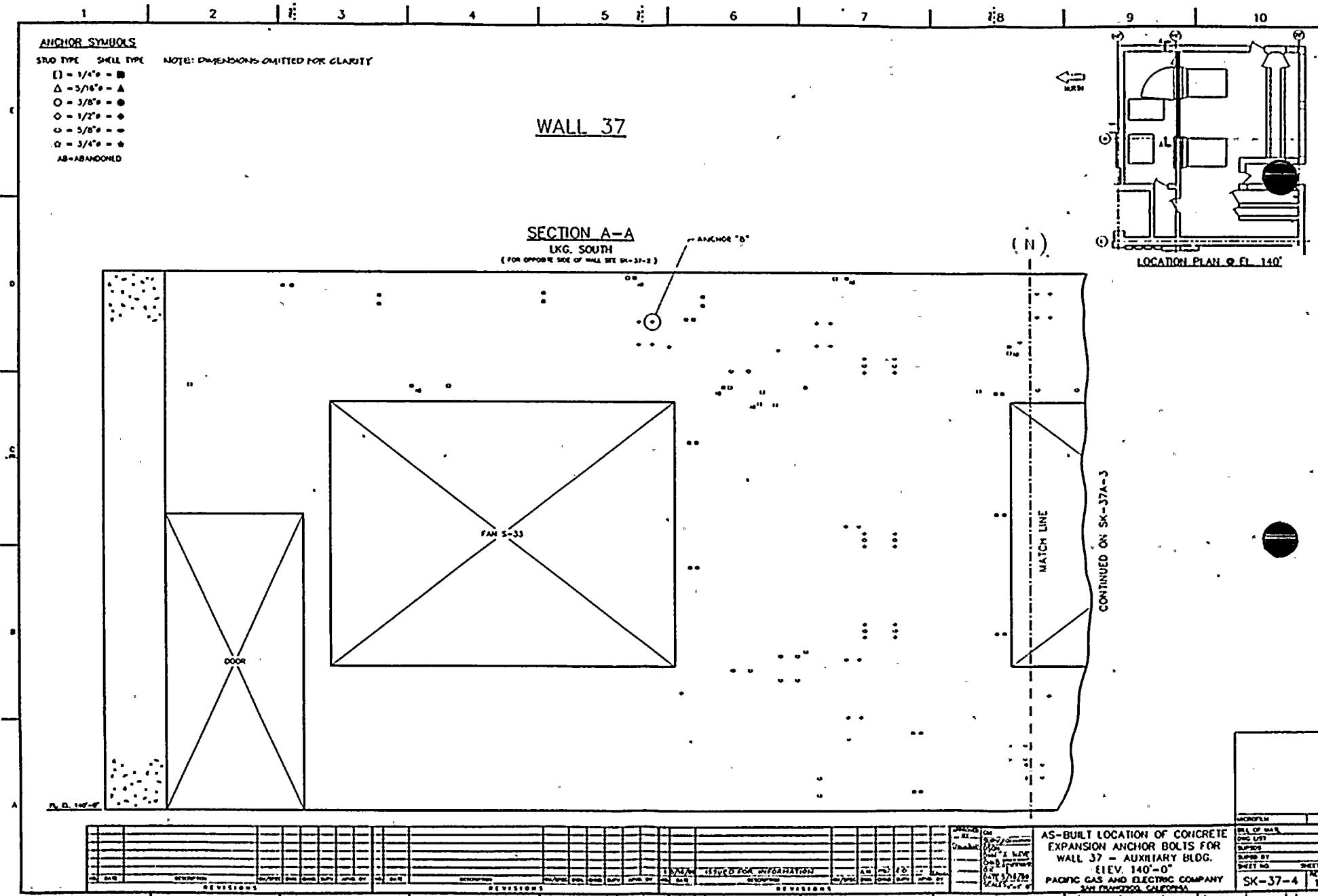
AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 37 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

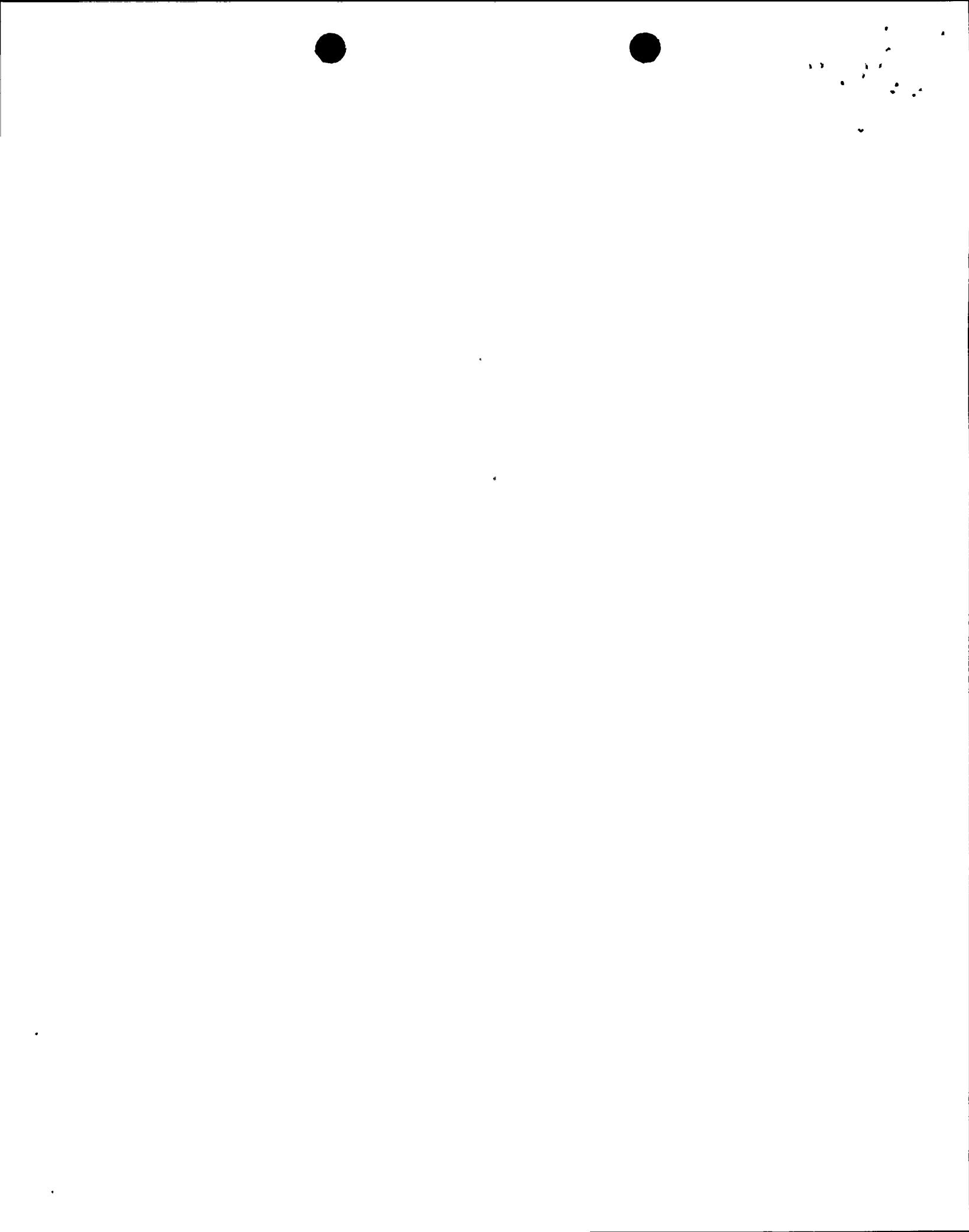
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FILE NO. 100-10000
DRAWING LIST
SPLINES
SUPERIOR
SHEET NO. 1
SHEETS 1
SK-37-2

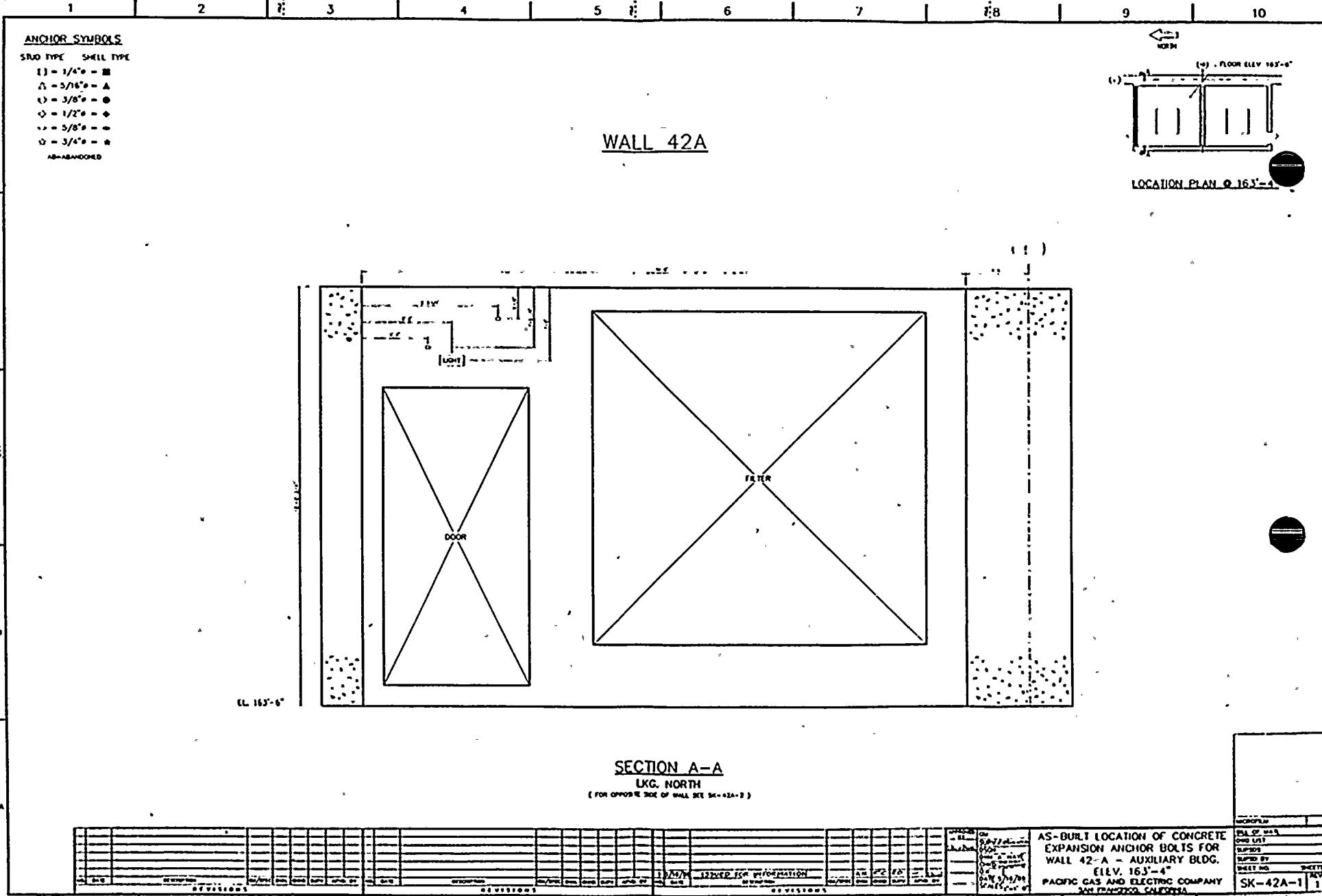


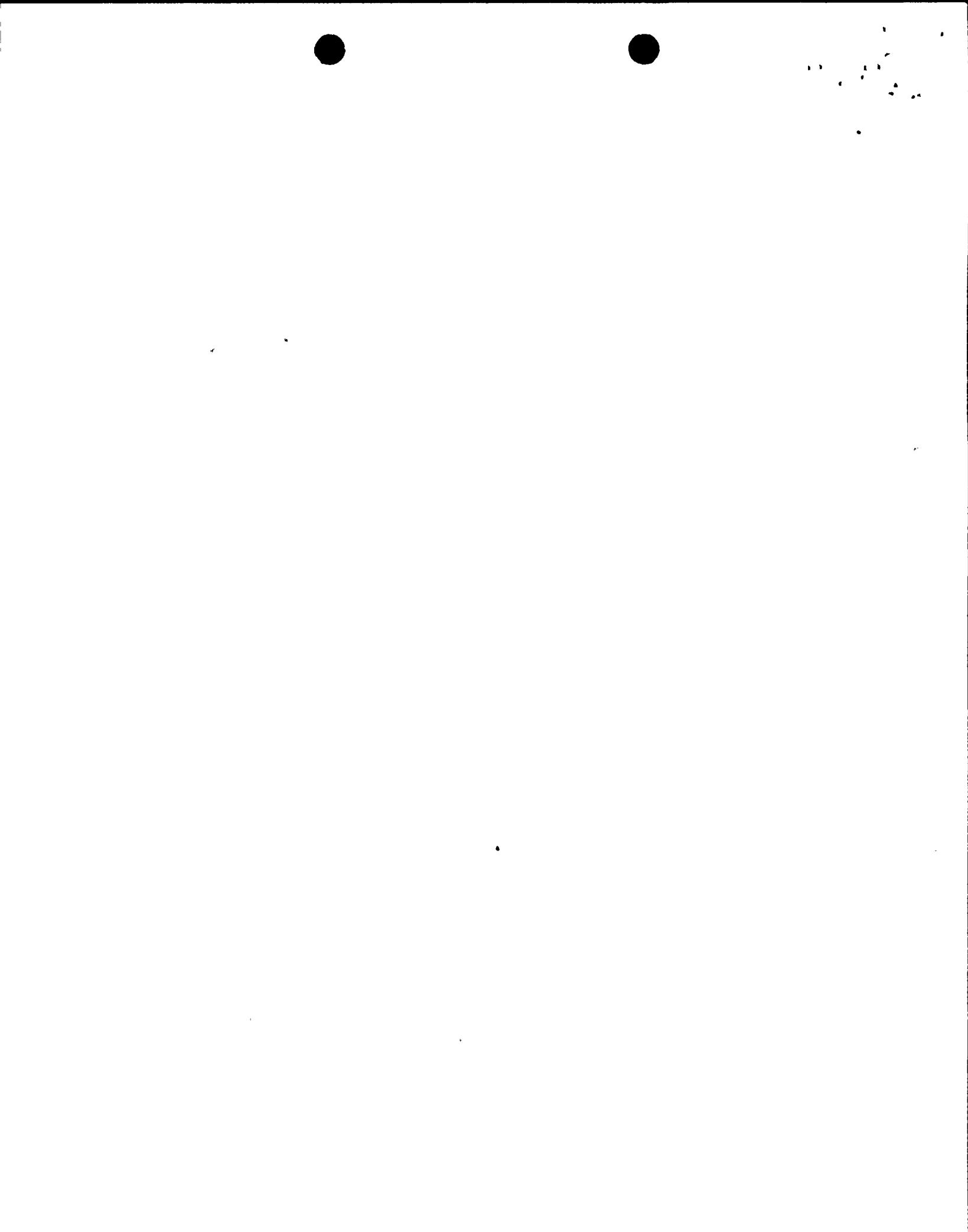












1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

□ = 1/4" - □

△ = 5/16" - △

○ = 3/8" - ○

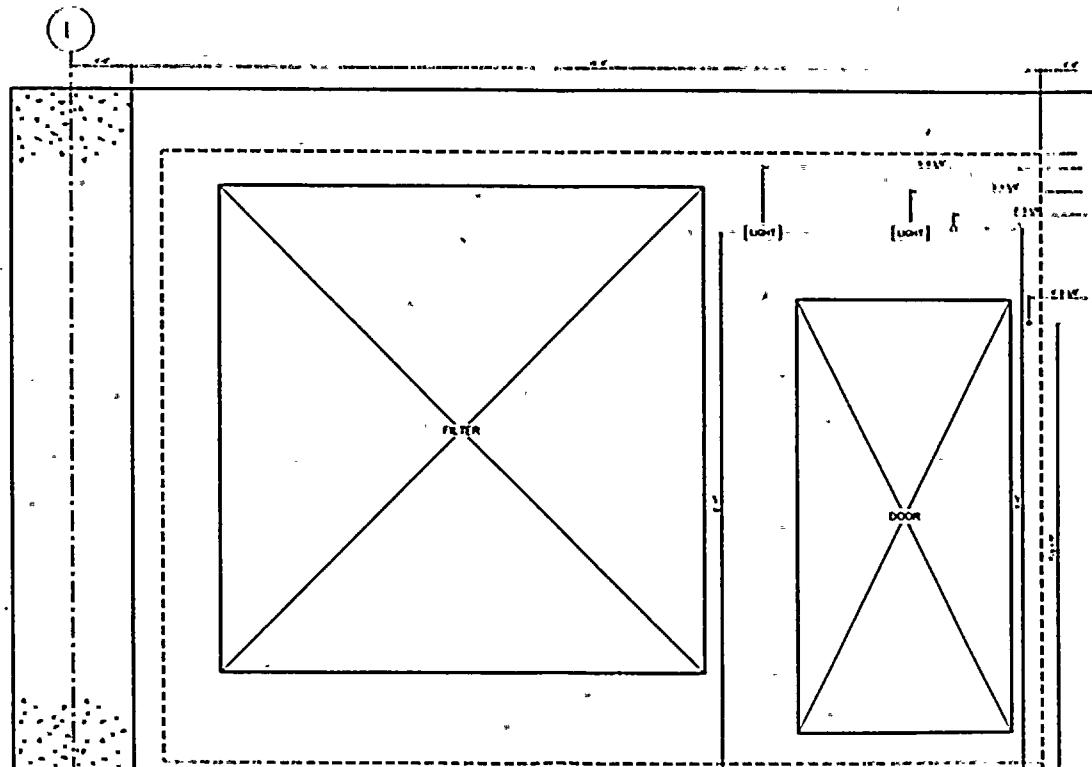
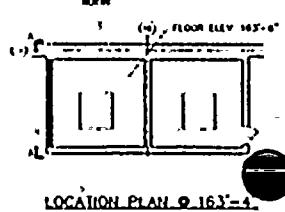
◊ = 1/2" - ◊

◆ = 5/8" - ◆

◆ = 3/4" - ◆

AB=ABOVEHOOD

WALL 42A



SECTION A-A
UKG. SOUTH
(FOR OPPOSITE SIDE OF WALL SEE SK-42A-1)

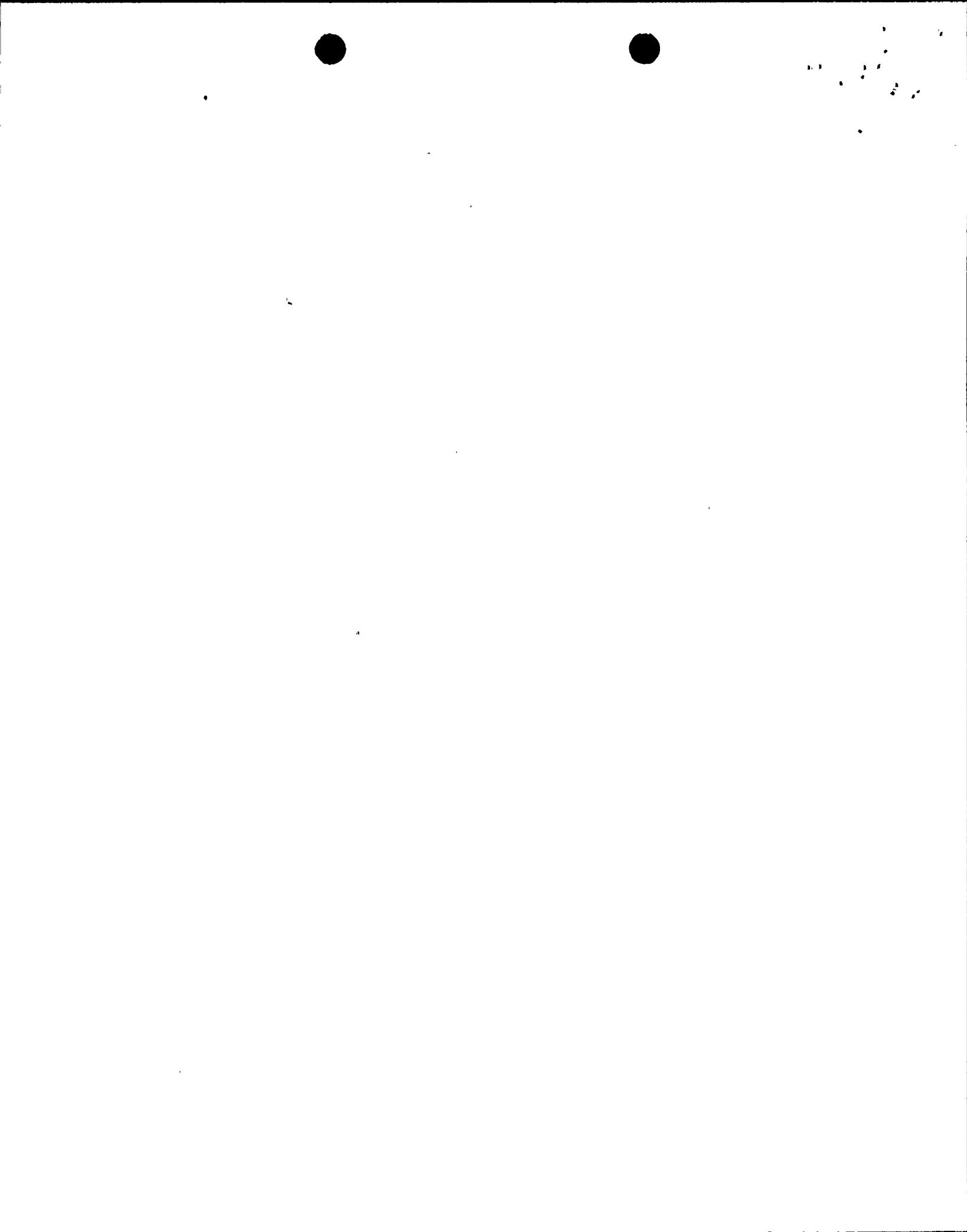
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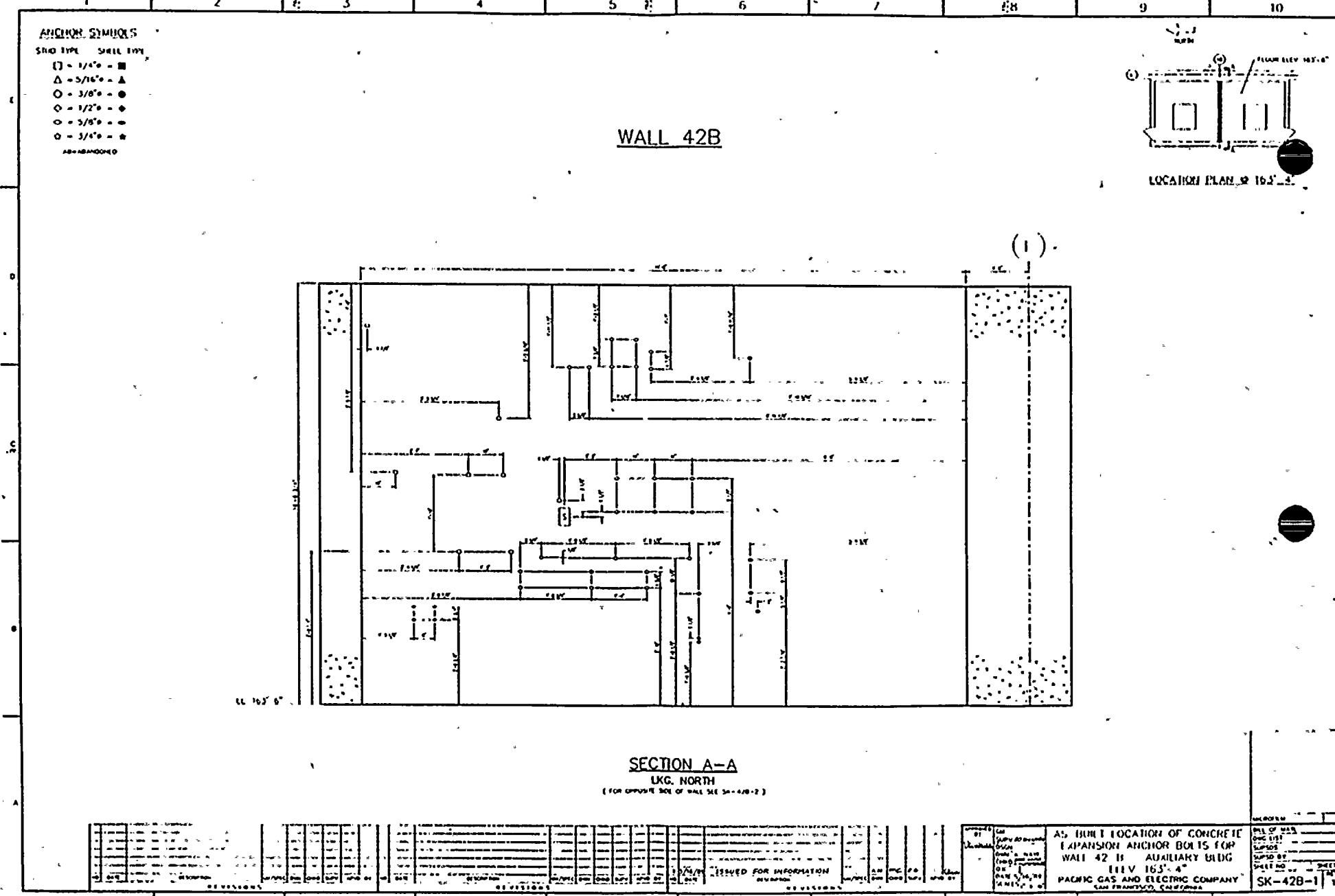
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1	2	3	4	5	6	7	8	9	10

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-A - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA
SK-42A-2

MICROFILM
FILE OF THIS
DRAWING LIST
BULLETS
DATE BY
DRAWING NO.
SHEET NO.
SK-42A-2







1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

(1) - 1/4" - □

(Δ) - 5/16" - ▲

(○) - 3/8" - ●

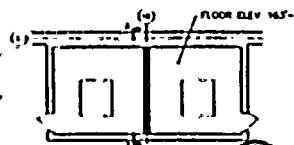
(◊) - 1/2" - ◊

(◎) - 5/8" - ◎

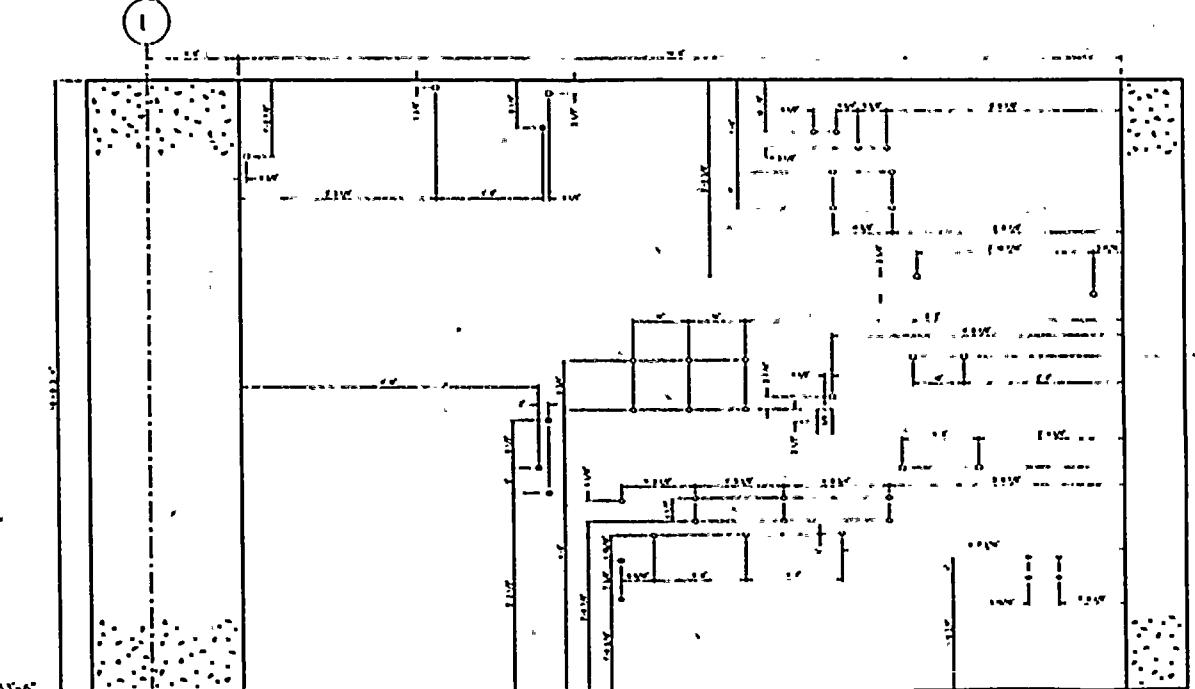
(△) - 3/4" - ★

AB=ABANDONED

WALL 42B



LOCATION PLAN @ 163'-0"



SECTION A-A

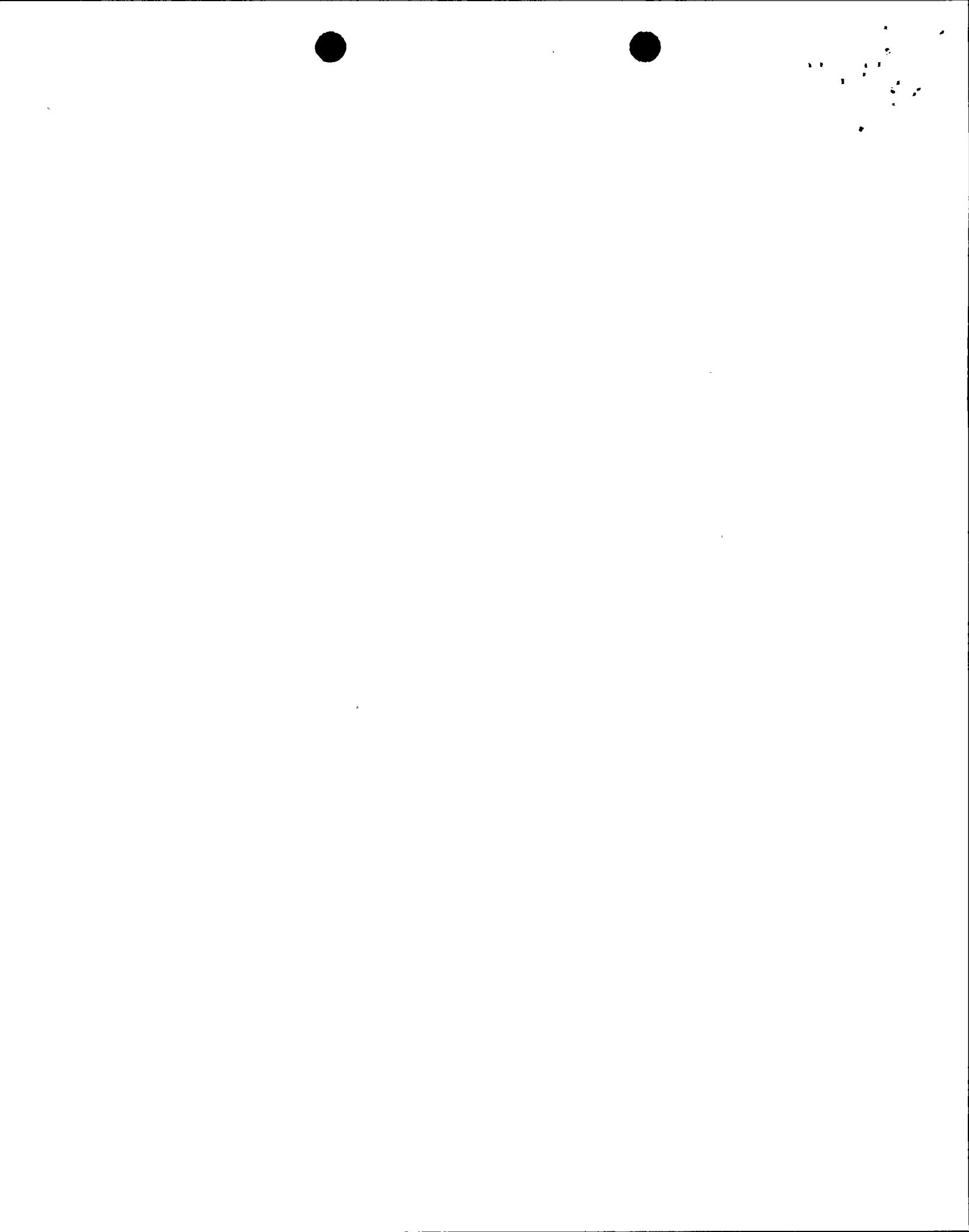
LKG. SOUTH

(FOR OPPOSITE SIDE OF WALL SEE SK-42B-1)

REVISIONS												REVISIONS											
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1/10/78	ISSUED FOR INFORMATION	1/10/78	2/10/78	3/10/78	4/10/78	5/10/78	6/10/78	7/10/78	8/10/78	9/10/78	10/10/78	1/10/79	2/10/79	3/10/79	4/10/79	5/10/79	6/10/79	7/10/79	8/10/79	9/10/79	10/10/79	11/10/79	12/10/79
---------	------------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	----------	----------

AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR
WALL 42-B - AUXILIARY BLOCK.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA
SK-42B-2



1

2

3

4

5

6

7

8

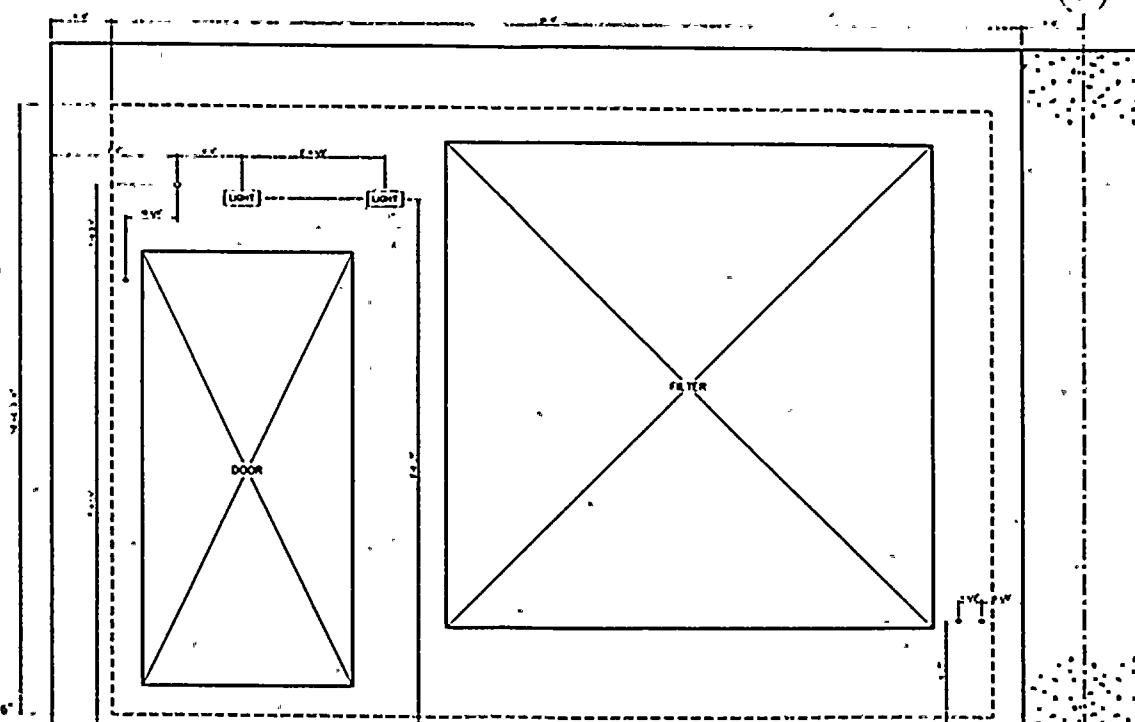
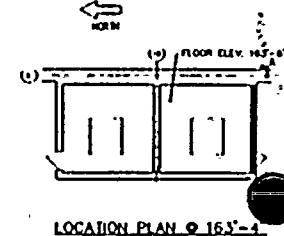
9

10

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- II - 1/4" - □
 - △ - 5/16" - △
 - - 3/8" - ●
 - ◇ - 1/2" - ◆
 - ◆ - 5/8" - ◆
 - ◆ - 3/4" - ◆
- AB=ANCHOR

WALL 42CSECTION A-ALK.G. NORTH
(FOR OPPOSITE SIDE OF WALL SEE SK-42C-2)

| REVISIONS |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

ISSUED FOR INFORMATION
REVISIONS

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-C - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA
SK-42C-1



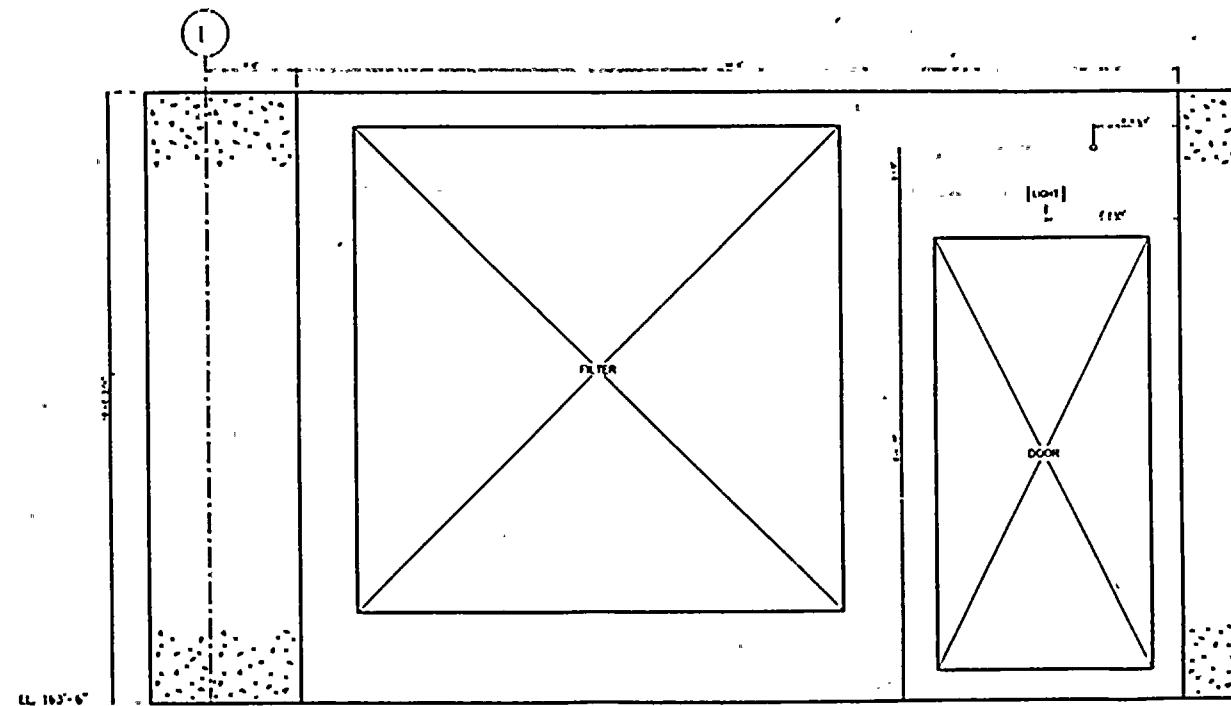
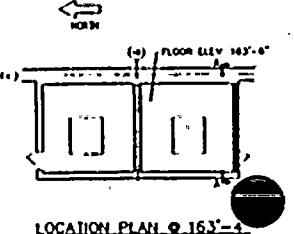
1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

SDU TYPE SHELL TYPE

- () = 1/4" - □
- △ = 5/16" - △
- = 3/8" - ●
- ◊ = 1/2" - ◊
- ◆ = 5/8" - ◆
- ◇ = 3/4" - ★
- = ABANDONED

WALL 42C



SECTION A-A

EKG. SOUTH

{ FOR OPPOSITE SIDE OF WALL SEE SK-42C-1 }

| Revisions |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |

13241D FOR INFORMATION

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-C - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

ROLL OF MAP
PAGE 1 OF 1
ELEVATION
SECTION A-A
SKETCH
REVISIONS
DATE 5/10/90
BY [Signature]

1

ROLL OF MAP
PAGE 1 OF 1
ELEVATION
SECTION A-A
SKETCH
REVISIONS
DATE 5/10/90
BY [Signature]

1

ROLL OF MAP
PAGE 1 OF 1
ELEVATION
SECTION A-A
SKETCH
REVISIONS
DATE 5/10/90
BY [Signature]

1

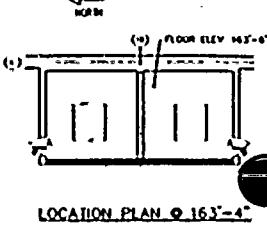
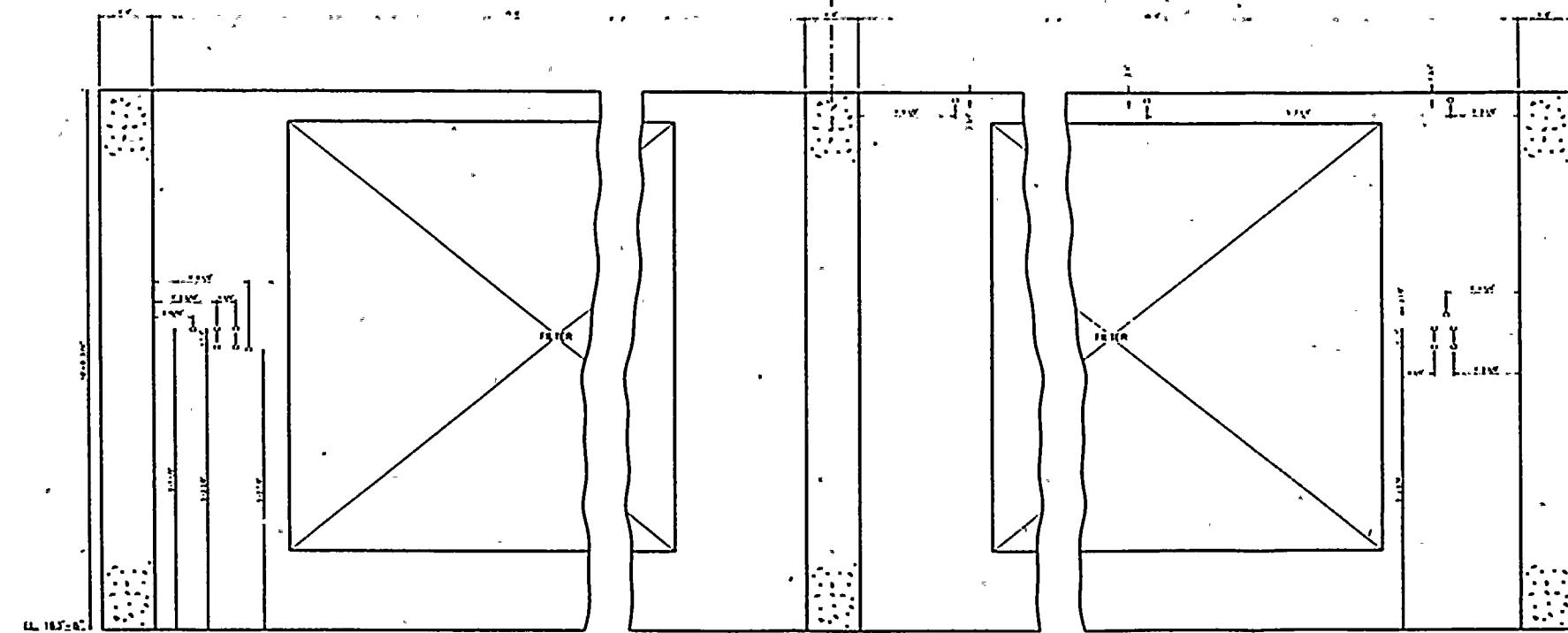


1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

- STUD TYPE SHELL TYPE
 () = 1/4" - □
 (△) = 5/16" - △
 (○) = 3/8" - ○
 (◊) = 1/2" - ◊
 (×) = 5/8" - ×
 (◎) = 3/4" - ◎
 (—) = ABANDONED

WALL 42D



LOCATION PLAN E 163'-4"

SECTION A-A

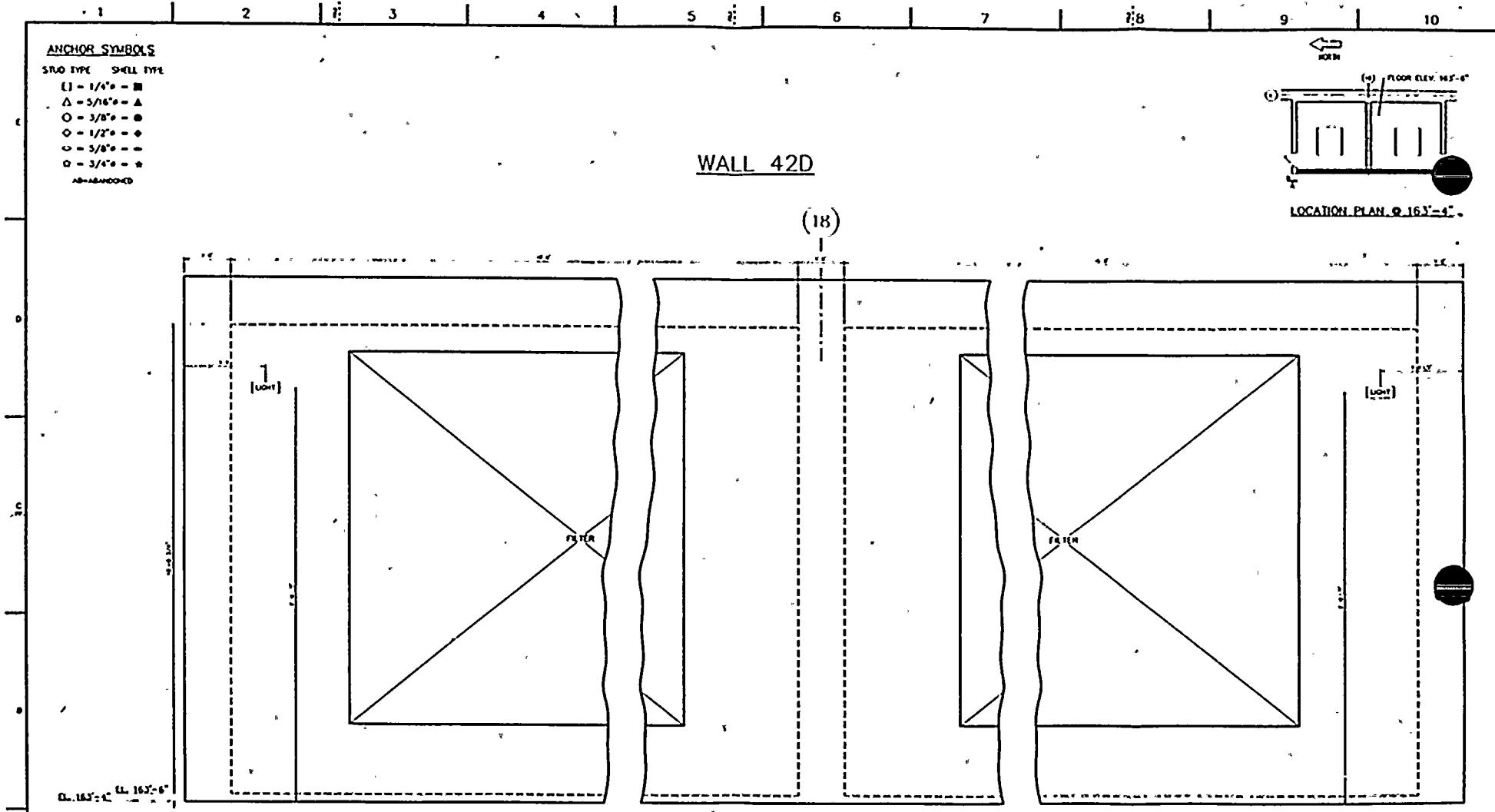
(FOR OPPOSITE SIDE OF WALL SEE SK-420-2)

REV.	DESCRIPTION	WPC	CSC	CSC PT	CSC AD	REVISIONS	SERIALIZED INFORMATION		CSC	CSC PT	CSC AD	REVISIONS
							DATE	REV.				
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												

AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR
 WALL 42-D - AUXILIARY BLDG.
 ELEV. 163'-4"
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

MICROFILM
 FILE OF MAPS
 CDS LIST
 SUBJECT
 SUPER BY
 SHEET NO.
 SHEETS
 REV.
 SK-420-1

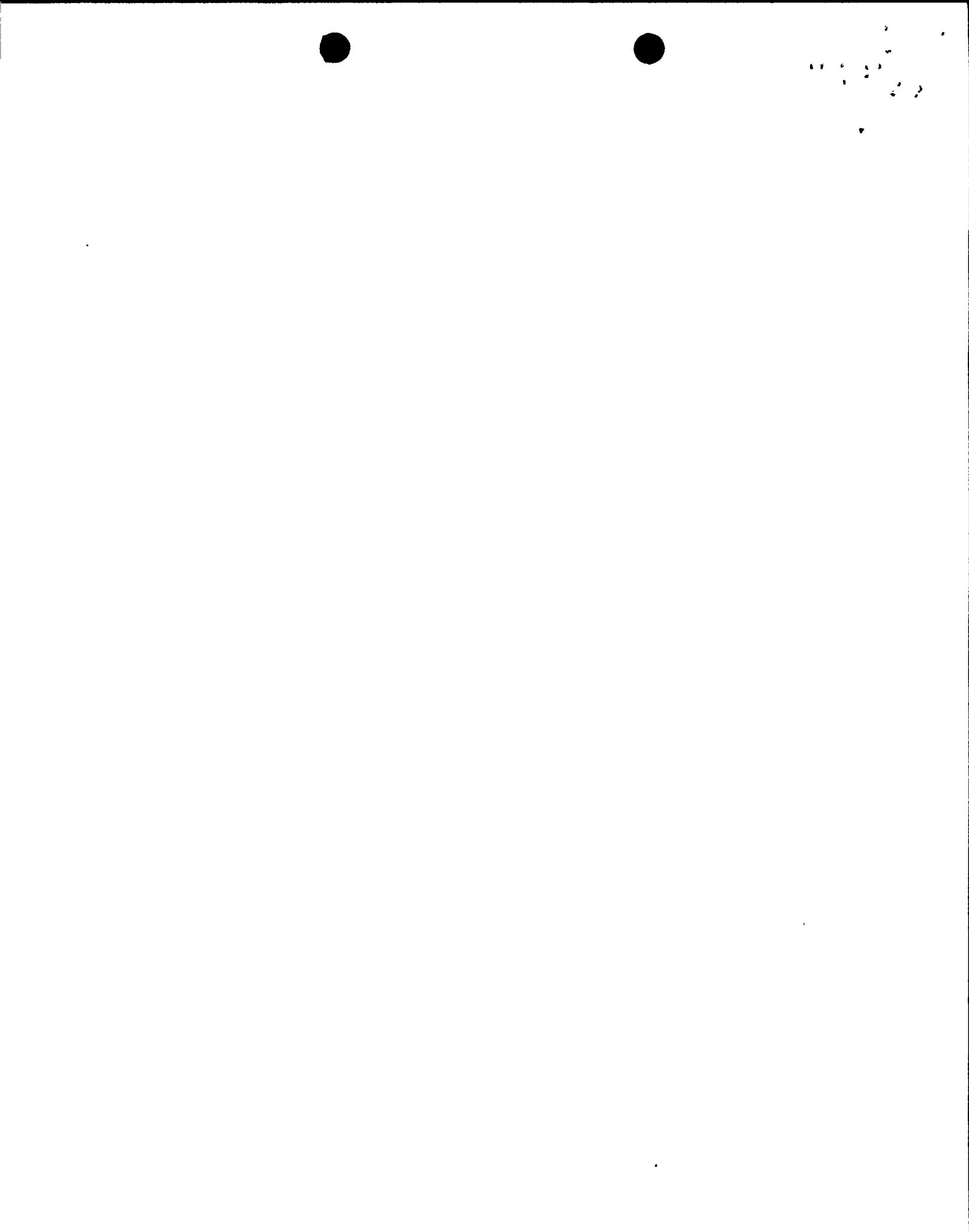




SECTION A-A
LKG. EAST
(FOR OPPOSITE SIDE OF WALL SEE SK-42D-1)

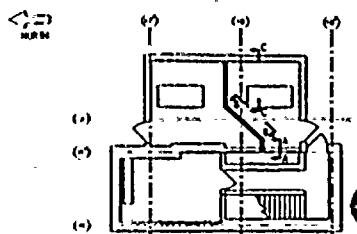
OVERVIEW		ISSUED FOR INFORMATION												RECORDED	
REF.	DATE	REF.	DATE	REF.	DATE	REF.	DATE	REF.	DATE	REF.	DATE	REF.	DATE	REF.	DATE
SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74	SK-42D-1	10-16-74

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-D - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA
SK-42D-1



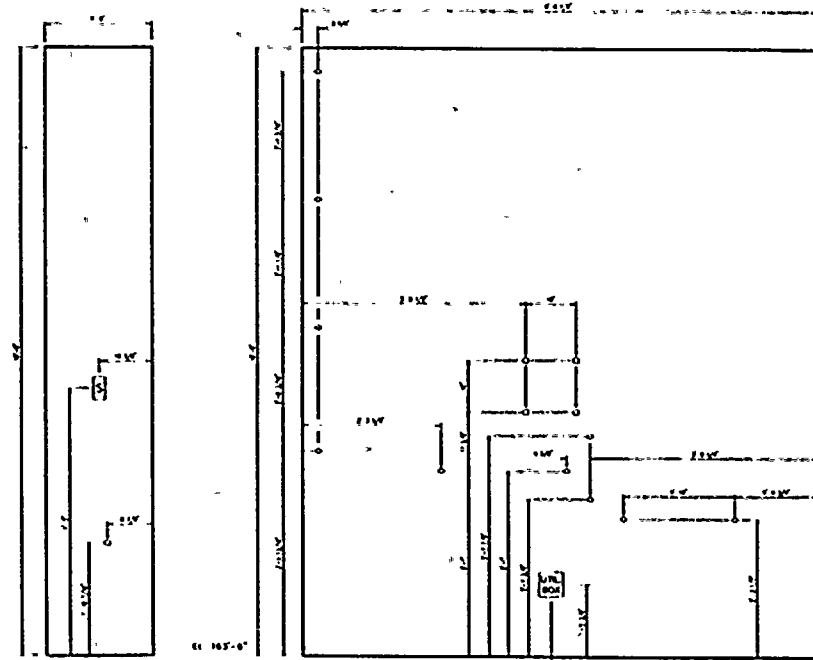
ANCHOR SYMBOLS

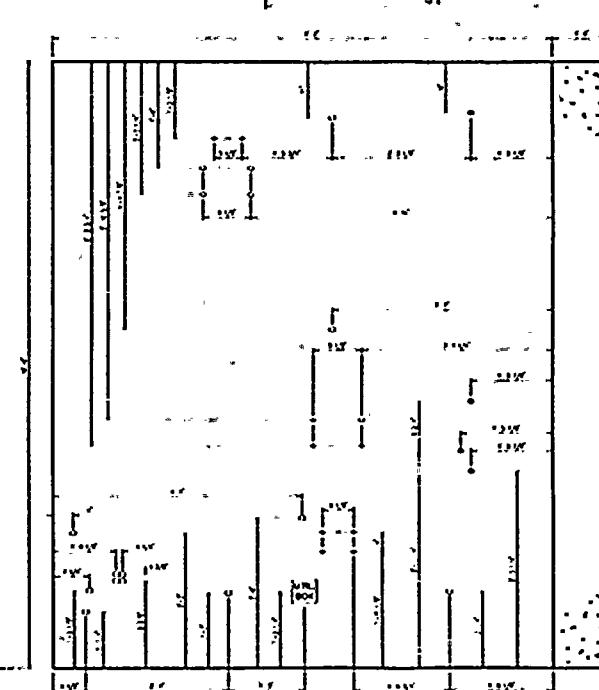
STUD TYPE SHELL TYPE
 LL = 1/4" - □
 Δ = 5/16" - ▲
 ○ = 3/8" - ●
 ◇ = 1/2" - ◆
 ▲ = 5/8" - ▲
 △ = 3/4" - △
 AB=ABANDONED

WALL 43A

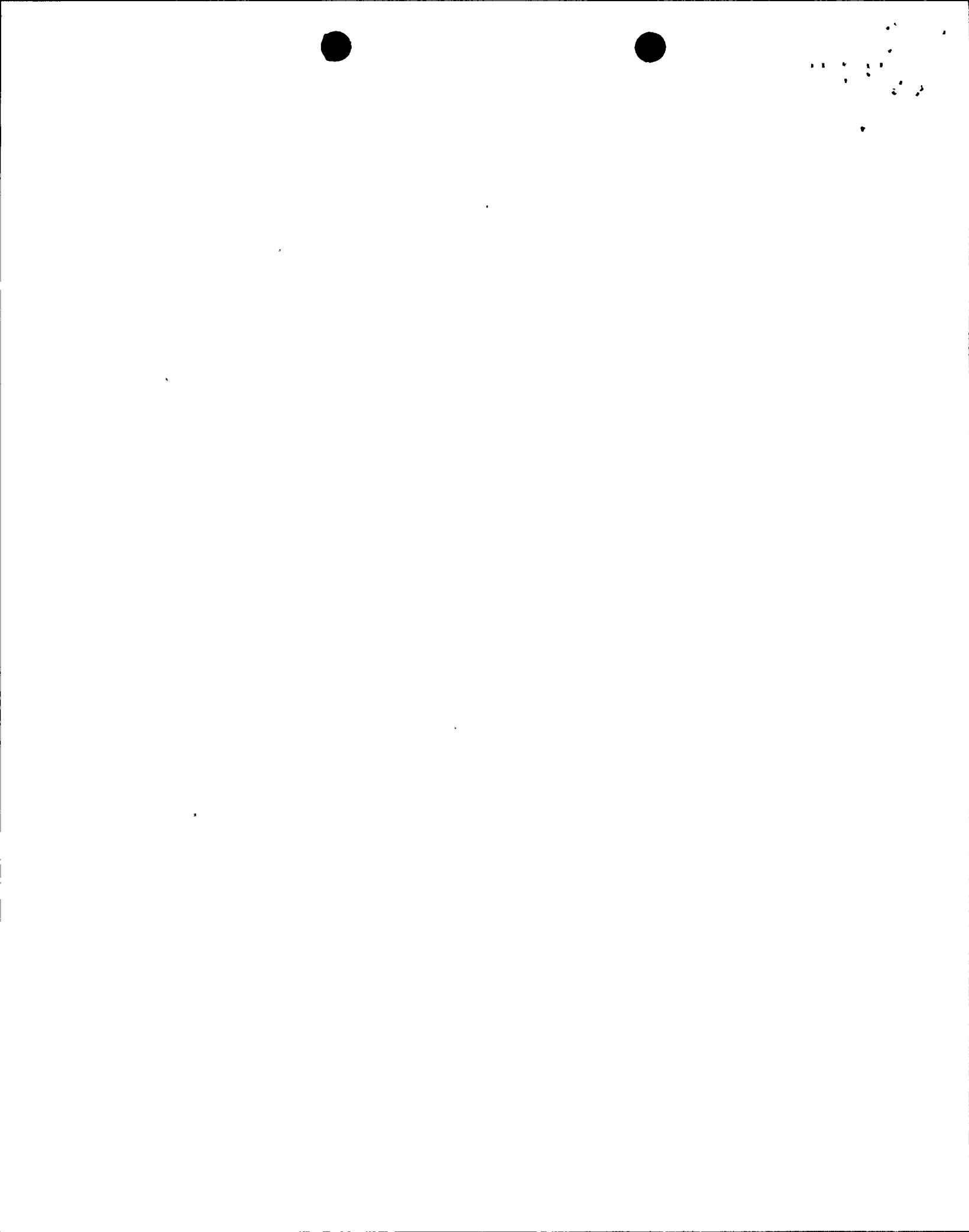
LOCATION PLAN @ EL. 163'-4"

(J)


SECTION A-A
 LKG. NORTH

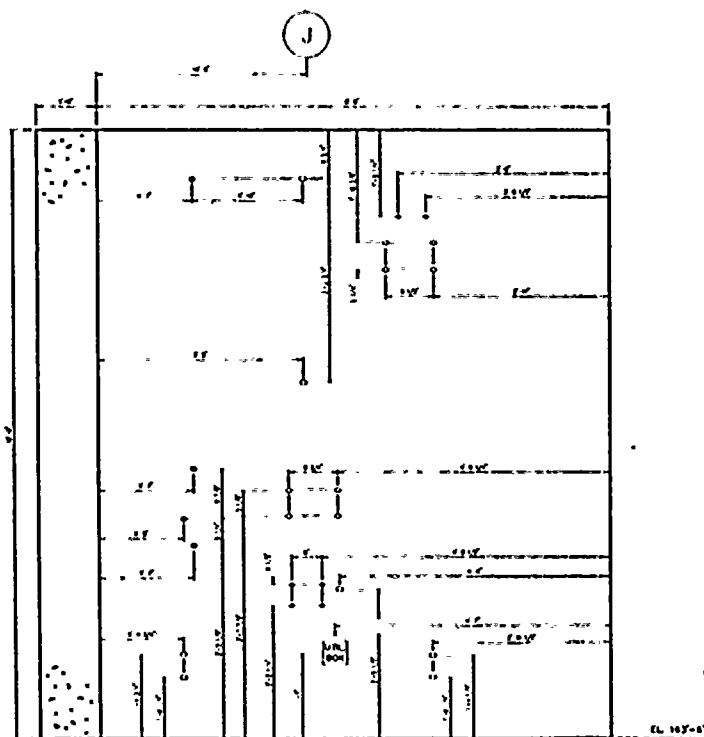
SECTION B-B
 LKG. NORTHWEST
 (FOR OPPOSITE SIDE OF WALLS SEE SK-43A-2)

SECTION C-C
 LKG. NORTH

AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 43-A - AUXILIARY BLDG.											
ELEV. 163'-4"											
PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA											
REV. DATE	DESCRIPTION	REVISIONS	REV. DATE	DESCRIPTION	REVISIONS	REV. DATE	DESCRIPTION	REVISIONS	REV. DATE	DESCRIPTION	REVISIONS
04/17/98	1531620 FOR INFORMATION		04/17/98	1531620 FOR INFORMATION		04/17/98	1531620 FOR INFORMATION		04/17/98	1531620 FOR INFORMATION	
04/17/98	SK-43A-1		04/17/98	SK-43A-1		04/17/98	SK-43A-1		04/17/98	SK-43A-1	

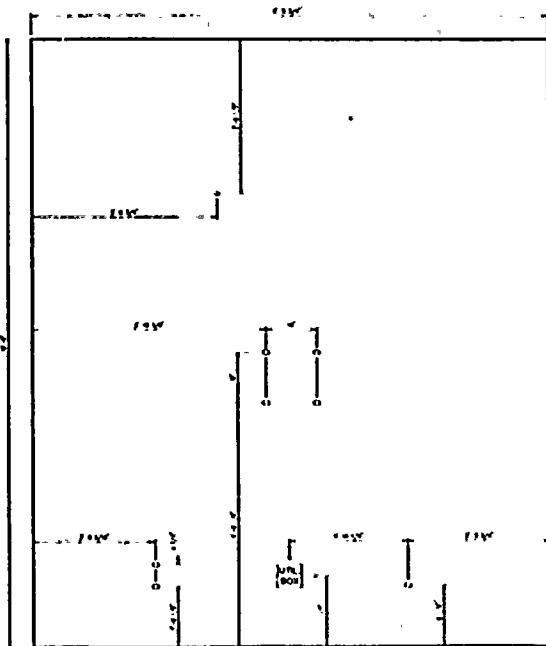


ANCHOR SYMBOLS	
SNU TYPE	SHLL TYPE
11 = 1/4° = ■	
1Δ = 5/16° = Δ	
12 = 3/8° = ◦	
1◊ = 1/2° = ◊	
1⊖ = 5/8° = ⊖	
1★ = 3/4° = ★	
AB=ABANDONED	

WALL 43A



SECTION A-A
LKG. SOUTH



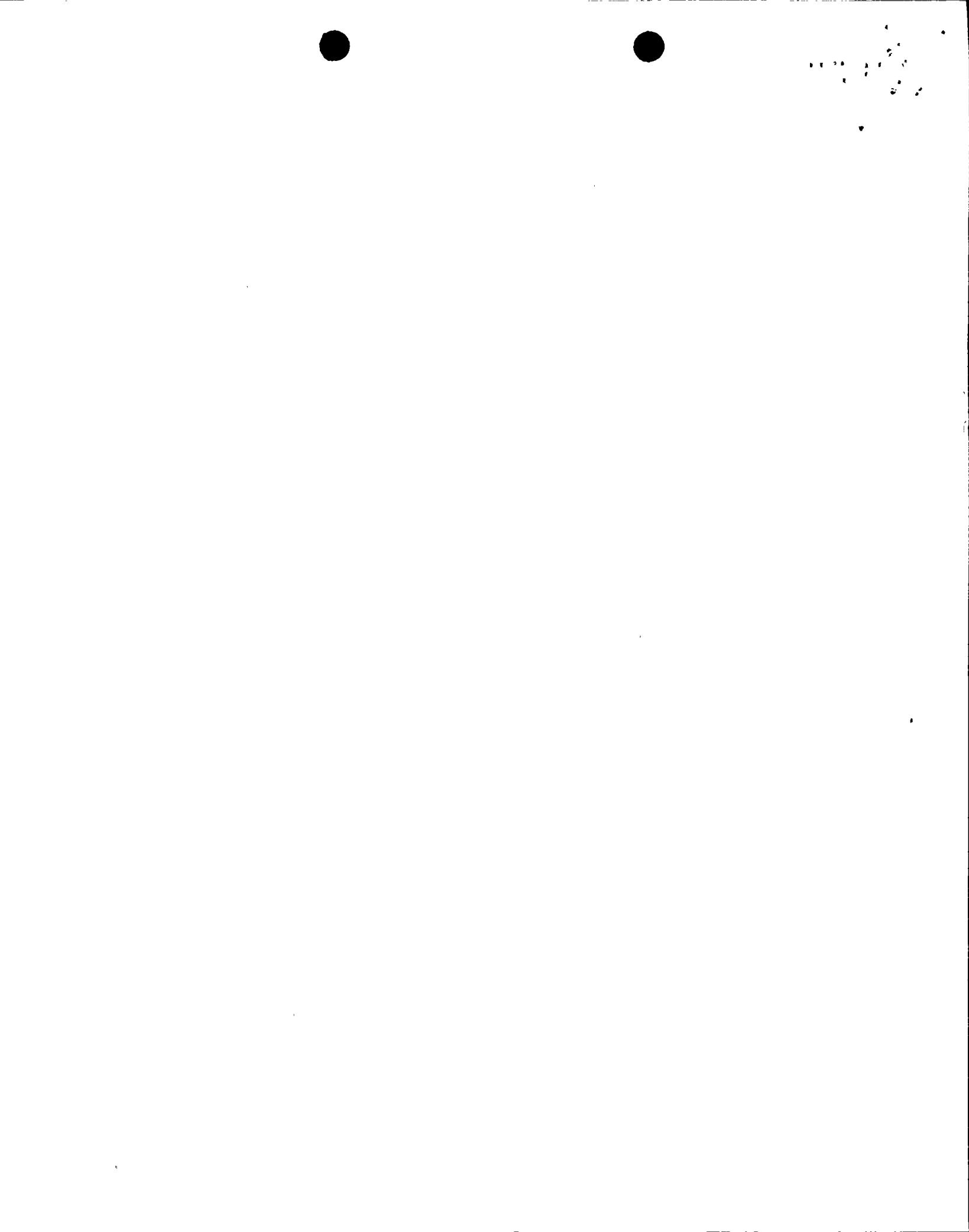
SECTION B-8
LKG. SOUTHEAST

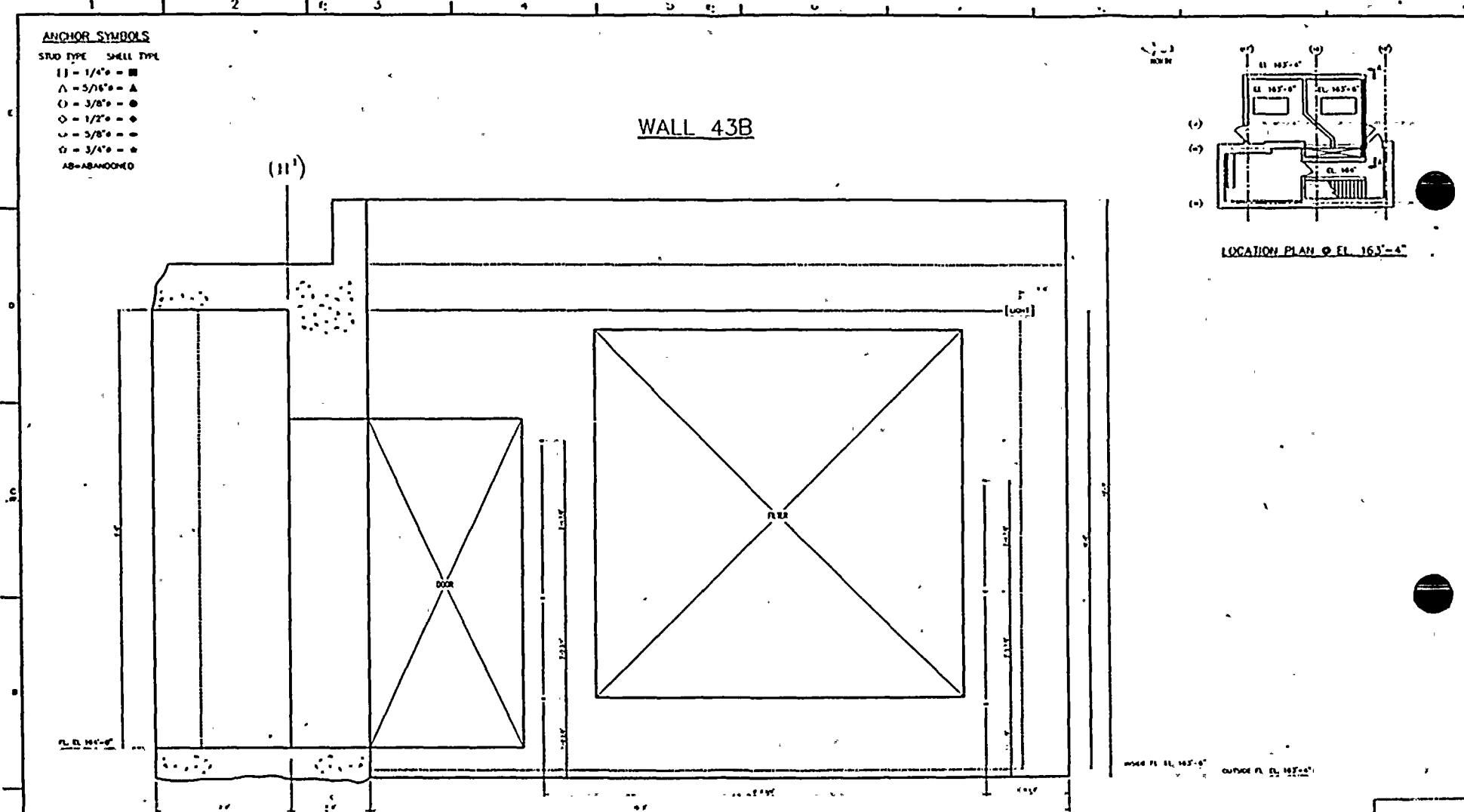


SECTION C-C
LKG. SOUTH

S-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-A - AUXILIARY BLOC.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

PULL ST. NO.	DATE
DIG LIST	REMOVED
SPRING	SWUNG BY
SHED	SHED NO.
BUCKLE	BUCKLE NO.
SK-43A-2	RE

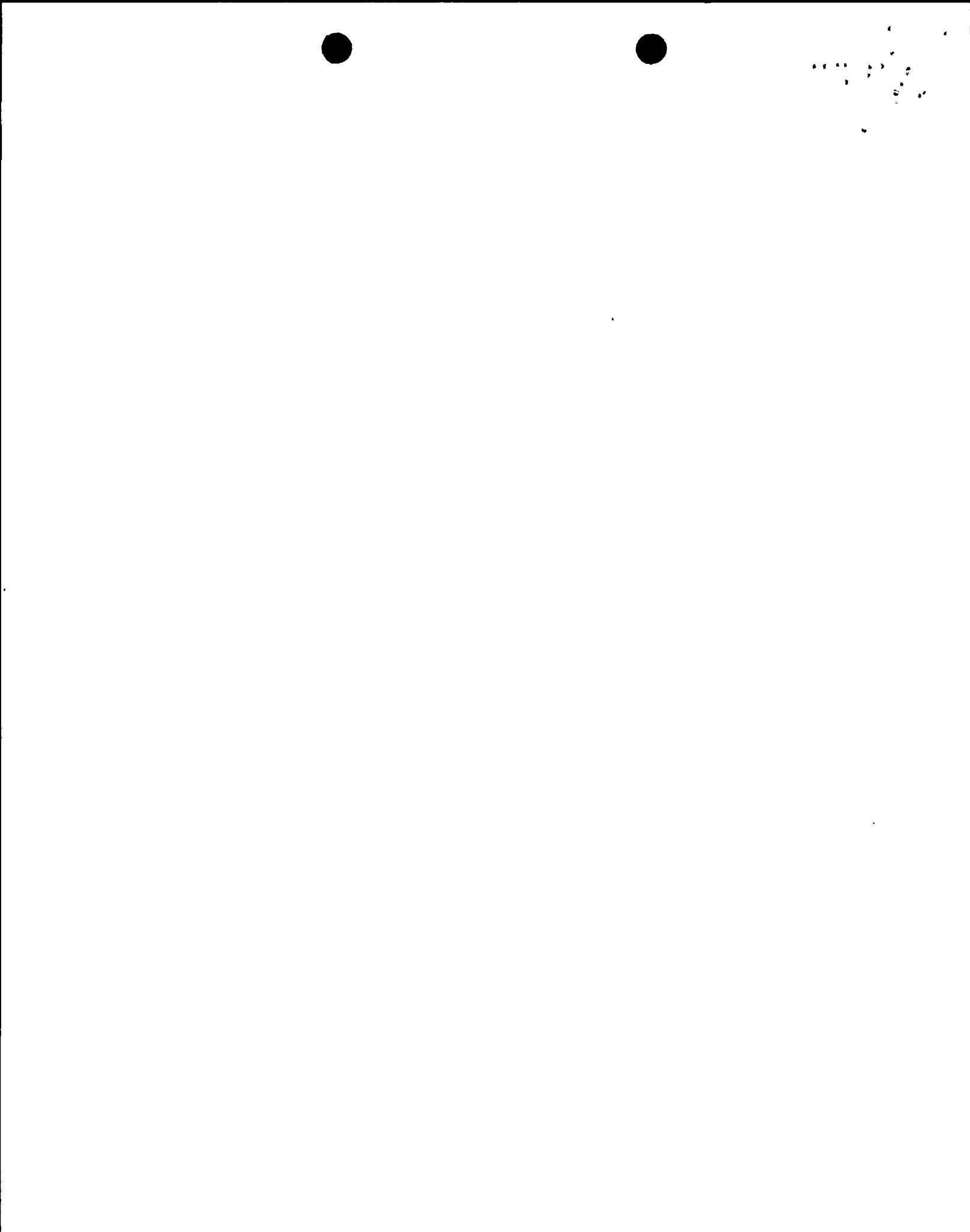


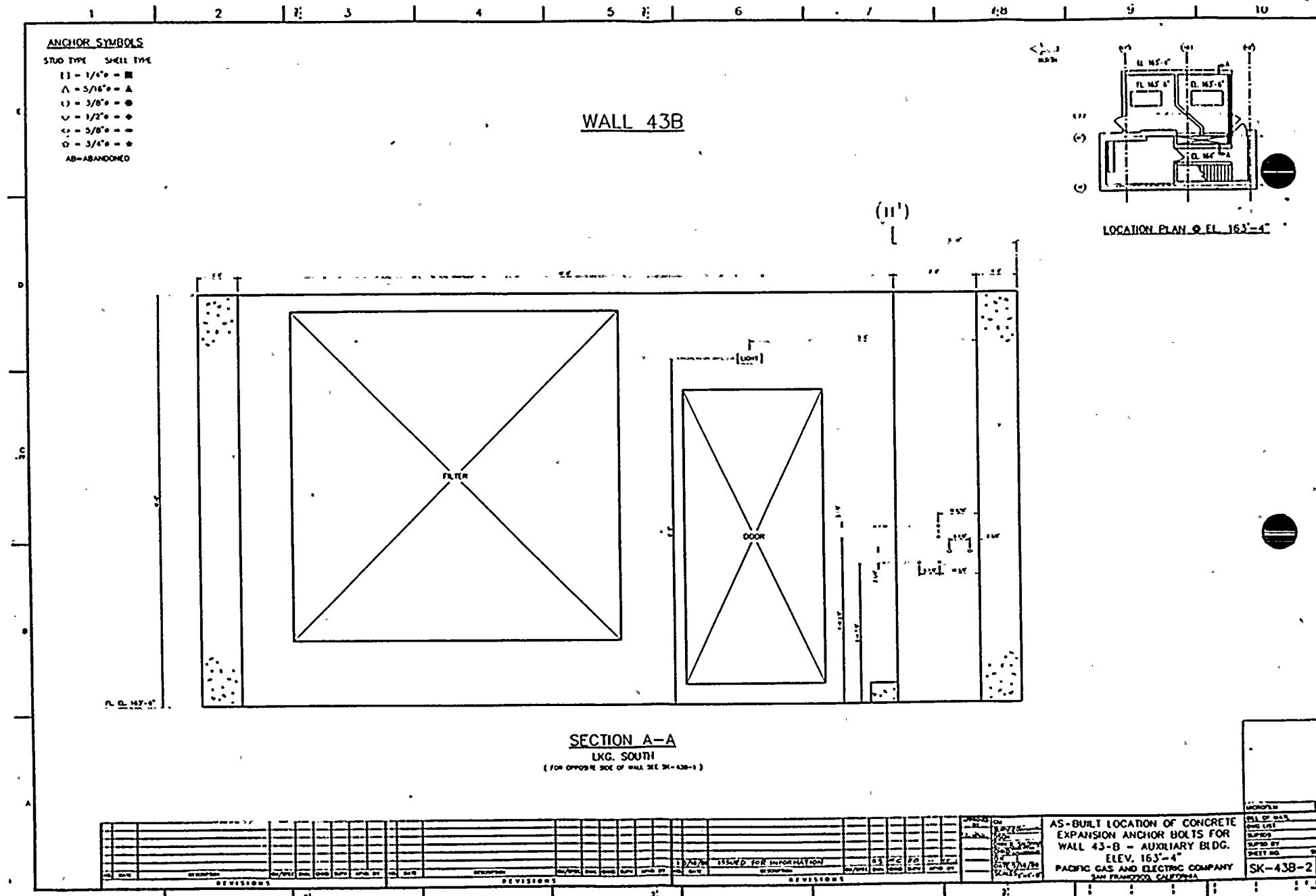


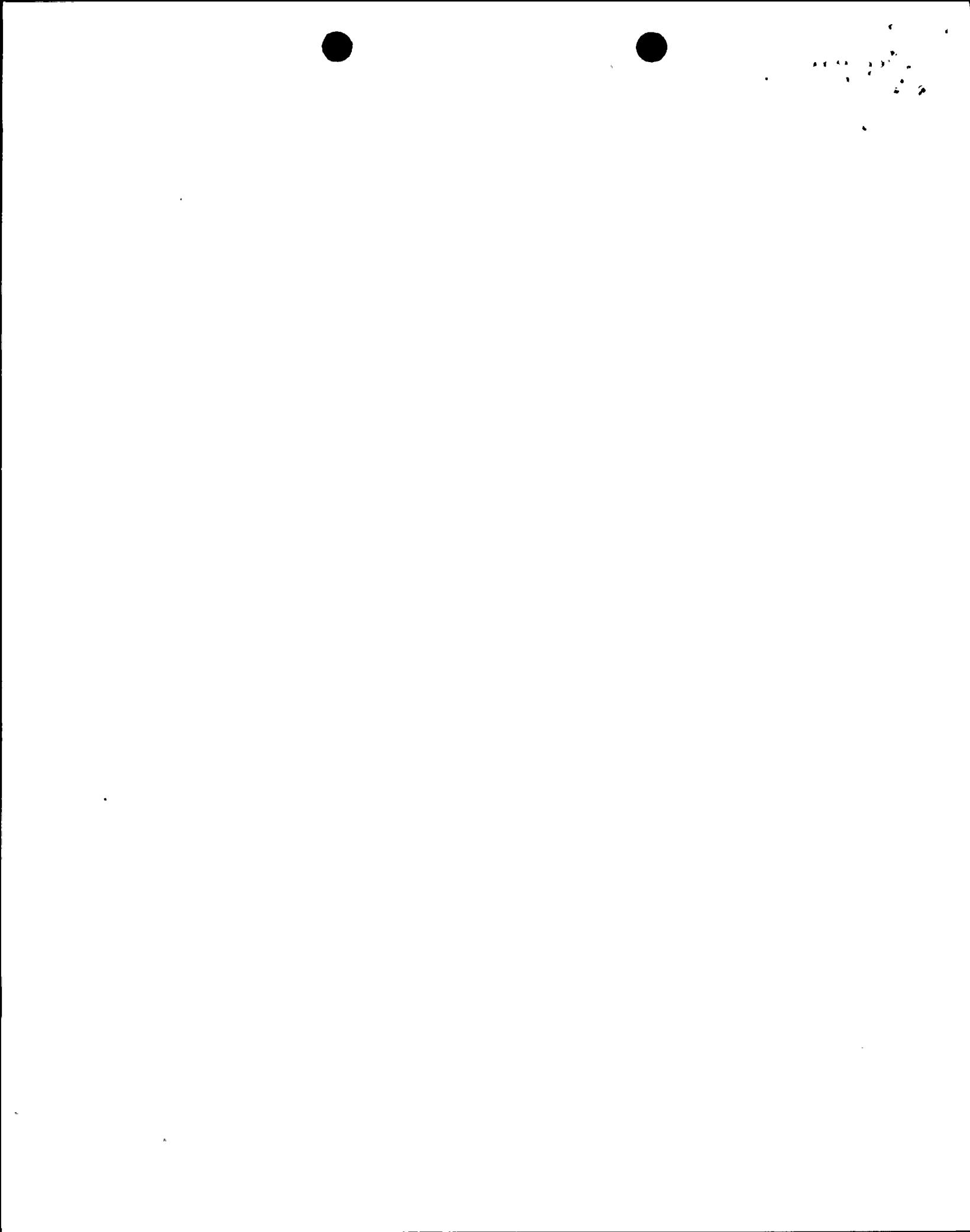
REVISIONS	DESCRIPTION	DATE																

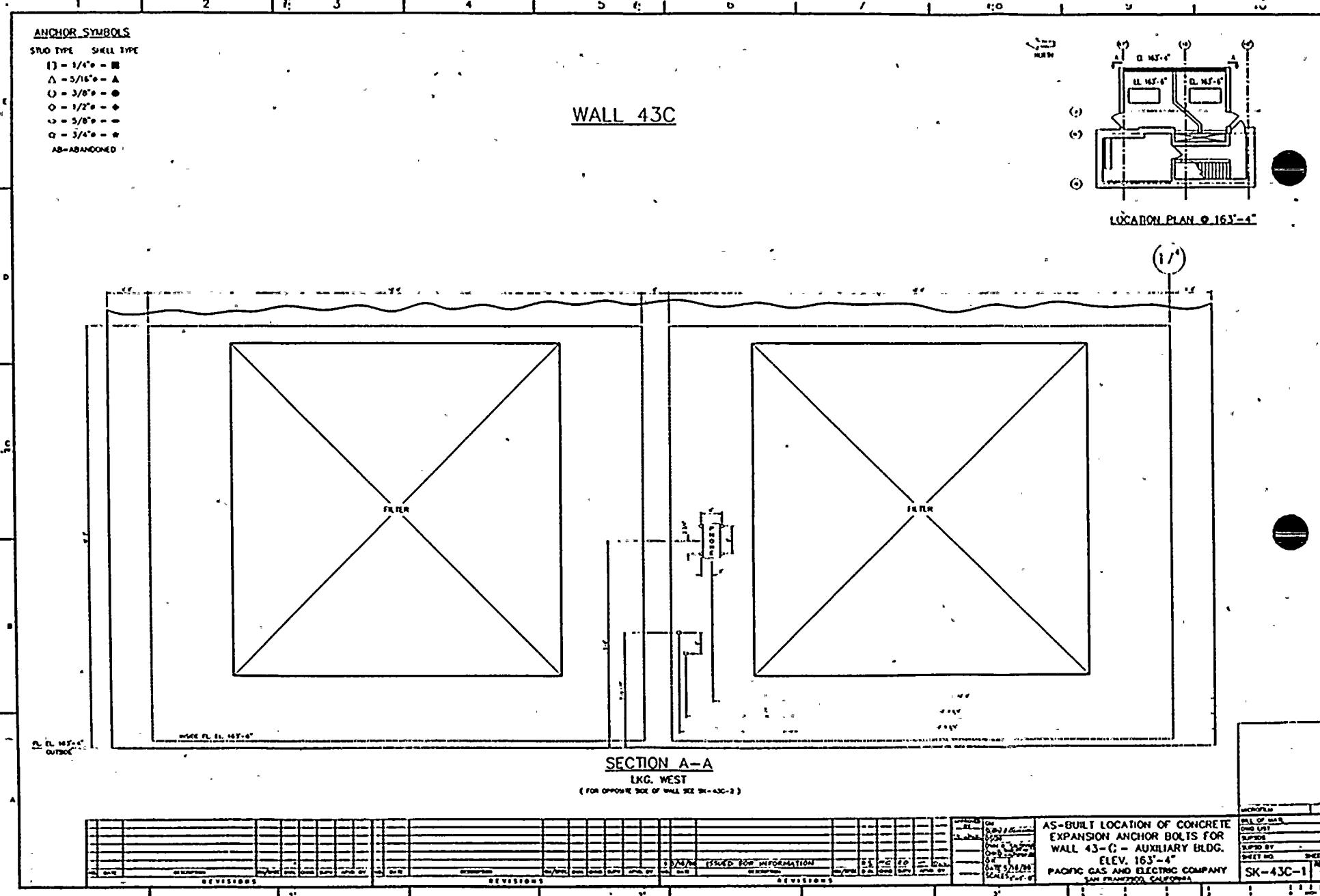
AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 43-B - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

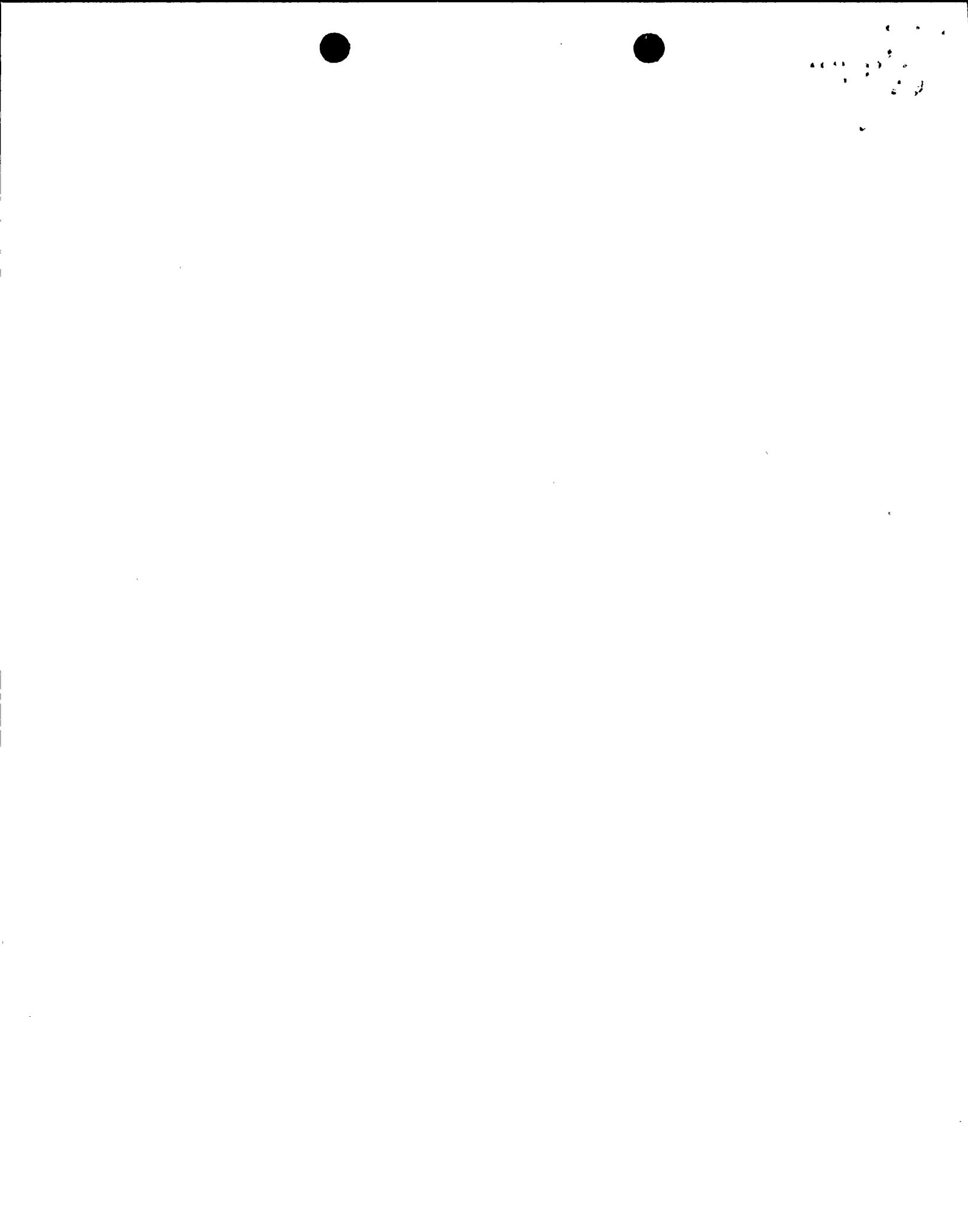
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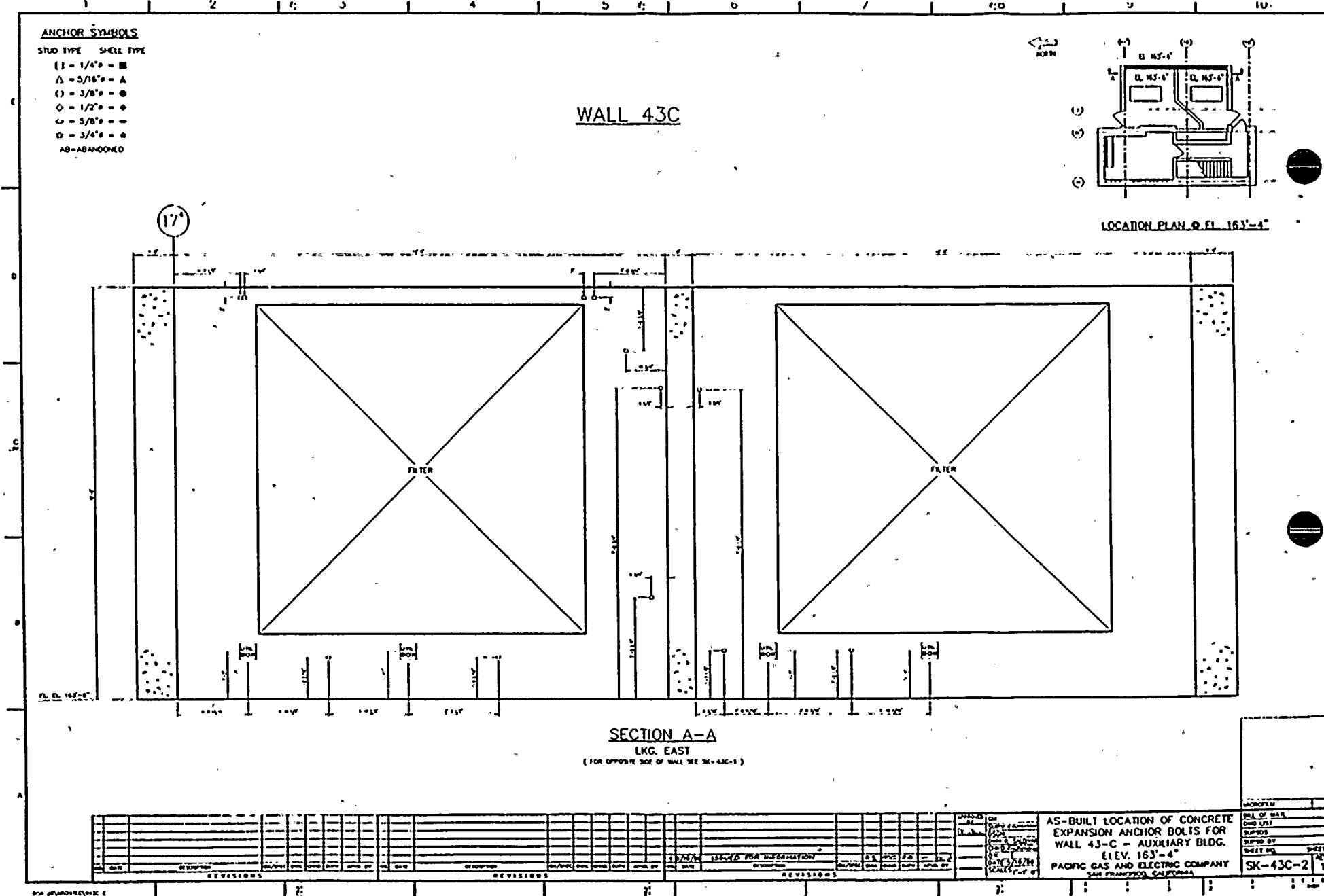


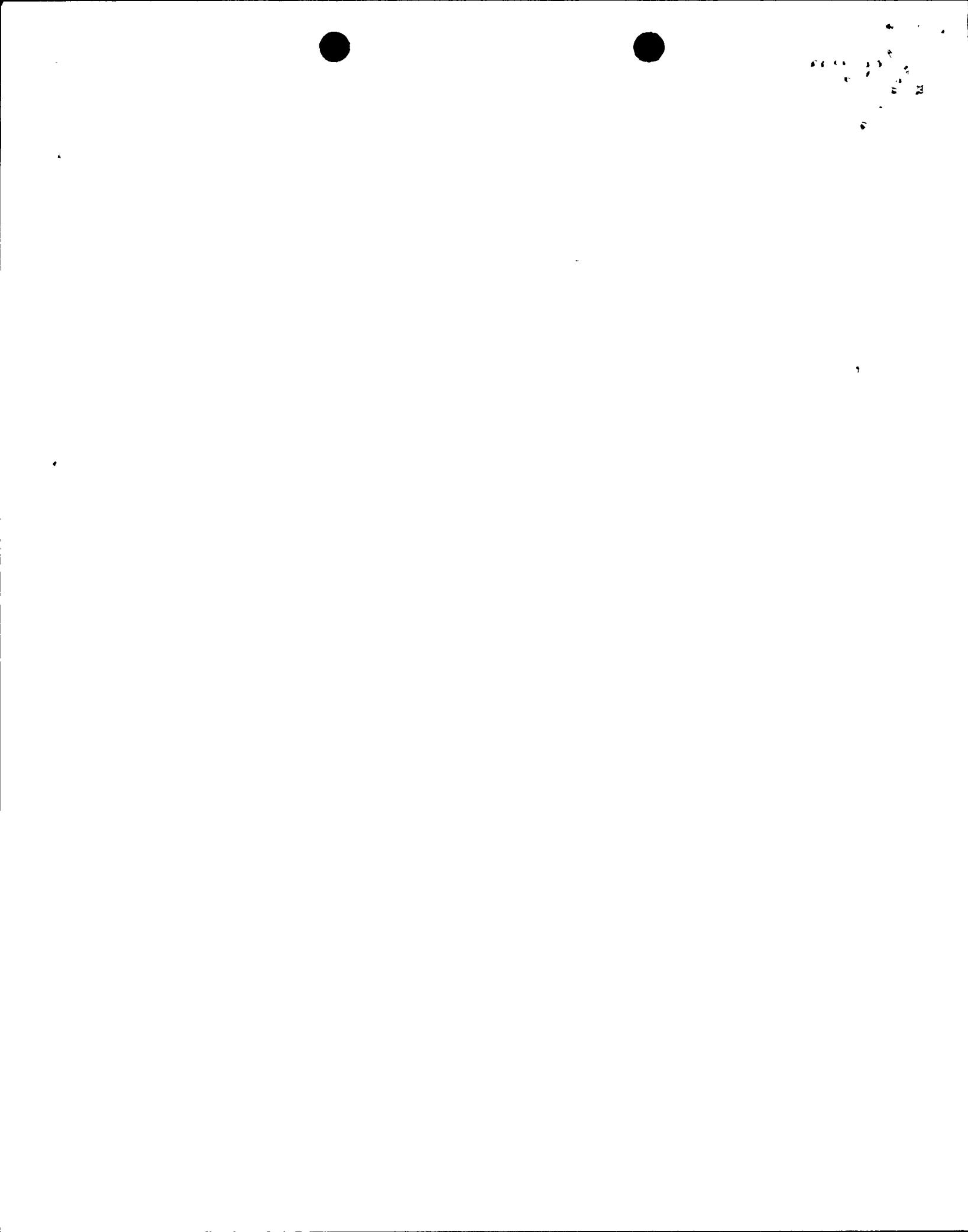


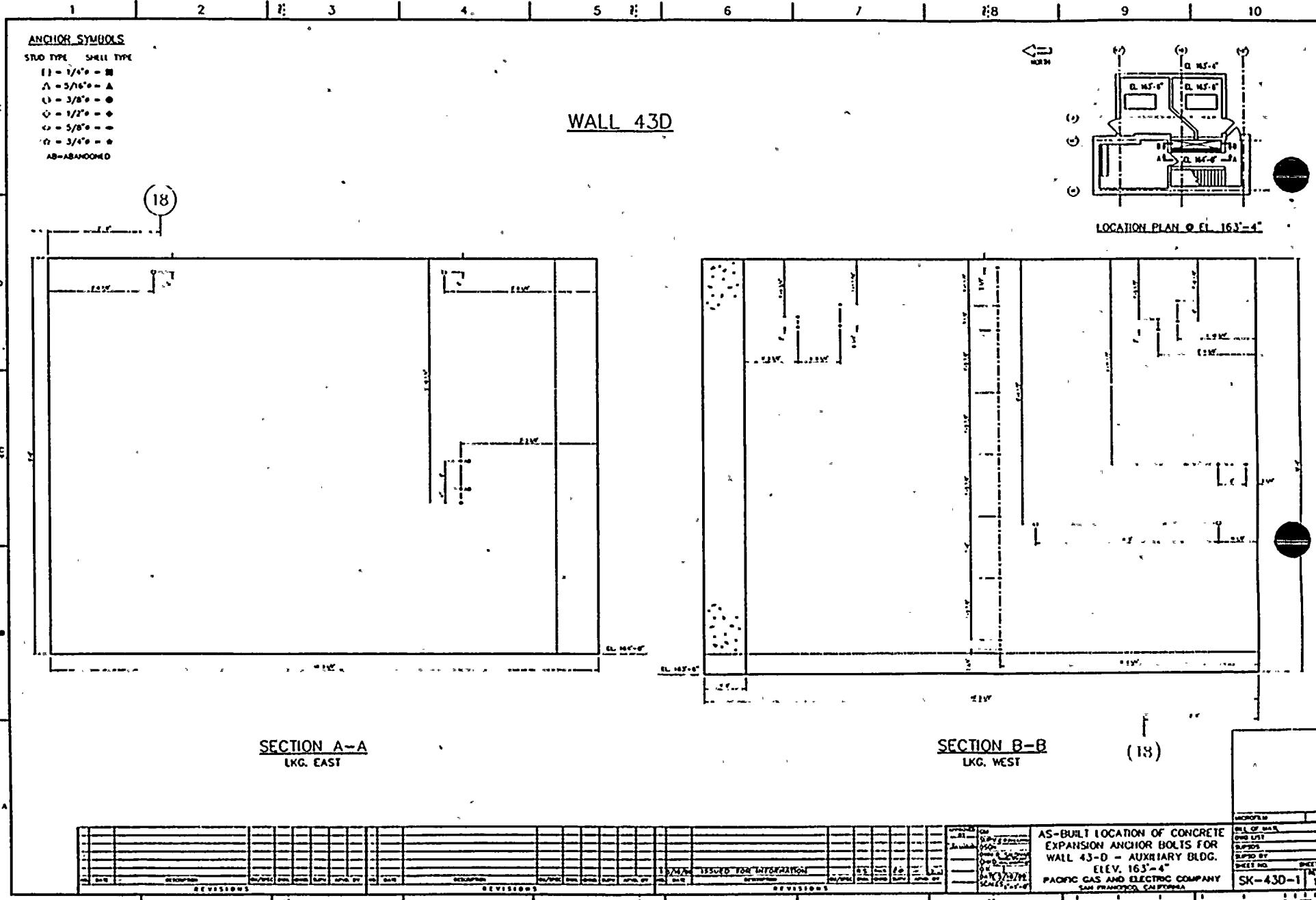




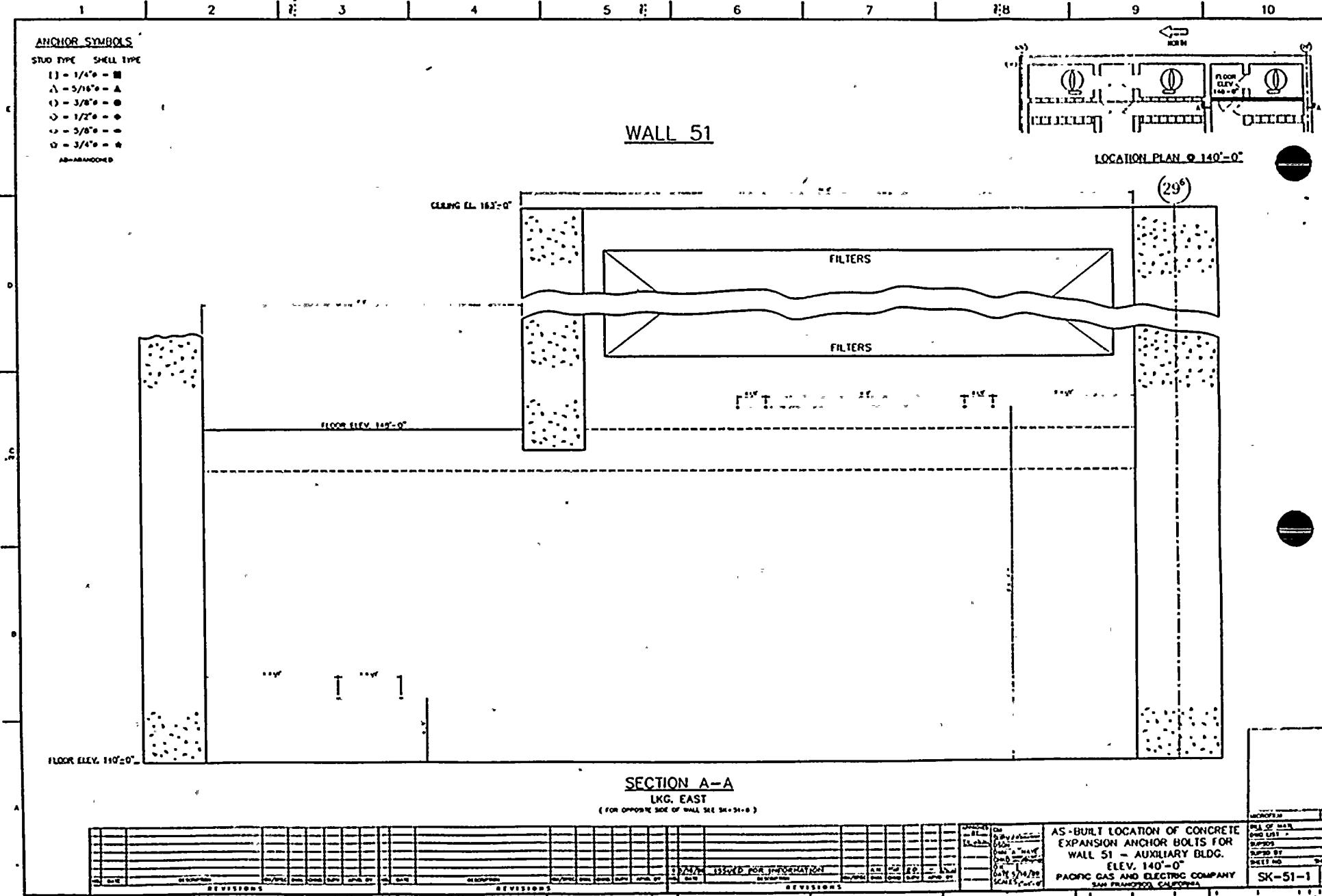


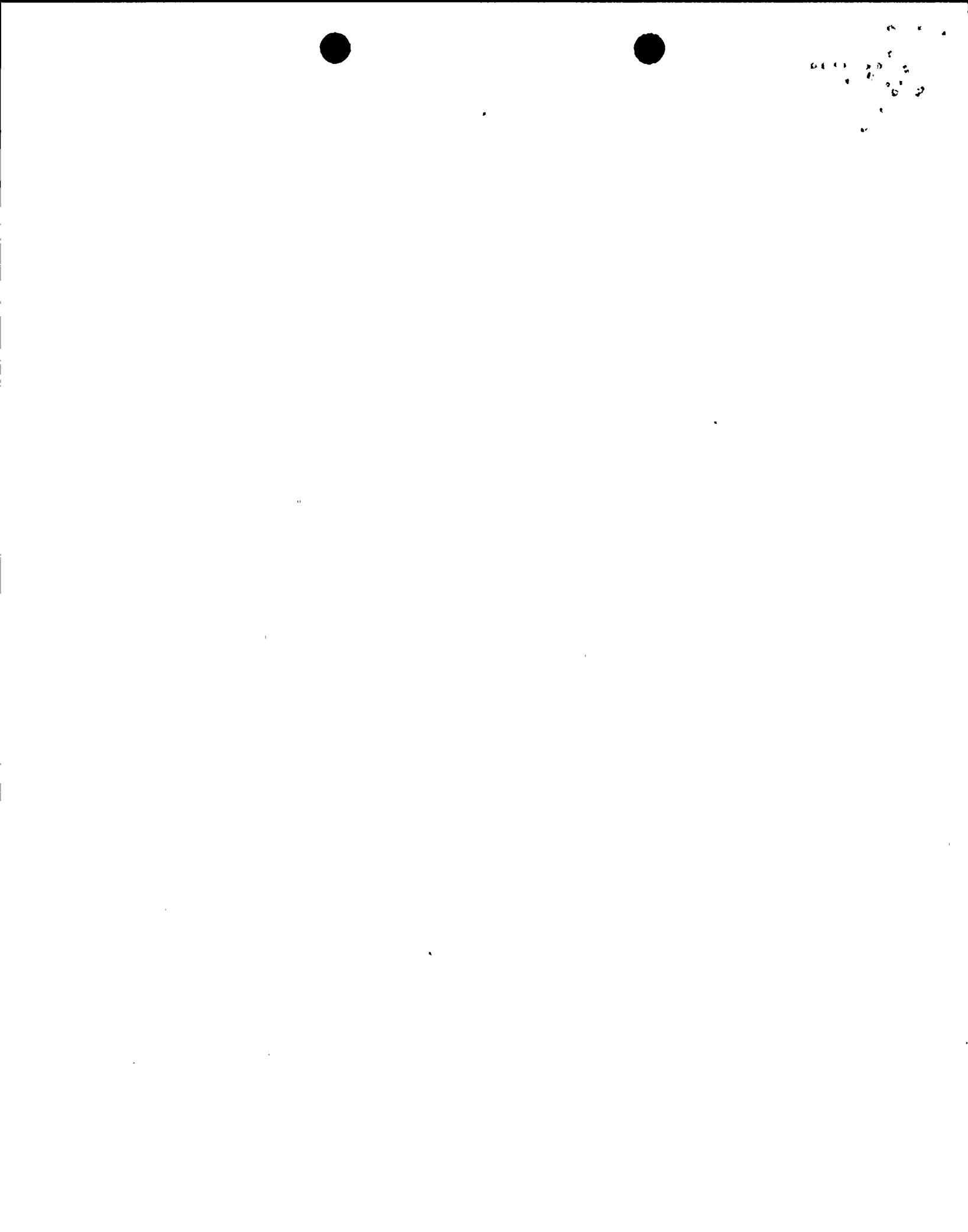












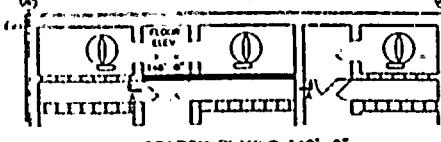
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- () - 1/8" - □
- △ - 3/16" - △
- - 1/4" - ●
- ◇ - 1/2" - ◆
- ◆ - 5/8" - ◆
- - 3/4" - *

AB=ABABOCES

WALL 51



LOCATION PLAN Q 140'-0"

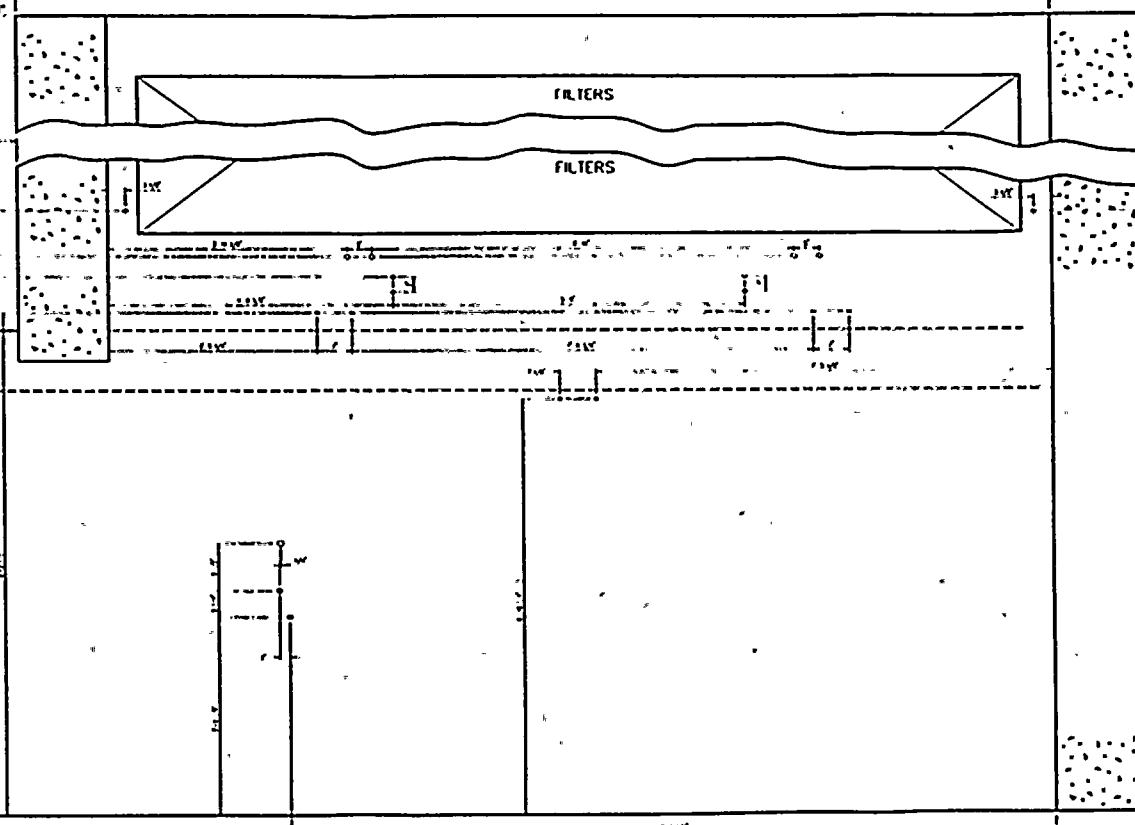
OPENING EL. 140'-0"

FLOOR ELEV. 140'-0"

CAPTION OF DRAWING

FILTERS

FILTERS



FLOOR ELEV. 140'-0"

SECTION A-A

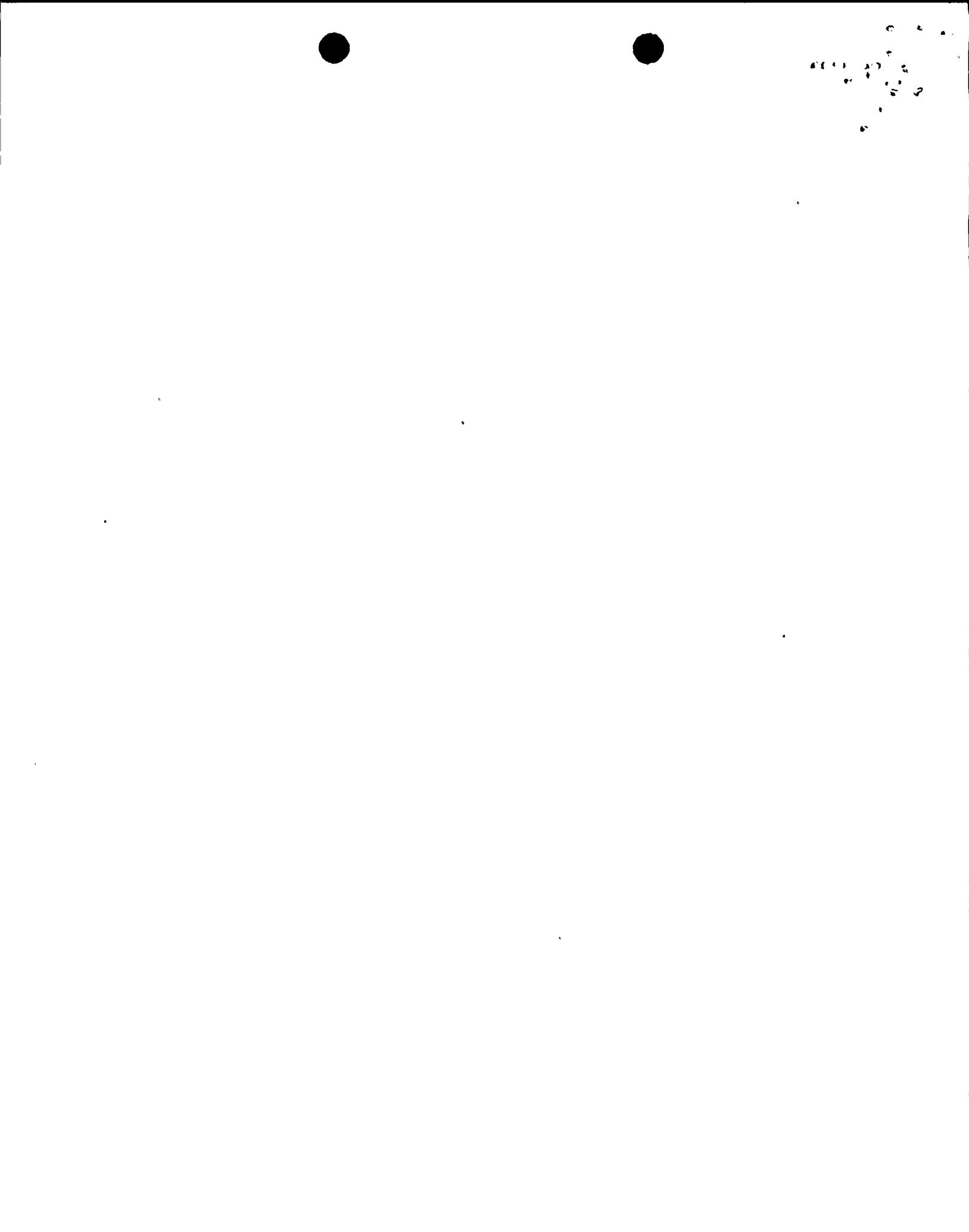
UKG. EAST

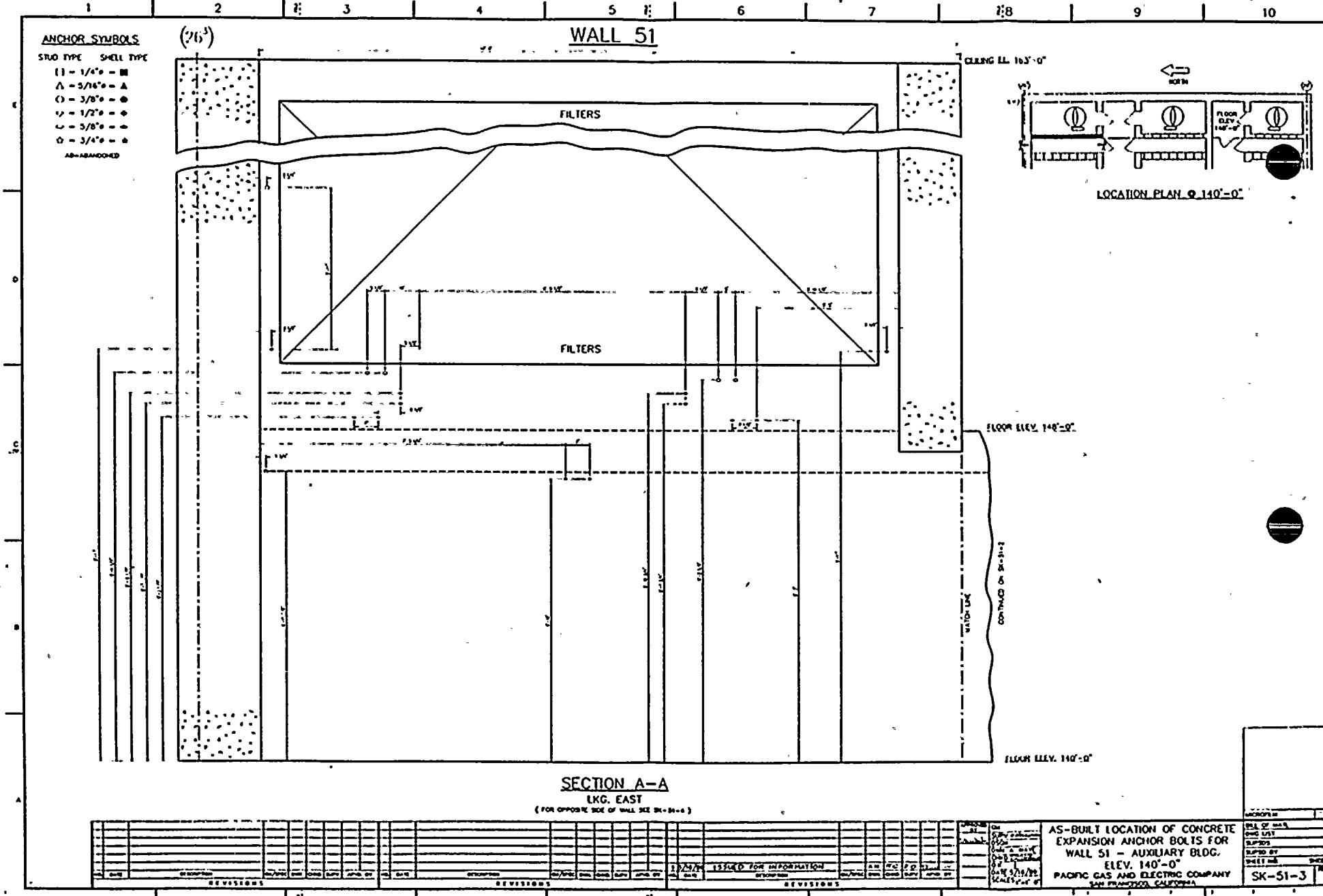
(FOR OPPOSITE SIDE OF WALL SEE SK-51-2)

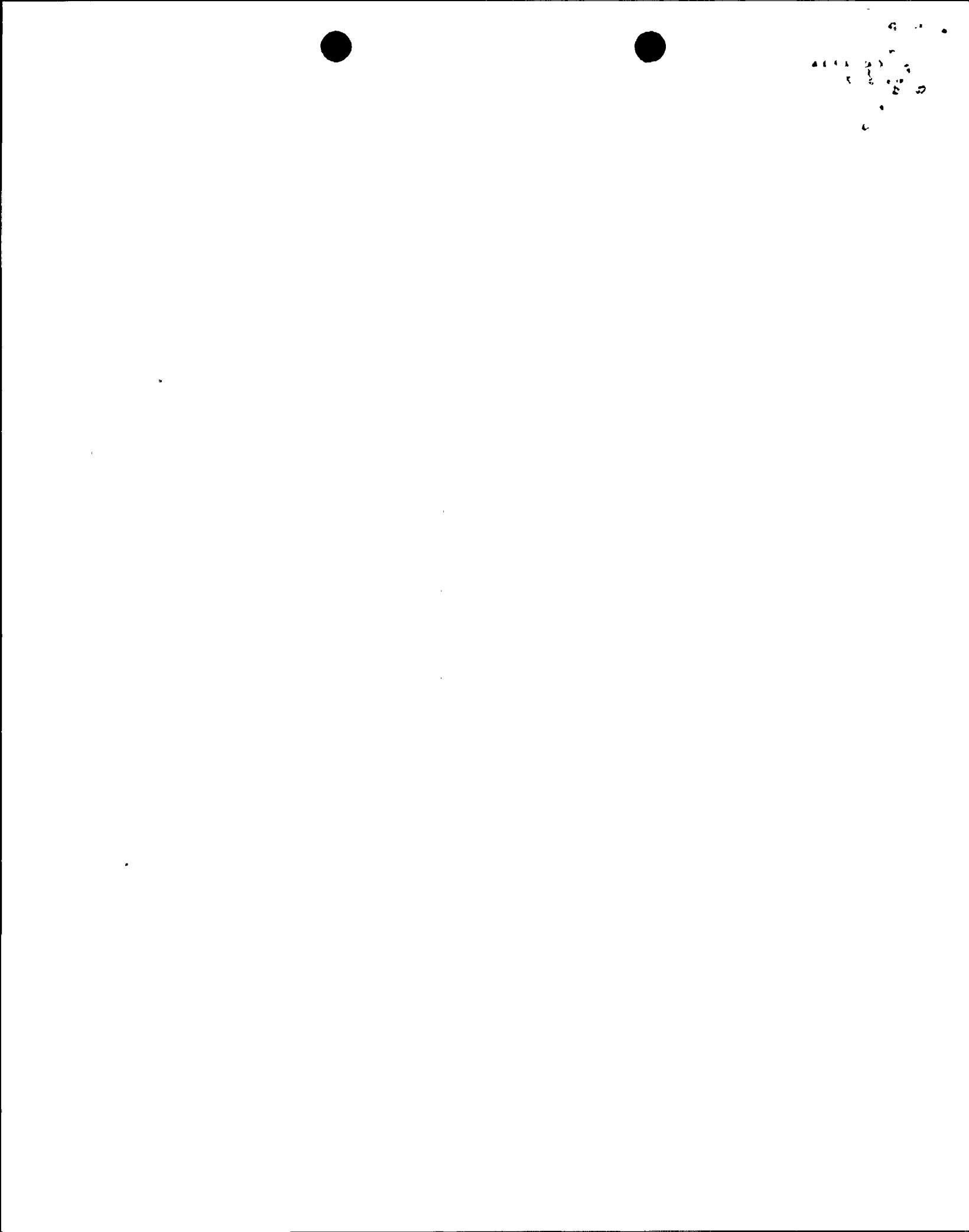
REVISIONS												REVISIONS											
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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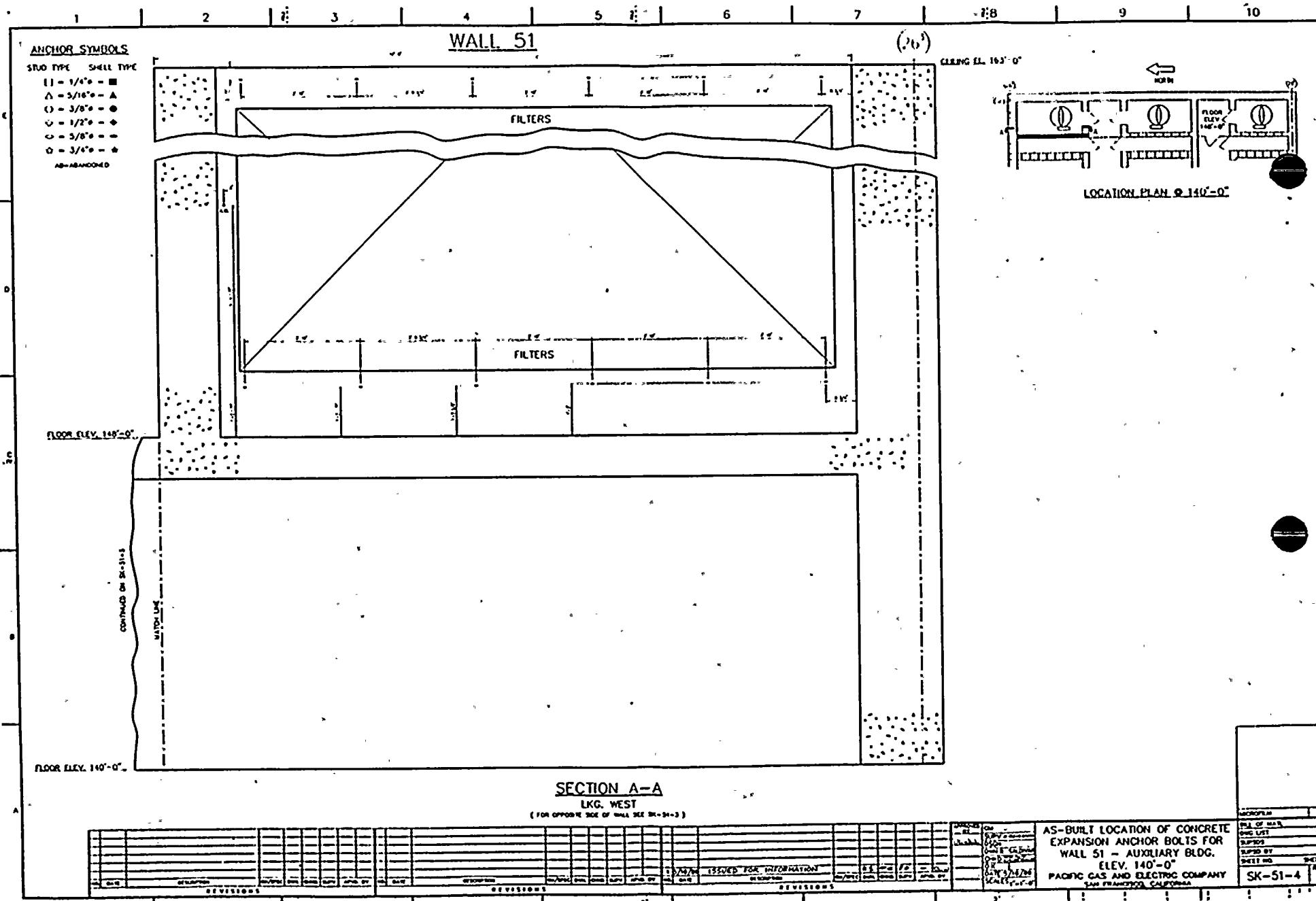
AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 51 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA
SK-S1-2

1

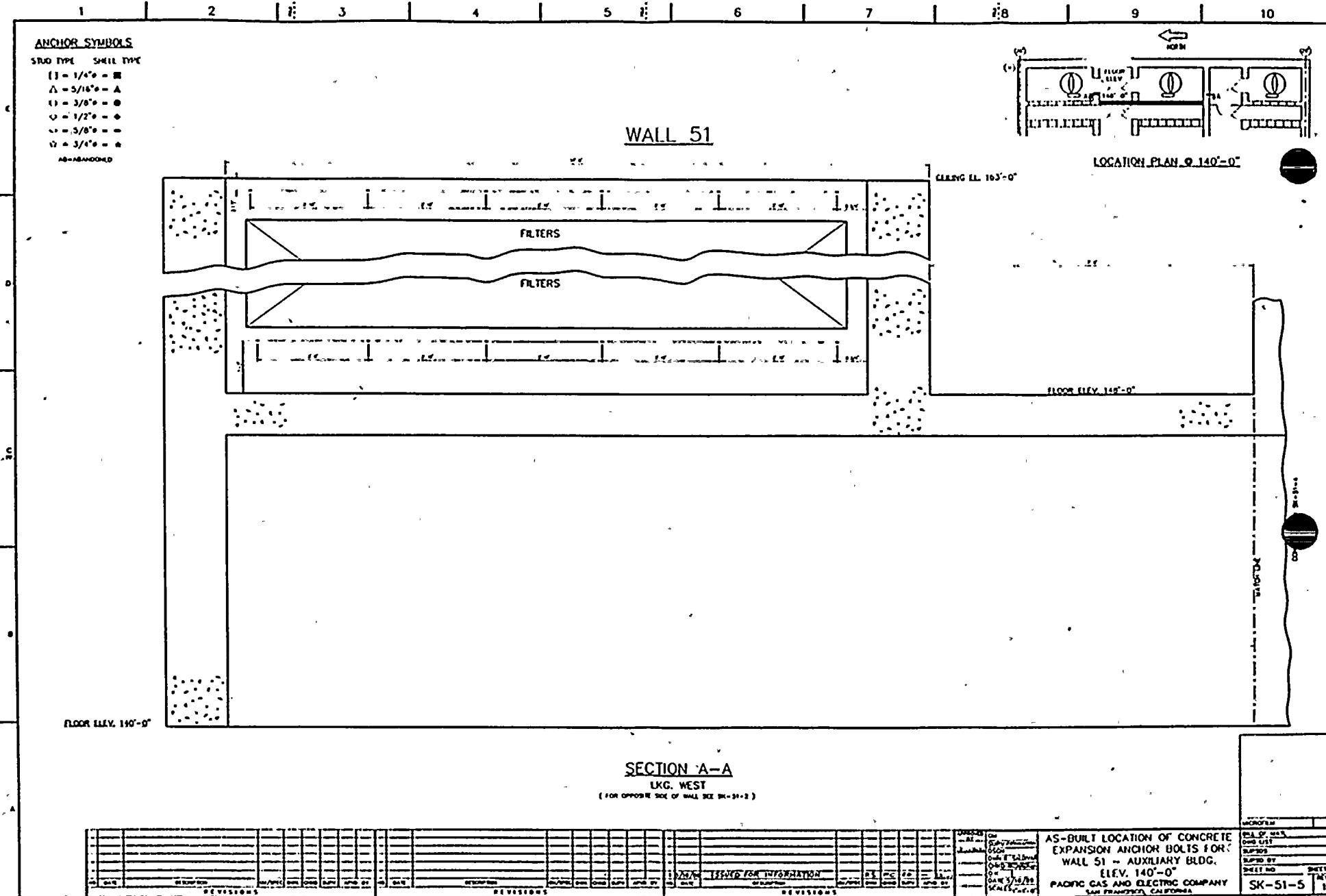






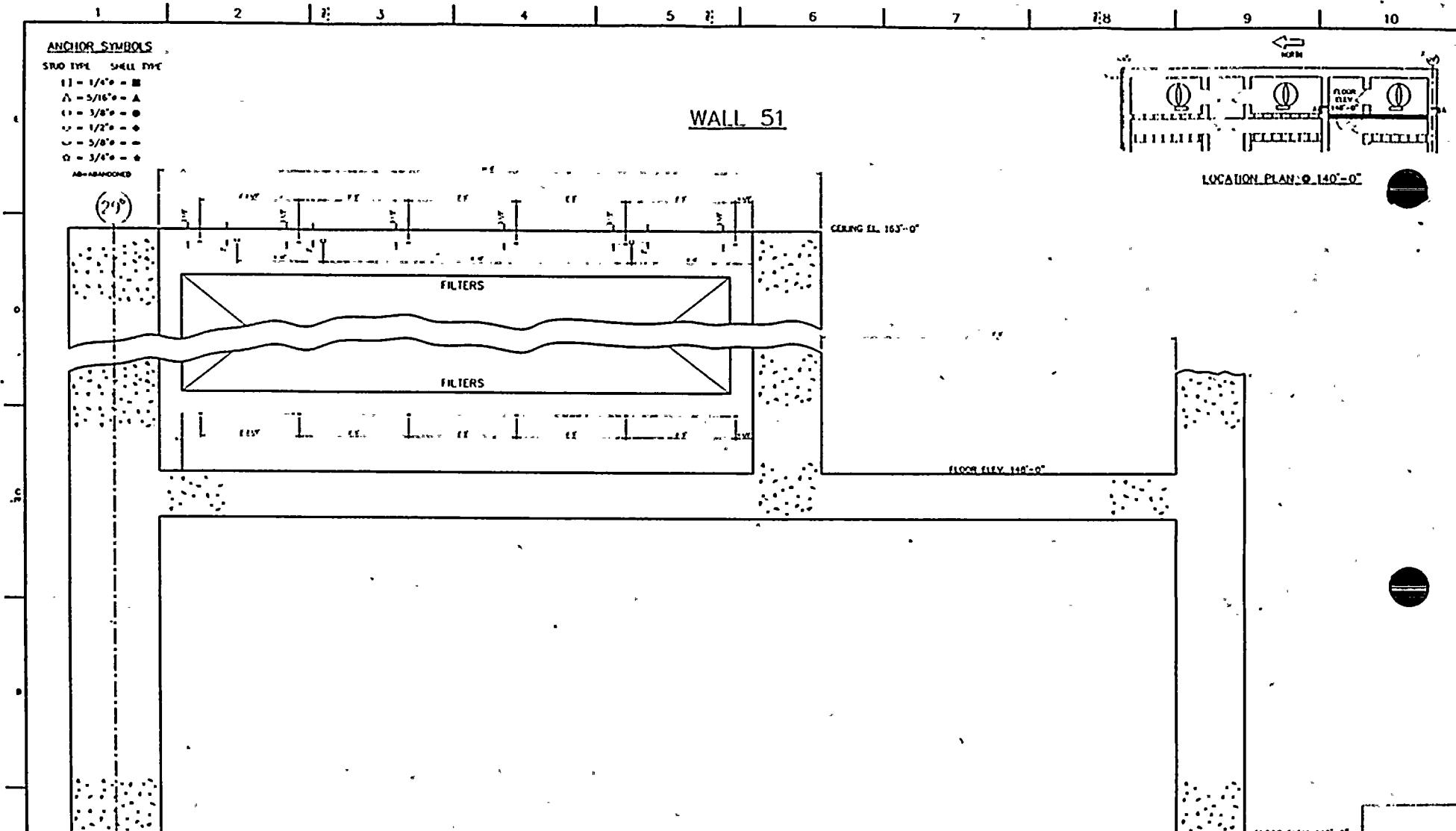






46-19-6

RECEIVED
FEB 1966

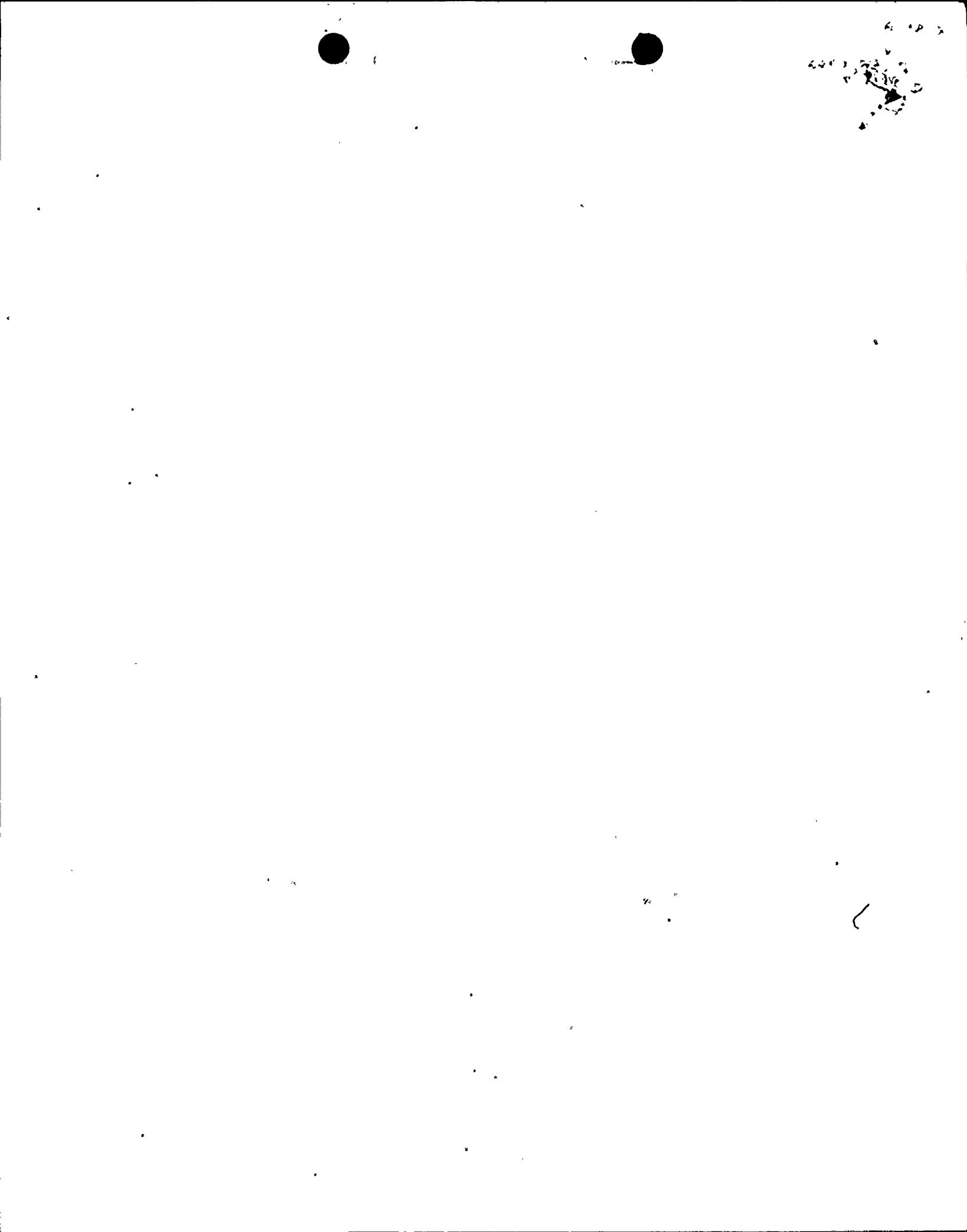


SECTION A-A
LKG. WEST
(FOR OPPOSITE SIDE OF WALL SEE SK-51-2)

| REVISIONS |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
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AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR
WALL 51 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
ROLL OF MAP
INDEX LIST
SUPPLY
SUPER BY
SPEC NO
PAGES
REV. ALV
SK-51-6 1



1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

NOTE:

STUD TYPE SHELL TYPE

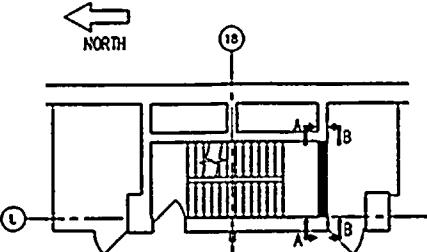
- - 1/4"φ = ■
 △ - 5/16"φ = ▲
 ○ - 3/8"φ = ●
 ◇ - 1/2"φ = ◆
 ○ - 5/8"φ = ◦
 ☆ - 3/4"φ = ★

BOLTS NOT ACCESSIBLE.
SINCE NO ANCHOR BOLTS ON
OPPOSITE SIDE NO FURTHER
INVESTIGATION REQUIRED.

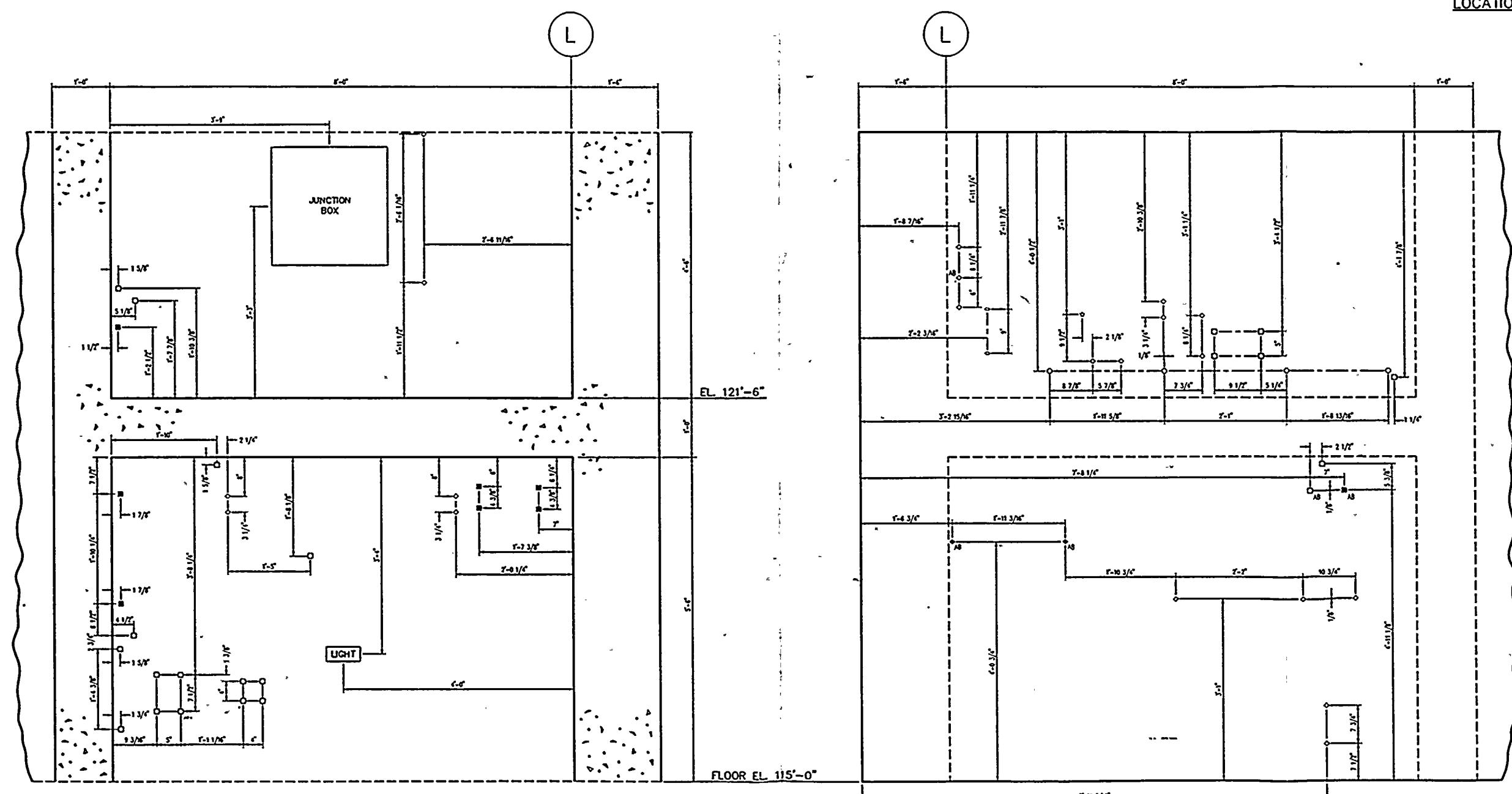
AB=ABANDONED

JUNCTION BOX ANCHOR
BOLTS NOT ACCESSIBLE.
SINCE NO ANCHOR BOLTS ON
OPPOSITE SIDE NO FURTHER
INVESTIGATION REQUIRED.

WALL 26A



LOCATION PLAN @ EL. 115'



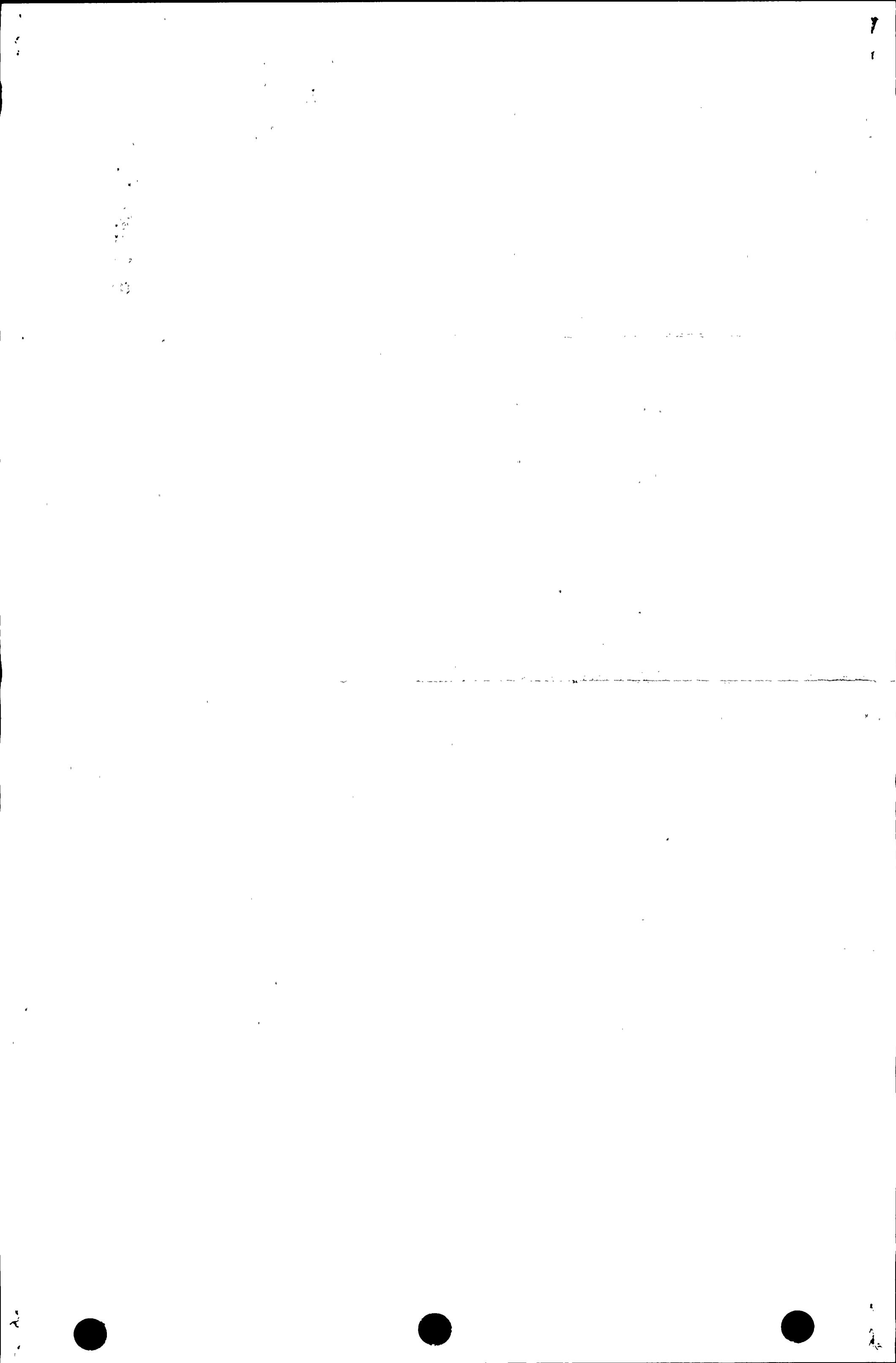
SECTION A-A

LKG. SOUT.

SECTION B-B

LKG. NORTH

8906140286-01



1

2

1

ANCHOR SYMBOLS

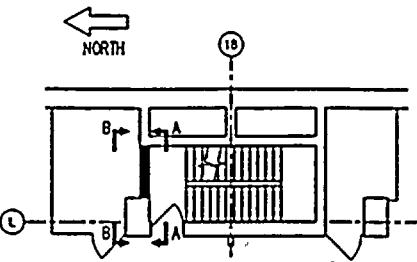
NOTE

STUD TYPE SHELL TYPE

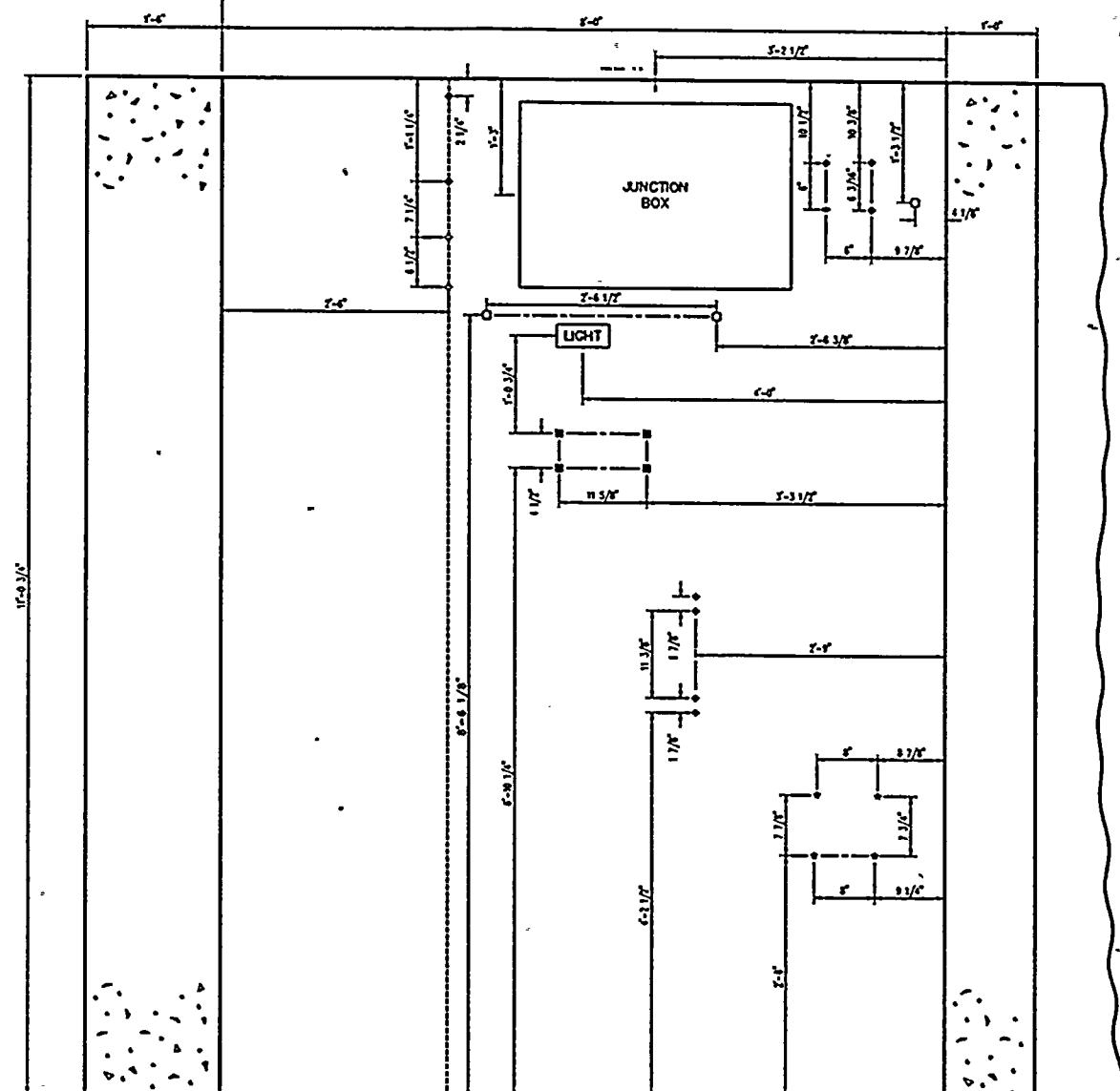
- = 1/4"φ = ■
 △ = 5/16"φ = ▲
 ○ = 3/8"φ = ●
 ◇ = 1/2"φ = ◆
 ◉ = 5/8"φ = ◉
 ☆ = 3/4"φ = ★
 AB=ABANDONED

JUNCTION BOX ANCHOR
BOLTS NOT ACCESSIBLE.
SINCE NO ANCHOR BOLTS ON
OPPOSITE SIDE NO FURTHER
INVESTIGATION REQUIRED.

WALL 26B

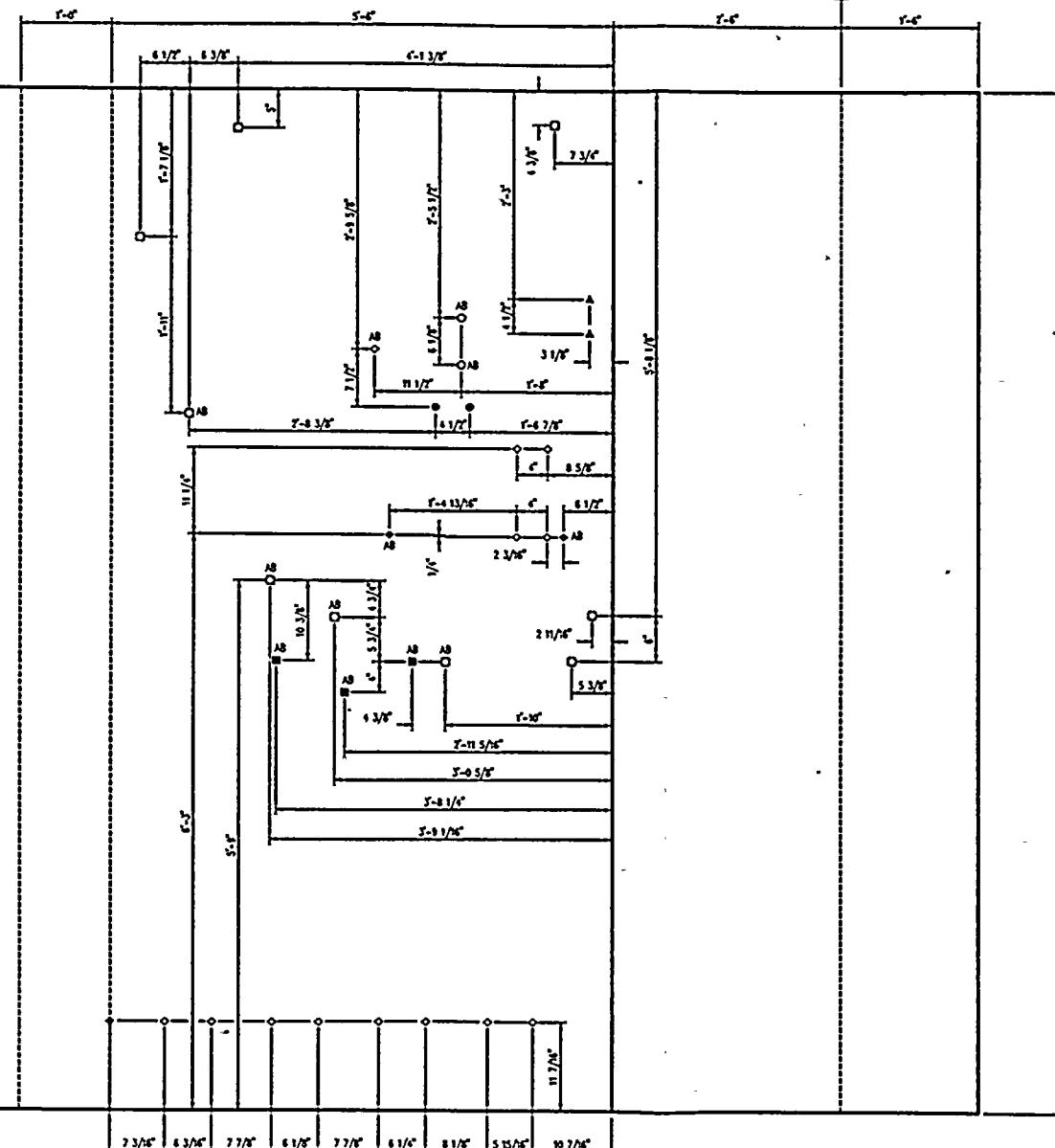


LOCATION PLAN @ EL. 115'



SECTION A-A

LKG. NORTH



SECTION R-R

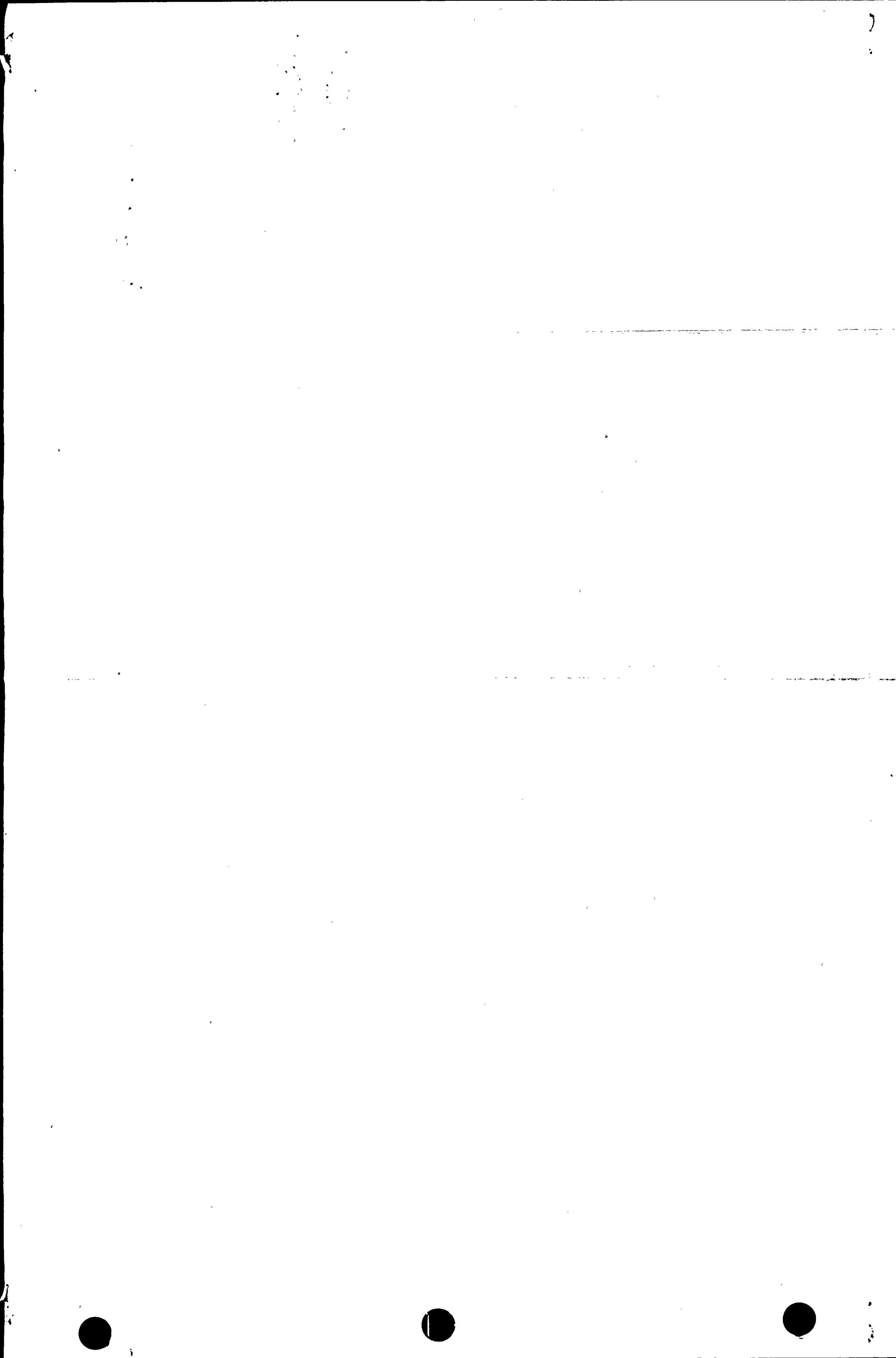
LKG. SOUTH

8906140286-02

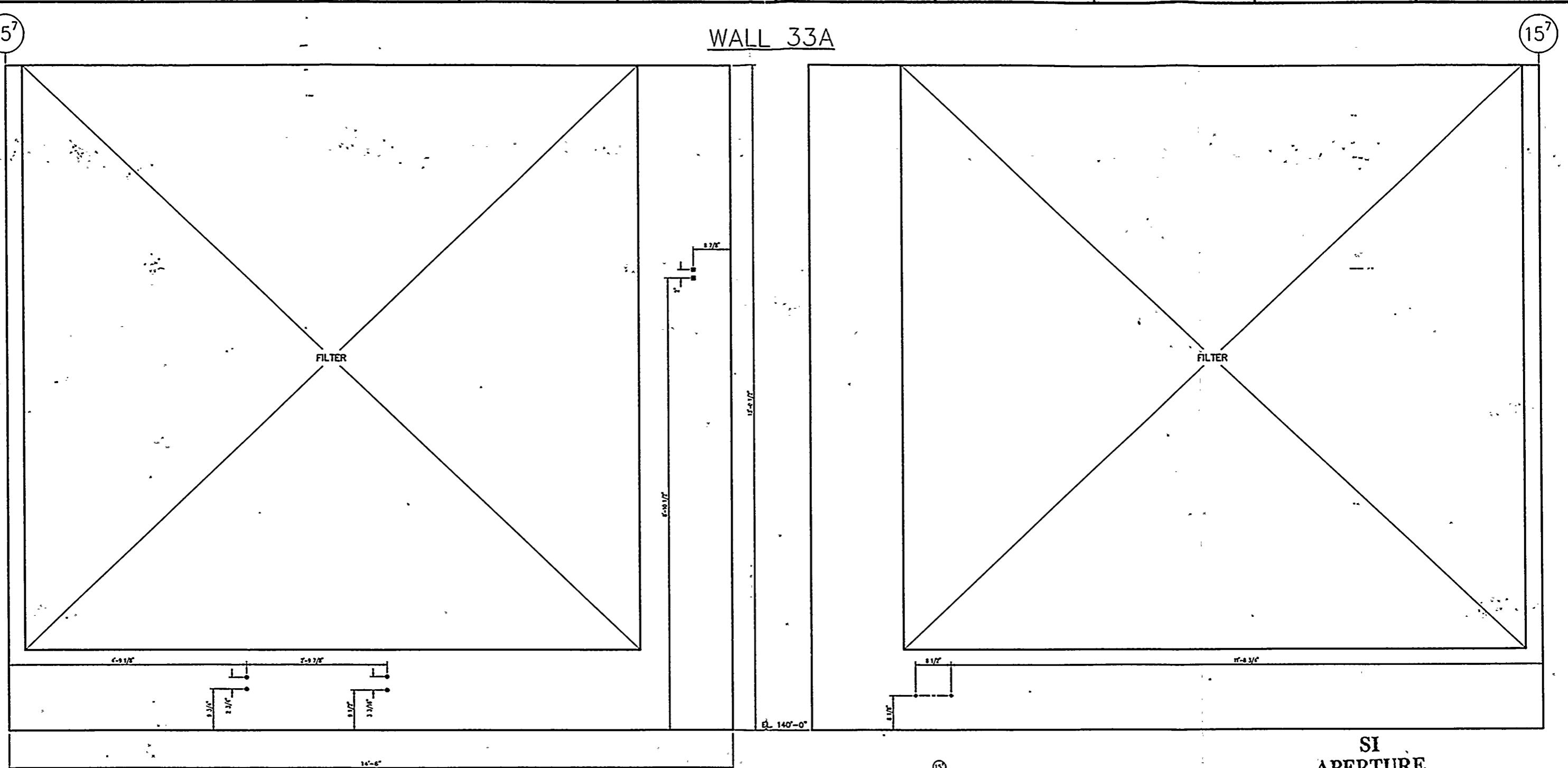
REVISIONS						REVISIONS									
NO.	DATE	DESCRIPTION	CH/SPEC	DRAW.	CHKD.	SUPV.	APVD.	BY	NO.	DATE	DESCRIPTION	CH/SPEC	DRAW.	CHKD.	SUPV.

					APPROVED BY	GM SUPV. POSILLINA DWN. R. SALDIVAR CHKD O.K.	AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 26-B - AUXILIARY BL. ELEV. 115'-0"
15/16/83	ISSUED FOR INFORMATION	R.S.	F.C.	R.O.	—	DWN. BY NO. DATE	DATE 5/16/83
	DESCRIPTION	GW/SPEC	DRAW.	DRAUL.	SUPV.	APPROVED BY	SCALES 1'-0"
	REVISIONS						PACIFIC GAS AND ELECTRIC COMP. SAN FRANCISCO, CALIFORNIA

MICROFILM
 BILL OF MATER.
 DWG LIST
 SUPSDS
 SUPSD BY
 SHEET NO. REV.
 SK-26B-1 1



WALL 33A



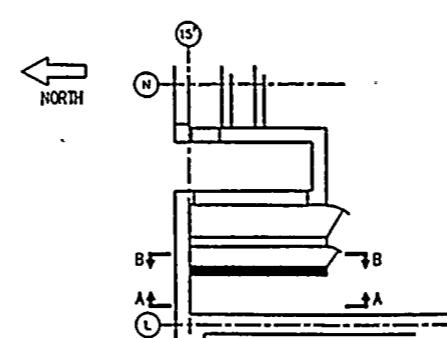
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- = $1/4^\circ$ = ■
 △ = $5/16^\circ$ = ▲
 ○ = $3/8^\circ$ = ●
 ◇ = $1/2^\circ$ = ◆
 ◉ = $5/8^\circ$ = ◉
 ☆ = $3/4^\circ$ = ★

AB=ABANDONED

SECTION A-A
LKG. EAST



SECTION B-B
LKG. WEST

**Also Available On
Aperture Card**

LOCATION PLAN @ EL. 140'

					APPROVED BY	CM SUPV./OSWALD DSGN. DWN. R. SALDIVAR CHKD. OK.	AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 33-A - AUXILIARY BLDG. ELEV. 140'-0"
15/16/89 - ISSUED FOR INFORMATION	R.S.	FC	R.O.	- DWN			PACIFIC GAS AND ELECTRIC COMPANY
NO. DATE	DESCRIPTION	CM/SPEC	DW/L	DHD.	SUPV.	APVD. BY	SAN FRANCISCO, CALIFORNIA

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 33-A - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY

PROFIL	
L OF MTL	
G LST	
PSDS	
PSD BY	
EET NO.	SHEETS
SK-33A	REV.
	1

二〇二〇年六月

1 2 3 4 5 6 7 8. 9 10

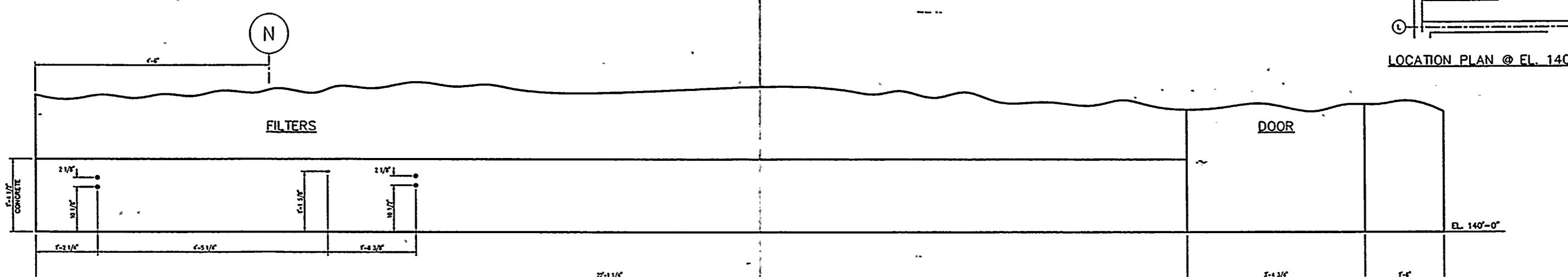
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

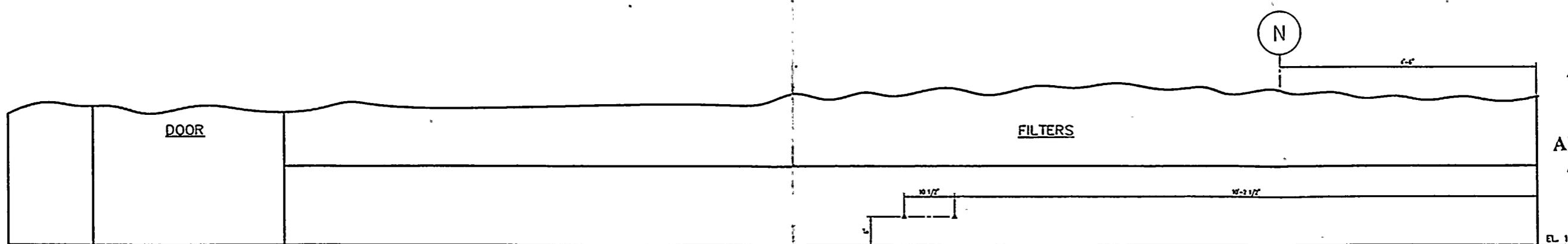
<input type="checkbox"/>	= 1/4" o = ■
<input type="triangle"/>	= 5/16" o = ▲
<input type="circle"/>	= 3/8" o = ●
<input type="diamond"/>	= 1/2" o = ◆
<input type="circle"/>	= 5/8" o = ◻
<input type="star"/>	= 3/4" o = ★

AB = ABANDONED

WALL 33B



SECTION A-A
LKG. NORTH



SECTION B-B
LKG. SOUTH

8906140286 - 04

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કાશી

1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

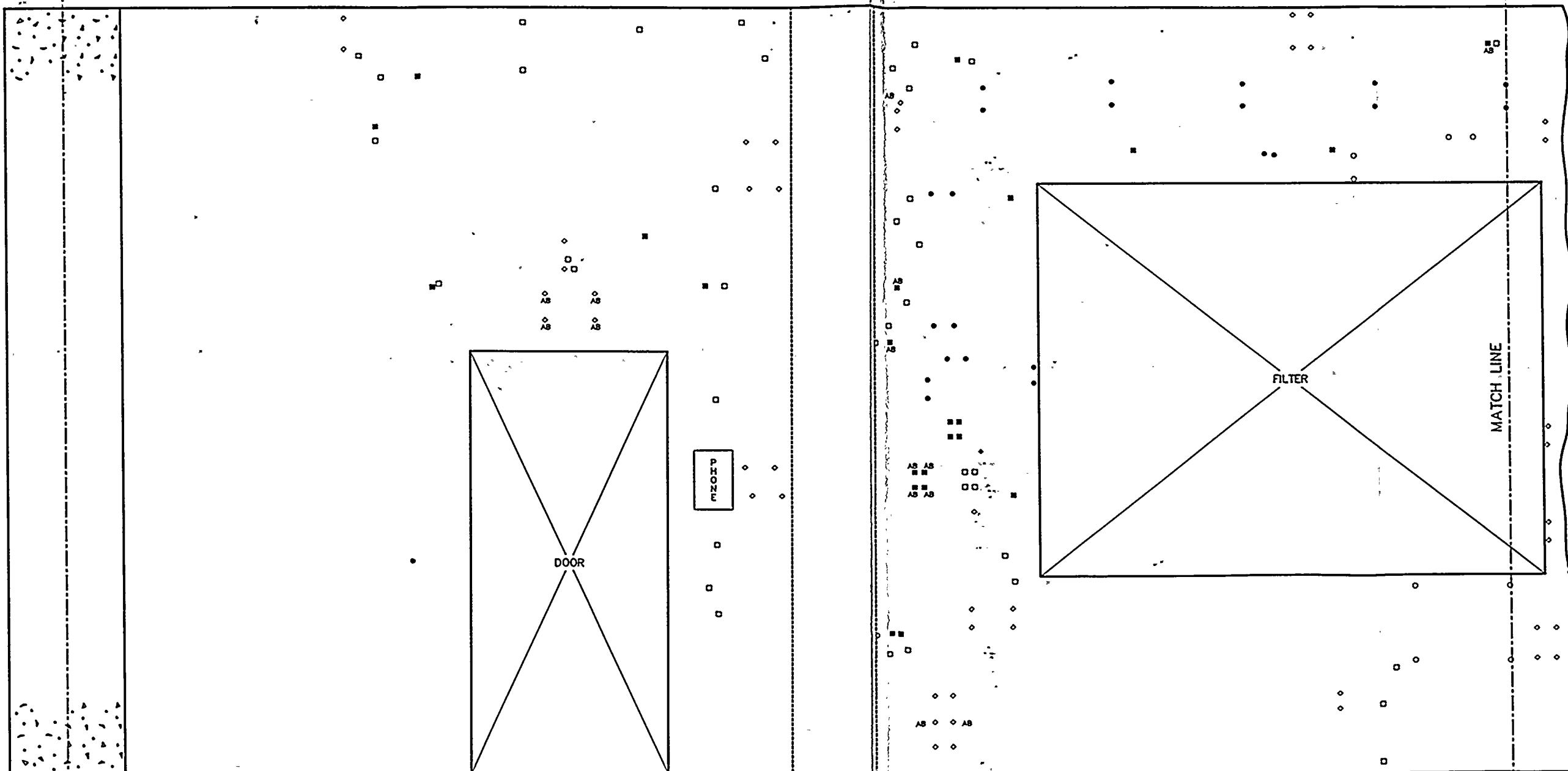
STUD TYPE SHELL TYPE NOTE: DIMENSIONS OMITTED FOR CLARITY

- \square = $1/4''\varnothing$ ■
- \triangle = $5/16''\varnothing$ ▲
- \circ = $3/8''\varnothing$ ●
- \diamond = $1/2''\varnothing$ ♦
- \circlearrowleft = $5/8''\varnothing$ ←
- \star = $3/4''\varnothing$ ★
- AB=ABANDONED

WALL 37SECTION A-A

LKG. NORTH

(FOR OPPOSITE SIDE OF WALL SEE SK-37-3)



SI
APERTURE
CARD
Also Available On
Aperture Card

3906140286-05

NO.	DATE	DESCRIPTION	CH/SPEC			DWL			CH/CD.			SUPV.			APVO. BY			NO.	DATE	DESCRIPTION	CH/SPEC			DWL			CH/CD.			SUPV.			APVO. BY		
			R	I	C	D	W	S	P	A	T	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z										
REVISIONS																																			

NO.	DATE	DESCRIPTION	CH/SPEC	DWL	CH/CD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	CH/SPEC	DWL	CH/CD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	CH/SPEC	DWL	CH/CD.	SUPV.	APVO. BY					

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 37 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATER
DWG LIST
SUPSOS
SOPSO BY
SHEET NO. SHEETS
SK-37-4 REV. 1
1 INCH

19850418008

8009240582

1 2 3 4 5 6 7 8 9 10

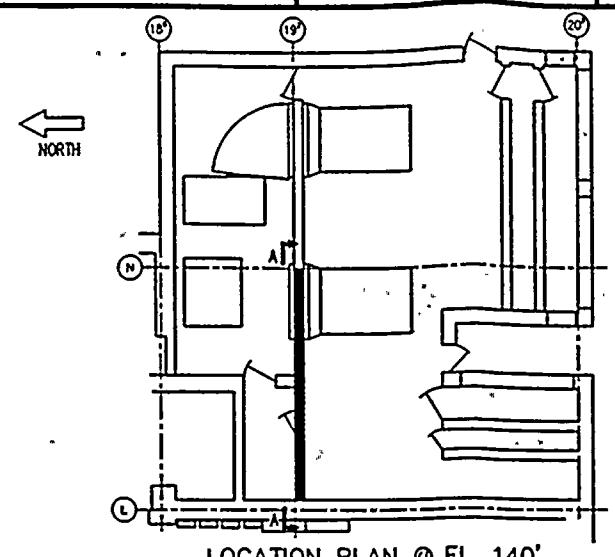
ANCHOR SYMBOLS

STUD TYPE	SHELL TYPE	NOTE: DIMENSIONS OMITTED FOR CLARITY
□ = 1/4"φ	■	
△ = 5/16"φ	▲	
○ = 3/8"φ	●	
◊ = 1/2"φ	◆	
○ = 5/8"φ	-	
☆ = 3/4"φ	★	
AB=ABANDONED		

WALL 37**SECTION A-A**

LKG. SOUTH

(FOR OPPOSITE SIDE OF WALL SEE SK-37-1)

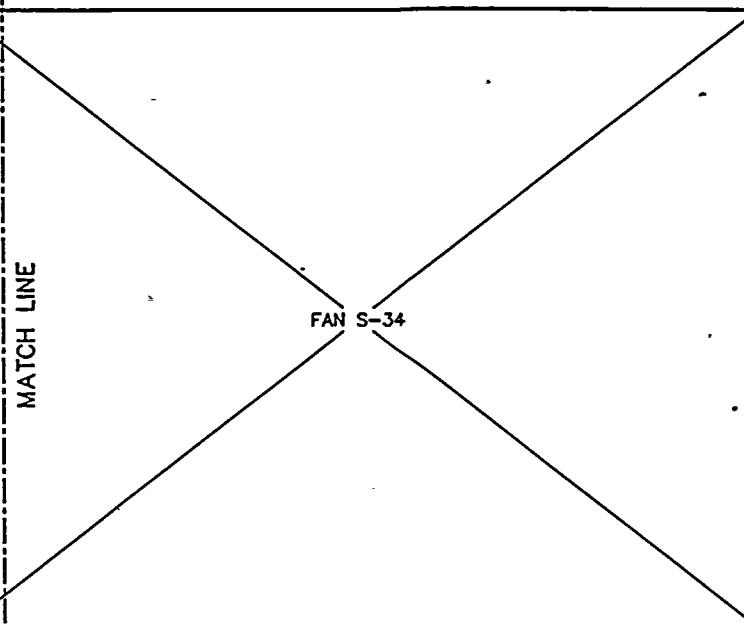


LOCATION PLAN @ EL. 140'

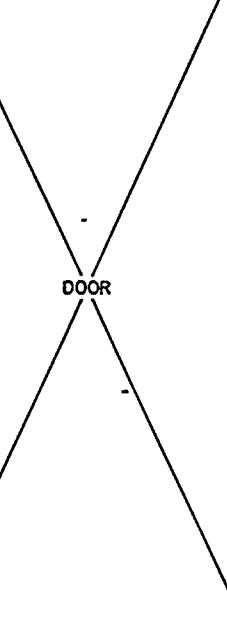
N

L

CONTINUED ON SK-37-4



LIGHT



**SI
APERTURE
CARD**

Also Available On
Aperture Card

0906140286-07

NO.	DATE	DESCRIPTION	GM/SPEC	DWLR	CHLD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	GM/SPEC	DWLR	CHLD.	SUPV.	APVO. BY
REVISIONS															

NO.	DATE	ISSUED FOR INFORMATION				APPROVED BY	GM	
NO.	DATE	DESCRIPTION	GM/SPEC	DWLR	CHLD.	SUPV.	APVO. BY	DSGN.
	1/5/68							DWLR A. NAYE
								CHLD. J. TAYLOR
								O.K.
								DATE 5/16/68
								SCALES 1=1'-0"

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 37 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATER
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. SHEETS
SK-37-3 REV. 1

• 3856428003

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ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

NOTE: DIMENSIONS OMITTED FOR CLARITY

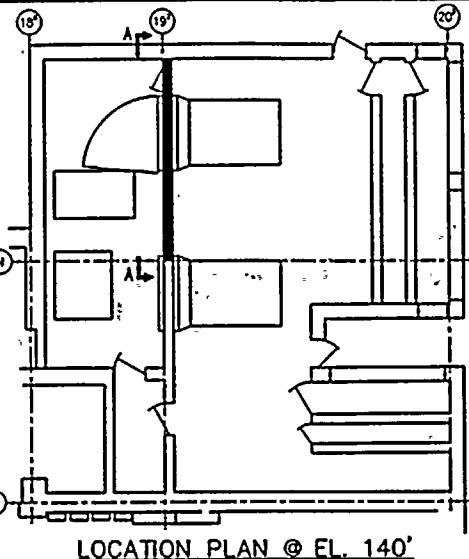
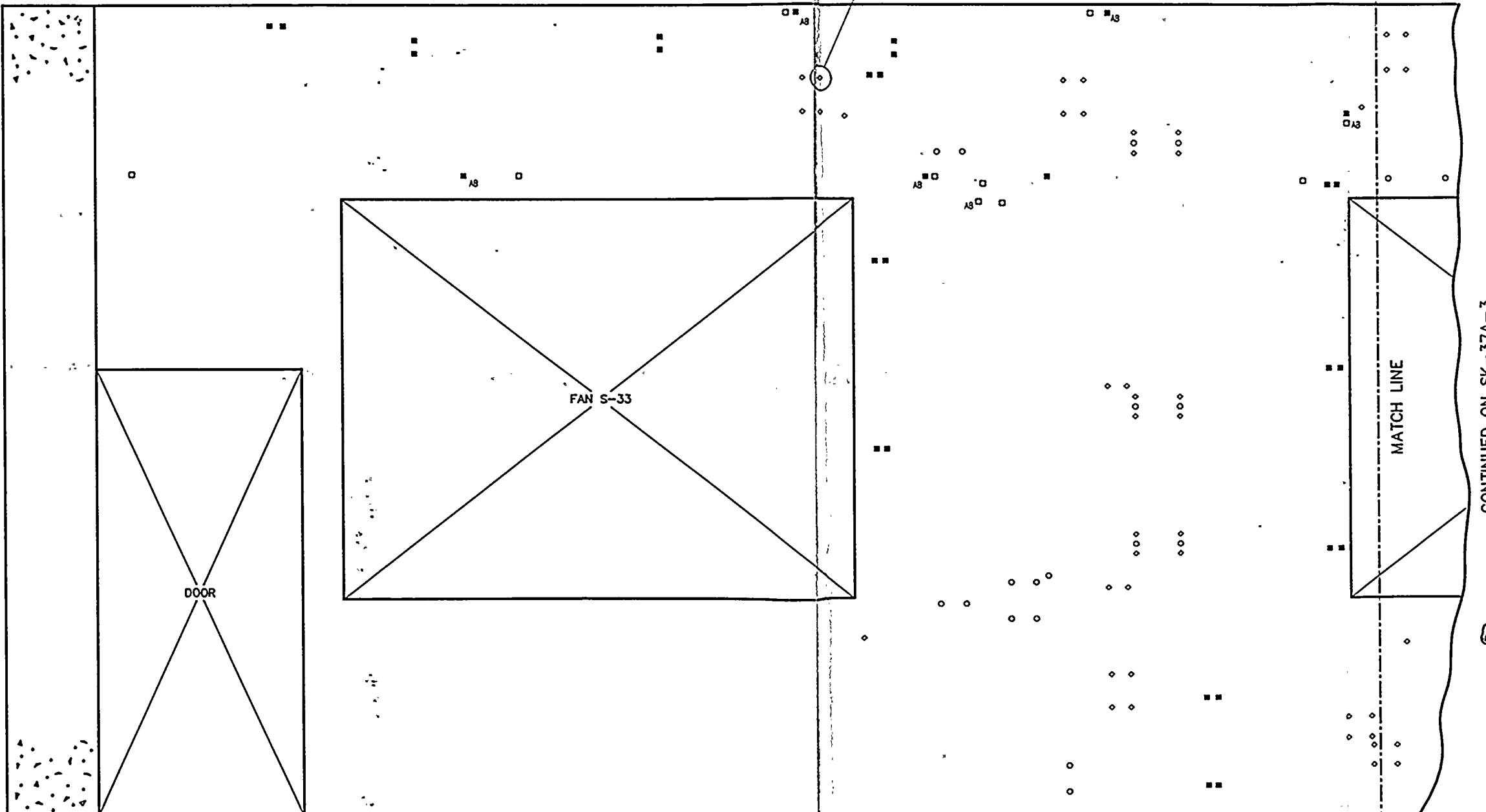
- \square = $1/4"$ \diamond = ■
 - \triangle = $5/16"$ \diamond = ▲
 - \circ = $3/8"$ \bullet = ●
 - \diamond = $1/2"$ \diamond = ◆
 - \circ = $5/8"$ \circ = -
 - \star = $3/4"$ \star = *
- AB=ABANDONED

WALL 37SECTION A-A

LKG. SOUTH

(FOR OPPOSITE SIDE OF WALL SEE SK-37-2)

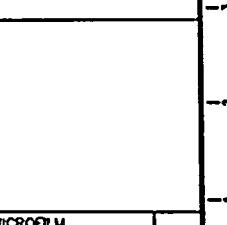
ANCHOR 16"



SI
APERTURE
CARD

Also Available On
Aperture Card

8906140286-08



AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 37 - AUXILIARY BLDG. ELEV. 140'-0"												PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA	
NO. DATE DESCRIPTION CH/SPEC OWN. CHGD. SUPV. APPRO. BY NO. DATE DESCRIPTION CH/SPEC OWN. CHGD. SUPV. APPRO. BY NO. DATE DESCRIPTION CH/SPEC OWN. CHGD. SUPV. APPRO. BY												APPROVED BY	CM
												Dawson	SUPV./CIVILIAN
												DSCN	SUPSDS
												OWN. A. NAYE	SUPSD BY
												CHRD. PLANTER	SHEET NO.
												OK	1
												DATE 5/16/89	REV.
												SCALES 1"-1'-0"	1
												DISK MARCHITIC/W37-45	1 INCH

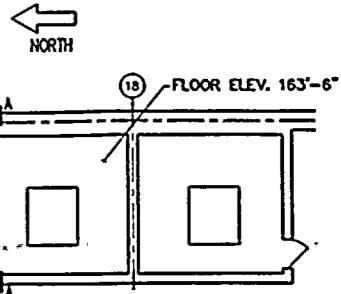
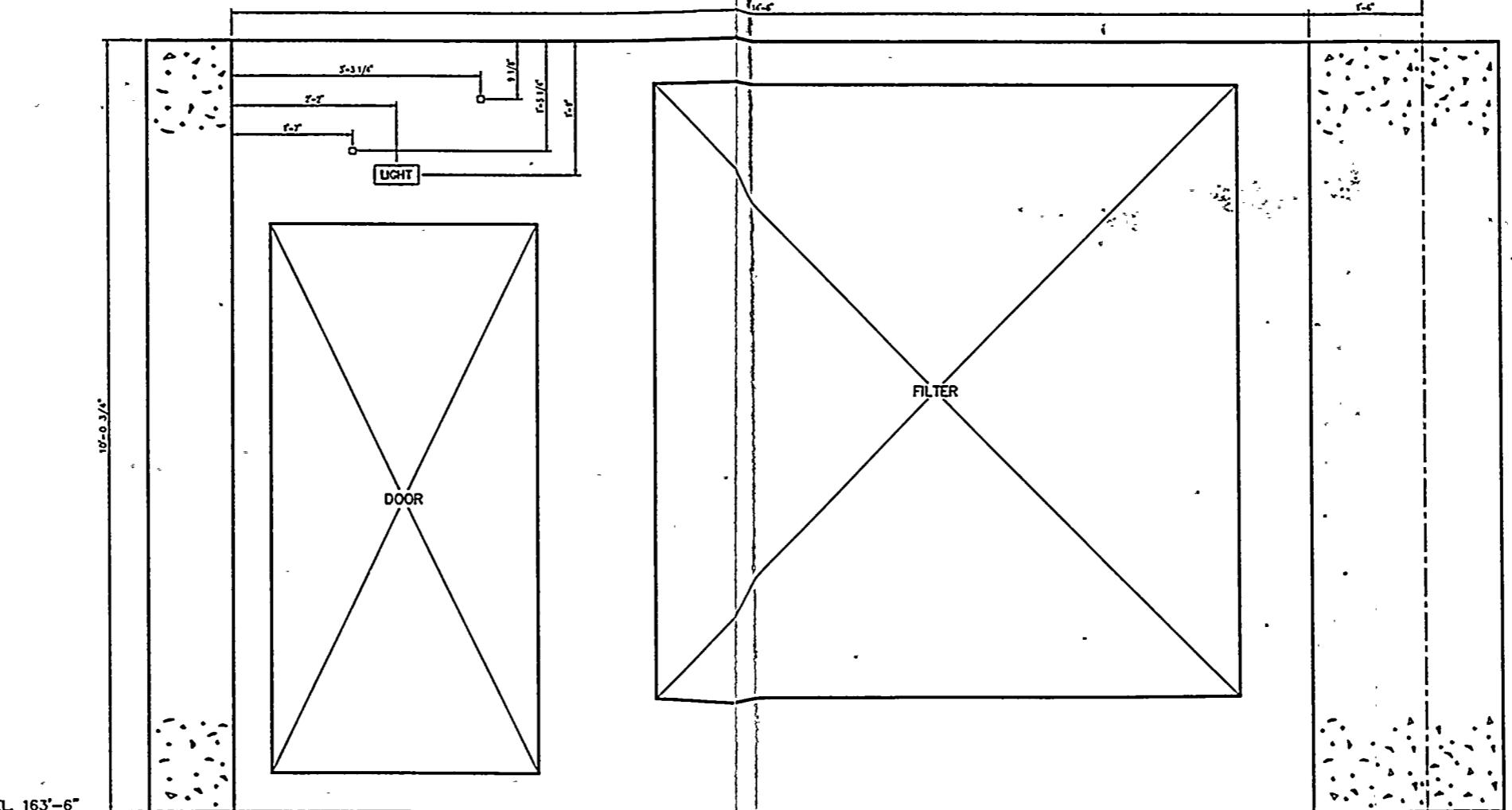
ପ୍ରକାଶକ

1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE	SHELL TYPE
□ = 1/4"	■
△ = 5/16"	▲
○ = 3/8"	●
◊ = 1/2"	◆
○ = 5/8"	◆
☆ = 3/4"	★
AB=ABANDONED	

WALL 42A

LOCATION PLAN @ 163'-4"

SI
APERTURE
CARD

Also Available On
Aperture Card

8906140286-09

SECTION A-A

LKG. NORTH
(FOR OPPOSITE SIDE OF WALL SEE SK-42A-2)

REVISIONS												REVISIONS											
NO.	DATE	DESCRIPTION	CHG.	SPEC	DRAW.	CHG.	SUPV.	APPROV.	NO.	DATE	DESCRIPTION	CHG.	SPEC	DRAW.	CHG.	SUPV.	APPROV.						
REVISIONS												REVISIONS											

15/15/89 - ISSUED FOR INFORMATION

NO.	DATE	DESCRIPTION	CHG.	SPEC	DRAW.	CHG.	SUPV.	APPROV.	NO.	DATE	DESCRIPTION	CHG.	SPEC	DRAW.	CHG.	SUPV.	APPROV.
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APPROVED BY CM
D.W. HANKE
DSGN.
DWN. A. NAYE
CHKD.
O.K.
DATE 5/16/89
SCALES 1"-1'-0"

AS-BUILT LOCATION OF CONCRETE EXPANSION ANCHOR BOLTS FOR WALL 42-A - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATER
DWG LIST
SUPDS
SUPSDS BY
SHEET NO.
SHEETS
REV.
SK-42A-1 1

000000000000000000000000

1 2 3 4 5 6 7 8 9 10

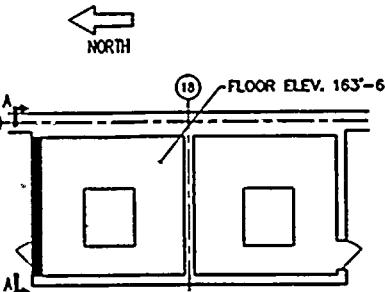
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

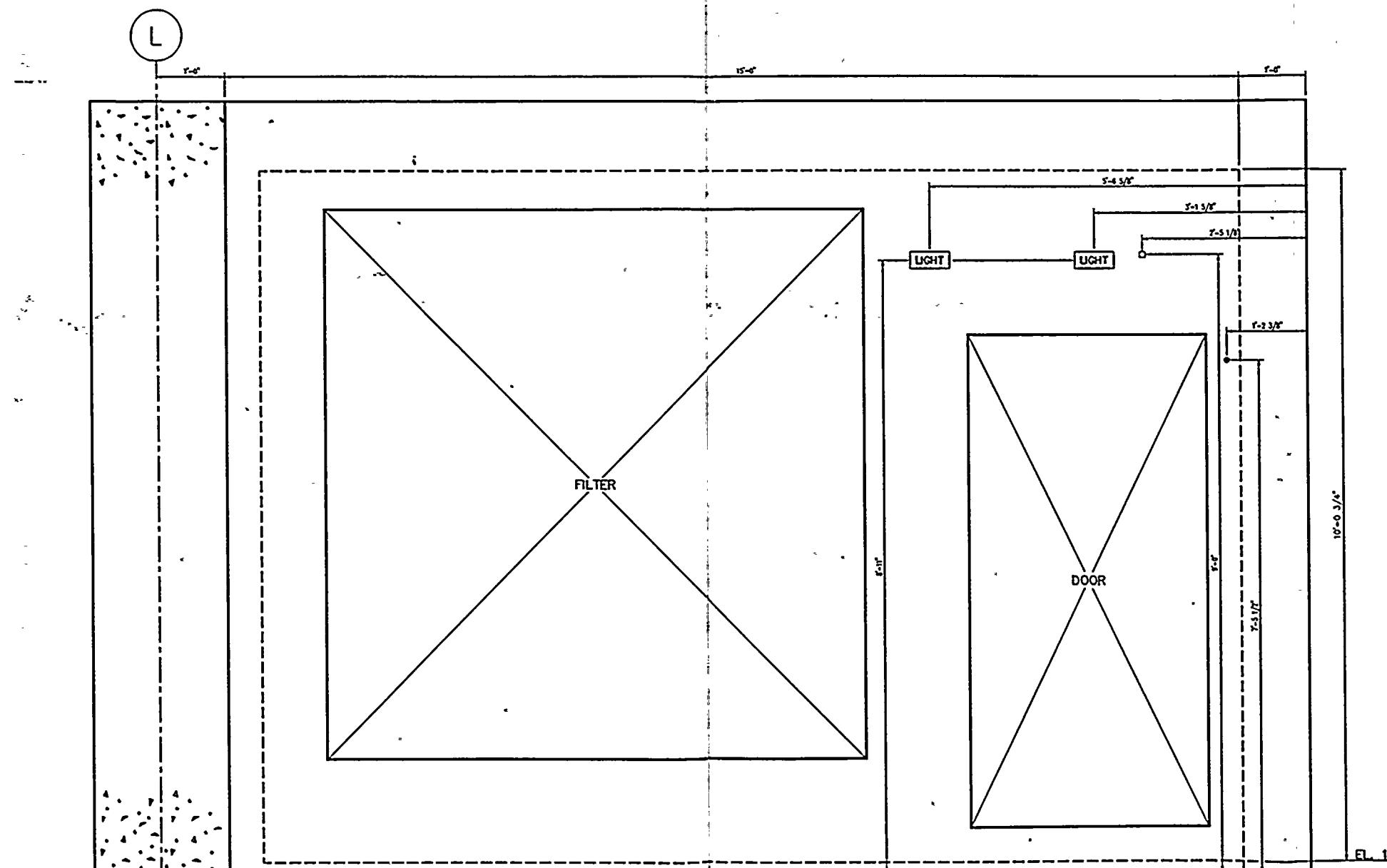
- | | | | | |
|---------------------|---|------------------|---|-----------------------|
| \square | = | $1/4^\circ\phi$ | = | \blacksquare |
| \triangle | = | $5/16^\circ\phi$ | = | \blacktriangle |
| \circlearrowleft | = | $3/8^\circ\phi$ | = | \bullet |
| \diamond | = | $1/2^\circ\phi$ | = | \blacklozenge |
| \circlearrowright | = | $5/8^\circ\phi$ | = | \blacktriangleright |
| \star | = | $3/4^\circ\phi$ | = | \star |

A8-ABANDONED

WALL 42A



LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

3906140286 -10

SECTION A-A

LKG. SOUTH
(FOR OPPOSITE SIDE OF WALL SEE SK-42A-1)

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-A - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM		
BILL OF MATER		
DWG LIST		
SUPSDS		
SUPSD BY		
SHEET NO.	SHEETS	
SK-42A-2	REV. 1	
1	0	INCH

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1 2 3 4 5 6 7 8 9 10

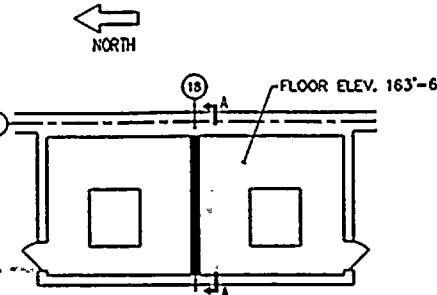
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

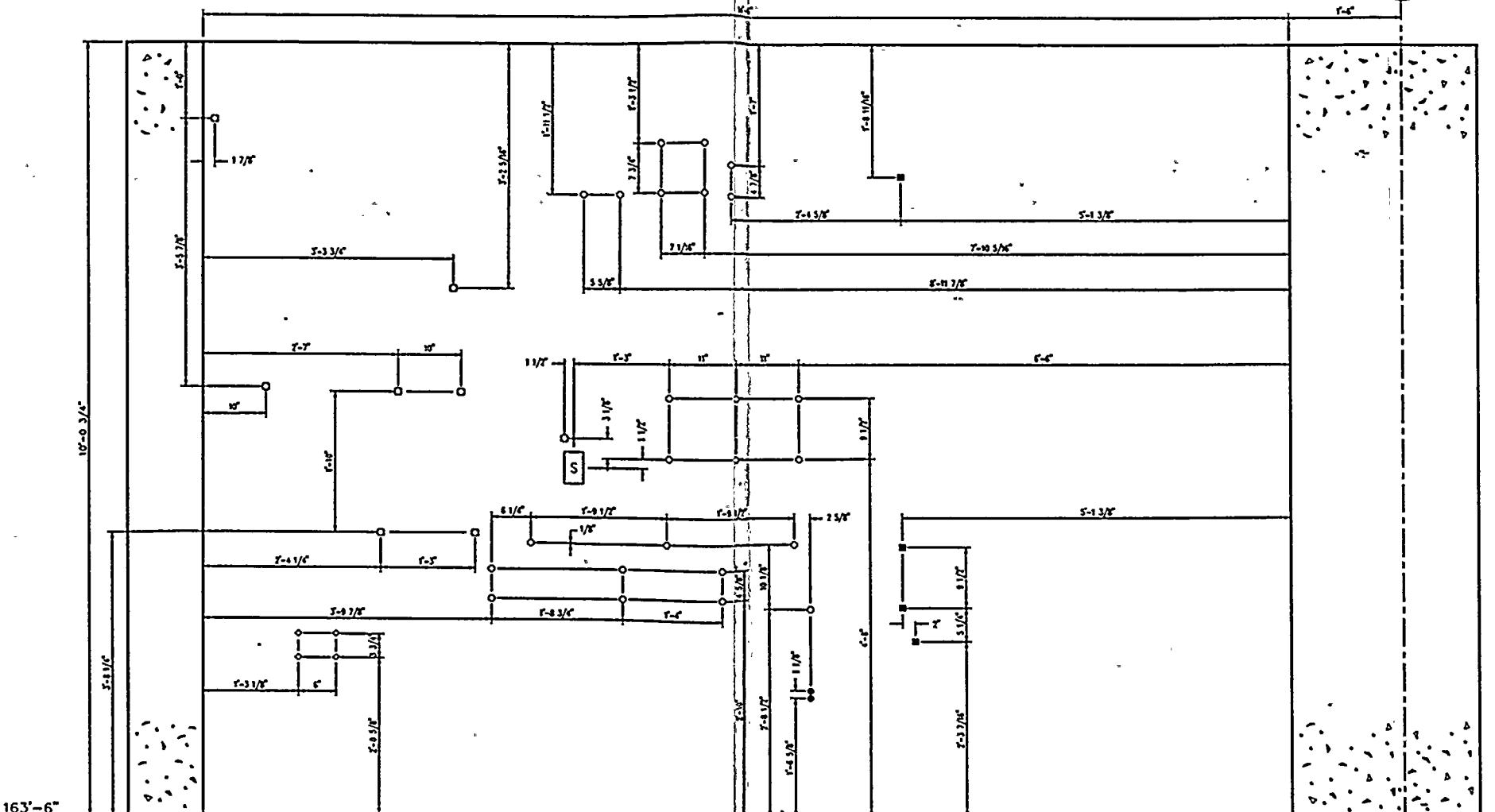
- = $1/4^\circ$ = ■
 △ = $5/16^\circ$ = ▲
 ○ = $3/8^\circ$ = ●
 ◇ = $1/2^\circ$ = ◆
 ◉ = $5/8^\circ$ = ◉
 ☆ = $3/4^\circ$ = ★

AB=ABANDONED

WALL 42B



LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

3906140286-11

SECTION A-A

LKG. NORTH

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-B - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM	
BILL OF MATER	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO.	SHEETS
SK-42B-1	
REV. 1	

100-22406

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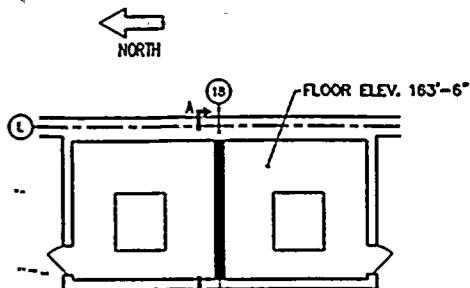
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

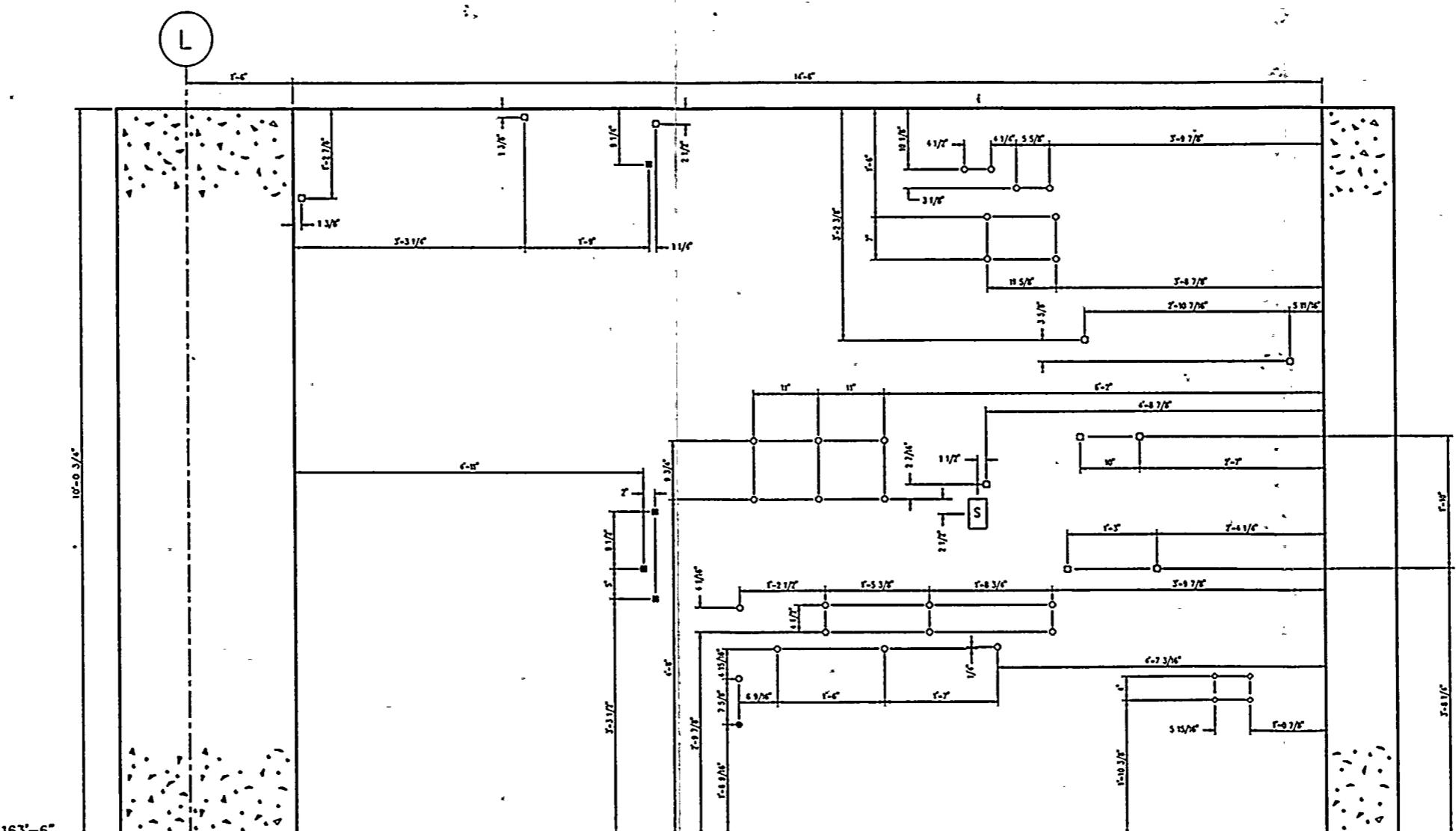
\square	= $1/4''\varnothing$	= ■
\triangle	= $5/16''\varnothing$	= ▲
\circ	= $3/8''\varnothing$	= ●
\diamond	= $1/2''\varnothing$	= ◆
\circlearrowleft	= $5/8''\varnothing$	= ←
\star	= $3/4''\varnothing$	= ★

AB=ABANDONED

WALL 42B



LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

SECTION A-A

LKG. SOUTH

8906140286-12

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-B - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

GOOGLES.

1 2 3 4 5 6 7 8 9 10

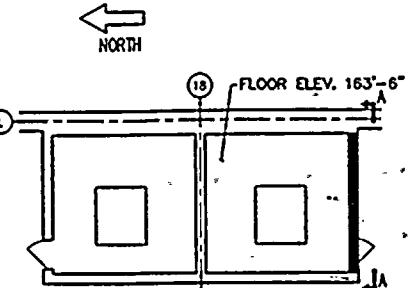
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

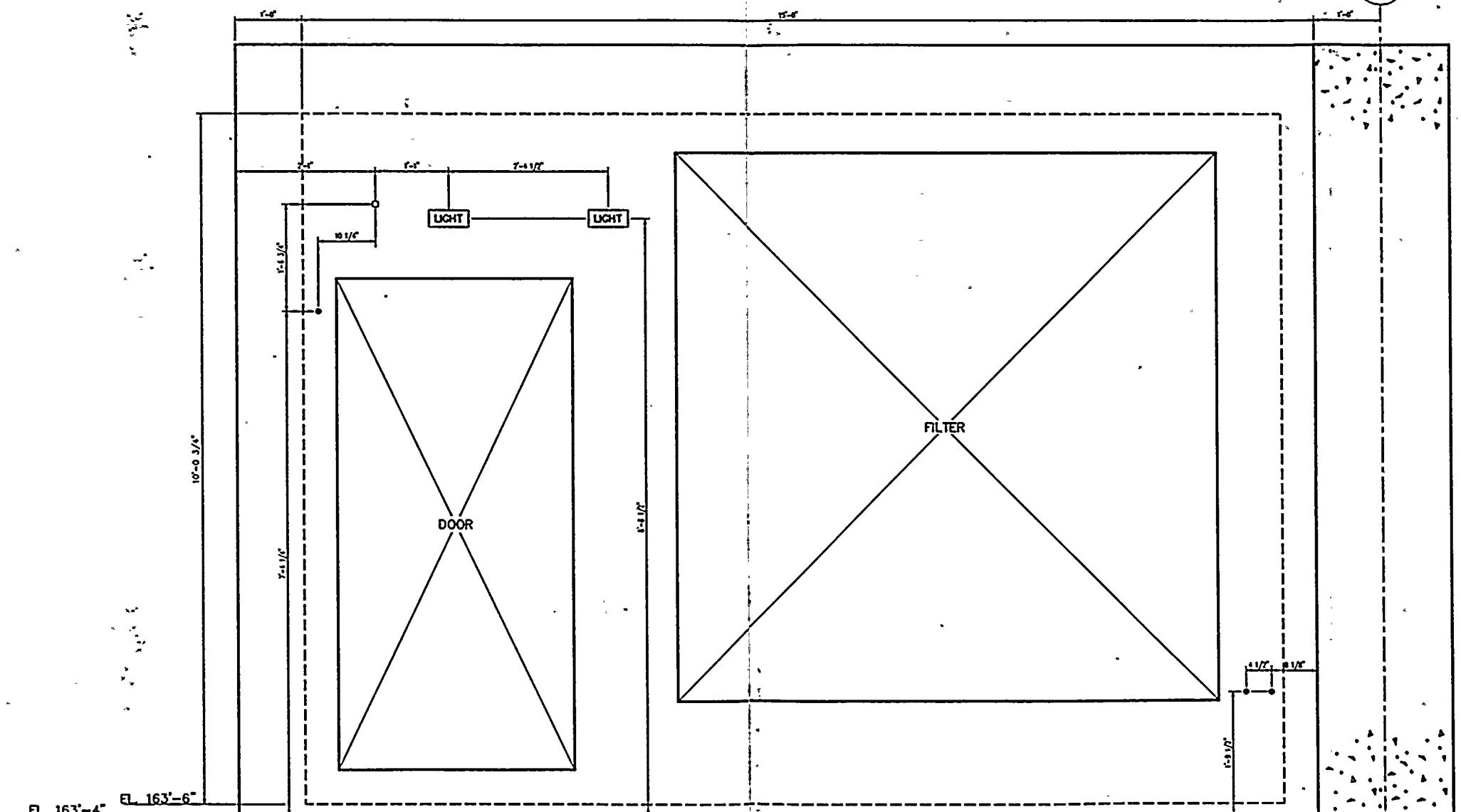
<input type="checkbox"/>	= 1/4" Ø	= ■
<input type="triangle"/>	= 5/16" Ø	= ▲
<input type="circle"/>	= 3/8" Ø	= ●
<input type="diamond"/>	= 1/2" Ø	= ◆
<input type="circle"/>	= 5/8" Ø	= ◻
<input type="star"/>	= 3/4" Ø	= ★

AB=ABANDONED

WALL 42C



LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

SECTION A-A

LKG. NORTH

8906140286-13

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-C - AUXILIARY BLDG.
·ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

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OF MATL	
LIST	
SOS	
SO BY	
LT NO.	SHEETS
K-42C-1	REV. 1

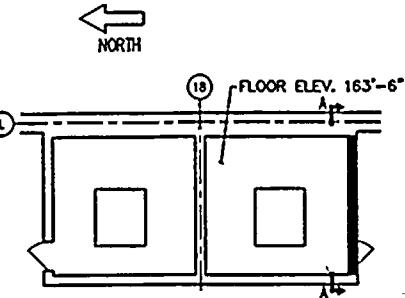
3000ft CSE

1 2 3 4 5 6 7 8 9 10

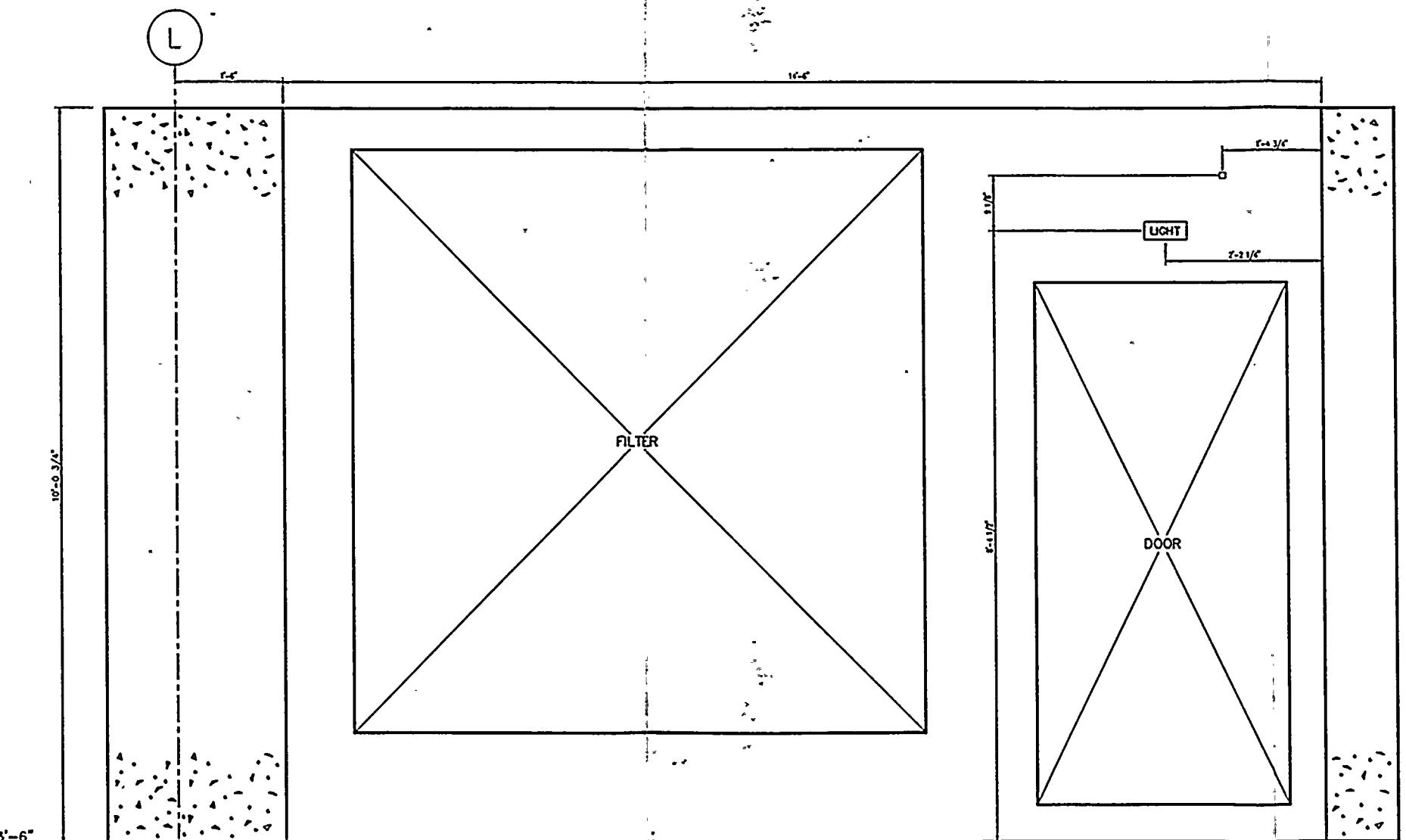
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE
 □ = 1/4" Ø = ■
 △ = 5/16" Ø = ▲
 ○ = 3/8" Ø = ●
 ◇ = 1/2" Ø = ◆
 ◎ = 5/8" Ø = ◎
 ☆ = 3/4" Ø = ★
 AB=ABANDONED

WALL 42C



LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

SECTION A-A

LKG. SOUTH
(FOR OPPOSITE SIDE OF WALL SEE SK-42C-1)

8906140286-14

ISSUED FOR INFORMATION												APPROVED BY	CM				
NO.	DATE	DESCRIPTION	GM/SPEC	DWNL	CHKD	SUPV.	APVD. BY	NO.	DATE	DESCRIPTION	GM/SPEC	DWNL	CHKD	SUPV.	APVD. BY	APPROVED BY	CM
																APPROVED BY DWNL	SUPV. F. O'LEARY
																DSGN. 1	DSGN.
																DWN. A. HAYE	DWN.
																CHKD. 2	CHKD.
																O.K.	O.K.
																DATE 3/16/89	DATE 3/16/89
																SCALES	SCALES

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-C - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

1990-05-14

1 2 3 4 5 6 7 8 9 10

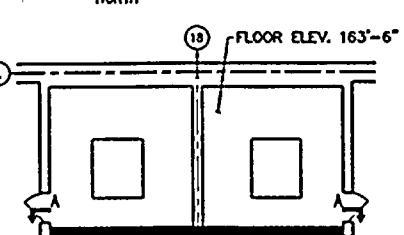
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

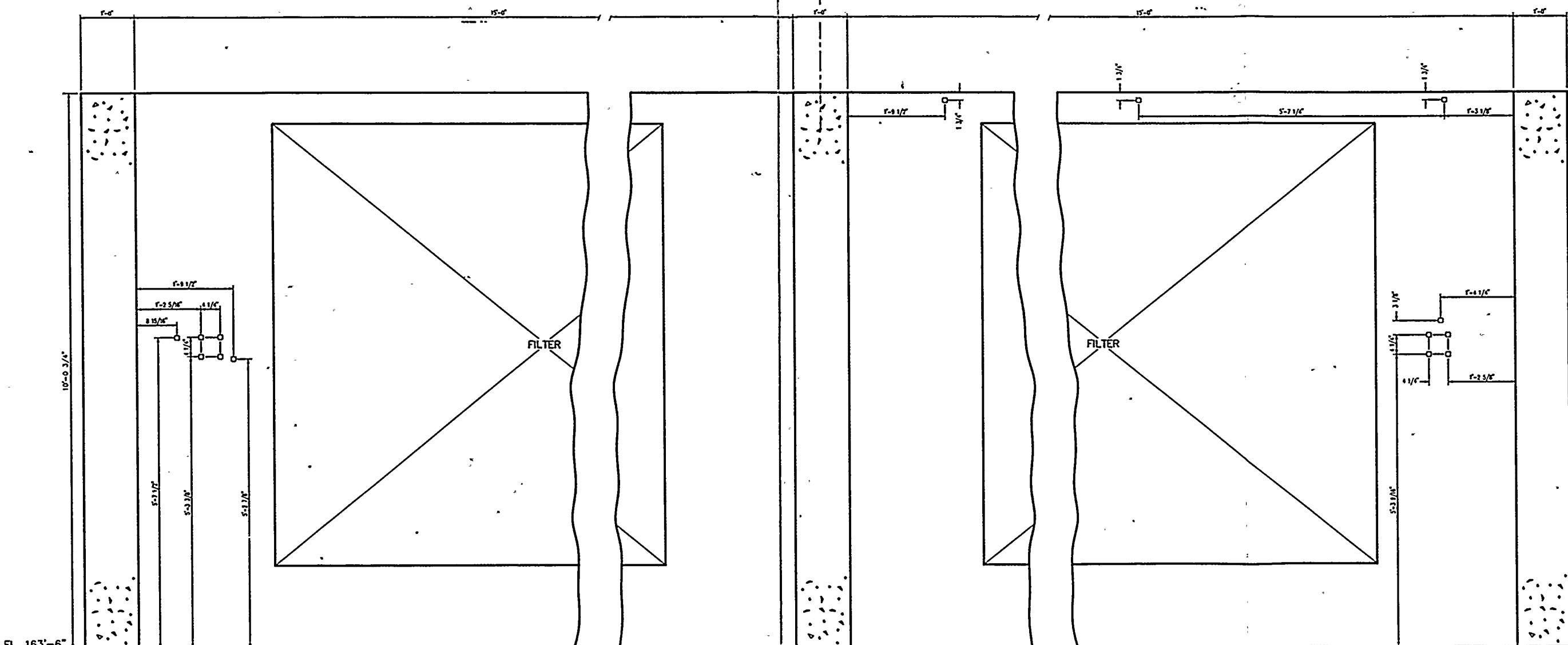
- \square - $1/4''\varnothing$ = ■
- \triangle - $5/16''\varnothing$ = ▲
- \circ - $3/8''\varnothing$ = ●
- \diamond - $1/2''\varnothing$ = ♦
- \circ - $5/8''\varnothing$ = -
- \star - $3/4''\varnothing$ = *

AB=ABANDONED

NORTH

WALL 42D

LOCATION PLAN @ 163'-4"



SI
APERTURE
CARD

SECTION A-A

LKG. WEST
(FOR OPPOSITE SIDE OF WALL SEE SK-42D-2)

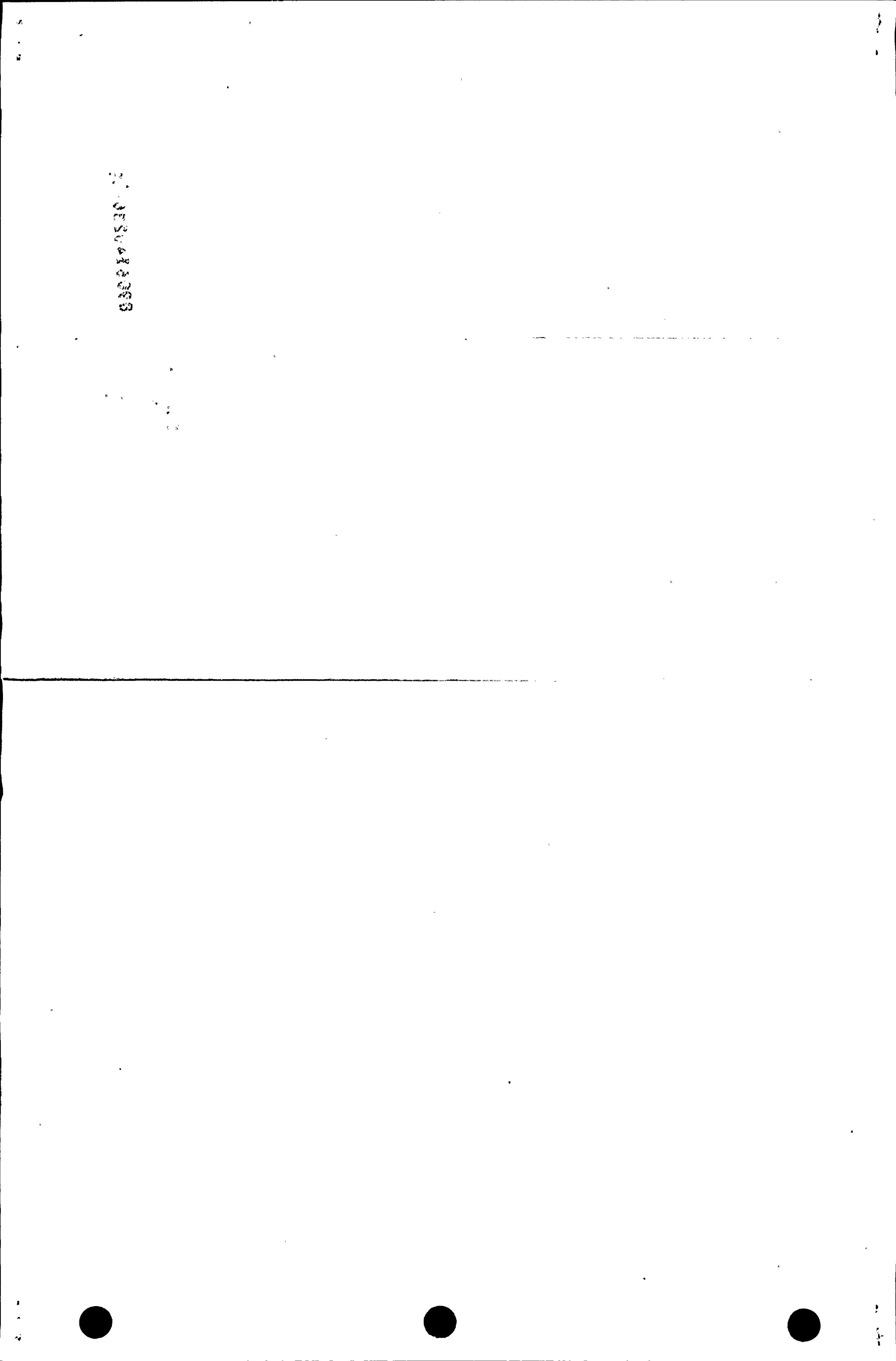
Also Available On
Aperture Card

8906140286-15

NO.	DATE	DESCRIPTION	CM/SPEC	OWN.	CHKD.	SUPV.	APVD. BY	NO.	DATE	DESCRIPTION	CM/SPEC	OWN.	CHKD.	SUPV.	APVD. BY	APPROVED BY	CM	ISSUED FOR INFORMATION	A.N.	F.I.C.	P.O.	—	SCALES	INCH				
																REVISIONS	REVISIONS	BT	NO. DATE	DESCRIPTION	CM/SPEC	OWN.	CHKD.	SUPV.	APVD. BY	DGSN.	SUPV. F.O. DILLMAN	DATE 5/16/89

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-D - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATER
DWG LIST
SUPDS
SUPD BY
SHEET NO.
SHEETS
SK-42D-1 REV. 1



1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

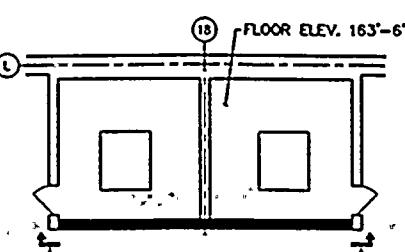
STUD TYPE SHELL TYPE

- \square - 1/4" - ■
- \triangle - 5/16" - ▲
- \circ - 3/8" - ●
- \diamond - 1/2" - ◆
- \circlearrowleft - 5/8" - ←
- \star - 3/4" - ★

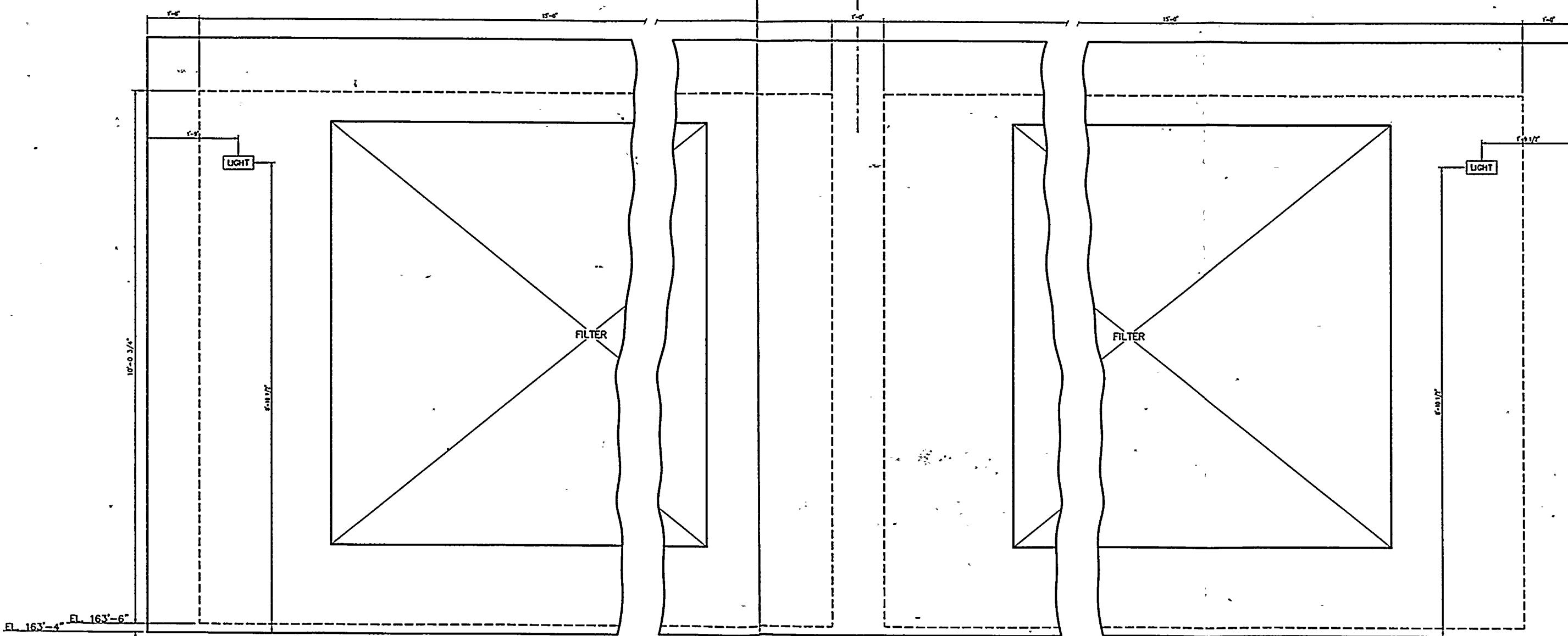
AB=ABANDONED

WALL 42D

NORTH



18



SI
APERTURE
CARD

1/5/89 ISSUED FOR INFORMATION
NO. DATE

Also Available On
Aperture Card

8906140286-16

NO.	DATE	DESCRIPTION	CM/SPEC	DWL	CHKD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	CM/SPEC	DWL	CHKD.	SUPV.	APVO. BY	APPROVED BY	GM
																REVISIONS	MICROFILM
																	BILL OF MATER
																	DWG LIST
																	SUPSDS
																	SUPSD BY
																	SHEET NO.
																	REV.
																	DISK A:\ARC4TEC\W42D-E

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 42-D - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

SK-420-2	REV. 1

2
3
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7
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10

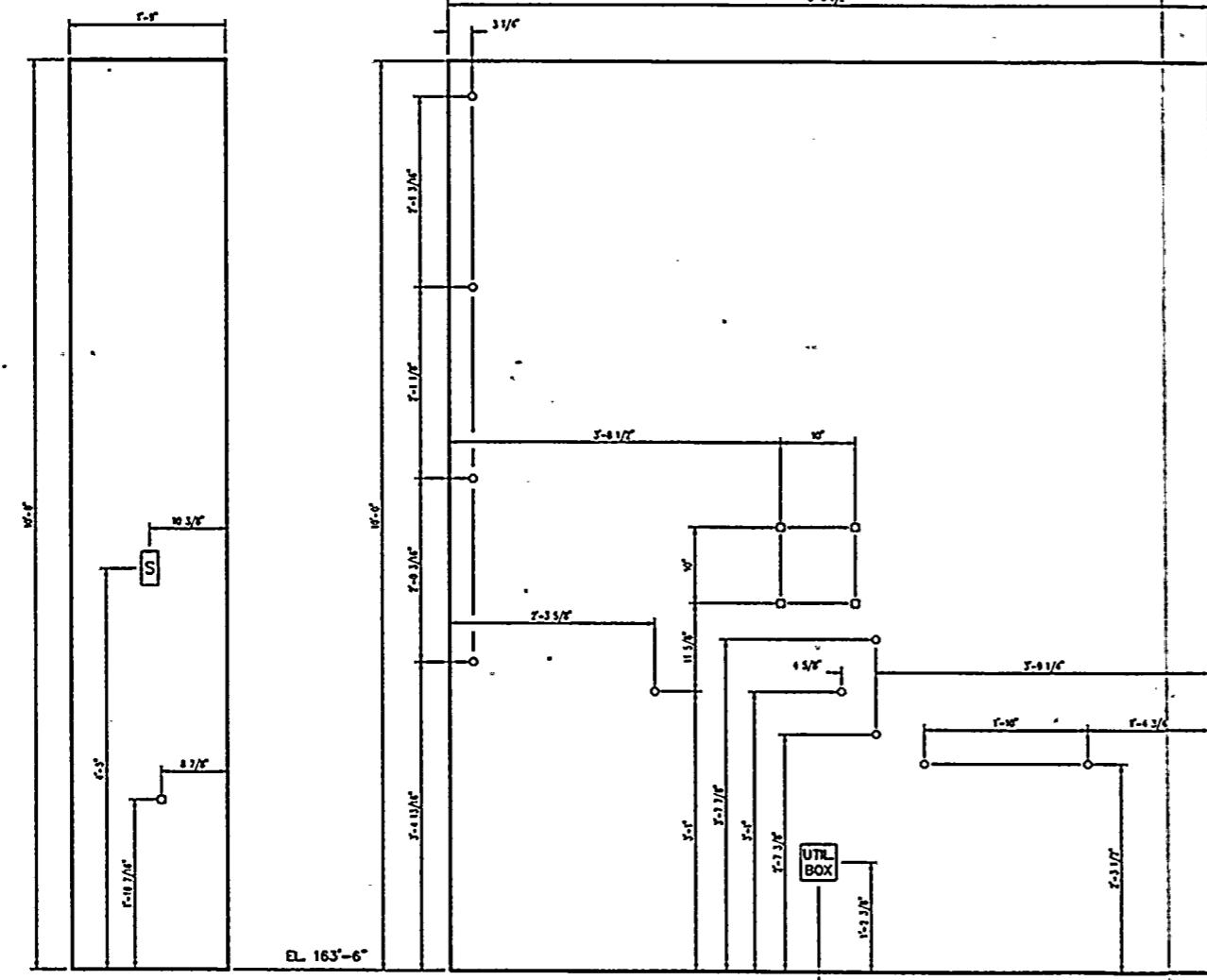
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- = 1/4° = ■
 △ = 5/16° = ▲
 ○ = 3/8° = ●
 ◇ = 1/2° = ◆
 ○ = 5/8° = ◻
 ☆ = 3/4° = ★

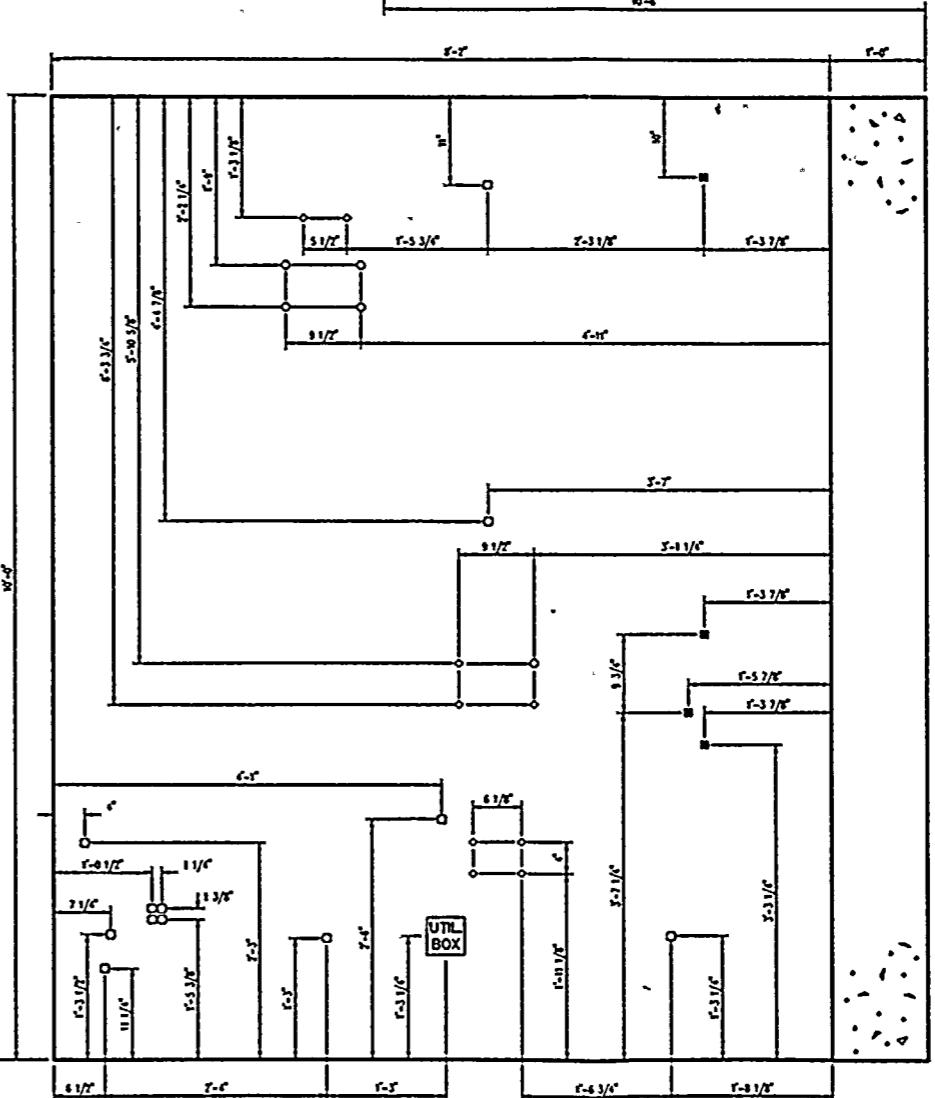
AB=ABANDONE

WALL 43A



SECTION A-A
LKG. NORTH

SECTION B-B
LKG. NORTHWEST
(FOR OPPOSITE SIDE OF WALLS SEE SK-43A-2)



SECTION C-C
LKG. NORTH

906140286-17

B
B
S
S
S
S
BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-A - AUXILIRY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

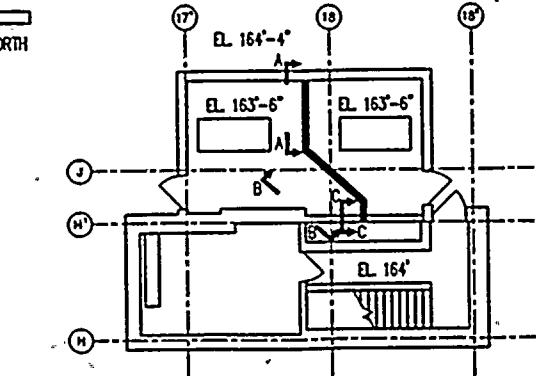
RESCUE

ANCHOR SYMBOLS

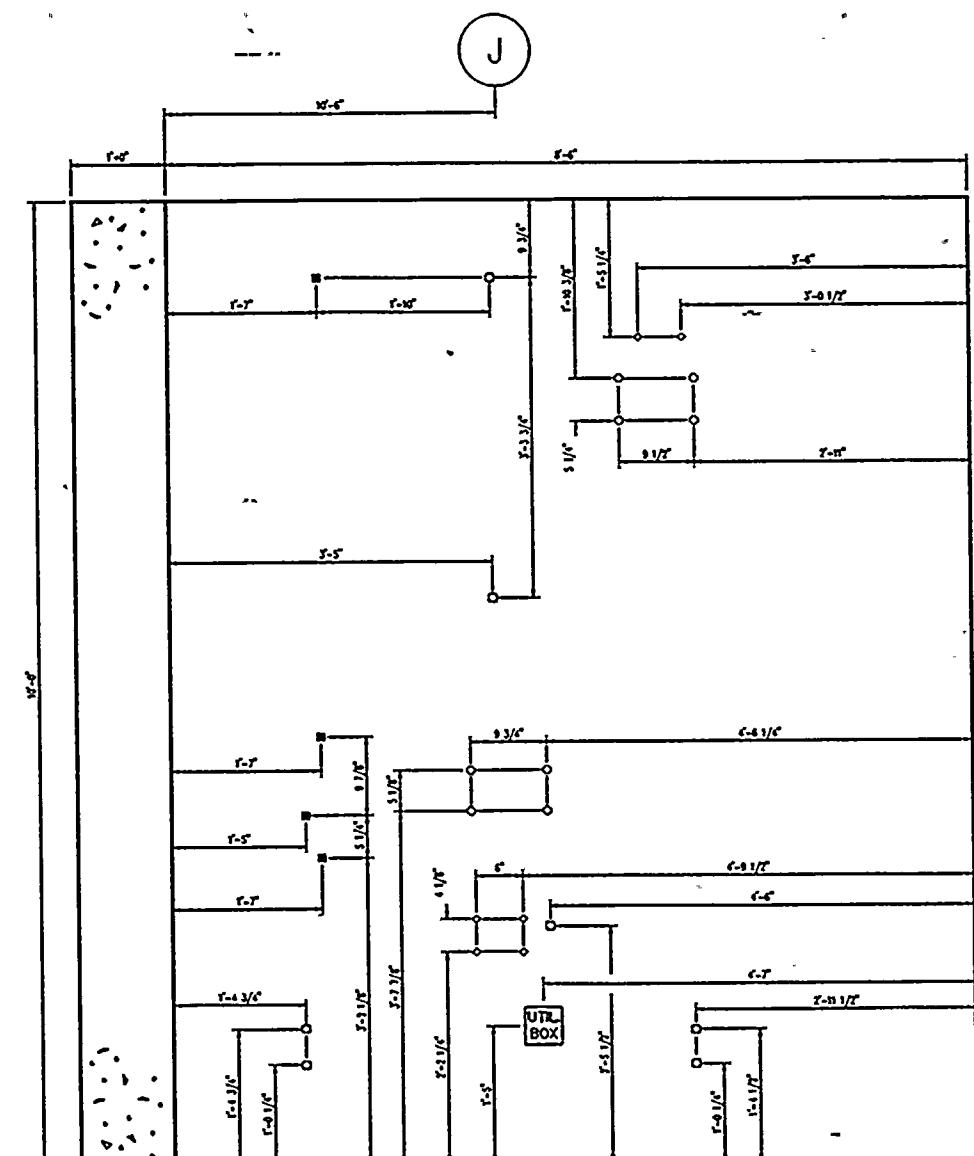
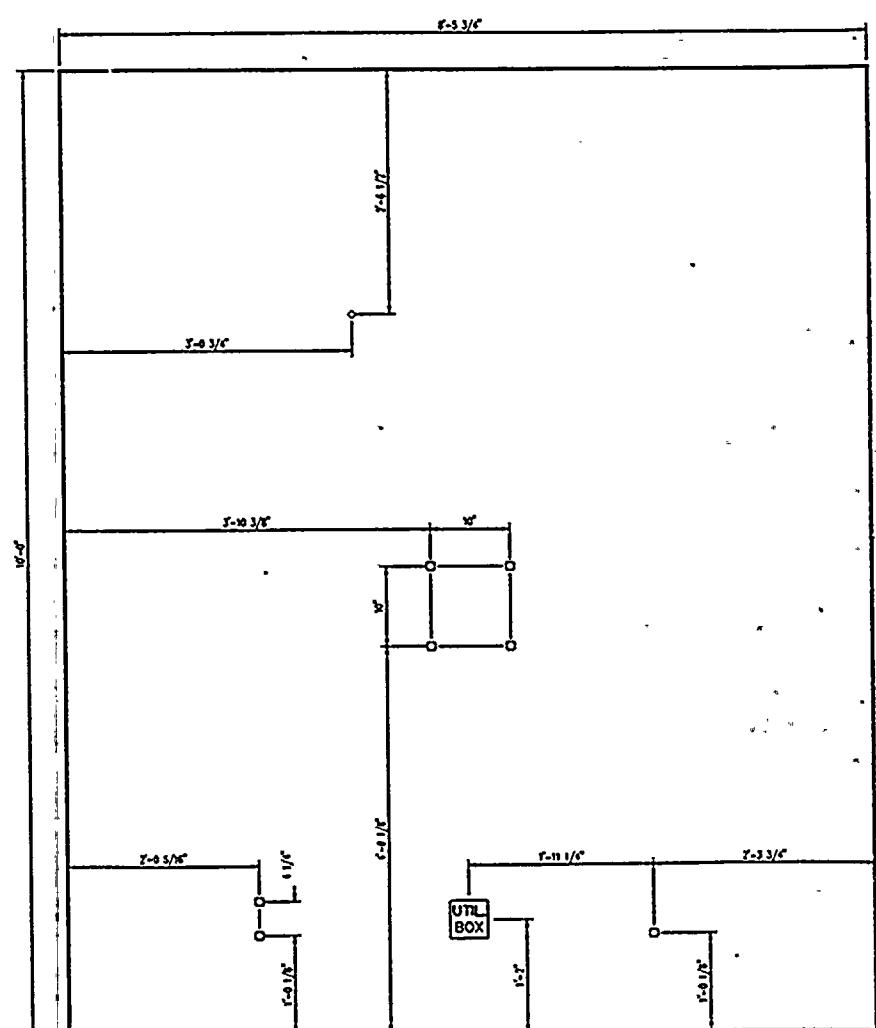
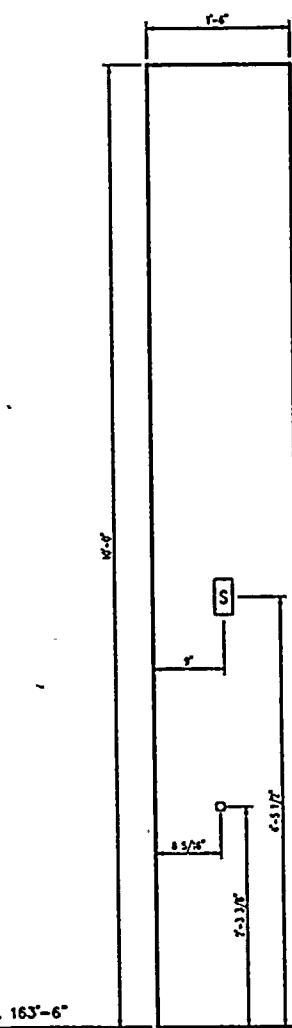
STUD TYPE SHELL TYPE

- \square - $1/4"$ - ■
- \triangle - $5/16"$ - ▲
- \circ - $3/8"$ - ●
- \diamond - $1/2"$ - ◆
- \circ - $5/8"$ - -
- \star - $3/4"$ - *
- AB=ABANDONED

WALL 43A



LOCATION PLAN @ EL. 163'-4"

SECTION A-A
LKG. SOUTHSECTION B-B
LKG. SOUTHEAST
(FOR OPPOSITE SIDE OF WALLS SEE SK-43A-1)SECTION C-C
LKG. SOUTHSI
APERTURE
CARDAlso Available On
Aperture Card

8906140286-18

NO.	DATE	DESCRIPTION	OM/SPEC	DNL	CHKD	SUPV.	APVD. BY	NO.	DATE	DESCRIPTION	OM/SPEC	DNL	CHKD	SUPV.	APVD. BY	APPROVED BY				MATERIAL	DWG. LIST	SUPSDS	SUPSD BY	SHEET NO.	SHEETS	REV.					
																REVISIONS	REVISIONS	REVISIONS	REVISIONS	GM	SUPERVISOR	DSGN.	DWN. R. SALIVAN	CHKD	P.O.	DATE	SCALE				

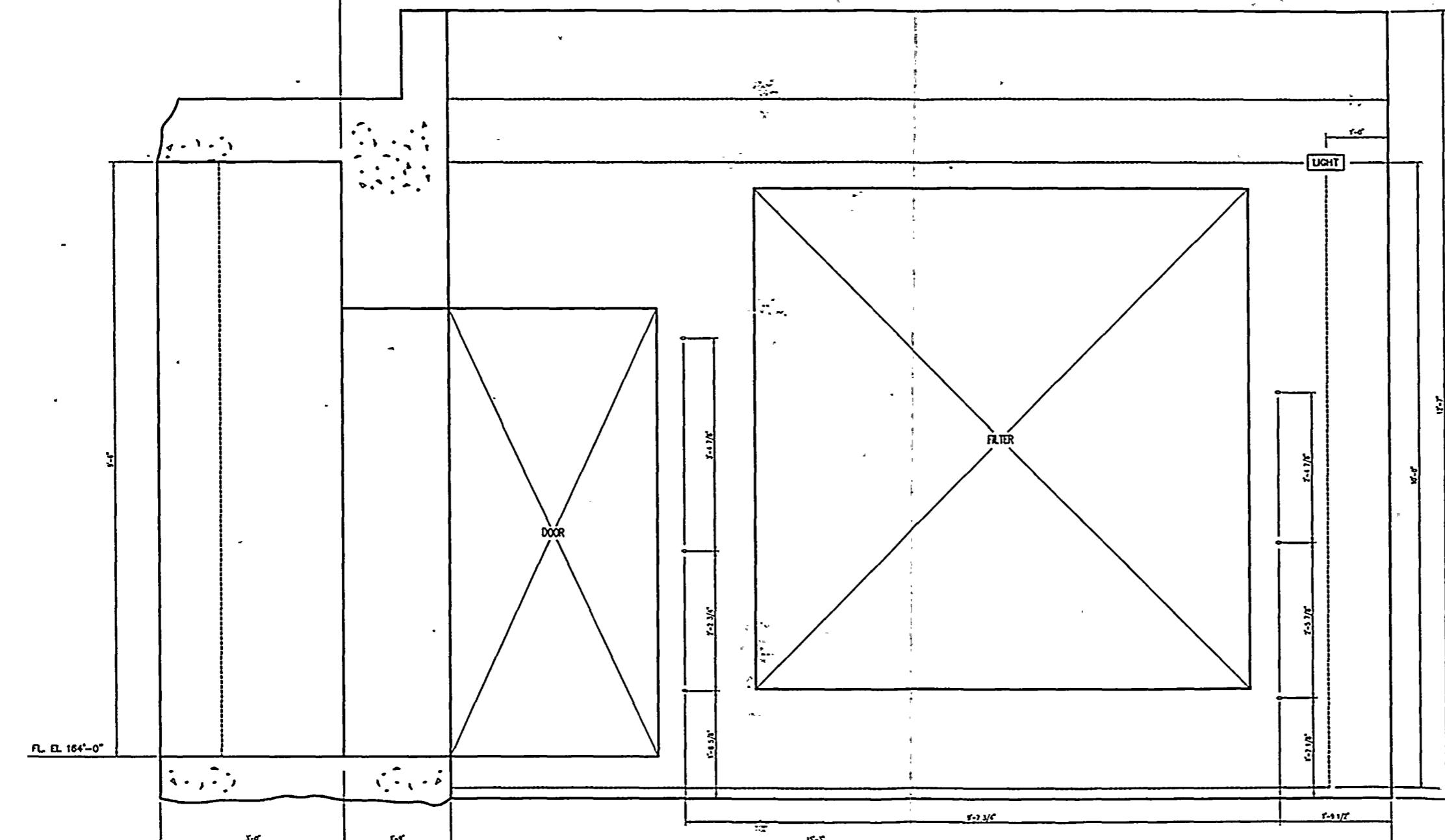
20040000

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- = $1/4^\circ$ = ■
 △ = $5/16^\circ$ = ▲
 ○ = $3/8^\circ$ = ●
 ◇ = $1/2^\circ$ = ◆
 ○ = $5/8^\circ$ = ◇
 ☆ = $3/4^\circ$ = ★

WALL 43B



SECTION A-A

LKG. NORTH

(FOR OPPOSITE SIDE OF WALL SEE SK-438-2)

8906140286-19

OUTSIDE FL EL 163'-4"

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-B - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

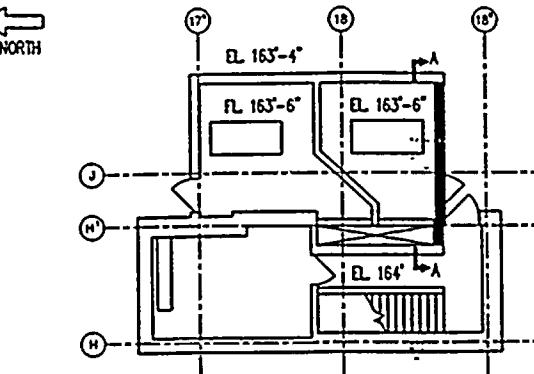
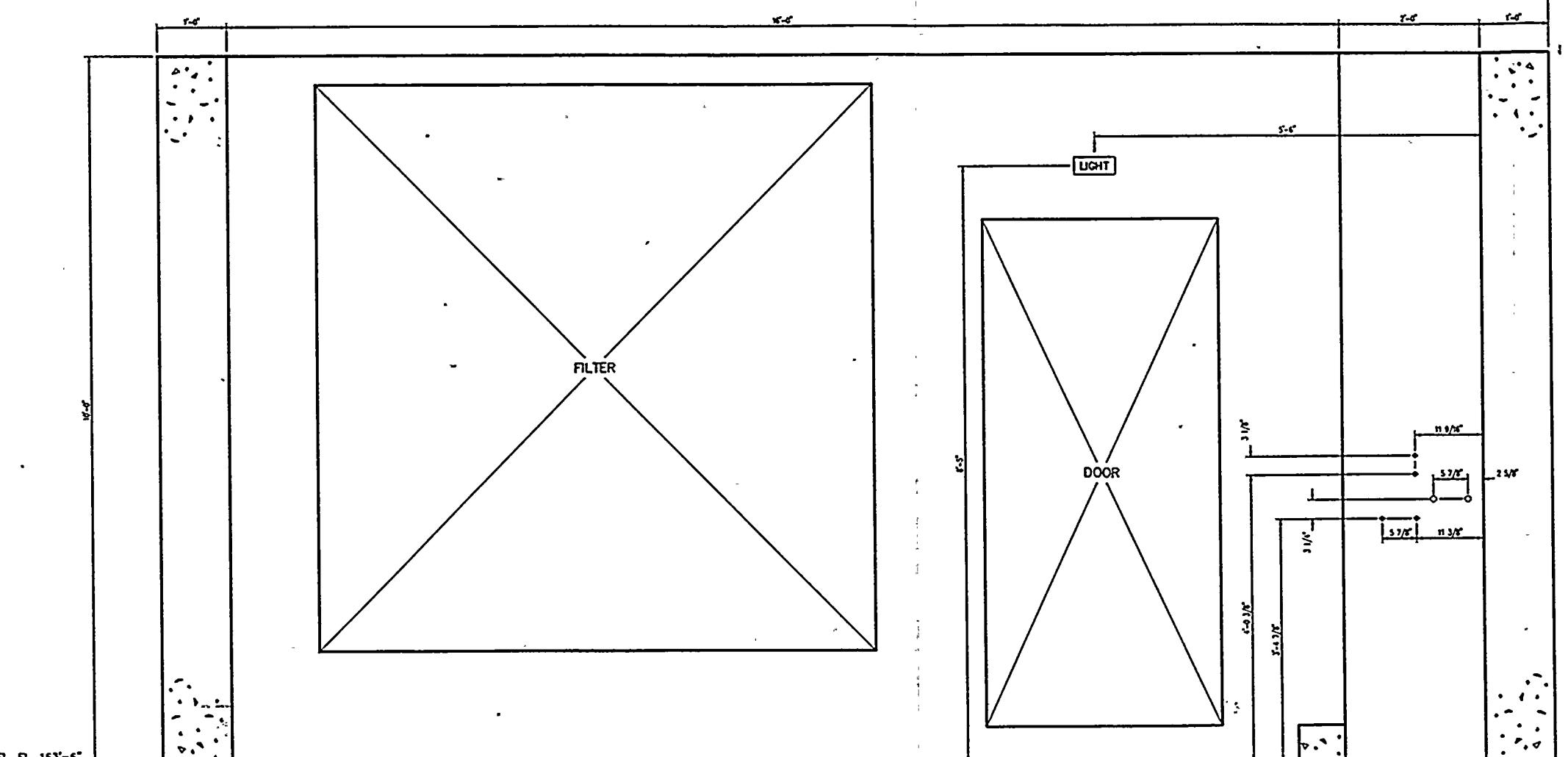
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ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- = 1/4" Ø = ■
 - △ = 5/16" Ø = ▲
 - = 3/8" Ø = ●
 - ◊ = 1/2" Ø = ◆
 - = 5/8" Ø = ◇
 - ☆ = 3/4" Ø = ★
- AB=ABANDONED

WALL 43B



LOCATION PLAN @ EL. 163'-4"

SI
APERTURE
CARD

Also Available On
Aperture Card

8906140286-20

SECTION A-A

LKG. SOUTH

(FOR OPPOSITE SIDE OF WALL SEE SK-43B-1)

NO.	DATE	DESCRIPTION	GM/SPEC	DWL	CHDL	SUPY.	APVD. BY	NO.	DATE	DESCRIPTION	GM/SPEC	DWL	CHDL	SUPY.	APVD. BY	APPROVED BY	GM	
																REVISIONS	REVISIONS	REVISIONS

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-B - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM	
BILL OF MATER	
DWG LIST	
SUPDS	
SUPSDS BY	
SHEET NO.	
SHETS	
SK-43B-2	REV. 1

199140586

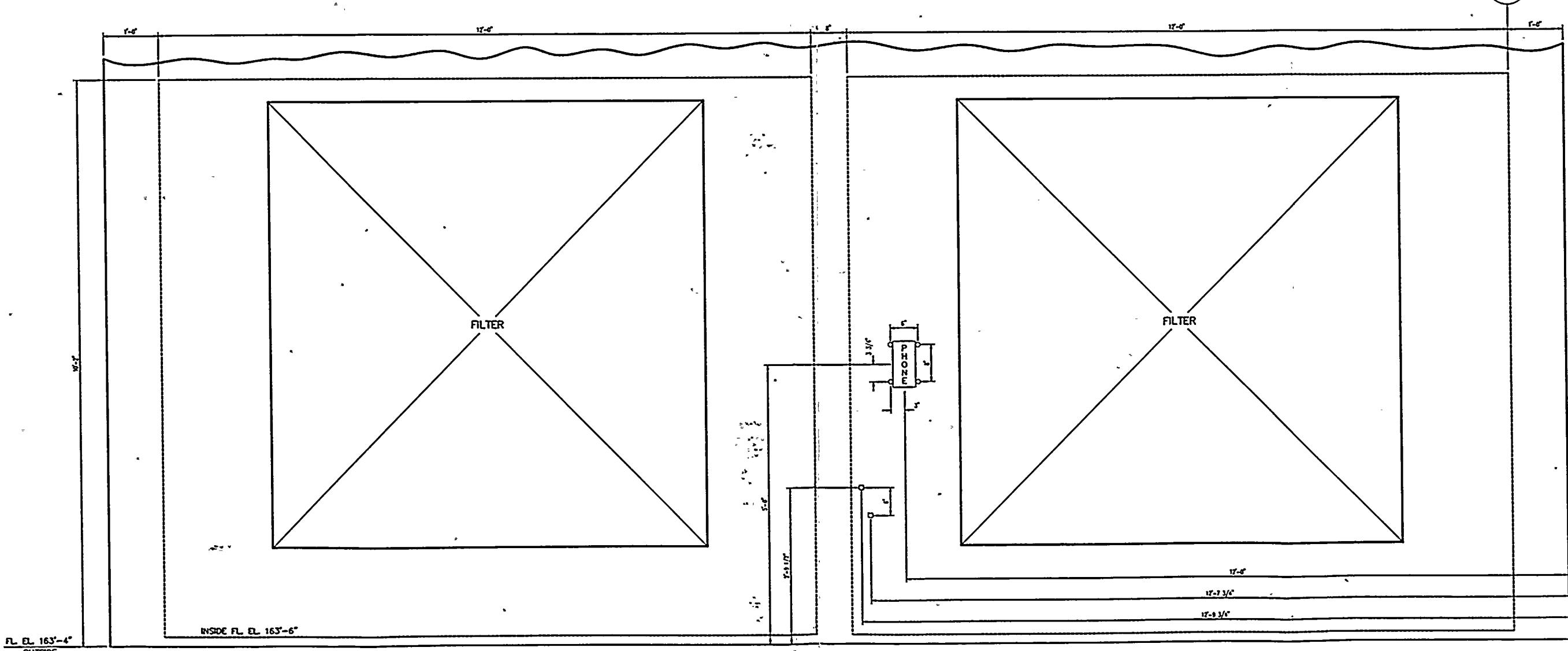
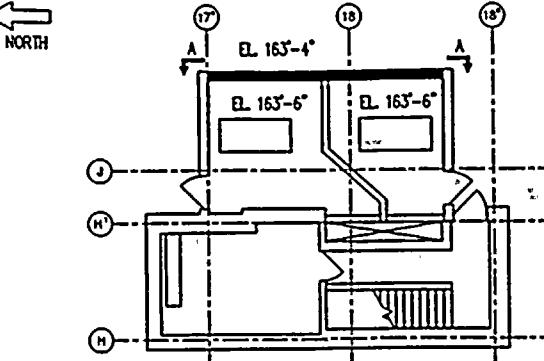
1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

- = 1/4" - ■
 - △ = 5/16" - ▲
 - = 3/8" - ●
 - ◇ = 1/2" - ◆
 - = 5/8" - -
 - ☆ = 3/4" - ★
- AB=ABANDONED

WALL 43C



SI
APERTURE
CARD

Also Available On
Aperture Card

8906140286 - 21

NO.	DATE	DESCRIPTION	OM/SPEC	DWL	CHD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	OM/SPEC	DWL	CHD.	SUPV.	APVO. BY	APPROVED BY				GM														
																REVISIONS	REVISIONS	REVISIONS	REVISIONS		REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
15/16/69 ISSUED FOR INFORMATION																15/16/69	ISSUED FOR INFORMATION	R.S.	P.R.C.	P.O.	—	D.W.L.	APPROVED BY	GM										
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
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																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												
																NO. DATE	DESCRIPTION	OM/SPEC	D.W.L.	CHD.	SUPV.	APVO. BY												

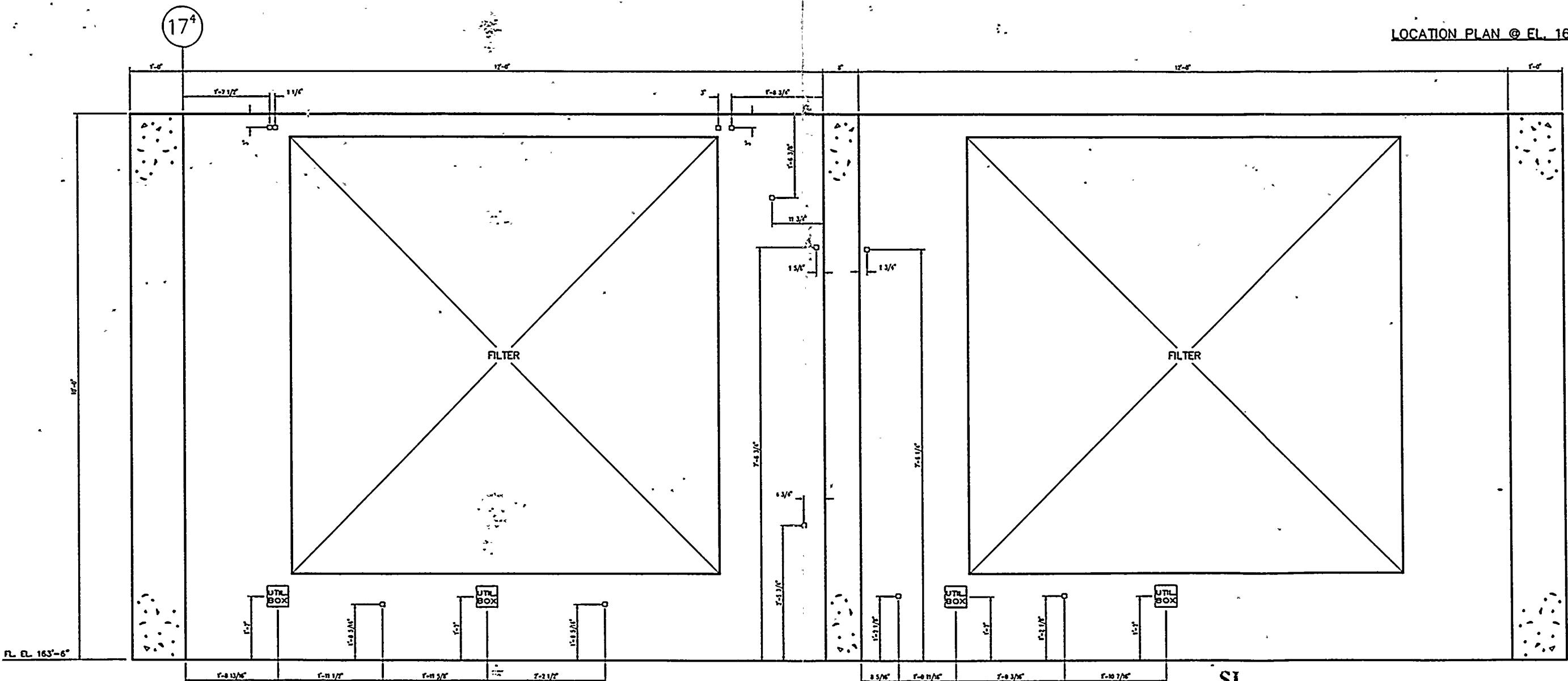
SECRET MESSAGE

1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

STUD TYPE	SHELL TYPE
□ = 1/4"	■
△ = 5/16"	▲
○ = 3/8"	●
◊ = 1/2"	◆
○ = 5/8"	◆
☆ = 3/4"	★
AB=ABANDONED	

WALL 43C



SECTION A-A

LKG. EAST

(FOR OPPOSITE SIDE OF WALL SEE SK-43C-1)

SI
APERTURE
CARD

0906140286-22

Also Available On
Aperture Card

NO. DATE	DESCRIPTION	CH/SPEC	DWLR	CHLD	SUPV.	APVL BY	NO. DATE	DESCRIPTION	CH/SPEC	DWLR	CHLD	SUPV.	APVL BY	NO. DATE	DESCRIPTION	CH/SPEC	DWLR	CHLD	SUPV.	APVL BY
REVISIONS																				

15/10/69 ISSUED FOR INFORMATION

APPROVED BY	GM	REVISIONS	APPROVED BY	GM	REVISIONS
DSGN.			CHKD.		
DWN. R. SALDIVAR			O.K.		
DATE 3/16/69			SCALE 1"-1'-0"		
SHEET NO.			SK-43C-2	REV. 1	

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-C - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM	
BILL OF MATER	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO.	
SHETS	
SK-43C-2	REV. 1

20026450

1 2 3 4 5 6 7 8 9 10

ANCHOR SYMBOLS

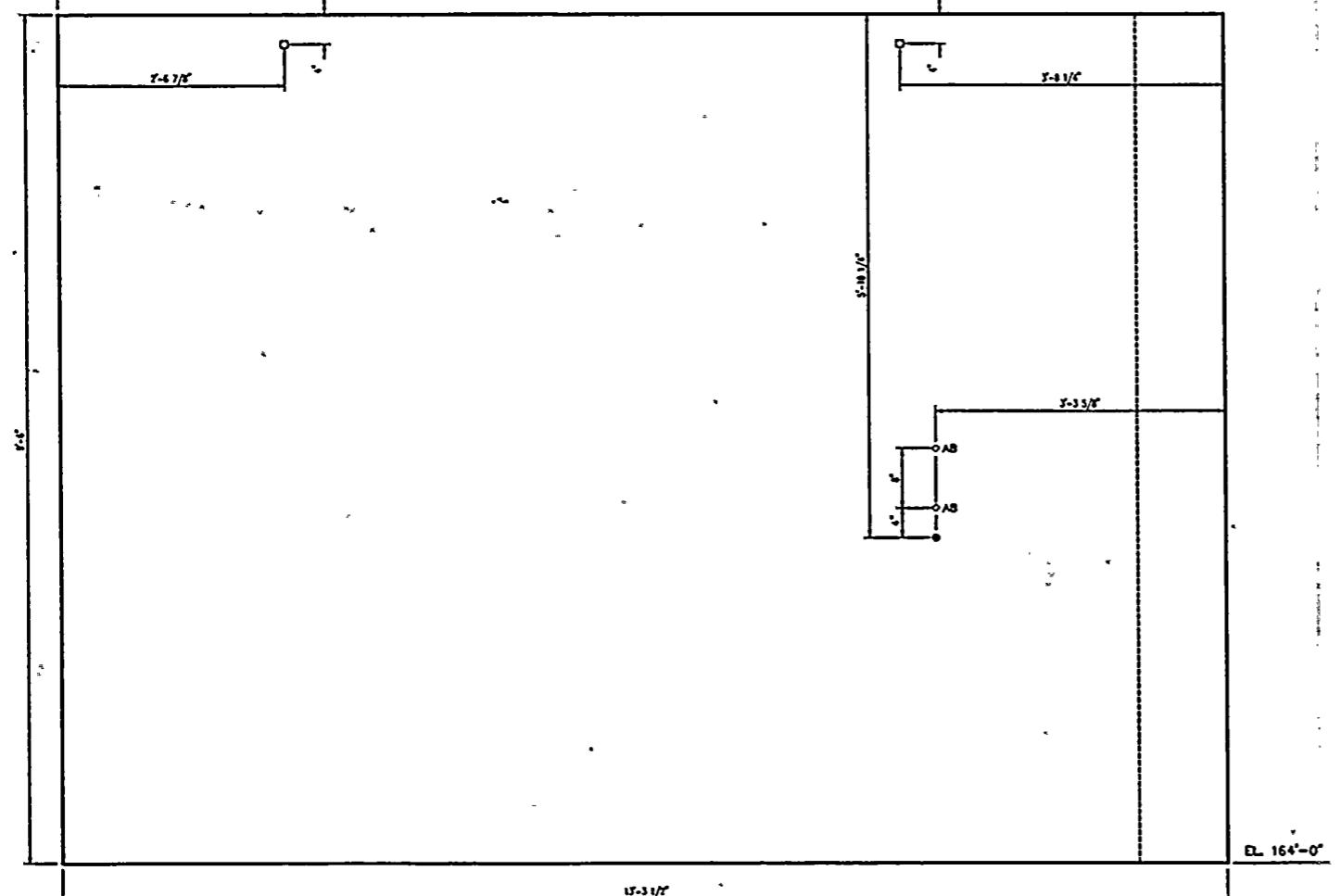
STUD TYPE SHELL TYPE

□ = 1/4"φ	= ■
△ = 5/16"φ	= ▲
○ = 3/8"φ	= ●
◊ = 1/2"φ	= ◆
○ = 5/8"φ	= -
-☆ = 3/4"φ	= ★
AB=ABANDONED	

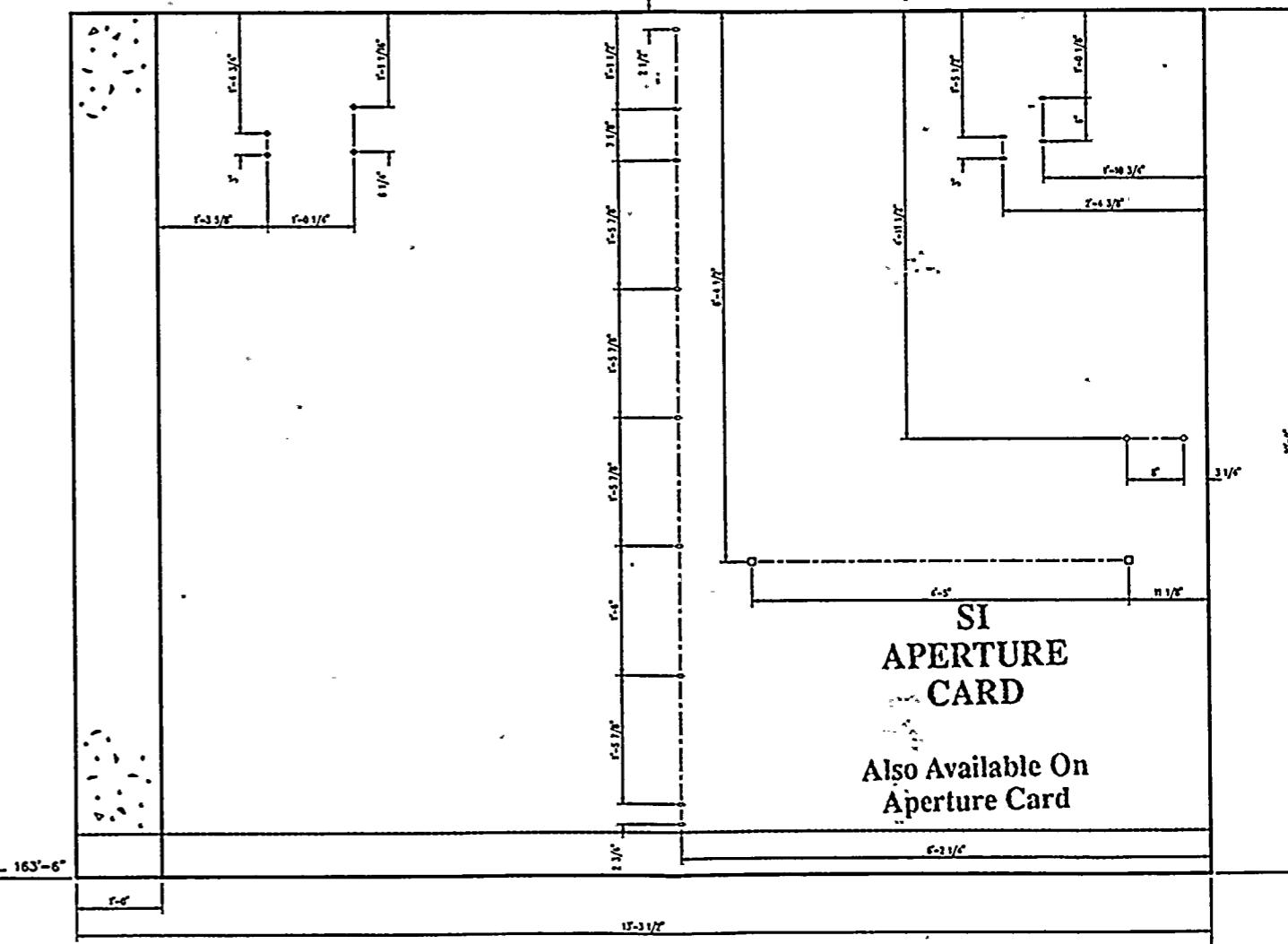
WALL 43D

The diagram illustrates a bridge deck with two spans. The left span has a height of EL 163'-6". The right span has a height of EL 163'-4". A vertical dimension line indicates a height of EL 164'-0" from the base level. A horizontal dimension line shows a distance of 18' between two points labeled 'A'. A cross-section view at the bottom shows a thickness of 12' and a height of 14'.

LOCATION PLAN @ EL. 163'-4"



SECTION A-A
LKG. EAST



SECTION B-B
LKG. WEST -

3906140286-23

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 43-D - AUXILIARY BLDG.
ELEV. 163'-4"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

CROFILM	
ILL OF MTL	
DWG LST	
UPSDS	
UPSD BY	
HEET NO.	SHEETS
SK-43D-1	REV. 1

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1 2 3 4 5 6 7 8 9 10

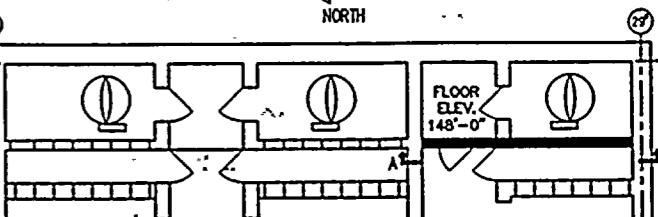
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

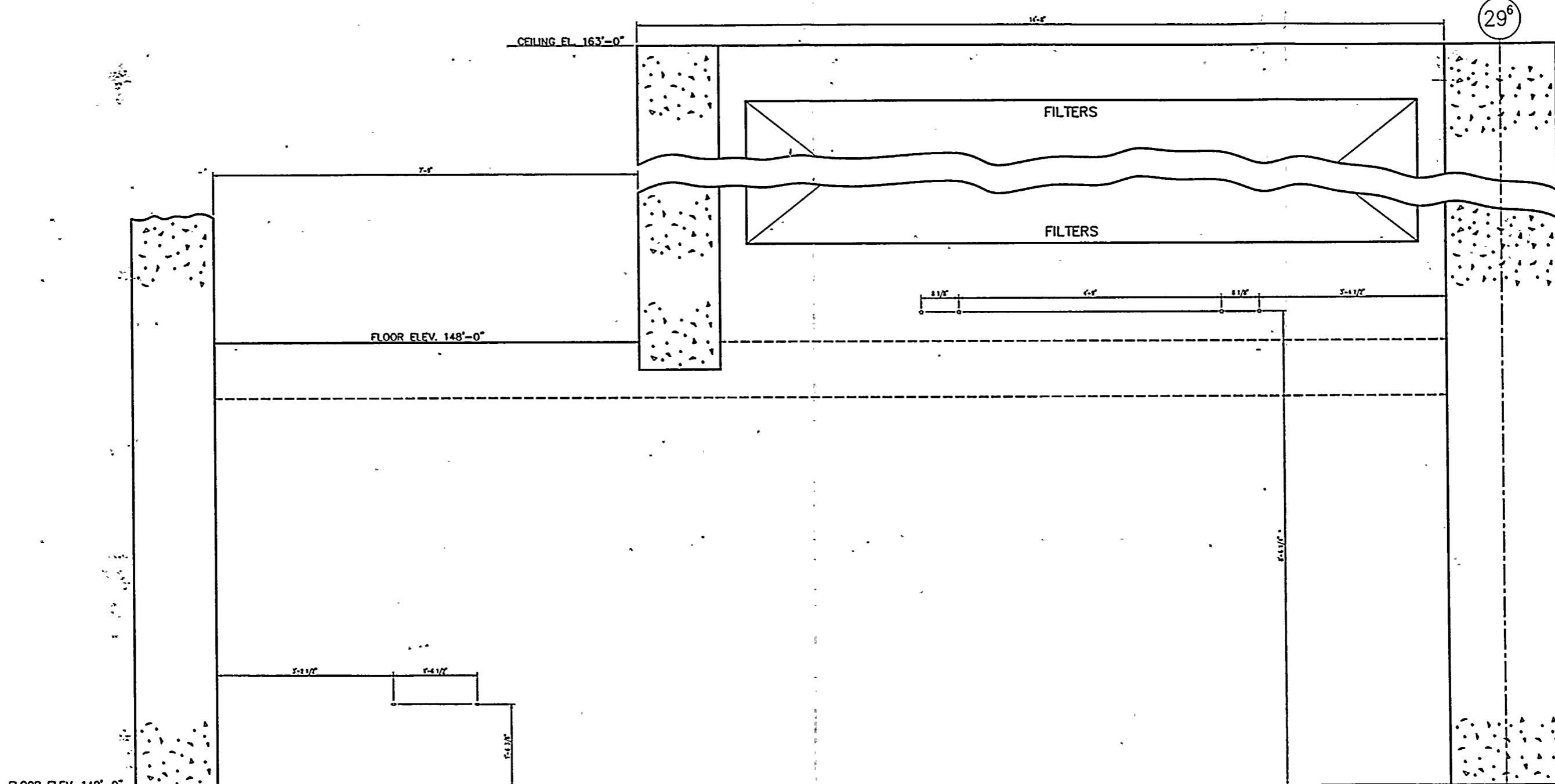
- = $1/4^\circ$ = ■
 △ = $5/16^\circ$ = ▲
 ○ = $3/8^\circ$ = ●
 ◇ = $1/2^\circ$ = ◆
 ○ = $5/8^\circ$ = ◻
 ☆ = $3/4^\circ$ = ★

A8-ABANDONE

WALL 51



LOCATION PLAN @ 140'-0"



SI
APERTURE
CARD

**Also Available On
Aperture Card**

SECTION A-A

LKG. EAS

(FOR OPPOSITE SIDE OF WALL SEE SK-51-6)

						APPROVED BY	CW	AS-BUILT LOCATION OF CONC EXPANSION ANCHOR BOLTS FOR WALL 51 - AUXILIARY BLDG.
NO. BY	NO. DATE	DESCRIPTION	A.N.	P.C.	R.O.	CHKD.	SUPV.	ELEV. 140'-0"
	15/16/69	ISSUED FOR INFORMATION	CW/SPEC	DRAW.	CHKD.	SUPV.	APVD. BY	SCALES: 1"-1'-0"
								PACIFIC GAS AND ELECTRIC COMP SAN FRANCISCO, CALIFORNIA

MICROFILM	
BILL OF MATL	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO.	SHEETS
ANY SK-51-1 REV. 1	

2004 RELEASE UNDER E.O. 14176

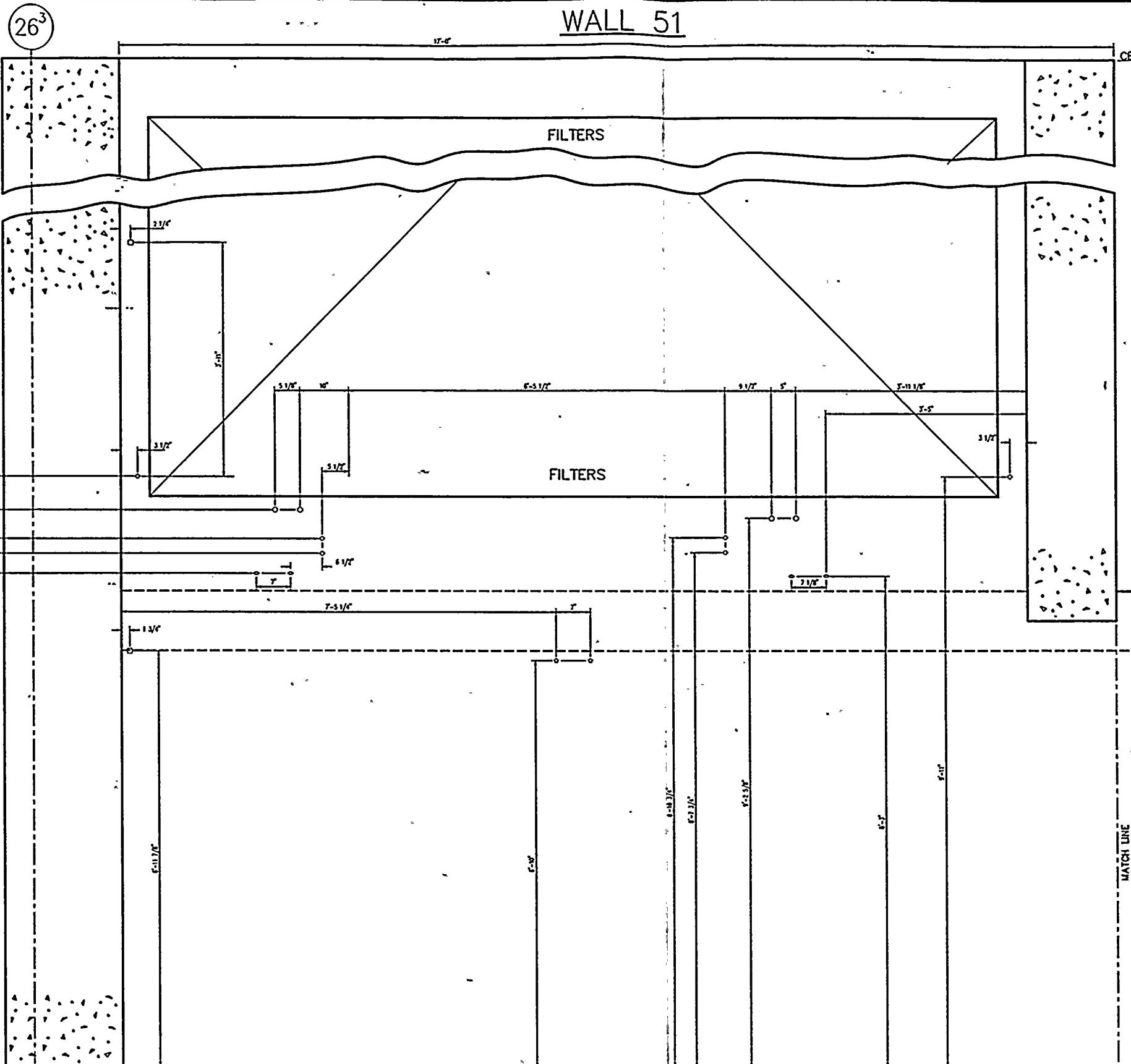
Supreme

1 2 3 4 5 6 7 8 9 10

WALL 51

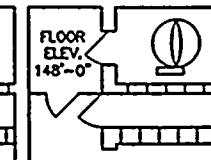
ANCHOR SYMBOLS

- | STUD TYPE | SHELL TYPE |
|--------------|------------|
| □ = 1/4" | ■ |
| △ = 5/16" | ▲ |
| ○ = 3/8" | ● |
| ◊ = 1/2" | ◆ |
| ⊖ = 5/8" | ⊖ |
| ☆ = 3/4" | ☆ |
| AB=ABANDONED | |



CEILING EL. 163'-0"

NORTH



SI
APERTURE
CARD

Also Available On
Aperture Card

8906140286-26

SECTION A-A

LKG. EAST

(FOR OPPOSITE SIDE OF WALL SEE SK-51-4)

NO.	DATE	DESCRIPTION	CH/SPEC	D/WL	CHD.	SUPV.	APVO. BY	NO.	DATE	DESCRIPTION	CH/SPEC	D/WL	CHD.	SUPV.	APVO. BY	REVISIONS		REVISIONS		REVISIONS		
																REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 51 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSOS
SUPSD BY
SHEET NO. SHEETS
SK-51-3 REV. 1

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OR SYMBOLS

2

1

1

1

1

1

2

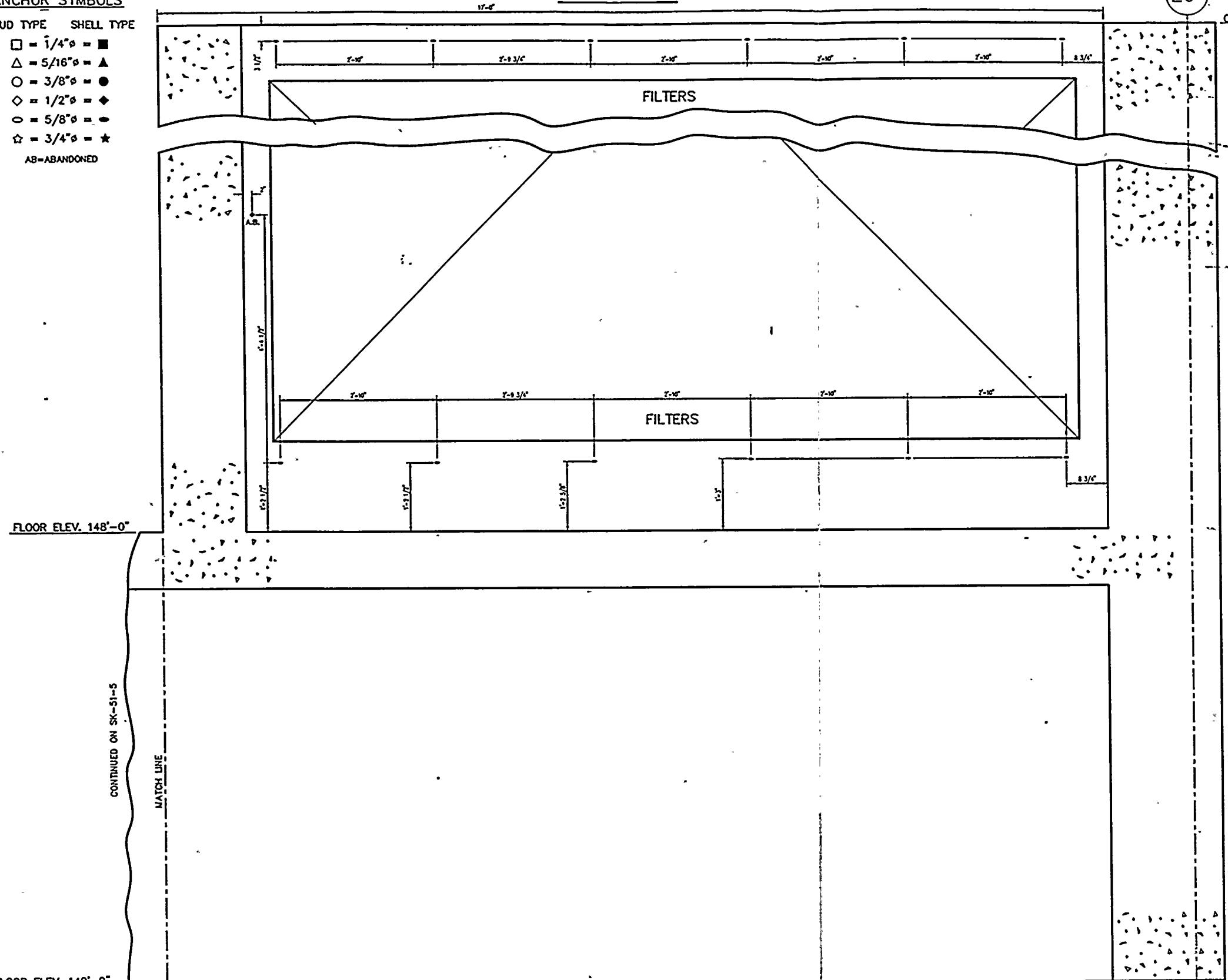
1

10

WALL 51

STUD TYPE SHELL TYPE

□ = 1/4"φ = ■
 △ = 5/16"φ = ▲
 ○ = 3/8"φ = ●
 ◇ = 1/2"φ = ◆
 ◎ = 5/8"φ = ◎
 ☆ = 3/4"φ = ★



SI
APERTURE
CARD

**Also Available On
Aperture Card**

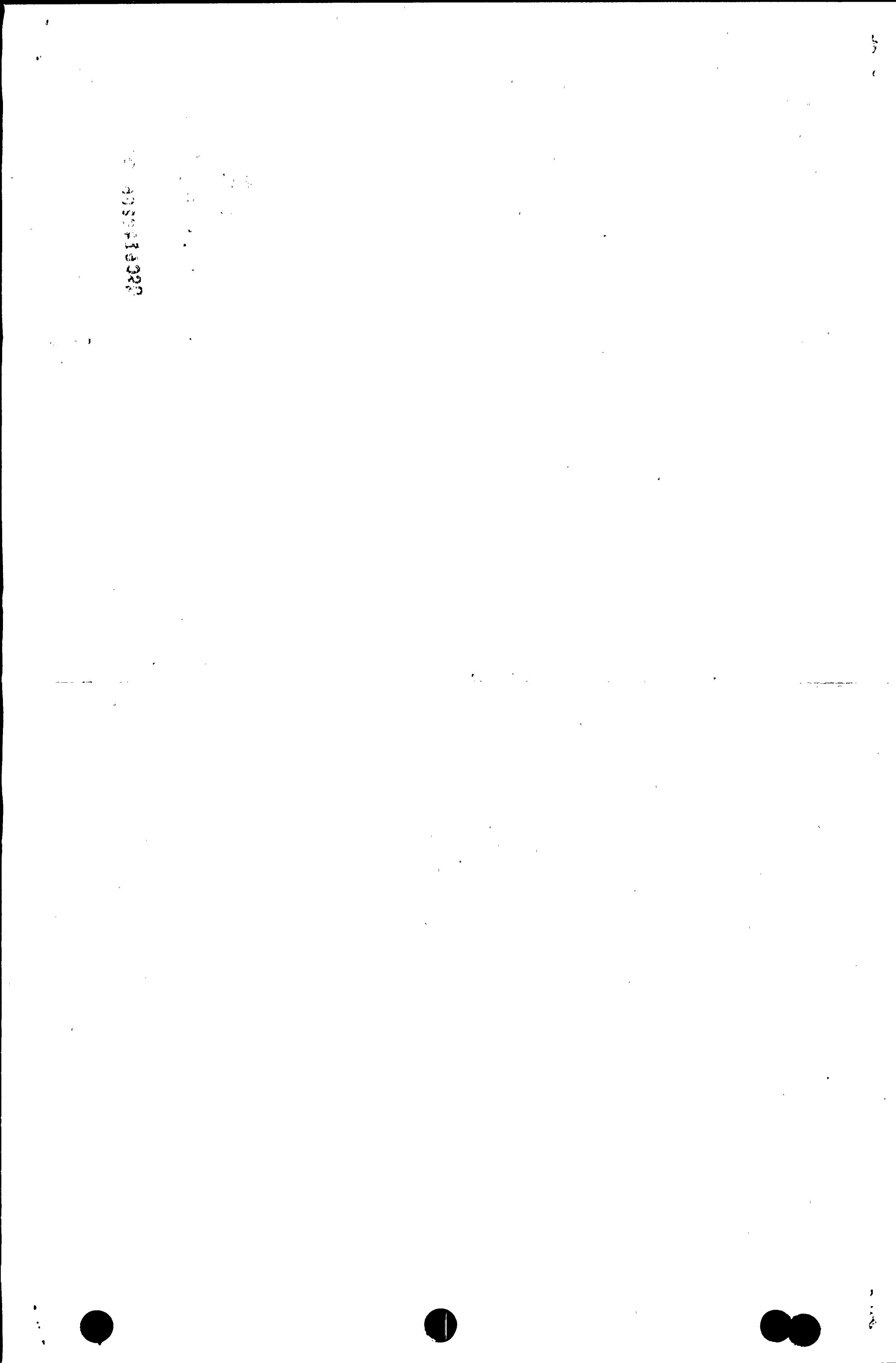
3906140286-27

SECTION A-A

LKG. WEST

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 51 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

ALL OF MATL	
WG LIST	
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HEET NO.	SHEETS
SK-51- ⁵	REV. 1



1 2 3 4 5 6 7 8 9 10

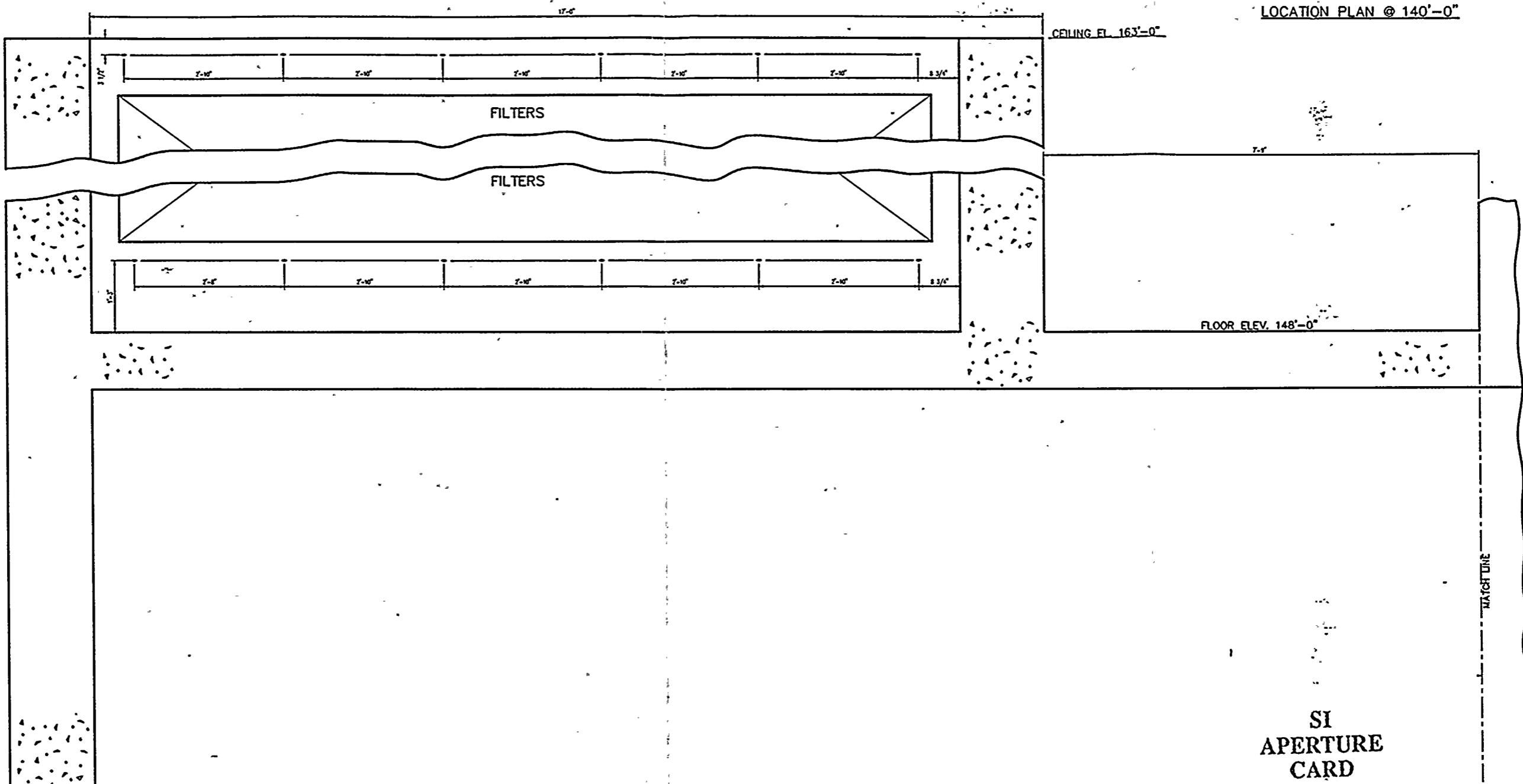
ANCHOR SYMBOLS

STUD TYPE SHELL TYPE

<input type="checkbox"/>	= 1/4" φ	= ■
△	= 5/16" φ	= ▲
○	= 3/8" φ	= ●
◊	= 1/2" φ	= ◆
○	= 5/8" φ	= -
☆	= 3/4" φ	= ★

AB=ABANDONED

WALL 51



SI
APERTURE
CARD

SECTION A-A

LKG. WEST

**Also Available On
Aperture Card**

8906140286-28

AS-BUILT LOCATION OF CONCRETE
EXPANSION ANCHOR BOLTS FOR
WALL 51 - AUXILIARY BLDG.
ELEV. 140'-0"
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

ALL OF MTL	
NG LST	
UPSOS	
UPSD BY	
HEET NO.	SHEETS
SK-51-5	REV. 1

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DODGE PINTOSER