Rancho Seco

Final Status Survey Summary Report

October 31, 2007

"A" Warehouse (interior)

Survey Unit F8400001

Prepared By: Dan A Tallman _____ **Date:** 10/31/2007

FSS Engineer

Reviewed By: _____ **Date:** 10/31/07

Lead FSS Engineer

Approved By: _____ **Date:** 11-13-07

Dismantlement Superintendent, Radiological

FINAL STATUS SURVEY SUMMARY REPORT

Survey Unit:

F8400001, "A" Warehouse (interior)

Survey Unit Description:

Operating History: This structure was used as a primary site warehouse with attached office space. This area was not reported to have been used for the storage of radioactive material. Operating records and the HSA document no occurrences of radioactive material with the potential for a release of radioactivity associated with this survey area.

Site Characterization: Direct measurements were made of the interior and exterior surfaces of the structure which confirmed the absence of plant-derived radionuclides. Direct measurements interior showed a mean gross activity level of 1,941 dpm/100 cm^2 and a maximum value of 3,397 dpm/100 cm^2. Based on the classification procedure (DSIP-0020) and levels of gross activity reported, the area was determined to be a Class 3 area.

HSA Events: None

Survey Unit Design Information:

The Survey Unit Design Parameters are presented in Table 1 below. The survey unit and measurement locations are depicted on the maps in Attachment 1. Direct measurement locations were randomly determined and 234 m^2 were scanned for approximately 5% coverage. Samples of removable contamination were collected at each direct measurement location. The instrumentation used for the survey along with the MDC values are listed in Tables 2-1 and 2-2 in Attachment 2.

Table 1. Survey Unit Design Parameters

Survey Design Parameter	Value	Comment
Survey Area:	F840	"A" Warehouse (interior)
Survey Unit:	0001	Structure Surface
Class:	3	LTP Table 5-4
SU Area (m^2)**:**	4548	
Evaluator:	DA Tallman	
DCGL (dpm/100 cm^2)**:**	43000	Gross Activity DCGL
Area Factor:	N/A	Class 3
Design DCGLemc (dpm/100 cm^2)**:**	N/A	Class 3
LBGR (dpm/100 cm^2)**:**	21500	Default = 50% DCGL
Design Sigma (dpm/100 cm^2)**:**	495	
Type I Error:	0.05	
Type II Error:	0.05	
Predominant Nuclide:	Cs-137	
Sample Area (m^2)**:**	N/A	Class 3
Scan Area (m^2)**:**	234	
Scan Coverage (%):	5%	Class 3
$Z_{1-\alpha}$ **:**	1.645	
$Z_{1-\beta}$ **:**	1.645	
Sign P:	0.99865	
Calculated Relative Shift:	43.4	
Relative Shift Used:	3	Uses 3.0 if Relative Shift is >3
N-Value:	11	
Design N-Value + 20%:	14	NUREG-1575 Table 5-5
Design Min Samples N:	14	Class 3
Grid Spacing L:	N/A	Class 3

Survey Results:

A total of 14 direct measurements were made in F8400001. The results including mean, median, standard deviation and range are shown in Table 2. All direct measurements were less than the DCGL. None of the scan measurements indicated areas of elevated activity. Scan activity ranged from 2,123 to 6,573 dpm/100 cm², based on a surveyor efficiency of 0.5 and no background subtracted. Samples for removable surface activity were all less than 10% of the DCGL as shown in Table 3. Removable surface activity samples were counted for alpha activity and none was detected at the MDC shown in Table 2-1 of Attachment 2.

Table 2. Direct Measurement Results

Measurement ID	Gross Activity (dpm/100 cm^2)
F8400001-X0001BD	1613
F8400001-X0002BD	1458
F8400001-C0003BD	1852
F8400001-X0004BD	1639
F8400001-X0005BD	1380
F8400001-C0006BD	1873
F8400001-C0007BD	1691
F8400001-U0008BD	1800
F8400001-X0009BD	1530
F8400001-T0010BD	2760
F8400001-M0011BD	661
F8400001-U0012BD	1276
F8400001-X0013BD	1354
F8400001-M0014BD	794
Mean:	1549
Median:	1572
Standard Deviation:	501
Range:	661 - 2760

Table 3. Removable Surface Activity Results

Measurement ID	Surface Beta Activity (dpm/100 cm^2)
F8400001X0001SM	3.58
F8400001X0002SM	9.98
F8400001X0003SM	6.14
F8400001X0004SM	-0.27
F8400001X0005SM	2.29
F8400001X0006SM	-0.27
F8400001X0007SM	7.42
F8400001X0008SM	-1.55
F8400001X0009SM	6.14
F8400001X0010SM	3.58
F8400001X0011SM	-0.27
F8400001X0012SM	2.29
F8400001X0013SM	3.58
F8400001X0014SM	8.7
	9.98
Mean:	4.09
Median:	3.58
Standard Deviation:	3.84
Range:	-1.55 to 9.98

Survey Unit Data Assessment:

The survey design required 14 direct measurements for the Sign Test. The critical value and the results of the Sign Test are presented in Table 4. The sample mean and median values were less than the DCGL. While the sample standard deviation was not less than the design standard deviation, both values for sigma resulted in a relative shift of greater than three (3) so no additional samples were required.

Table 4. Data Assessment Results

Survey Results Parameter	Value	Comment
Material Background Used (dpm/100 cm^2):	N/A	
Ambient Background Used (dpm/100 cm^2):	N/A	Average Ambient BKG = 0
Actual Direct Measurements (N):	14	
Median (dpm/100 cm^2):	1572	
Mean (dpm/100 cm^2):	1549	
Direct Measurement Standard Deviation (dpm/100 cm^2):	501	
Total Standard Deviation (dpm/100 cm^2):	501	Based on samples and backgrounds.
Maximum (dpm/100 cm^2):	2760	
Material Type:	N/A	Background Subtract Not Applied
Sign Test Final N Value:	14	
S+ Value:	14	
Critical Value:	10	
Sufficient Samples Collected:	Yes	
Maximum Value < DCGL:	Yes	
Median Value < DCGL:	Yes	
Mean Value < DCGL:	Yes	
Maximum Value < DCGLemc:	N/A	Class 3
Total Standard Deviation <= Sigma:	Investigate	No additional sample required
Pass the Sign Test?	Yes	
Reject the Null Hypothesis?	Yes	
Does the Survey Unit Pass All Criteria?	Investigate	The survey unit passes all conditions: no additional samples required

Survey Unit Investigations and Results:

No investigations were required for either direct or scan measurements and no investigation results are reported.

ALARA Statement:

As stated in Chapter 4 of the LTP, as long as the residual activity within the survey unit is less than the DCGL (i.e. the survey unit average activity is less than the DCGL and the EMC criterion has been met), the ALARA criterion has been met.

Changes in Initial Survey Unit Assumptions:

The survey unit was designed as a Class 3 structure survey and the sample results are consistent with that classification. While the variability of the survey results was not less than the characterization data used for survey design, no additional samples were required. No potential areas of elevated activity were detected.

Conclusion:

The FSS of this survey unit was properly designed as a Class 3 survey based on Table 5-4 of the LTP. The required number of direct measurements was made and the scan coverage met the requirement of Table 5-6 of the LTP. No direct measurements exceeded the DCGL of 43000 dpm/100 cm^2 and none of the removable surface activity measurements exceeded 10% of the DCGL. No investigations were required.

The direct measurement data support rejection of the null hypothesis, providing high confidence that the survey unit satisfied the release criteria and that the data quality objectives were met.

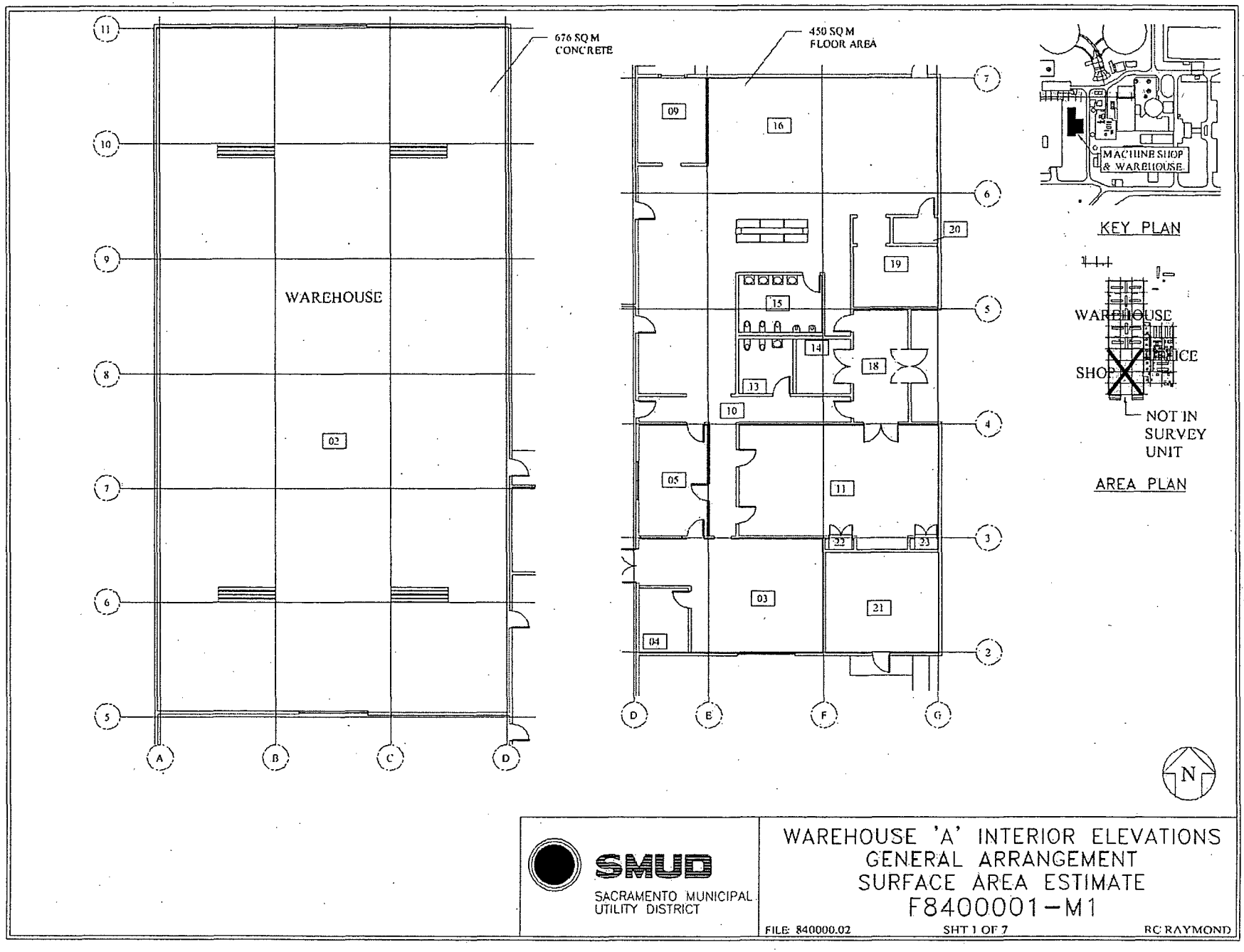
It is concluded that survey unit F8400001 meets the release criteria of 10CFR20.1402.

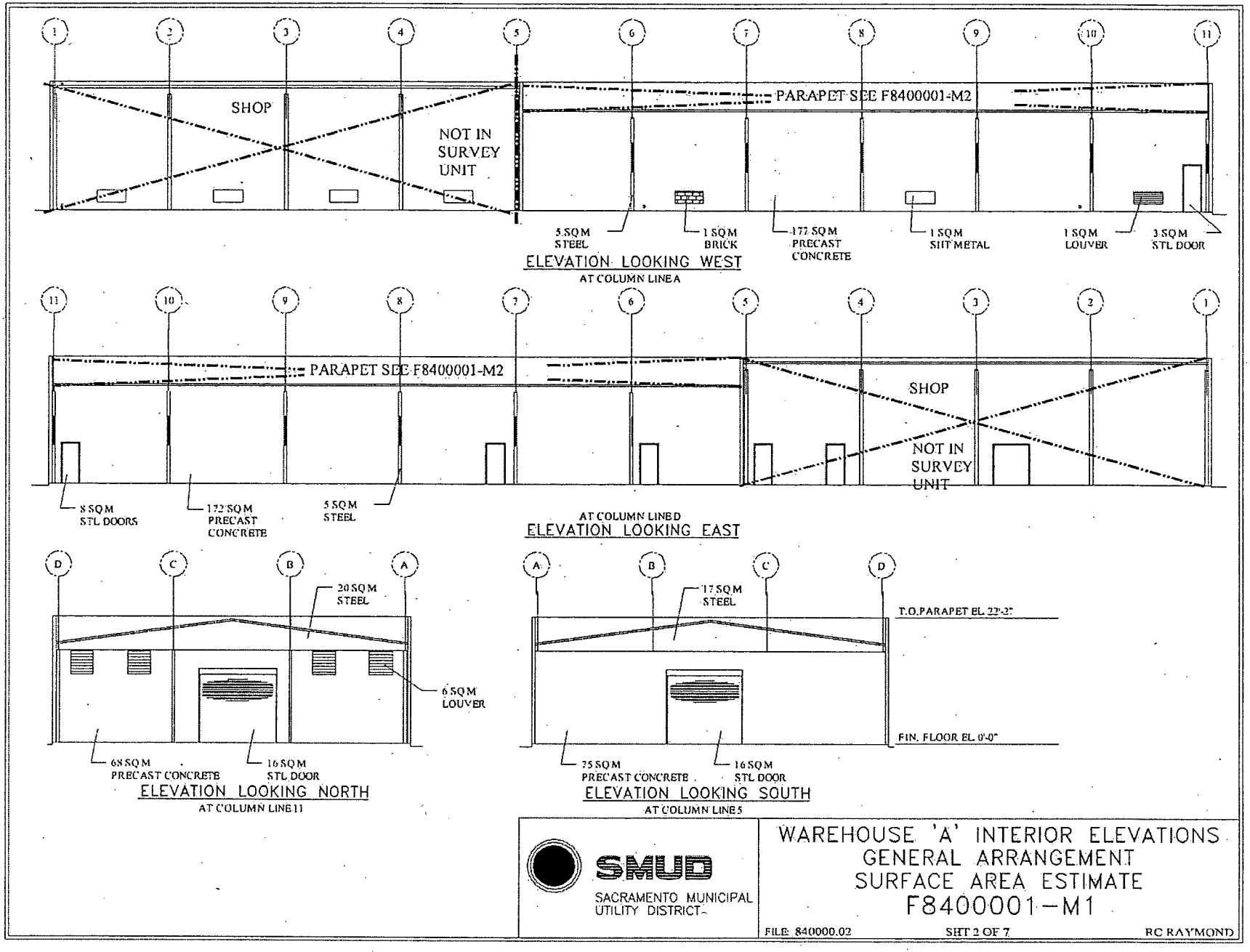
Attachment 1

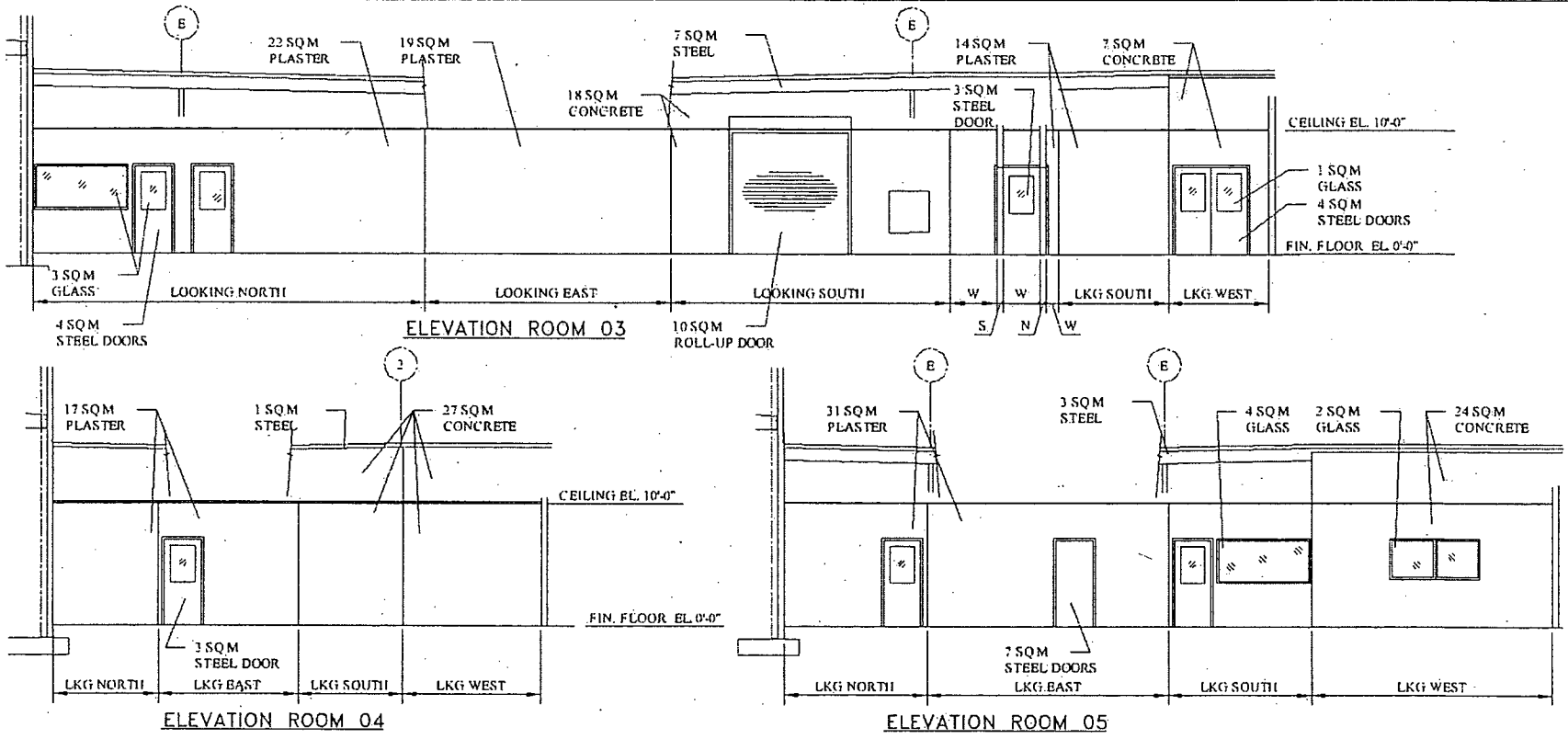
Maps

October 31, 2007

Survey Unit F8400001


676 SQ M
CONCRETE
WAREHOUSE
02
450 SQ M
FLOOR AREA
09
16
20
19
15
14
18
13
10
05
11
22
23
03
21
04
MACHINE SHOP
& WAREHOUSE
KEY PLAN
WAREHOUSE
OFFICE
SHOP
NOT IN
SURVEY
UNIT
AREA PLAN
N
SMUD
SACRAMENTO MUNICIPAL
UTILITY DISTRICT
WAREHOUSE 'A' INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1
FILE: 840000.02
SHT 1 OF 7
RC RAYMOND

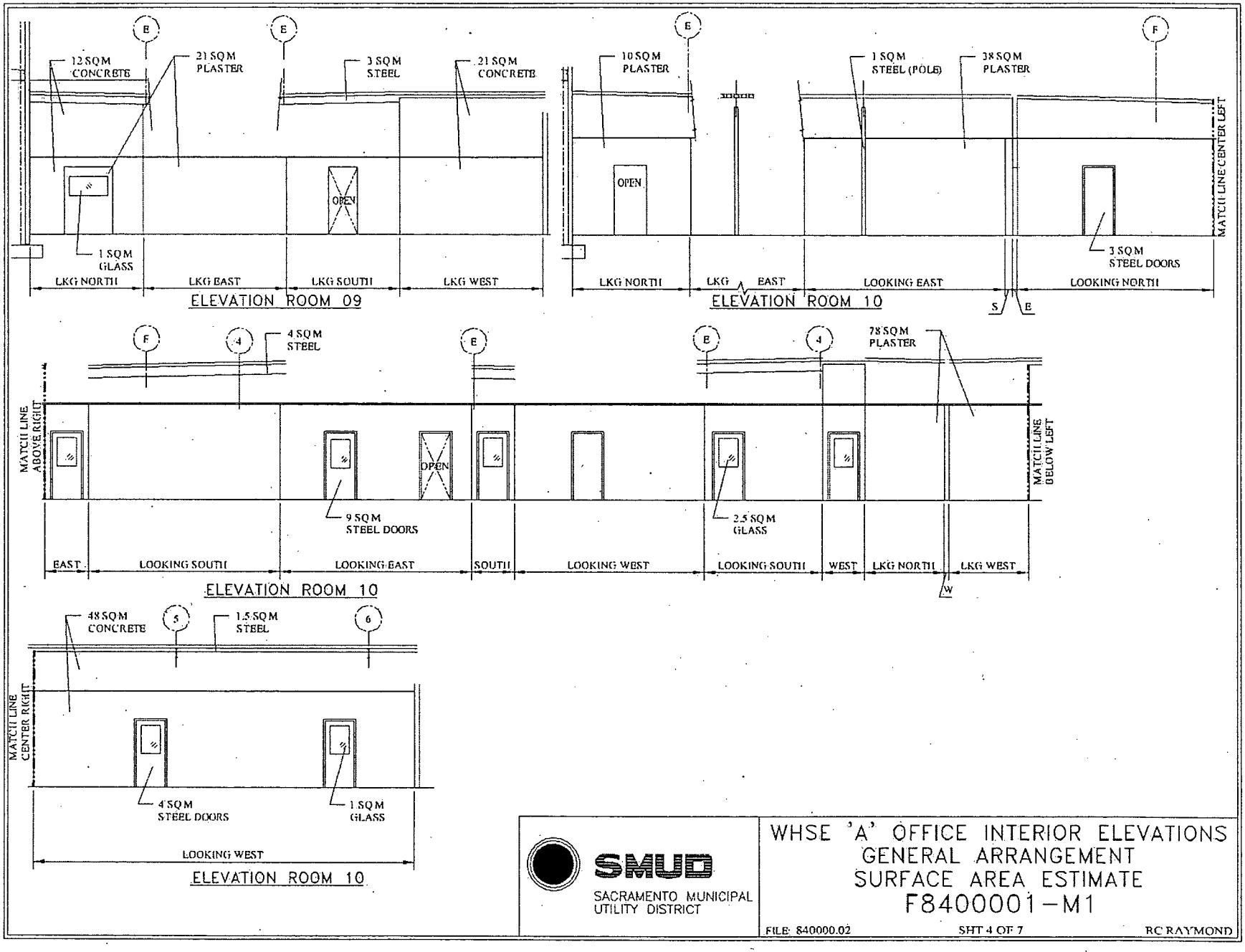

SHOP
NOT IN SURVEY UNIT
PARAPET SEE F8400001-M2
5 SQM STEEL
1 SQM BRICK
177 SQM PRECAST CONCRETE
1 SQM SHT METAL
1 SQM LOUVER
3 SQM STL DOOR
ELEVATION LOOKING WEST
AT COLUMN LINE A
PARAPET SEE F8400001-M2
SHOP
NOT IN SURVEY UNIT
8 SQM STL DOORS
172 SQM PRECAST CONCRETE
5 SQM STEEL
AT COLUMN LINE D
ELEVATION LOOKING EAST
20 SQM STEEL
6 SQM LOUVER
68 SQM PRECAST CONCRETE
16 SQM STL DOOR
ELEVATION LOOKING NORTH
AT COLUMN LINE 11
17 SQM STEEL
T.O. PARAPET EL. 22'-2"
FIN. FLOOR EL. 0'-0"
75 SQM PRECAST CONCRETE
16 SQM STL DOOR
ELEVATION LOOKING SOUTH
AT COLUMN LINE 5
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WAREHOUSE 'A' INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1
FILE: 840000.02
SHT 2 OF 7
RC RAYMOND

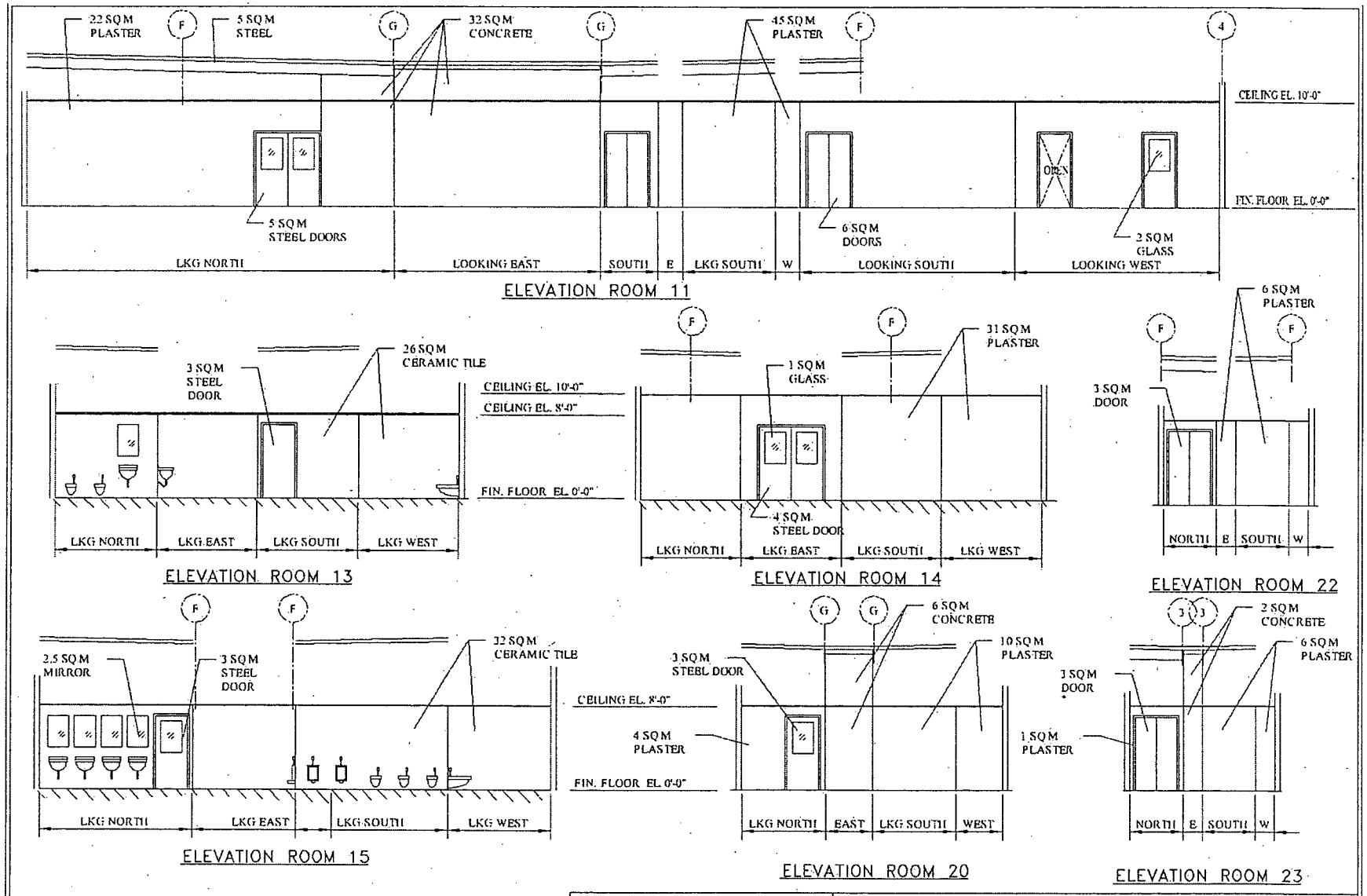


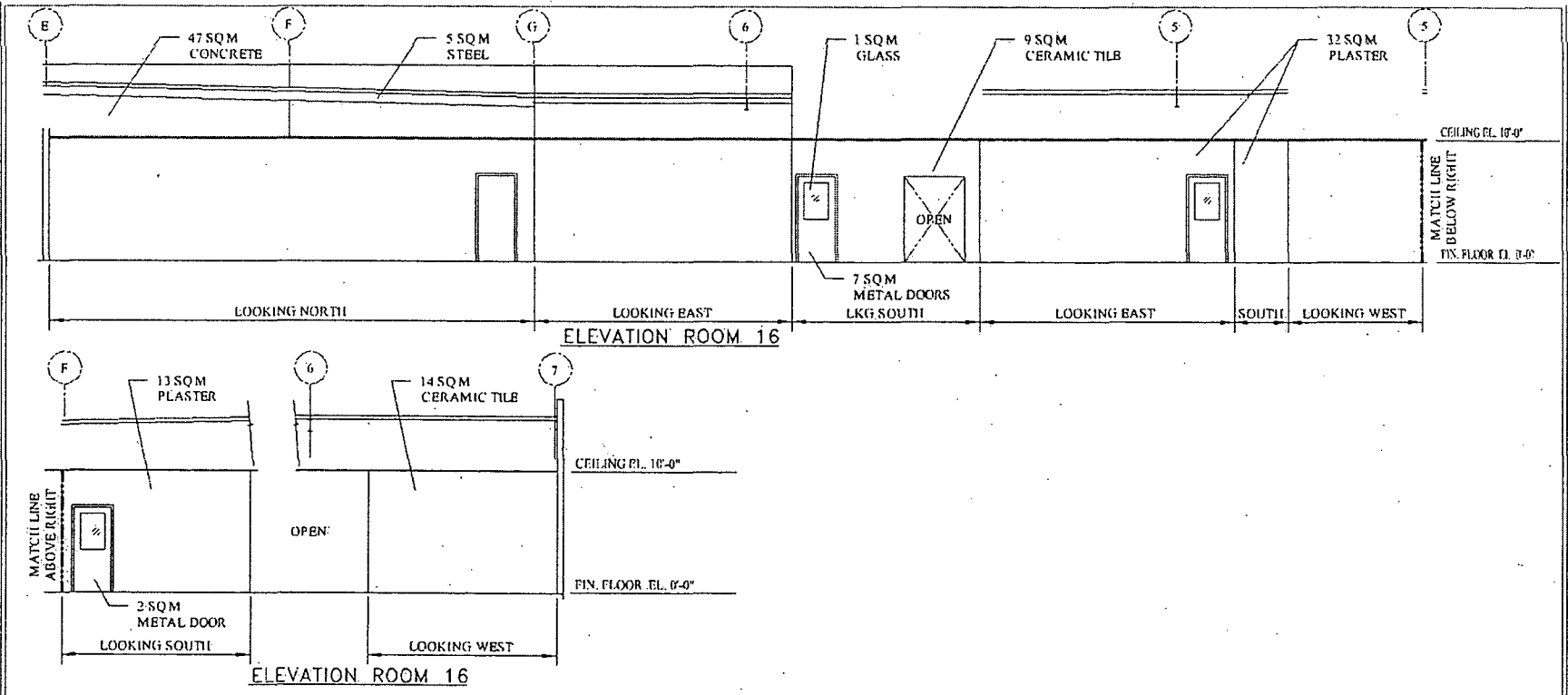
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1

FILE: 840000.02 SHT 3 OF 7 RC RAYMOND


12 SQM CONCRETE
21 SQM PLASTER
3 SQM STEEL
21 SQM CONCRETE
1 SQM GLASS
OPEN
LKG NORTH
LKG EAST
LKG SOUTH
LKG WEST
ELEVATION ROOM 09
10 SQM PLASTER
1 SQM STEEL (POLE)
38 SQM PLASTER
OPEN
3 SQM STEEL DOORS
MATCH LINE CENTER LEFT
LKG NORTH
LKG EAST
LOOKING EAST
LOOKING NORTH
ELEVATION ROOM 10
4 SQM STEEL
78 SQM PLASTER
MATCH LINE ABOVE RIGHT
MATCH LINE BELOW LEFT
OPEN
9 SQM STEEL DOORS
2.5 SQM GLASS
EAST
LOOKING SOUTH
LOOKING EAST
SOUTH
LOOKING WEST
LOOKING SOUTH
WEST
LKG NORTH
LKG WEST
ELEVATION ROOM 10
48 SQM CONCRETE
1.5 SQM STEEL
MATCH LINE CENTER RIGHT
4 SQM STEEL DOORS
1 SQM GLASS
LOOKING WEST
ELEVATION ROOM 10
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WHSE 'A' OFFICE INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1
FILE: 840000.02
SHT 4 OF 7
RC RAYMOND


22 SQM PLASTER
5 SQM STEEL
32 SQM CONCRETE
45 SQM PLASTER
CEILING EL. 10'-0"
FIN. FLOOR EL. 0'-0"
5 SQM STEEL DOORS
6 SQM DOORS
2 SQM GLASS
OPEN
LKG NORTH
LOOKING EAST
SOUTH
E
LKG SOUTH
W
LOOKING SOUTH
LOOKING WEST
ELEVATION ROOM 11
3 SQM STEEL DOOR
26 SQM CERAMIC TILE
CEILING EL. 10'-0"
CEILING EL. 8'-0"
FIN. FLOOR EL. 0'-0"
LKG NORTH
LKG EAST
LKG SOUTH
LKG WEST
ELEVATION ROOM 13
1 SQM GLASS
31 SQM PLASTER
4 SQM STEEL DOOR
LKG NORTH
LKG EAST
LKG SOUTH
LKG WEST
ELEVATION ROOM 14
6 SQM PLASTER
3 SQM DOOR
NORTH
E
SOUTH
W
ELEVATION ROOM 22
2.5 SQM MIRROR
3 SQM STEEL DOOR
32 SQM CERAMIC TILE
LKG NORTH
LKG EAST
LKG SOUTH
LKG WEST
ELEVATION ROOM 15
6 SQM CONCRETE
10 SQM PLASTER
3 SQM STEEL DOOR
CEILING EL. 8'-0"
4 SQM PLASTER
FIN. FLOOR EL. 0'-0"
LKG NORTH
EAST
LKG SOUTH
WEST
ELEVATION ROOM 20
2 SQM CONCRETE
6 SQM PLASTER
3 SQM DOOR
1 SQM PLASTER
NORTH
E
SOUTH
W
ELEVATION ROOM 23
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WHSE 'A' OFFICE INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1
FILE: 840000.02
SHT 5 OF 7
RC RAYMOND



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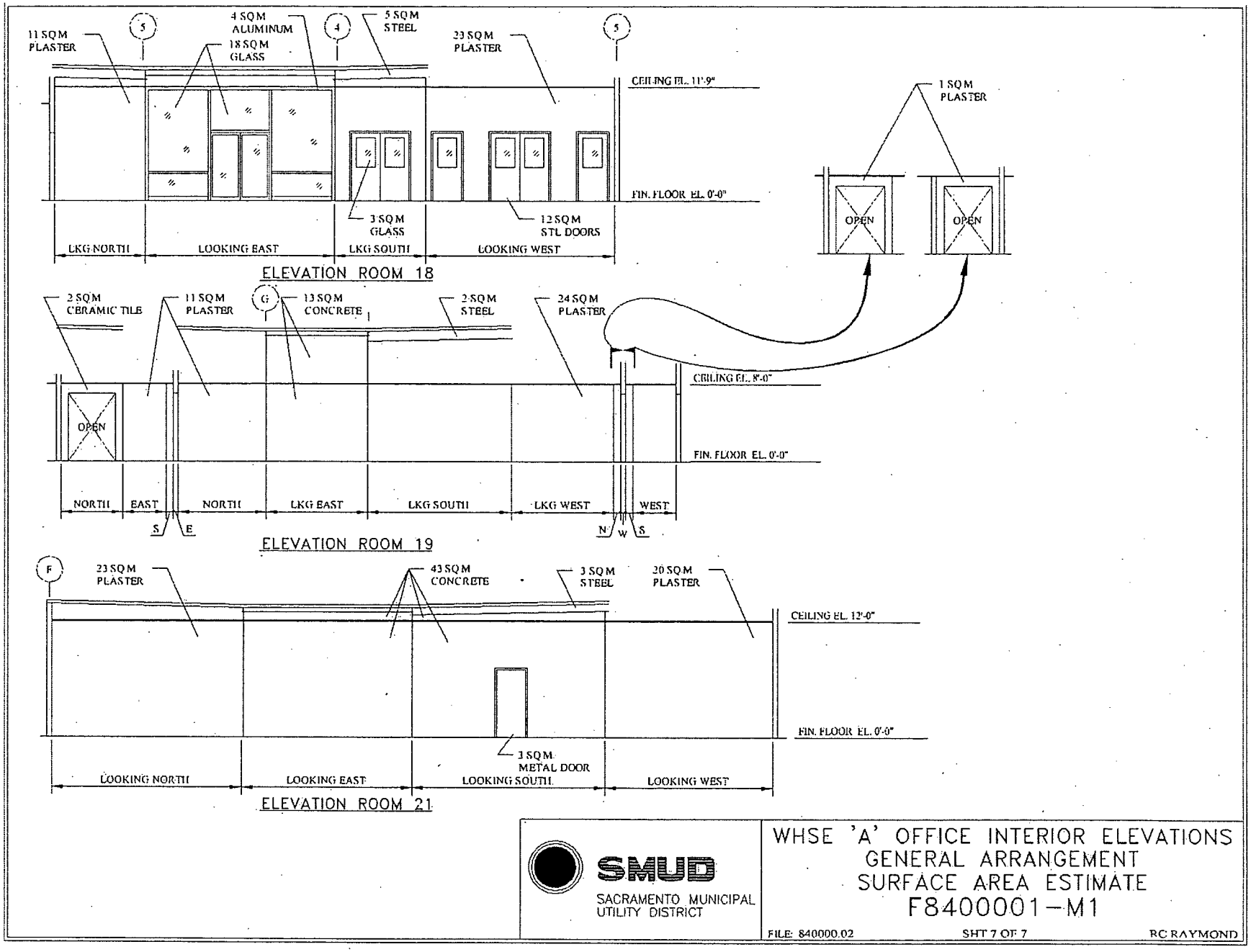
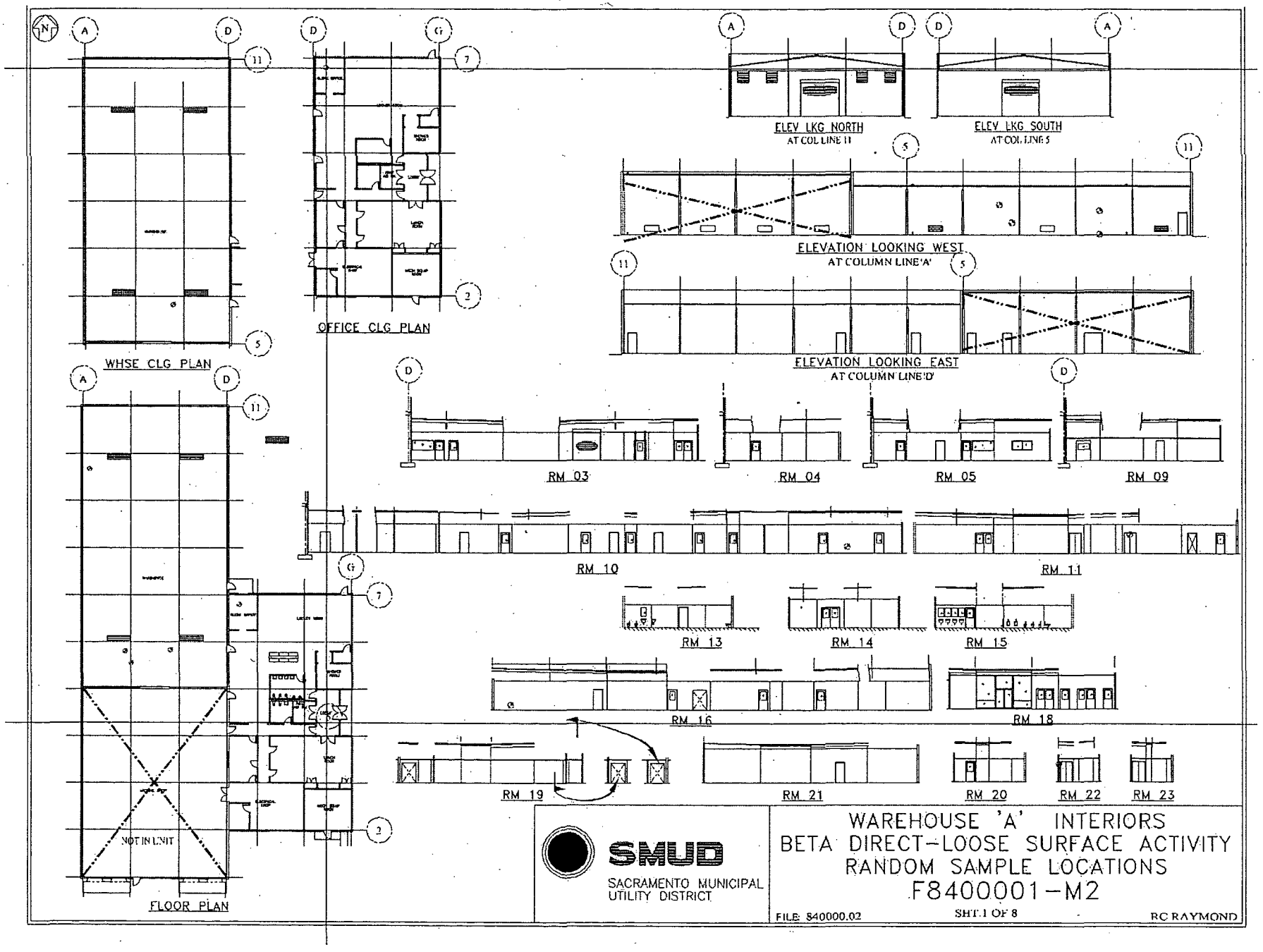
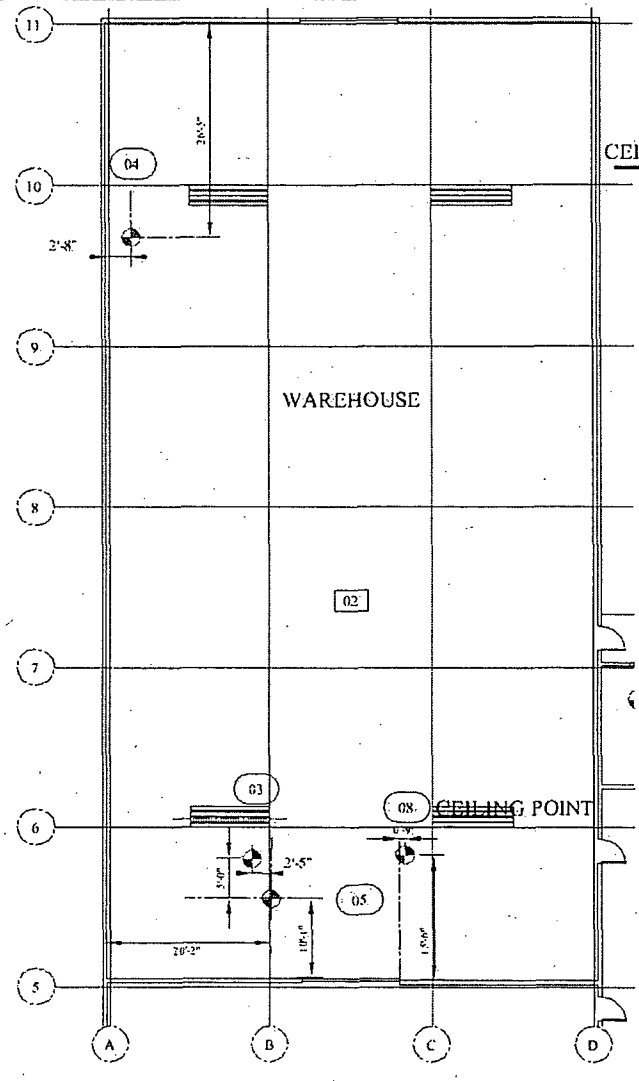
SACRAMENTO MUNICIPAL UTILITY DISTRICT

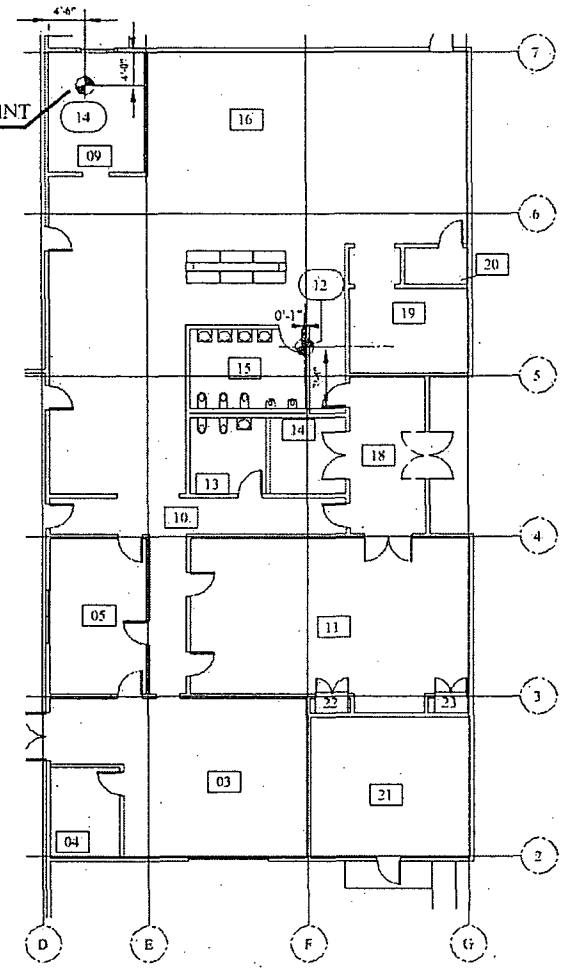
WHSE 'A' OFFICE INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1

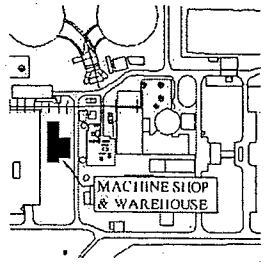
FILE: 840000.02 SHT 6 OF 7 RC RAYMOND


11 SQM PLASTER
4 SQM ALUMINUM
18 SQM GLASS
5 SQM STEEL
23 SQM PLASTER
CEILING EL. 11'-9"
FIN. FLOOR EL. 0'-0"
3 SQM GLASS
12 SQM STL DOORS
LKG NORTH
LOOKING EAST
LKG SOUTH
LOOKING WEST
ELEVATION ROOM 18
1 SQM PLASTER
OPEN
OPEN
2 SQM CERAMIC TILE
11 SQM PLASTER
13 SQM CONCRETE
2 SQM STEEL
24 SQM PLASTER
CEILING EL. 8'-0"
FIN. FLOOR EL. 0'-0"
OPEN
NORTH
EAST
NORTH
LKG EAST
LKG SOUTH
LKG WEST
WEST
S
E
N
W
S
ELEVATION ROOM 19
23 SQM PLASTER
43 SQM CONCRETE
3 SQM STEEL
20 SQM PLASTER
CEILING EL. 12'-0"
FIN. FLOOR EL. 0'-0"
3 SQM METAL DOOR
LOOKING NORTH
LOOKING EAST
LOOKING SOUTH
LOOKING WEST
ELEVATION ROOM 21
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WHSE 'A' OFFICE INTERIOR ELEVATIONS
GENERAL ARRANGEMENT
SURFACE AREA ESTIMATE
F8400001-M1
FILE: 840000.02
SHT 7 OF 7
RC RAYMOND


WHSE CLG PLAN
OFFICE CLG PLAN
ELEV LKG NORTH
AT COL LINE 11
ELEV LKG SOUTH
AT COL LINE 5
ELEVATION LOOKING WEST
AT COLUMN LINE 'A'
ELEVATION LOOKING EAST
AT COLUMN LINE 'D'
RM 03
RM 04
RM 05
RM 09
RM 10
RM 11
RM 13
RM 14
RM 15
RM 16
RM 18
RM 19
RM 21
RM 20
RM 22
RM 23
NOT IN UNIT
FLOOR PLAN
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WAREHOUSE 'A' INTERIORS
BETA DIRECT-LOOSE SURFACE ACTIVITY
RANDOM SAMPLE LOCATIONS
F8400001-M2
FILE: 840000.02
SHT 1 OF 8
RC RAYMOND







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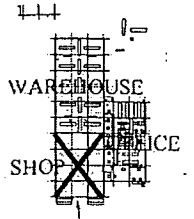

AREA PLAN

N

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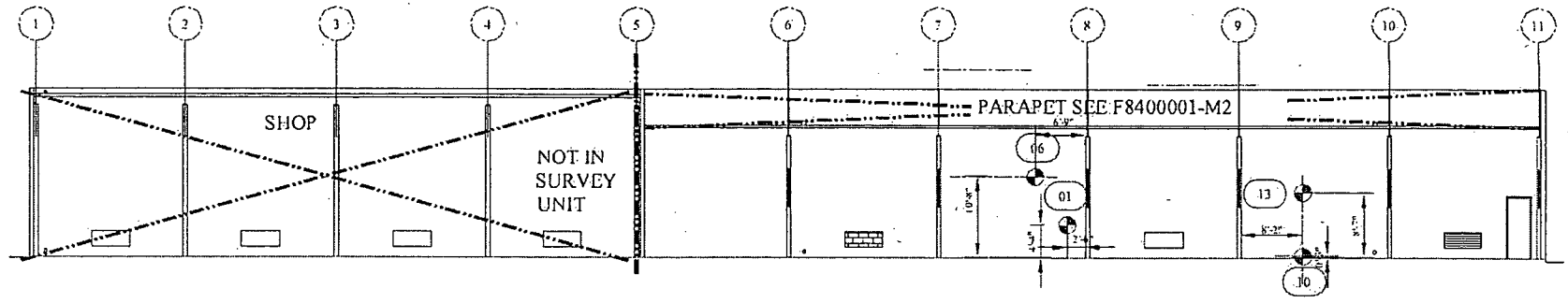
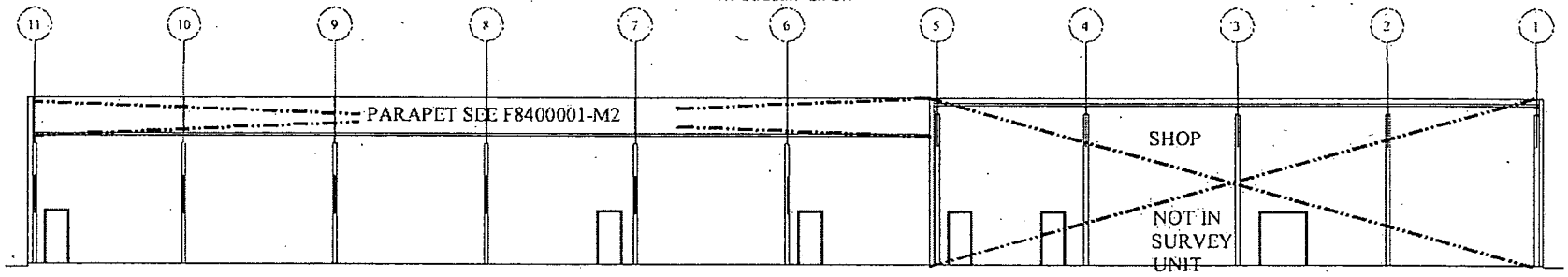
UTILITY DISTRICT

WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001–M2

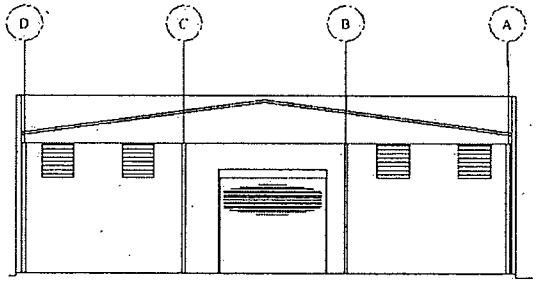
FILE: 840000.02 SHT 2 OF 8 RC RAYMOND



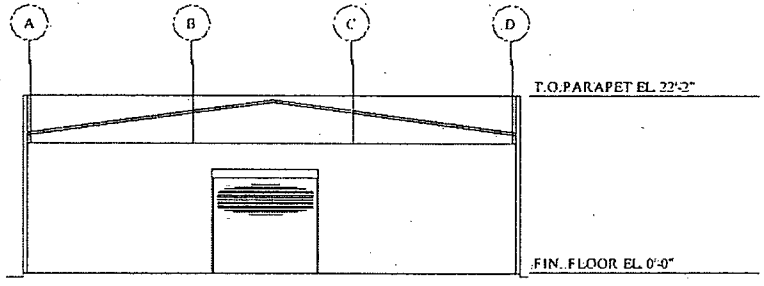
ELEVATION LOOKING WEST
AT COLUMN LINE A



AT COLUMN LINE D
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH
AT COLUMN LINE 11



ELEVATION LOOKING SOUTH
AT COLUMN LINE 5

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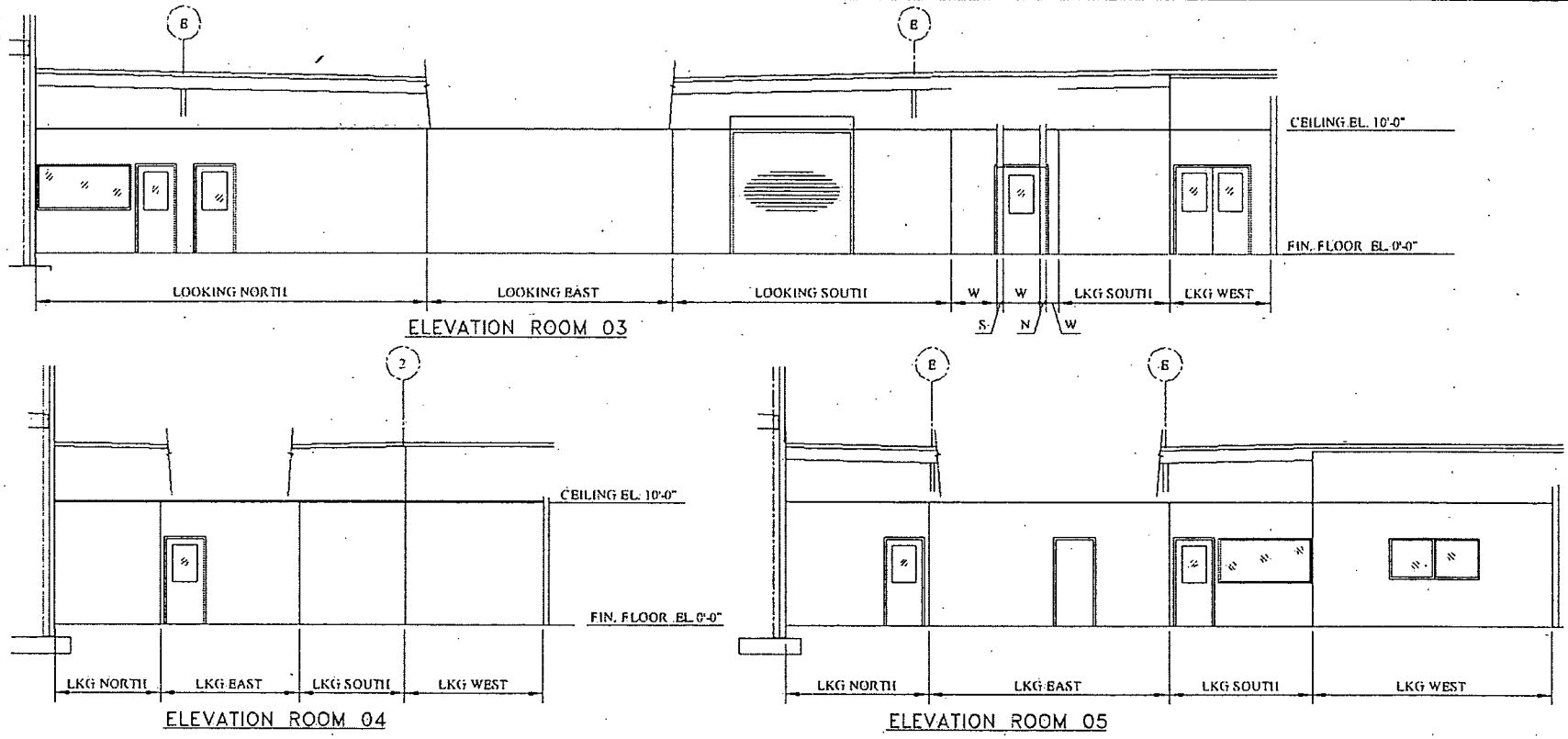
WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001–M2

FILE: 840000.02 SHT 3 OF 8 RC RAYMOND



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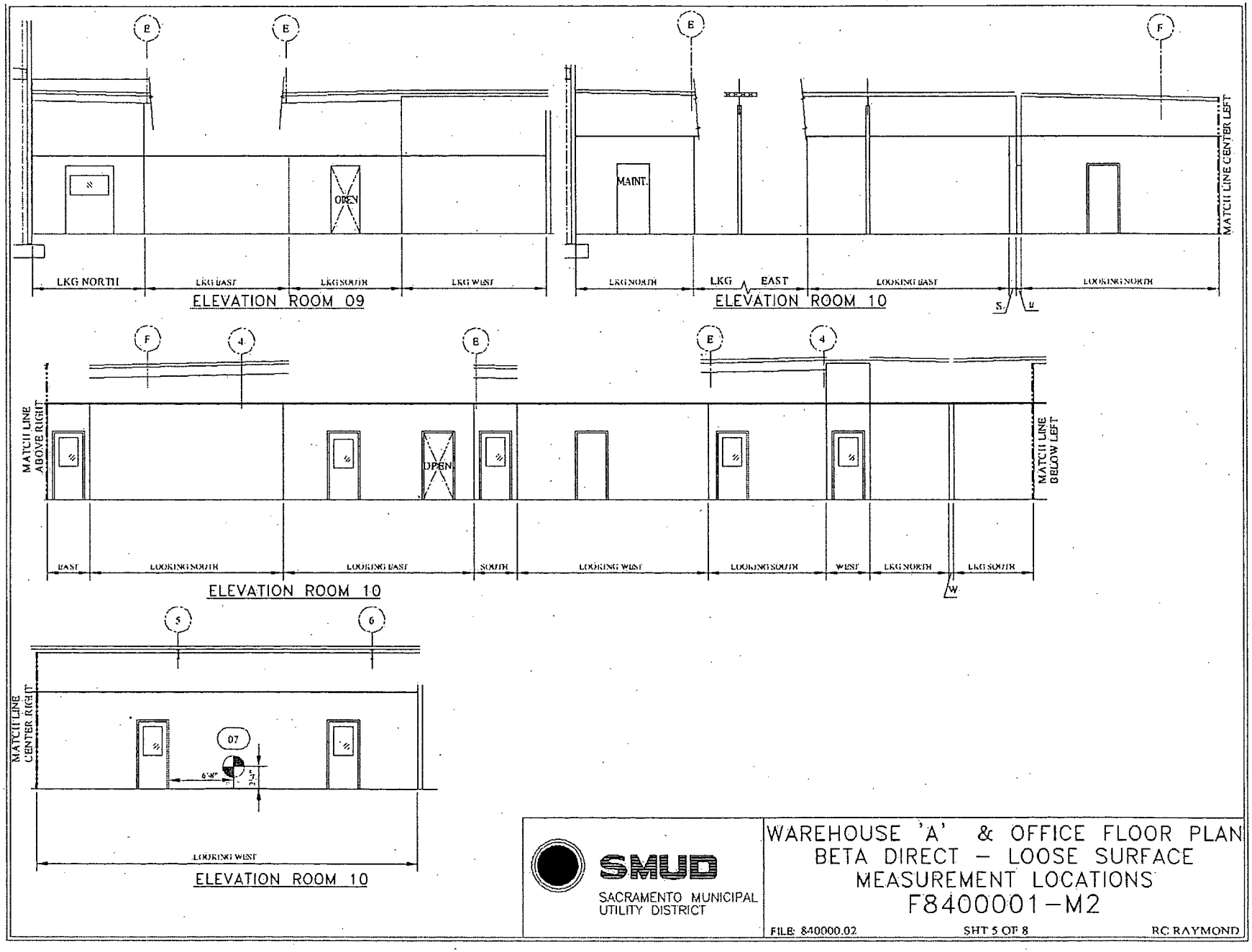
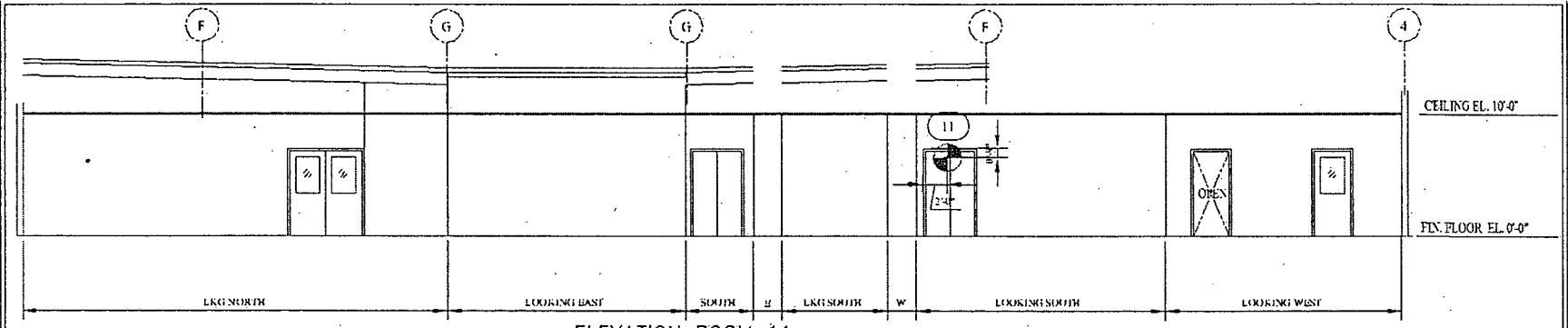
SACRAMENTO MUNICIPAL UTILITY DISTRICT

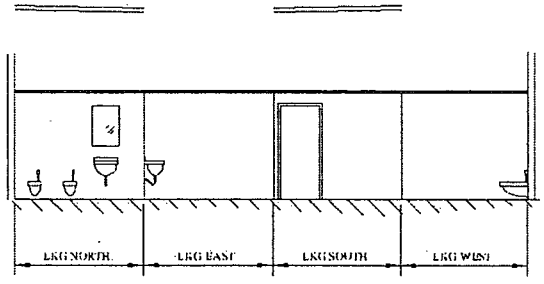
WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001-M2

FILE: 840000.02 SHT 4 OF 8 RC RAYMOND

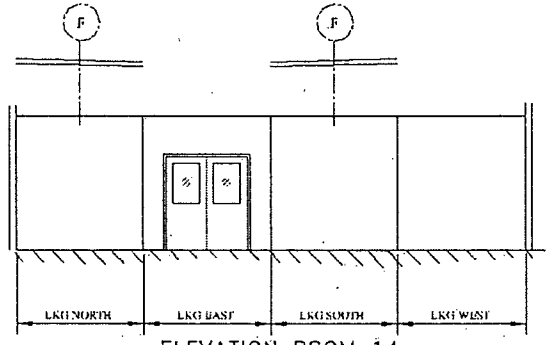

E
E
OPEN
LKG NORTH
LKG EAST
LKG SOUTH
LKG WEST
ELEVATION ROOM 09
E
F
MAINT.
MATCH LINE CENTER LEFT
LKG NORTH
LKG EAST
LOOKING EAST
LOOKING NORTH
S.
ELEVATION ROOM 10
F
4
B
E
4
MATCH LINE ABOVE RIGHT
OPEN
MATCH LINE BELOW LEFT
EAST
LOOKING SOUTH
LOOKING EAST
SOUTH
LOOKING WEST
LOOKING SOUTH
WEST
LKG NORTH
LKG SOUTH
W
ELEVATION ROOM 10
5
6
MATCH LINE CENTER RIGHT
07
6'-8"
5'-7 1/2"
LOOKING WEST
ELEVATION ROOM 10
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001-M2
FILE: 840000.02
SHT 5 OF 8
RC RAYMOND



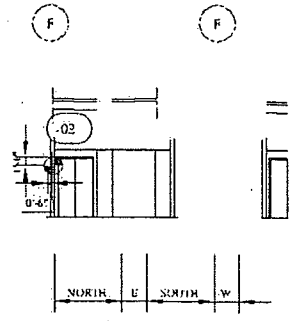
ELEVATION ROOM 11



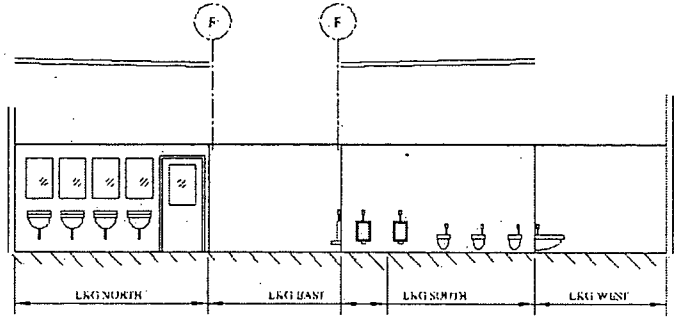
ELEVATION ROOM 13



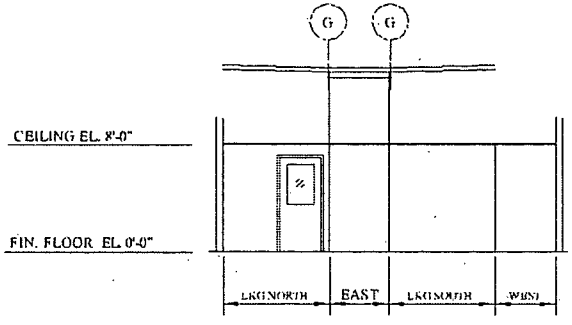
ELEVATION ROOM 14



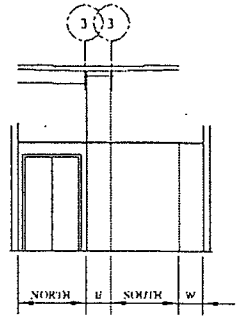
ELEVATION ROOM 22



ELEVATION ROOM 15



ELEVATION ROOM 20

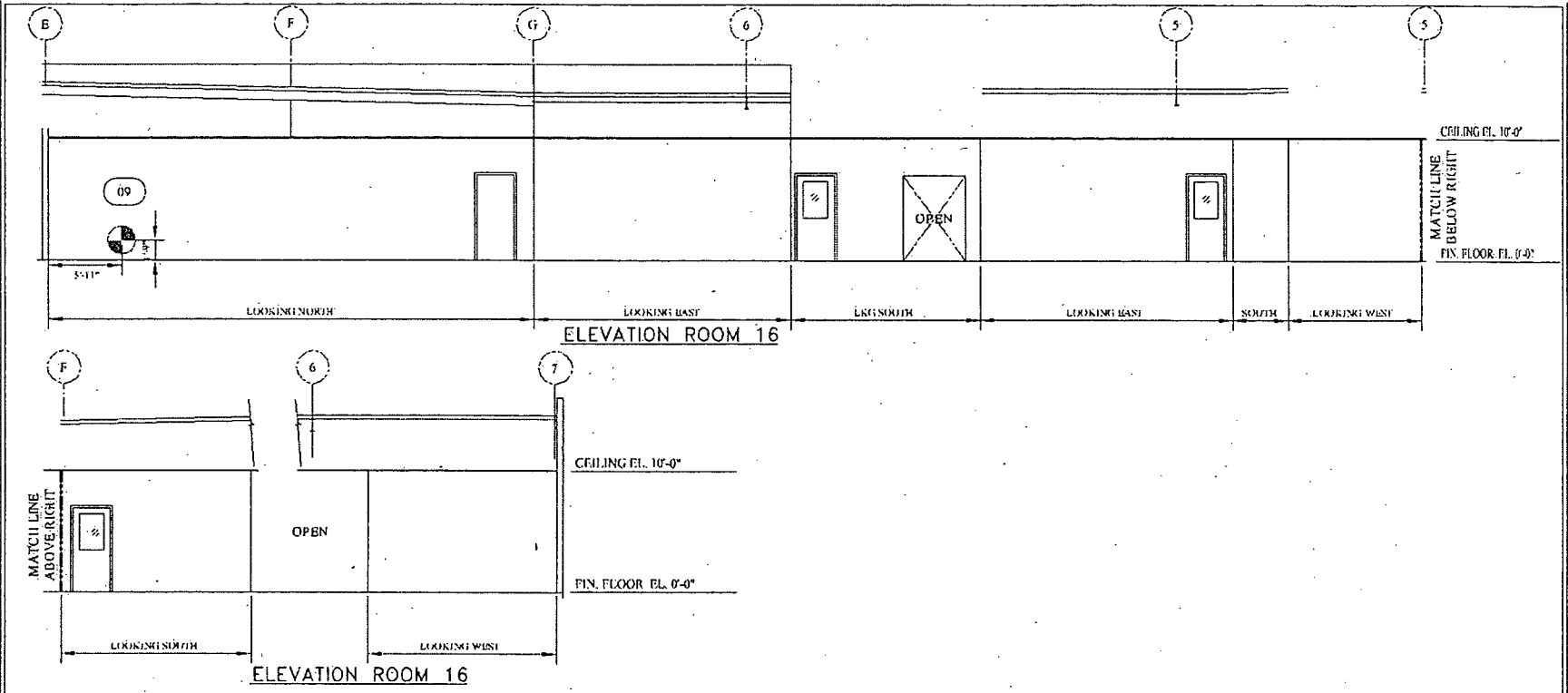


ELEVATION ROOM 23

SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001-M2

FILE: 840000.02 SHT 6 OF 8 RC RAYMOND



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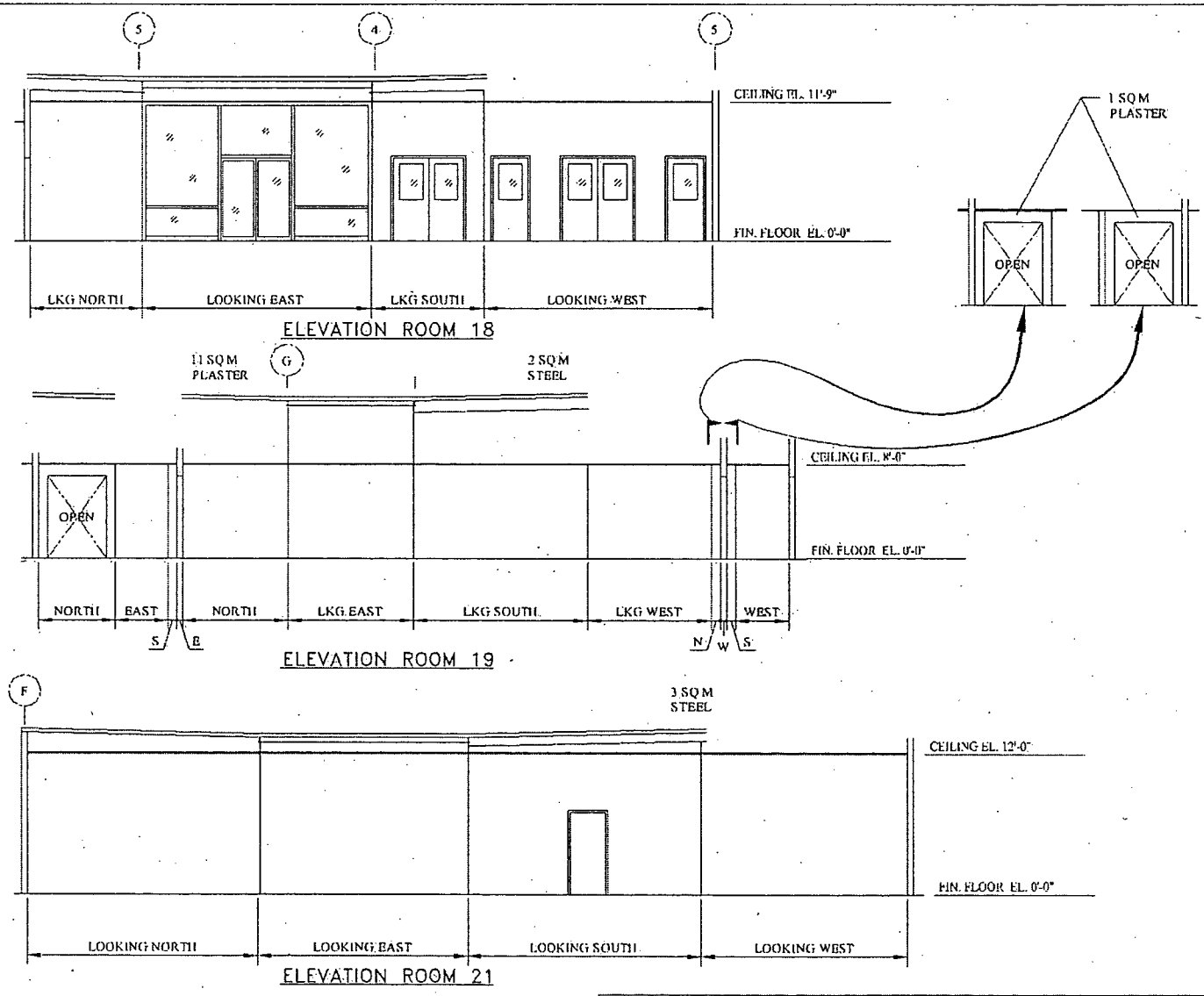
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE
MEASUREMENT LOCATIONS
F8400001–M2

FILE: 840000.02 SHT 7 OF 8 RC RAYMOND



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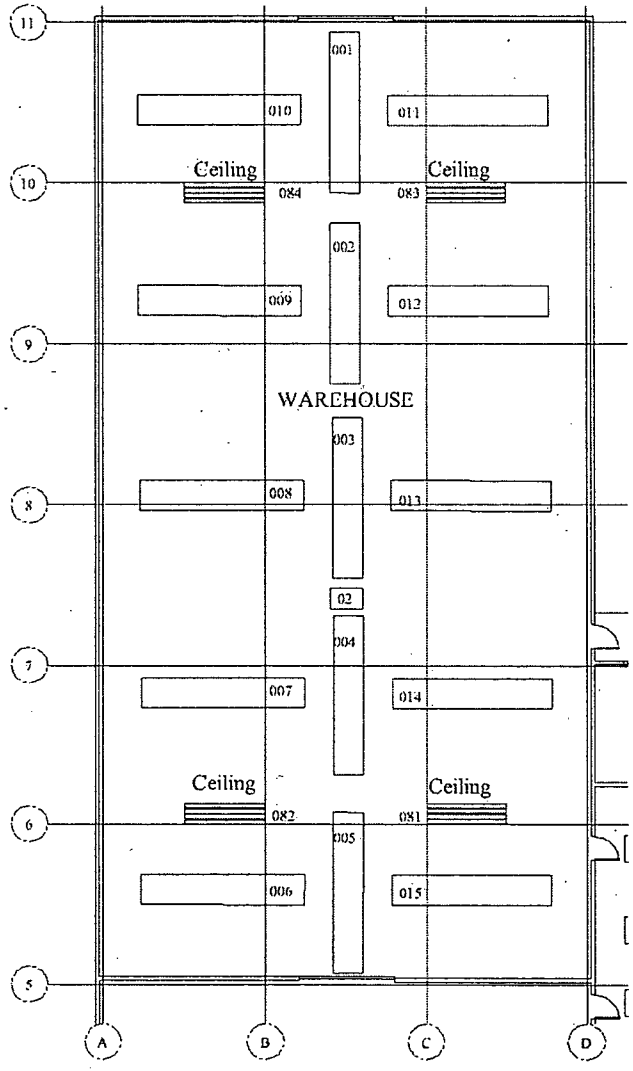
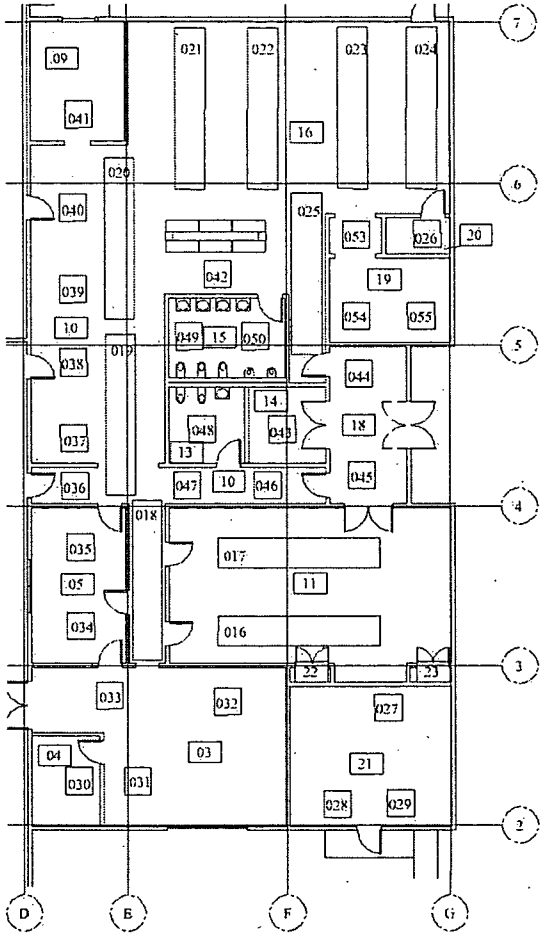
SACRAMENTO MUNICIPAL UTILITY DISTRICT

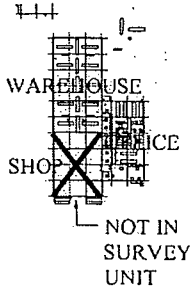
WAREHOUSE 'A' & OFFICE FLOOR PLAN
BETA DIRECT – LOOSE SURFACE MEASUREMENT LOCATIONS
F8400001–M2

FILE: 840000.02 SHT 8 OF 8 RC RAYMOND





KEY PLAN

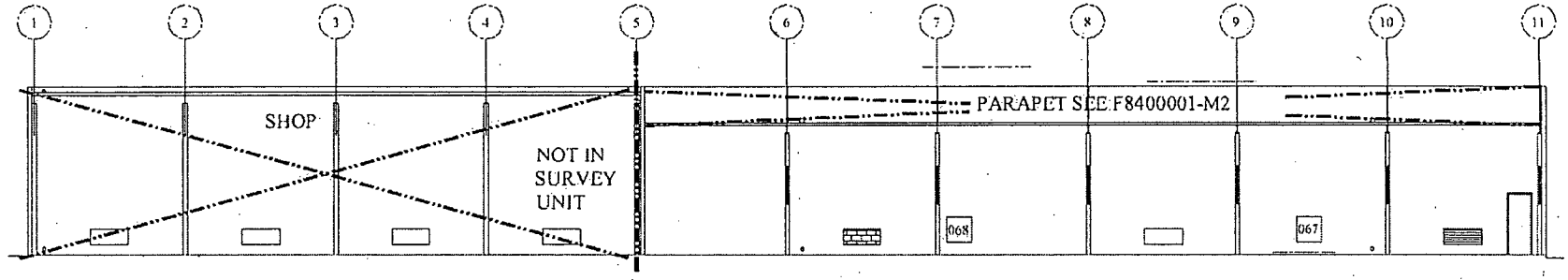


AREA PLAN

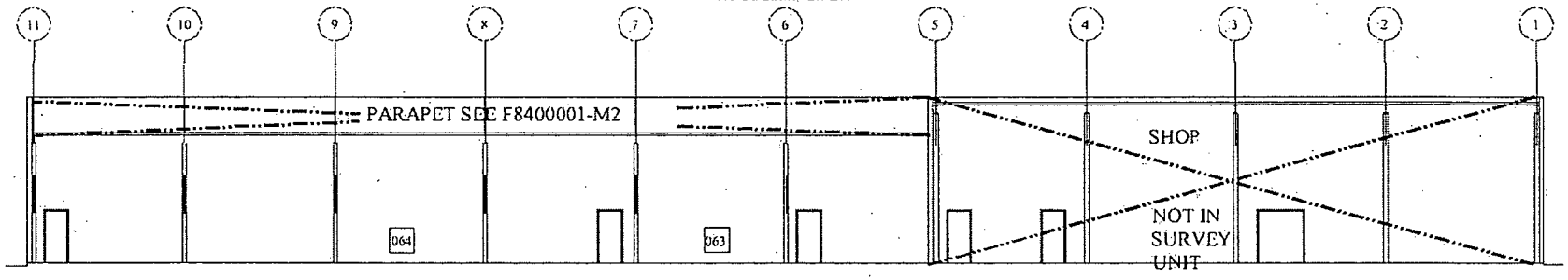
SMUD
SACRAMENTO MUNICIPAL
UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

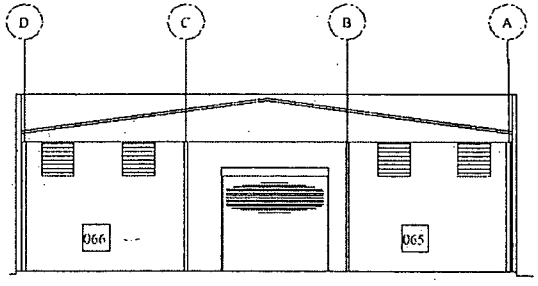
FILE: 840000.02 SHT 1 OF 7 RC RAYMOND



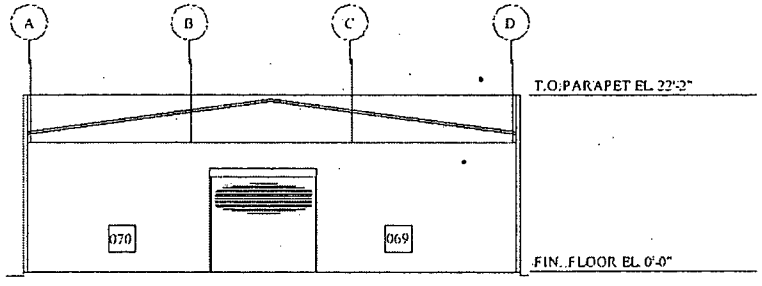
ELEVATION LOOKING WEST
AT COLUMN LINE A



AT COLUMN LINE D
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH
AT COLUMN LINE 11



ELEVATION LOOKING SOUTH
AT COLUMN LINE 5

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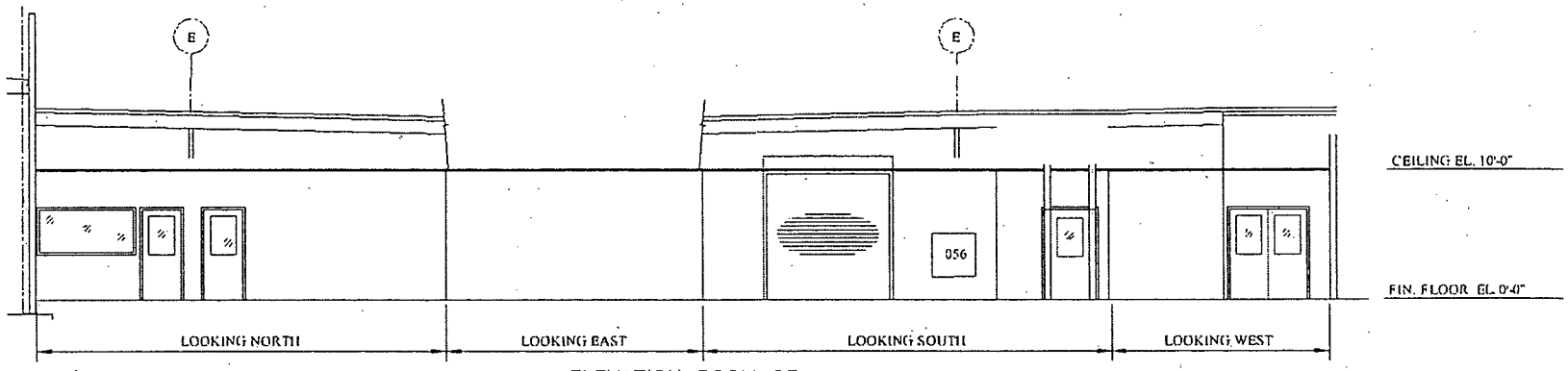
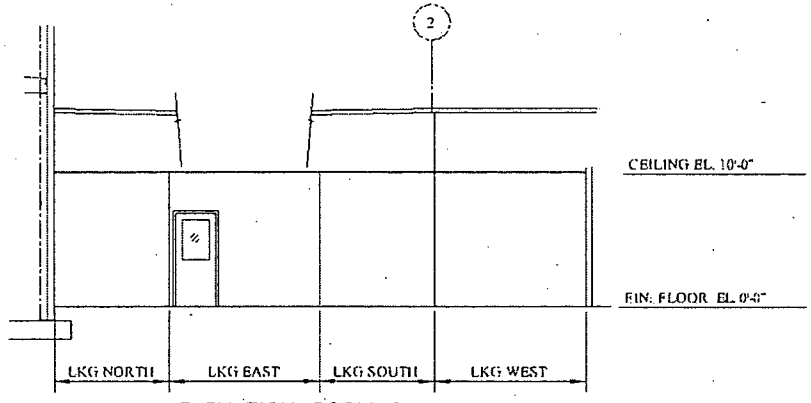
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

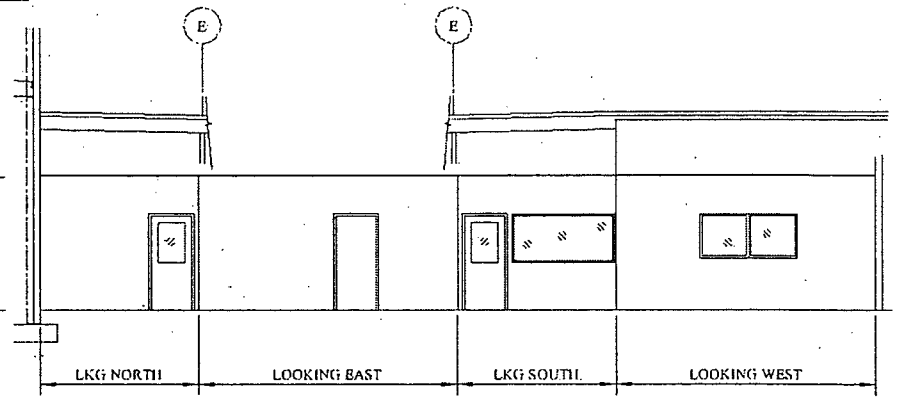
FILE: 840000.02 SHT 2 OF 7 RC RAYMOND



ELEVATION ROOM 03



ELEVATION ROOM 04



ELEVATION ROOM 05

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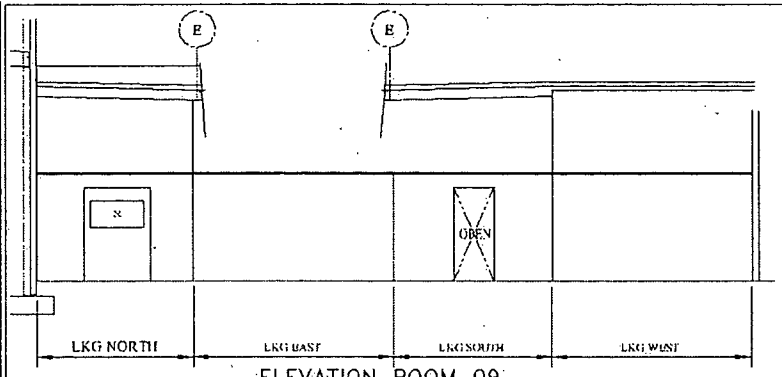
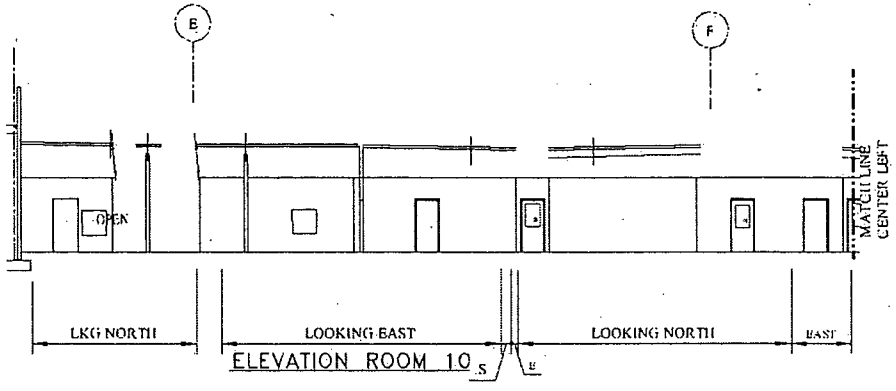
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

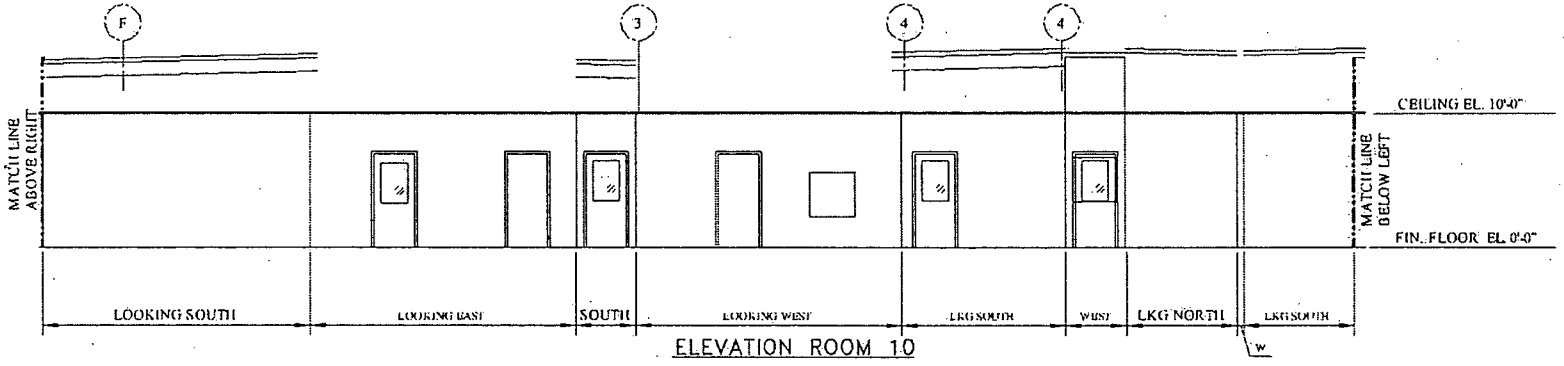
FILE: 840000.02 SHT 3 OF 7 RC RAYMOND



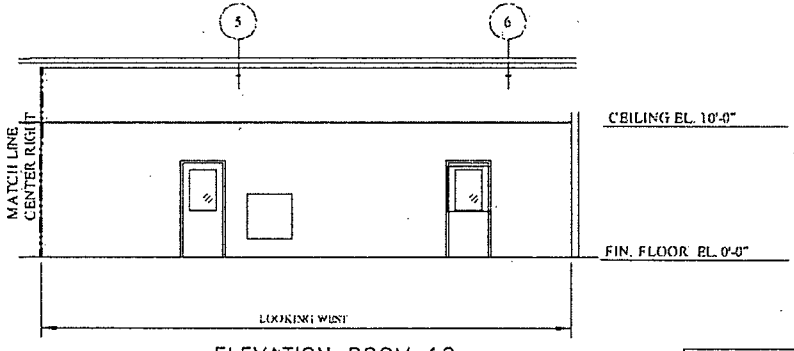
ELEVATION ROOM 09



ELEVATION ROOM 10



ELEVATION ROOM 10



ELEVATION ROOM 10

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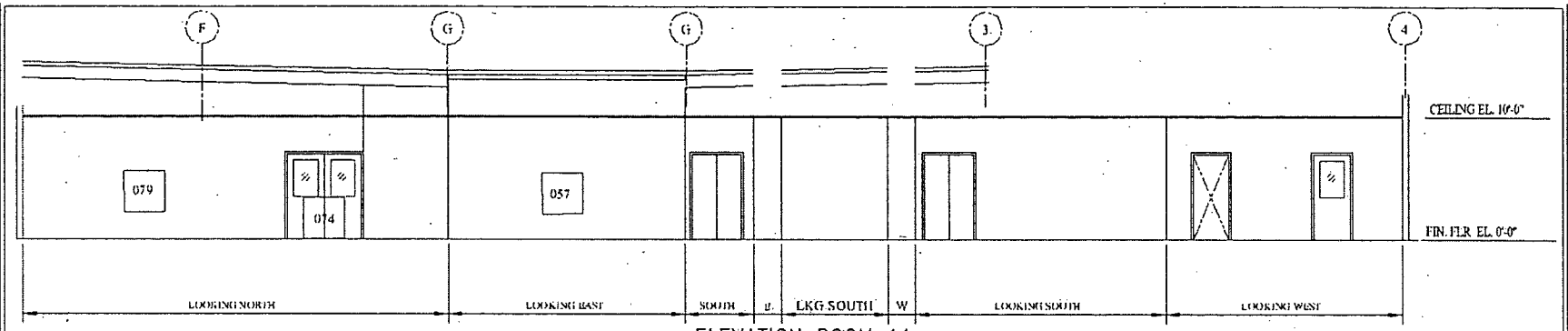
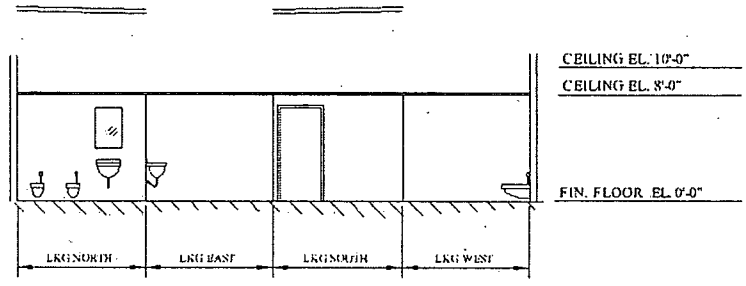
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

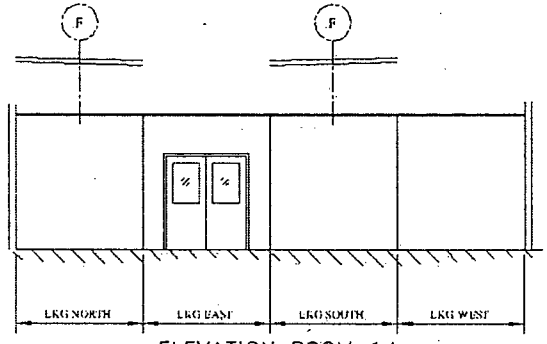
FILE: 840000.02 SHT 4 OF 7 RC RAYMOND



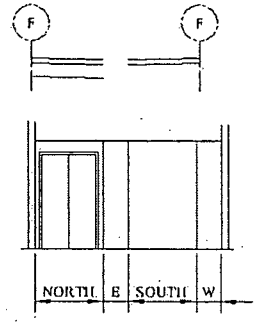
ELEVATION ROOM 11



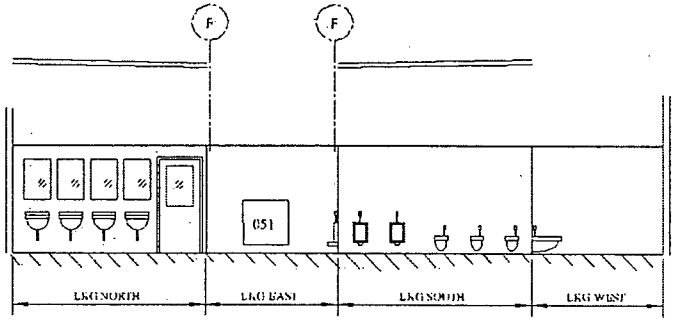
ELEVATION ROOM 13



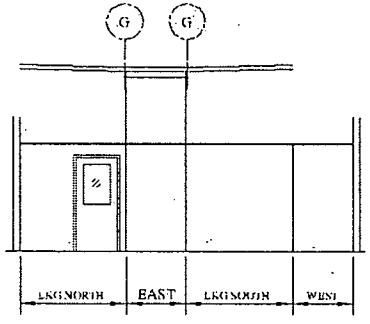
ELEVATION ROOM 14



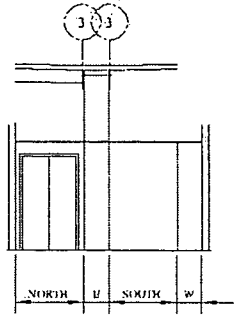
ELEVATION ROOM 22



ELEVATION ROOM 15



ELEVATION ROOM 20

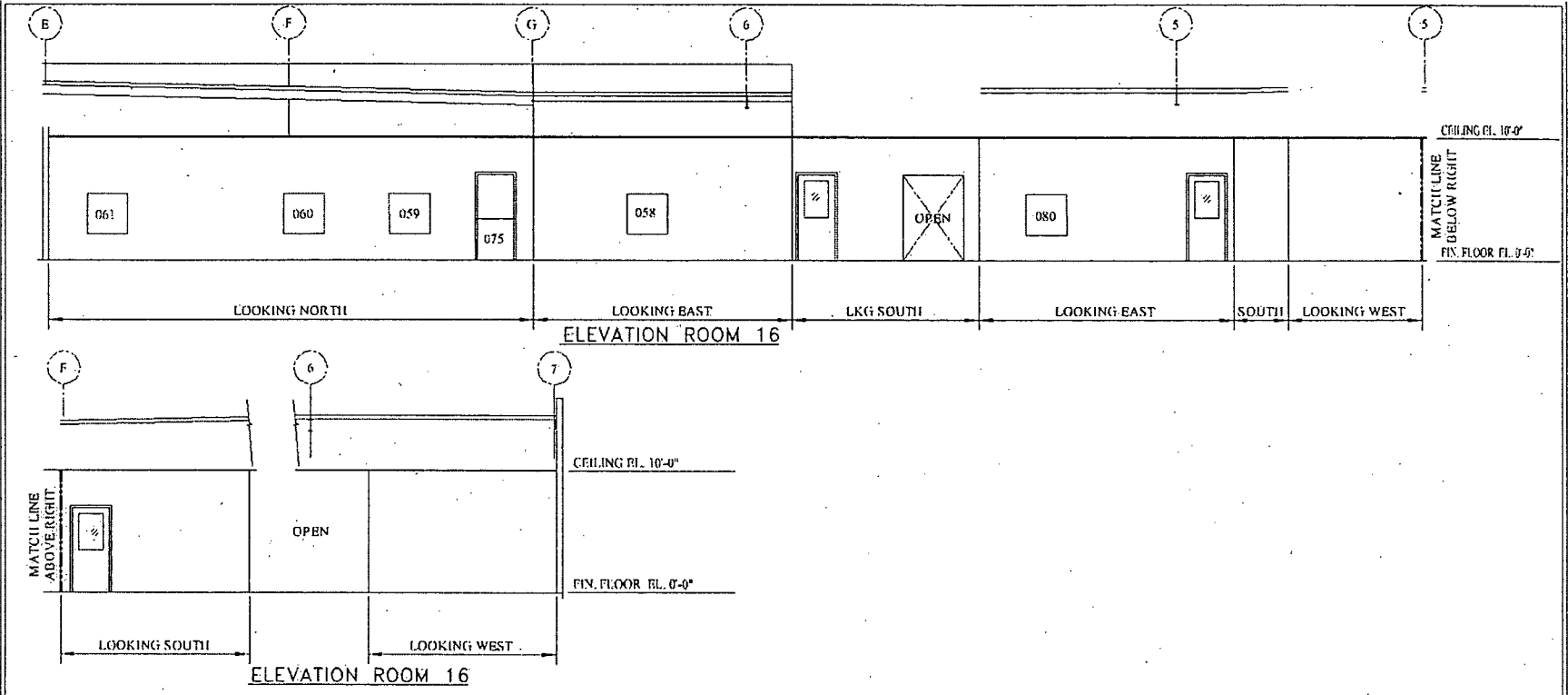


ELEVATION ROOM 23

SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT

WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

FILE: 840000.02 SHT 5 OF 7 RC RAYMOND



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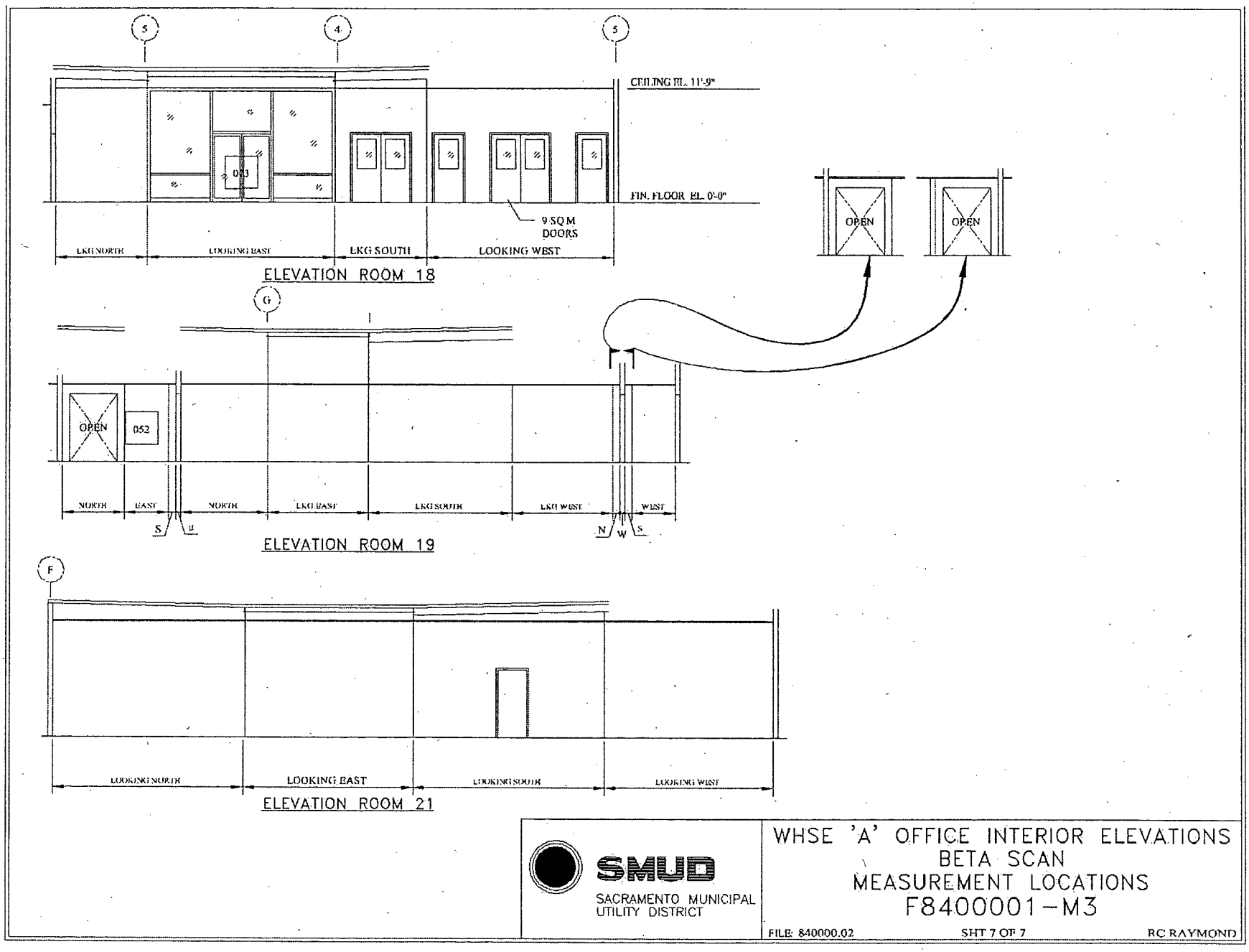
WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3

FILE: 840000.02 SHT 6 OF 7 RC RAYMOND


5
4
5
CEILING HT. 11'-9"
FIN. FLOOR EL. 0'-0"
023
9 SQ M DOORS
LKG NORTH
LOOKING EAST
LKG SOUTH
LOOKING WEST
ELEVATION ROOM 18
OPEN
OPEN
G
OPEN
052
NORTH
EAST
NORTH
LKG EAST
LKG SOUTH
LKG WEST
WEST
S
E
N
W
S
ELEVATION ROOM 19
F
LOOKING NORTH
LOOKING EAST
LOOKING SOUTH
LOOKING WEST
ELEVATION ROOM 21
SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
WHSE 'A' OFFICE INTERIOR ELEVATIONS
BETA SCAN
MEASUREMENT LOCATIONS
F8400001-M3
FILE: 840000.02
SHT 7 OF 7
RC RAYMOND

Attachment 2

Instrumentation

October 31, 2007

Survey Unit F8400001

Table 2-1. Survey Unit Instrumentation

Instrument Model; Serial No.	Detector Model; Serial No.	MDC Static (dpm/100 cm²)	MDC Scan (dpm/100 cm²)
M2350; 149802	43-68B; 148453	433	1033
M2350; 149802	43-68B; 148453	256[1]	611[1]
M2350; 142499	43-37; 148502	198	616
Tennelec; 0401171	N/A	5 dpm α, 11 dpm β	N/A

[1] Metal

Table 2-2. Investigation Criteria and DCGL

Parameter	Value (dpm/100 cm²)
Investigation Criteria - Direct	21500
Investigation Criteria – Scan	43000
$DCGL_W$	43000
$DCGL_{EMC}$	N/A

Attachment 3

Investigation

October 31, 2007

Survey Unit F8400001

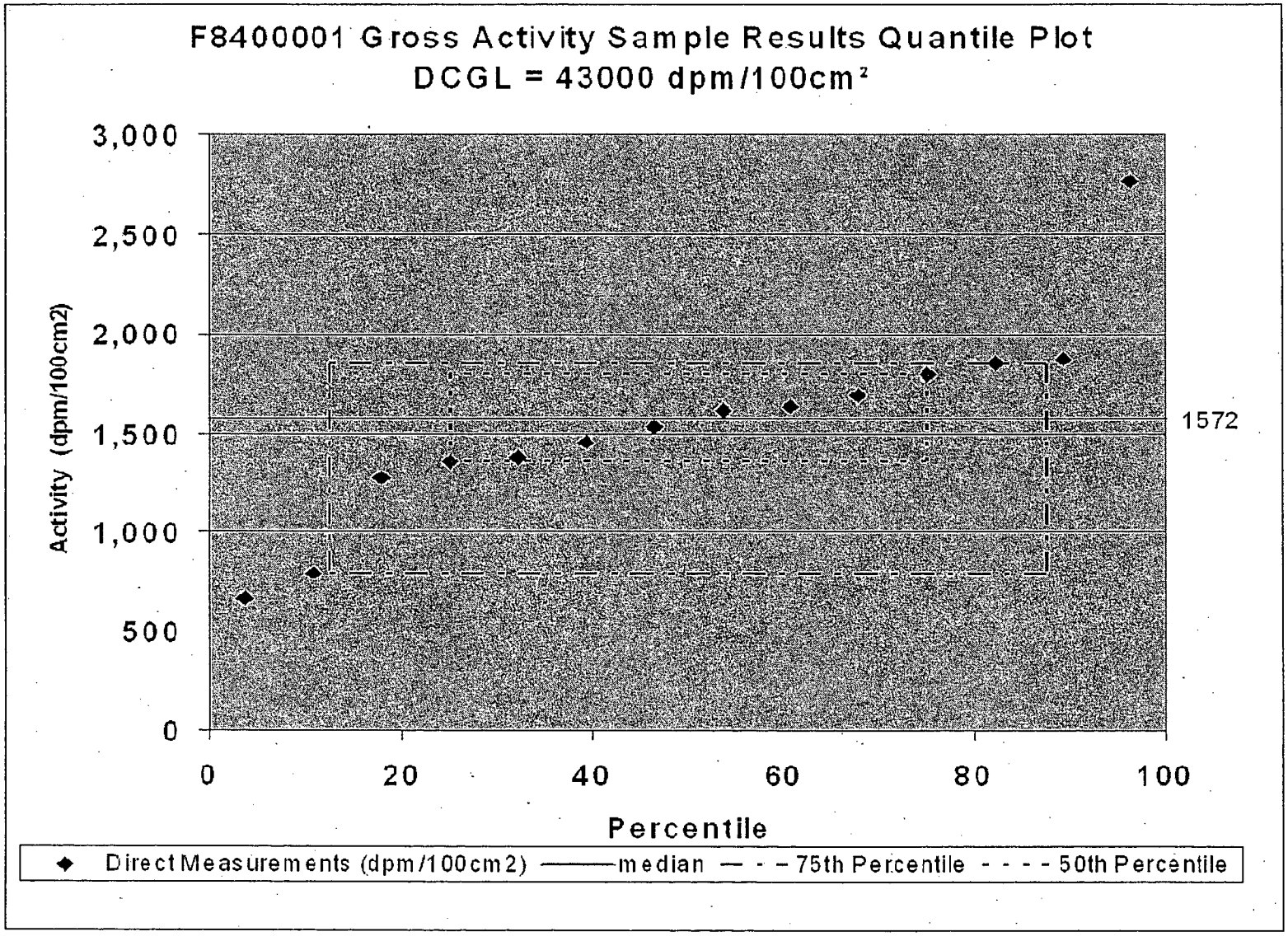
(none required)

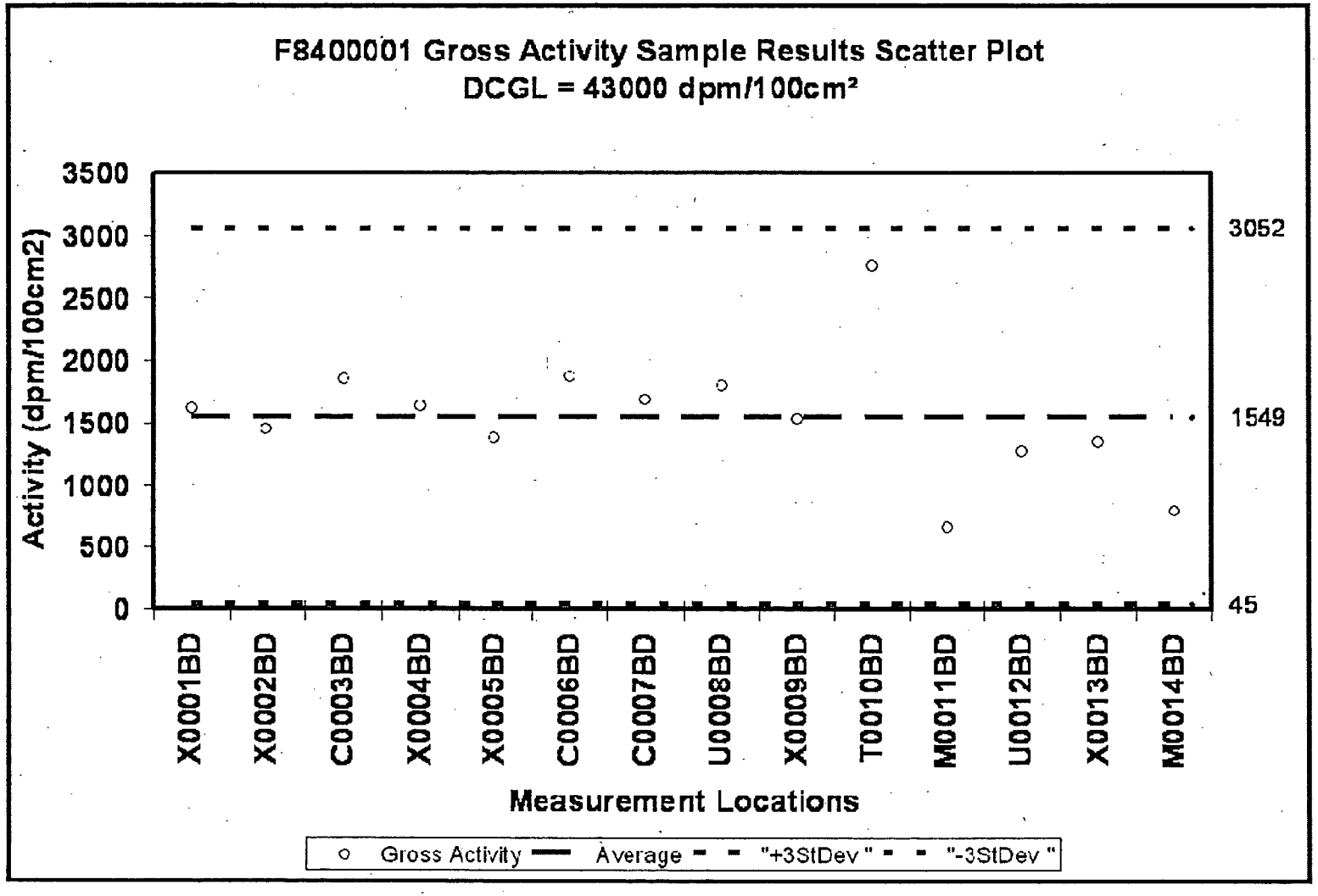
Attachment 4

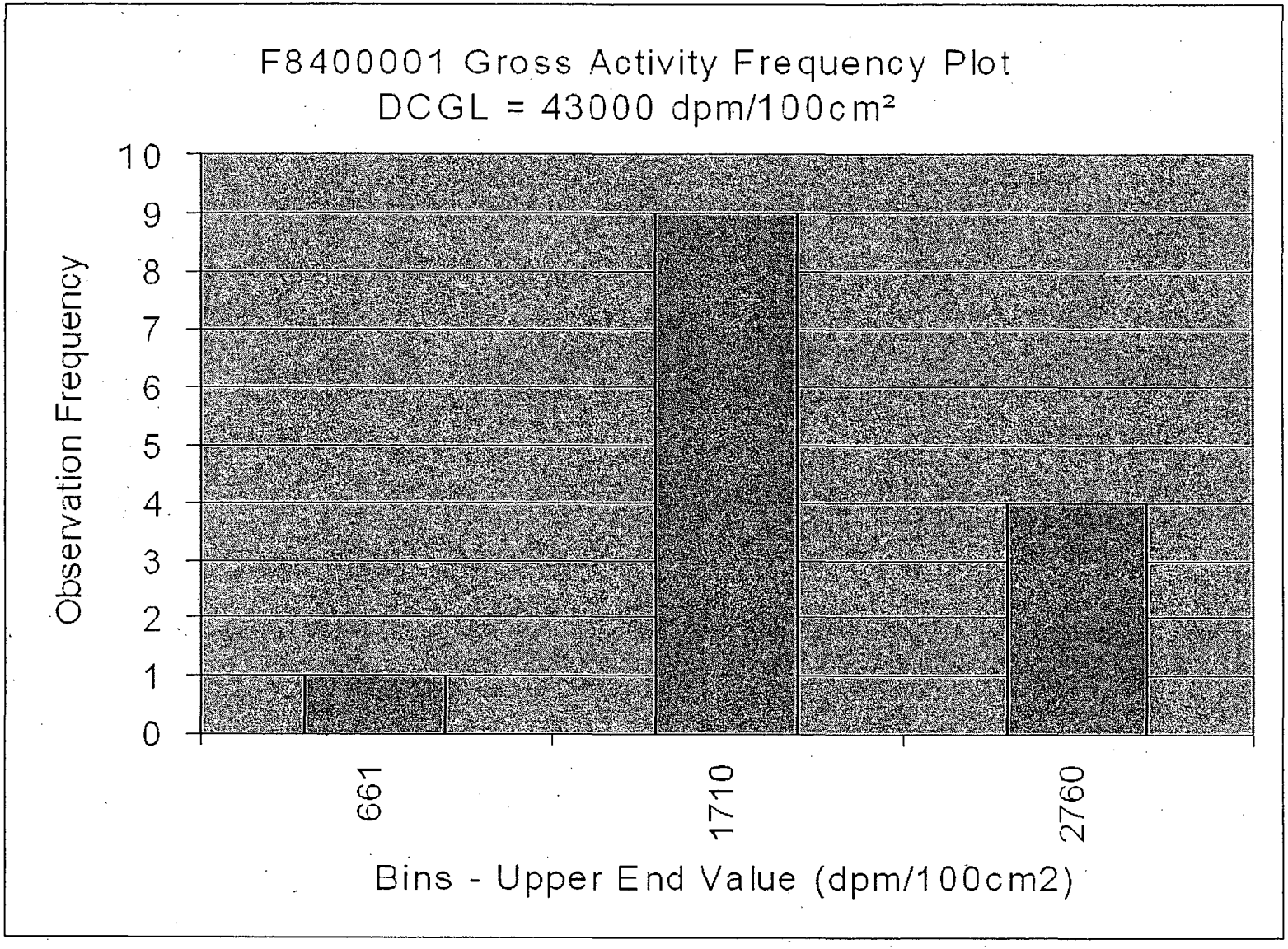
Data Assessment

October 31, 2007

Survey Unit F8400001


F8400001 Gross Activity Sample Results Quantile Plot
DCGL = 43000 dpm/100cm²
Activity (dpm/100cm2)
3,000
2,500
2,000
1,500
1,000
500
0
1572
0
20
40
60
80
100
Percentile
Direct Measurements (dpm/100cm2)
median
75th Percentile
50th Percentile


F8400001 Gross Activity Sample Results Scatter Plot
DCGL = 43000 dpm/100cm²
Activity (dpm/100cm2)
3500
3000
2500
2000
1500
1000
500
0
3052
1549
45
X0001BD
X0002BD
C0003BD
X0004BD
X0005BD
C0006BD
C0007BD
U0008BD
X0009BD
T0010BD
M0011BD
U0012BD
X0013BD
M0014BD
Measurement Locations
Gross Activity
Average
"+3StDev"
"-3StDev"


F8400001 Gross Activity Frequency Plot
DCGL = 43000 dpm/100cm²
Observation Frequency
10
9
8
7
6
5
4
3
2
1
0
661
1710
2760
Bins - Upper End Value (dpm/100cm2)