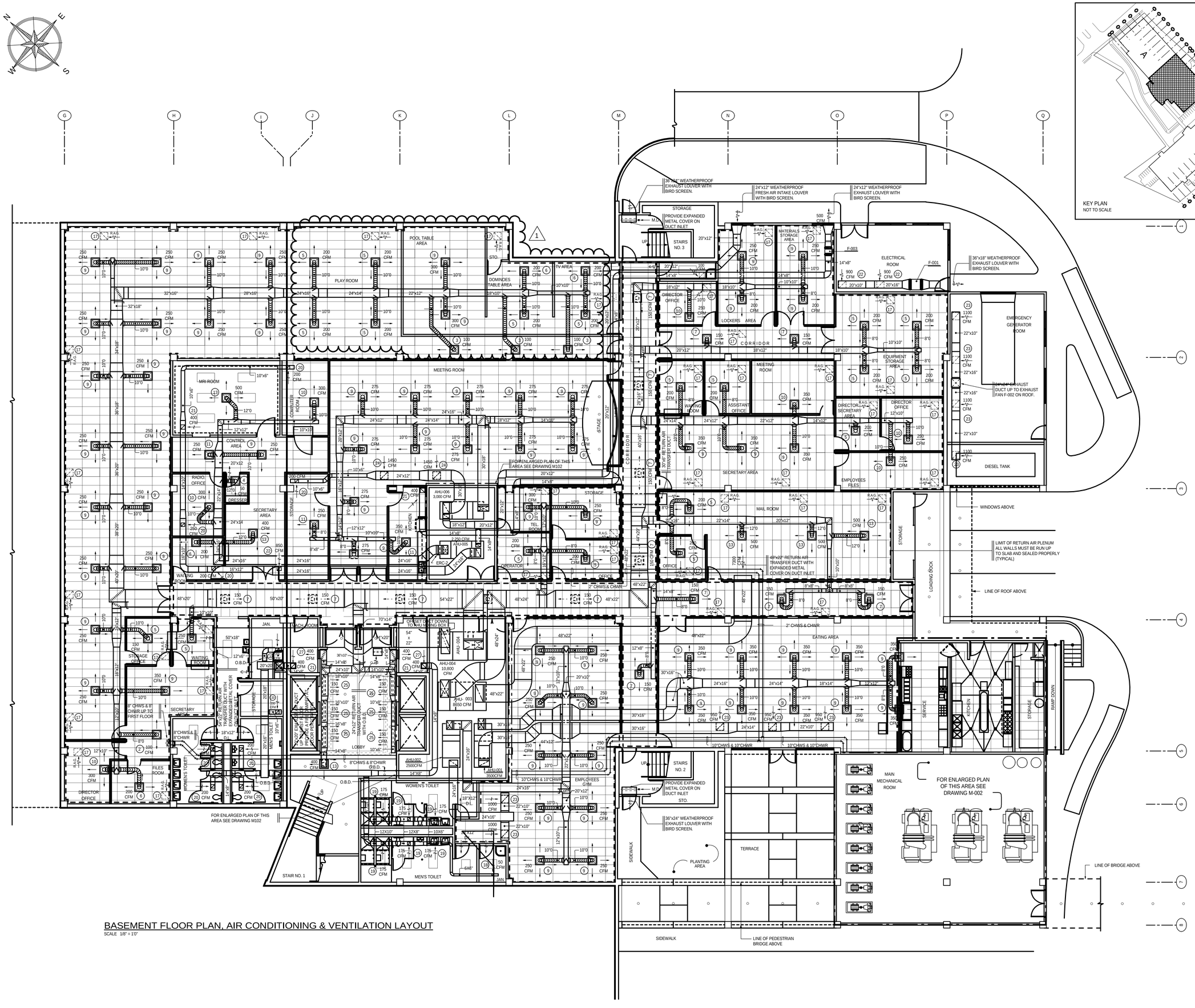

BASEMENT FLOOR PLAN, AIR CONDITIONING & VENTILATION LAYOUT

SCALE 1/8" = 1'0"

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R.
00919

TEL. (787) 758-1044 FAX (787) 759-8017

JORGE LEDON WEBSTER
CONSULTING ENGINEER
#88 PEPE DIAZ STREET,
HATO REY, P.R. 00918
TEL. (787) 767-1351
LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
BASEMENT FLOOR PLAN,
AIR CONDITIONING &
VENTILATION LAYOUT

SCALE: 1/8"=1'-0"

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ARCHITECT IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.

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NO.	REVISION	BY	DATE
1	GENERAL REVISION	M.M.M.	7 / 2 / 98

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : 08-03-97
Drawn By : A. SEDA (LBB)

BM-001

File Name : CFSE-M01

Dwg. History:

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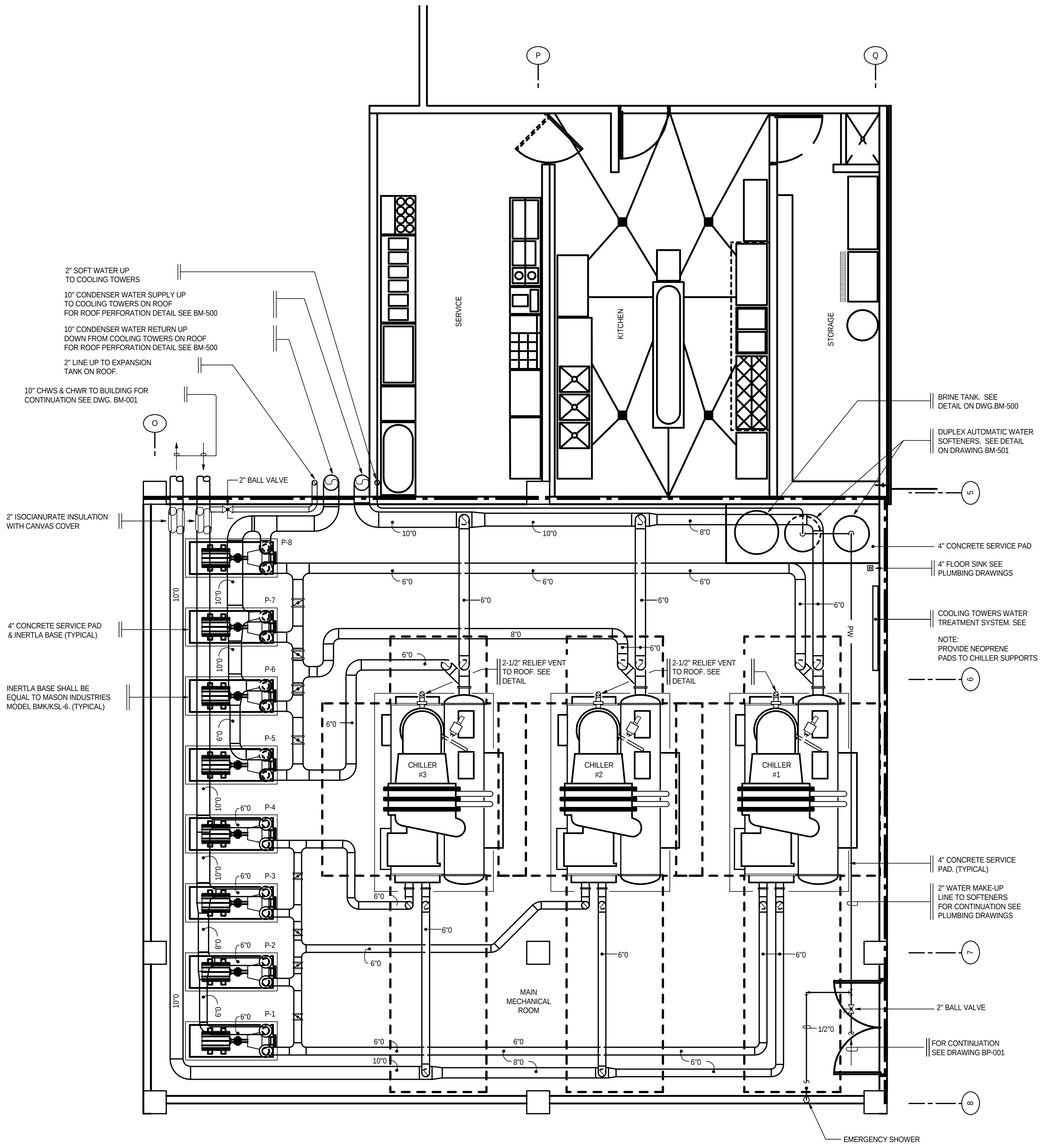
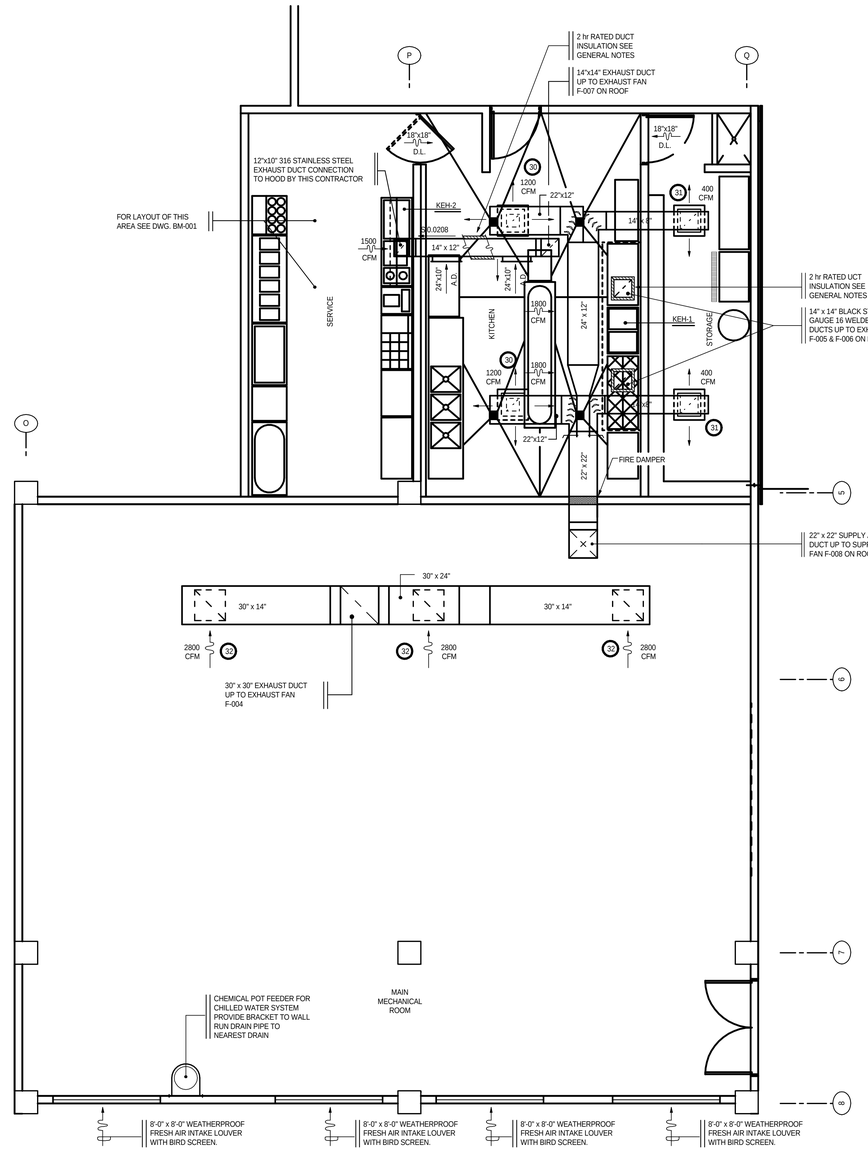


MECHANICAL ROOM ENLARGED PLAN, AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/4"=1'0"



MECHANICAL ROOM ENLARGED PLAN, AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/4"=1'0"

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
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00961-3100

305 CESAR ROMAN ST.
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CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

MECHANICAL ROOM ENLARGED PLAN, AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/4"=1'0"

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NO.	REVISION	BY	DATE
1			

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M.M.M. / Z.D.A.

BM-002

File Name : CFSE-M02

Dwg. History:

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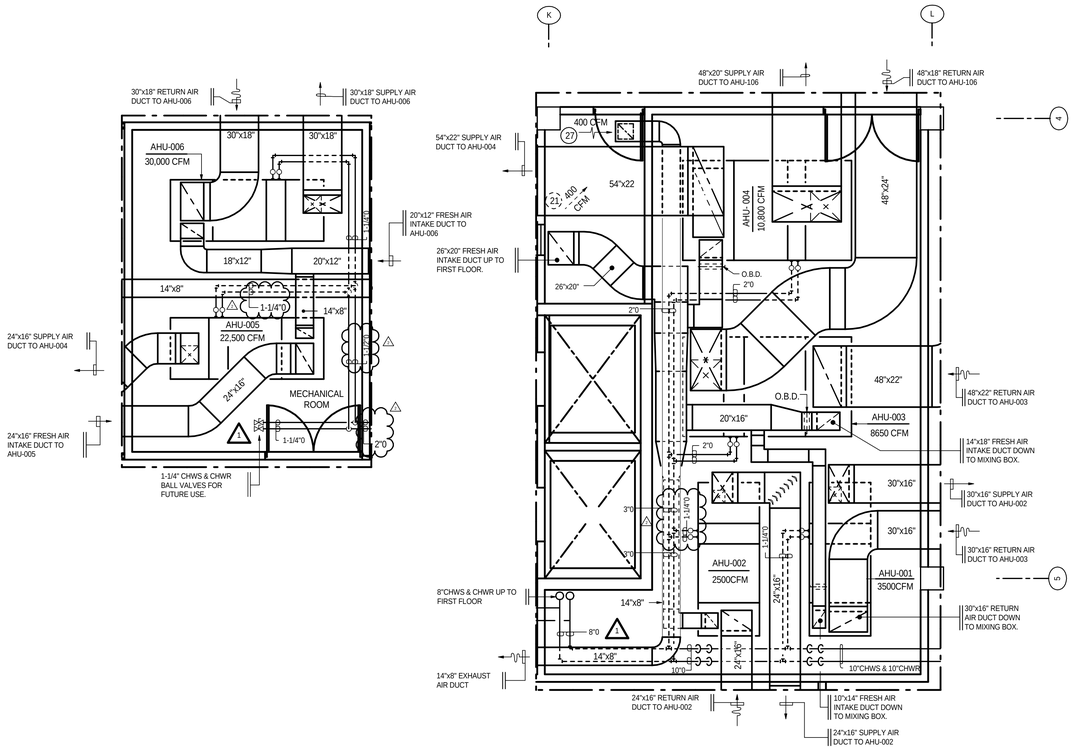
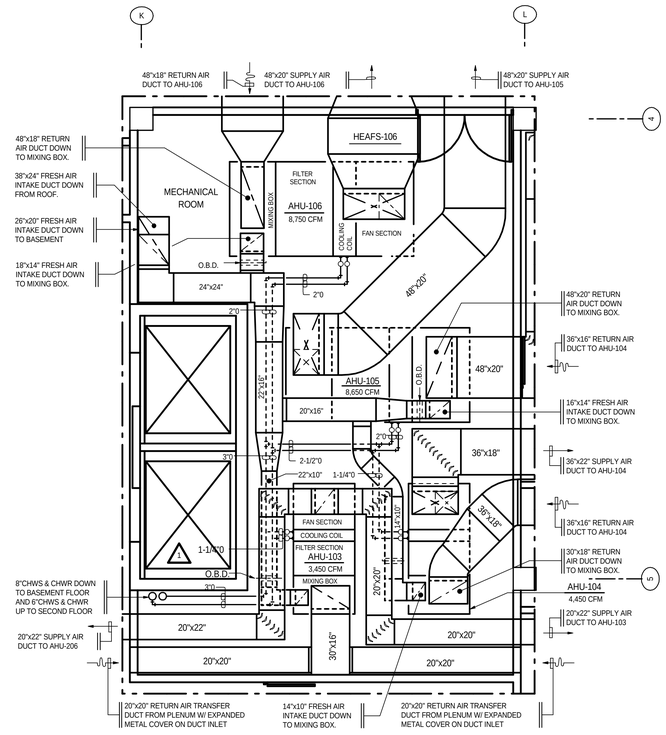


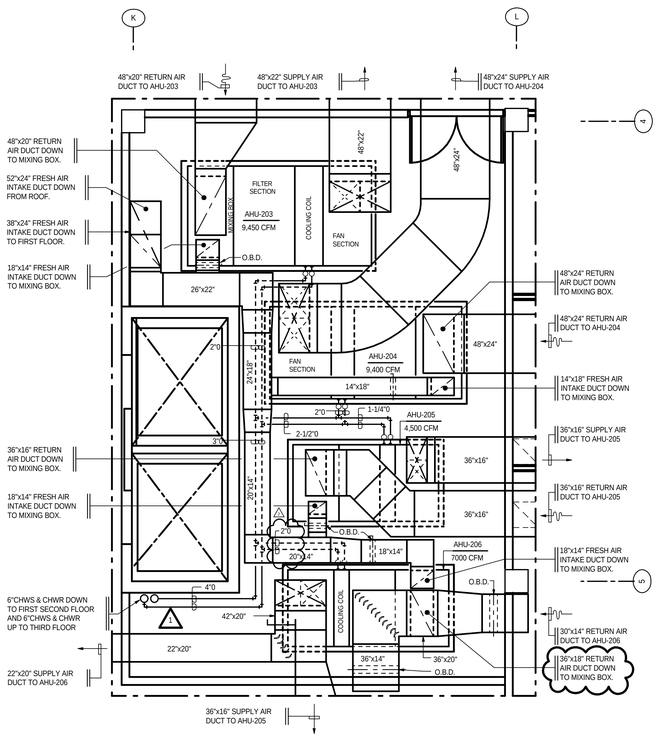
BASEMENT FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



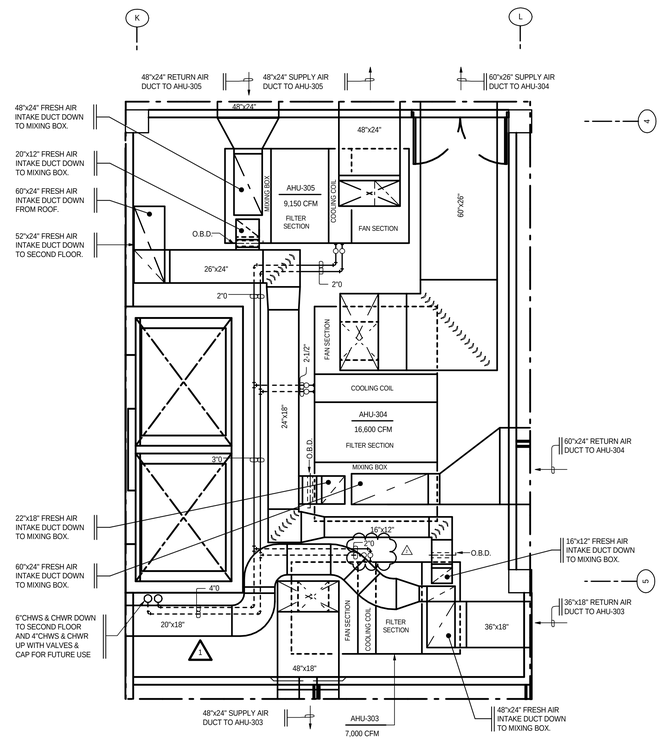
FIRST FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



SECOND FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



THIRD FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R.
00919

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JORGE LEDON WEBSTER
CONSULTING ENGINEER
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LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

MECHANICAL ROOMS ENLARGED FLOOR PLAN, AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/4"=1'-0"

IMPORTANT NOTE FOR CONTRACTOR

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NO.	REVISION	BY	DATE
1	CHW SIZES PIPING REVISED	A.S.R.	9/21/1998
2	CHW PIPING REVISED	J.L.W.	11 / 21 / 95

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES

Structural :
D. DEL NERO

Plumbing :
J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
MAY-01-02

Drawn By :
PACO INFANTE

File Name :
FSE-M003

BM-003

Dwg. History:

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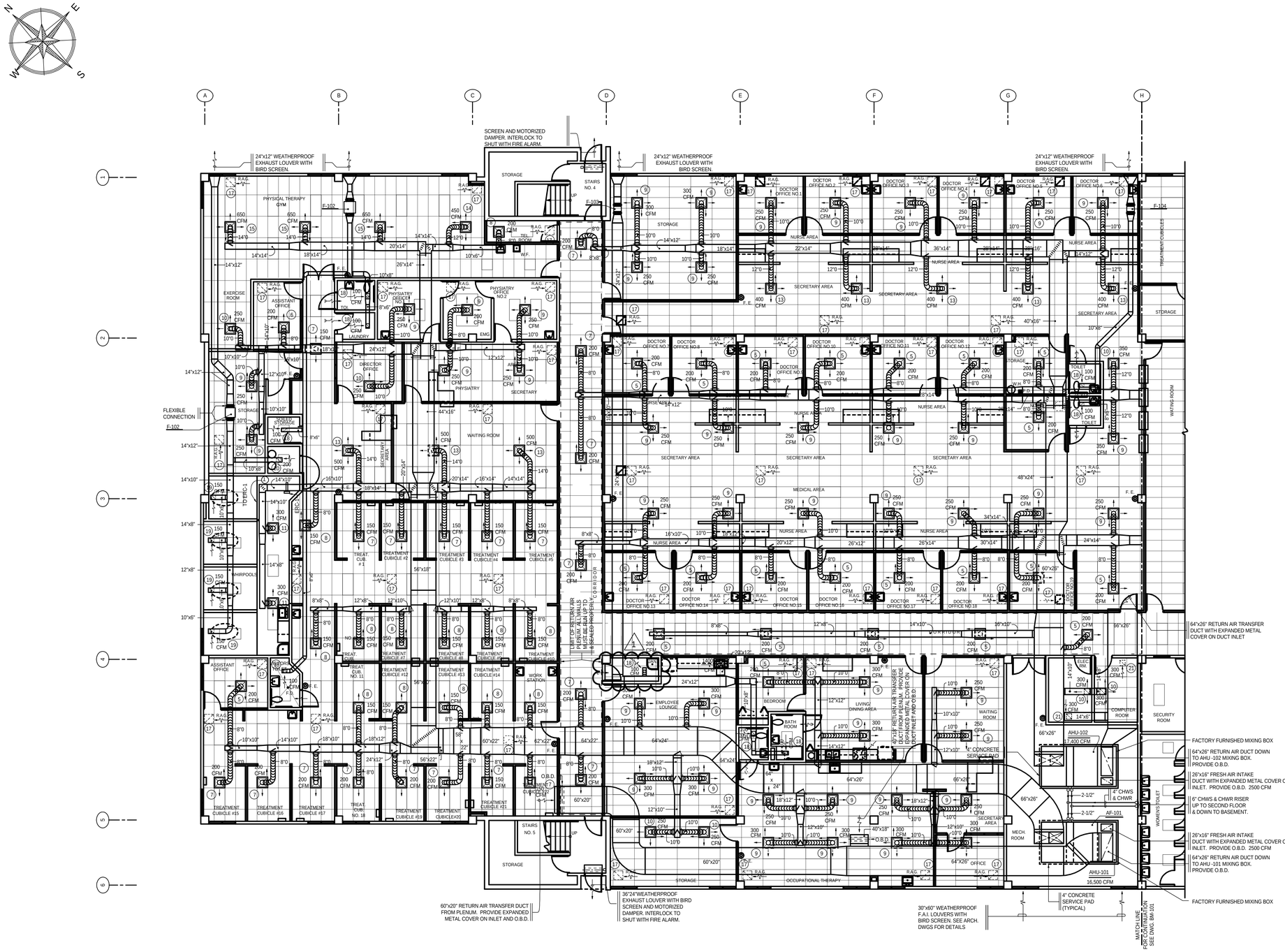

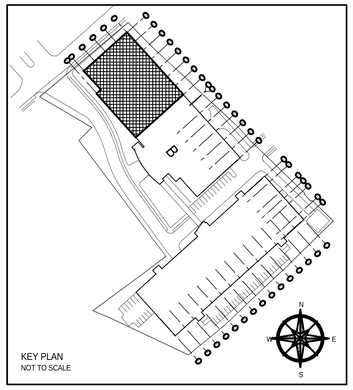

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

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HATO REY, P.R
00919

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LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
FIRST FLOOR PLAN, (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT
SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE
1	GENERAL REVISION	M.M.M.	7 / 2 / 98

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M. MERCADO
File Name : CFSE-M10.fcw

Dwg. History:

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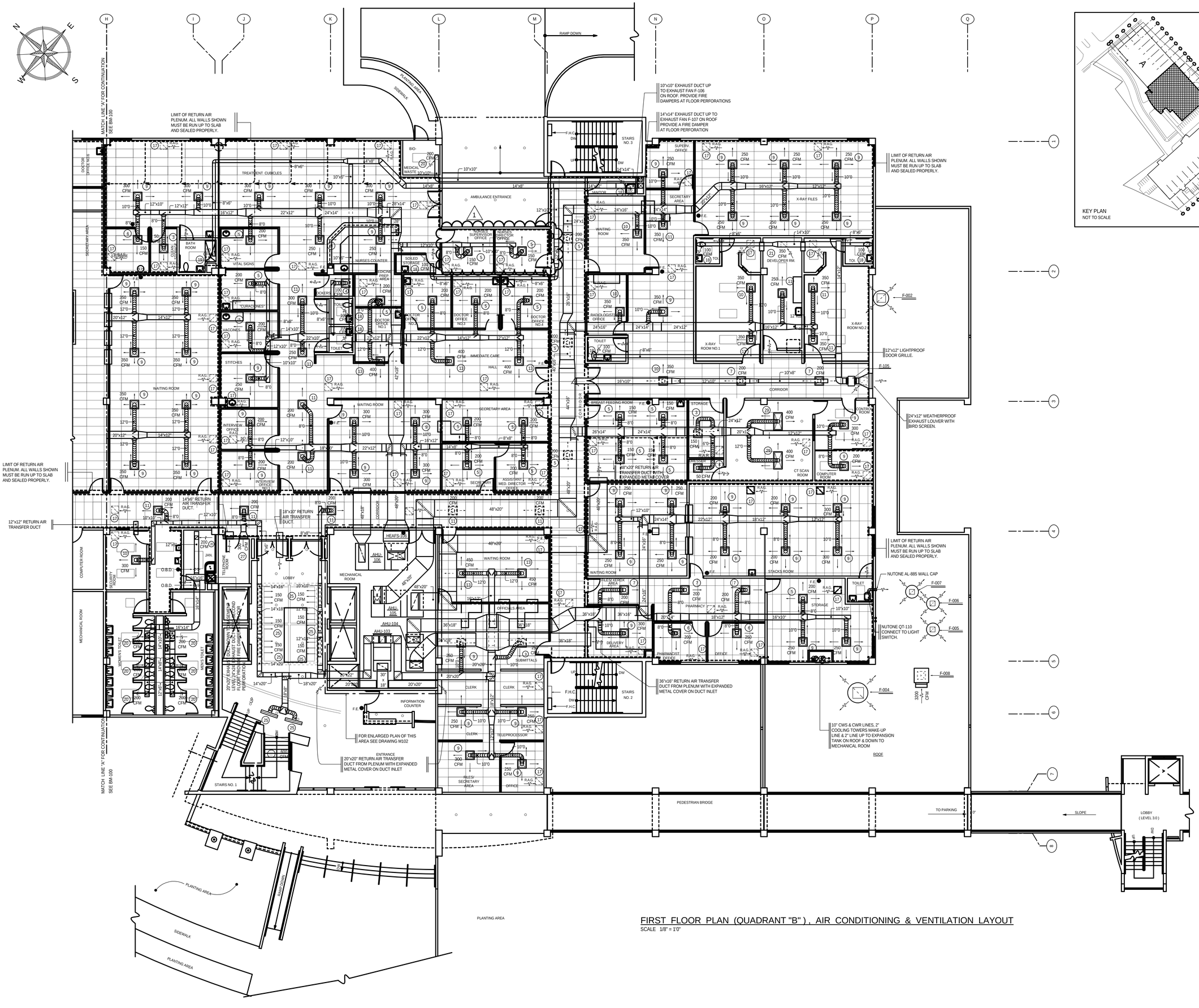
Of .

BM-100

FIRST FLOOR PLAN (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

2,M,S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R.
00919

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JORGE LEDON WEBSTER
CONSULTING ENGINEER
ABI PEPE DIAZ STREET,
HATO REY, P.R. 00918
TEL. (787) 767-1351
LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
FIRST FLOOR PLAN
(QUADRANT "B").
AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE
1	GENERAL REVISION	M.M.M.	7 / 2 / 98

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site :
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. :
95020
Plot Date :
MAY-01-02
Drawn By :
A.S. / P.I. / Z.D.A.
File Name :
FSE-M10.fcw

BM-101

Dwg. History:

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Of
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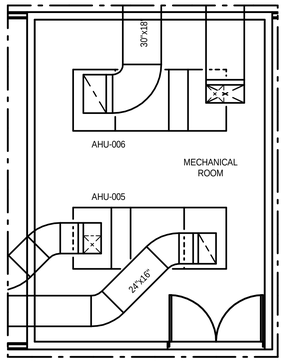
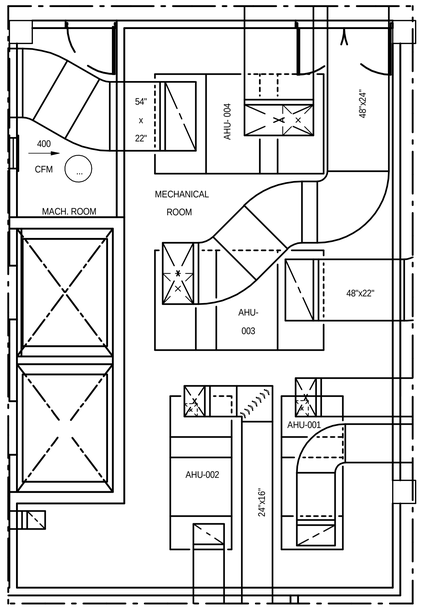
FIRST FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT
SCALE 1/8" = 1'0"



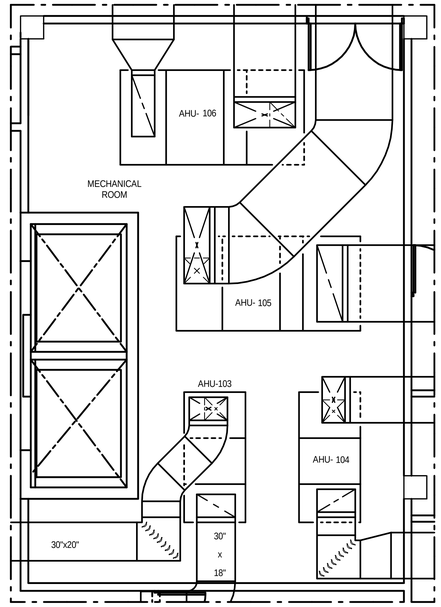
BASEMENT FLOOR PLAN (QUADRANT "B"),
AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



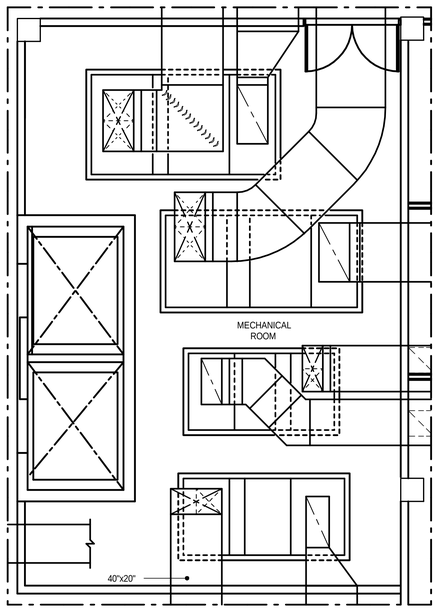
BASEMENT FLOOR PLAN (QUADRANT "B"),
AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



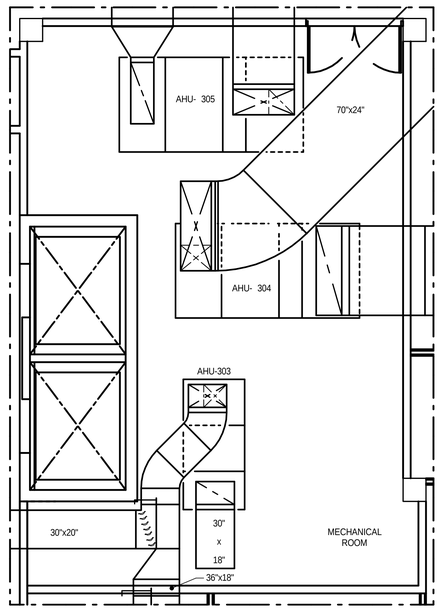
FIRST FLOOR PLAN (QUADRANT "B"),
AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



SECOND FLOOR PLAN (QUADRANT "B"),
AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"



THIRD FLOOR PLAN (QUADRANT "B"),
AIR CONDITIONING & VENT. LAYOUT

SCALE 1/4" = 1'0"

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY, P.R.
00919

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FAX (787) 759-8017

JORGE LEDON WEBSTER
CONSULTING
ENGINEER
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TEL. (787) 767-1351
LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

MECHANICAL ROOMS
ENLARGED
FLOOR PLAN,
AIR CONDITIONING &
VENTILATION LAYOUT

SCALE: 1/4"=1'-0"

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NO.	REVISION	BY	DATE
1			

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES

Structural :
D. DEL NERO

Plumbing :
J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
MAY-01-02

Drawn By :
PACO INFANTE

File Name :
CFSE-M102

Dwg. History:

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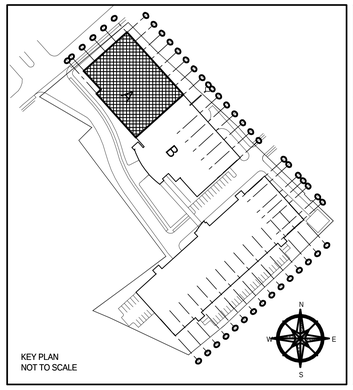
BM-102





KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

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CONSULTING
ENGINEER
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HATO REY, P.R. 00918
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LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
SECOND FLOOR PLAN
(QUADRANT "A"),
AIR CONDITIONING &
VENTILATION LAYOUT
SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

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Site:
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. :
95020
Plot Date :
MAY-01-02
Drawn By :
M. MERCADO
File Name :
CFSE-M20

BM-200

Dwg. History:

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LIMIT OF RETURN AIR PLENUM ALL WALLS SHOWN MUST BE RUN UP TO SLAB AND SEALED PROPERLY.

LIMIT OF RETURN AIR PLENUM ALL WALLS SHOWN MUST BE RUN UP TO SLAB AND SEALED PROPERLY.

LIMIT OF RETURN AIR PLENUM ALL WALLS SHOWN MUST BE RUN UP TO SLAB AND SEALED PROPERLY.

64"x26" RETURN AIR TRANSFER DUCT WITH EXPANDED METAL COVER ON DUCT INLET 15000 CFM

FACTORY FURNISHED MIXING BOX

64"x26" RETURN AIR DUCT DOWN TO AHU -102 MIXING BOX. PROVIDE O.B.D.

26"x16" FRESH AIR INTAKE DUCT WITH EXPANDED METAL COVER ON INLET. PROVIDE O.B.D. 2800 CFM

6" CHWS & CHWR RISER UP TO THIRD FLOOR & DOWN TO GROUND FLOOR. FOR FLOOR PERFORATION DETAILS SEE M-500

26"x16" FRESH AIR INTAKE DUCT WITH EXPANDED METAL COVER ON INLET. PROVIDE O.B.D. 2550 CFM

64"x26" RETURN AIR DUCT DOWN TO AHU -101 MIXING BOX. PROVIDE O.B.D.

FACTORY FURNISHED MIXING BOX

40"x18" RETURN AIR TRANSFER DUCT FROM PLENUM. PROVIDE EXPANDED METAL COVER ON DUCT INLET AND O.B.D.

60"x20" RETURN AIR TRANSFER DUCT FROM PLENUM. PROVIDE EXPANDED METAL COVER ON INLET AND O.B.D.

60"x60" WEATHERPROOF F.A.I. LOUVERS WITH BIRD SCREEN. SEE ARCH. DWGS FOR DETAILS

4" CONCRETE SERVICE PAD

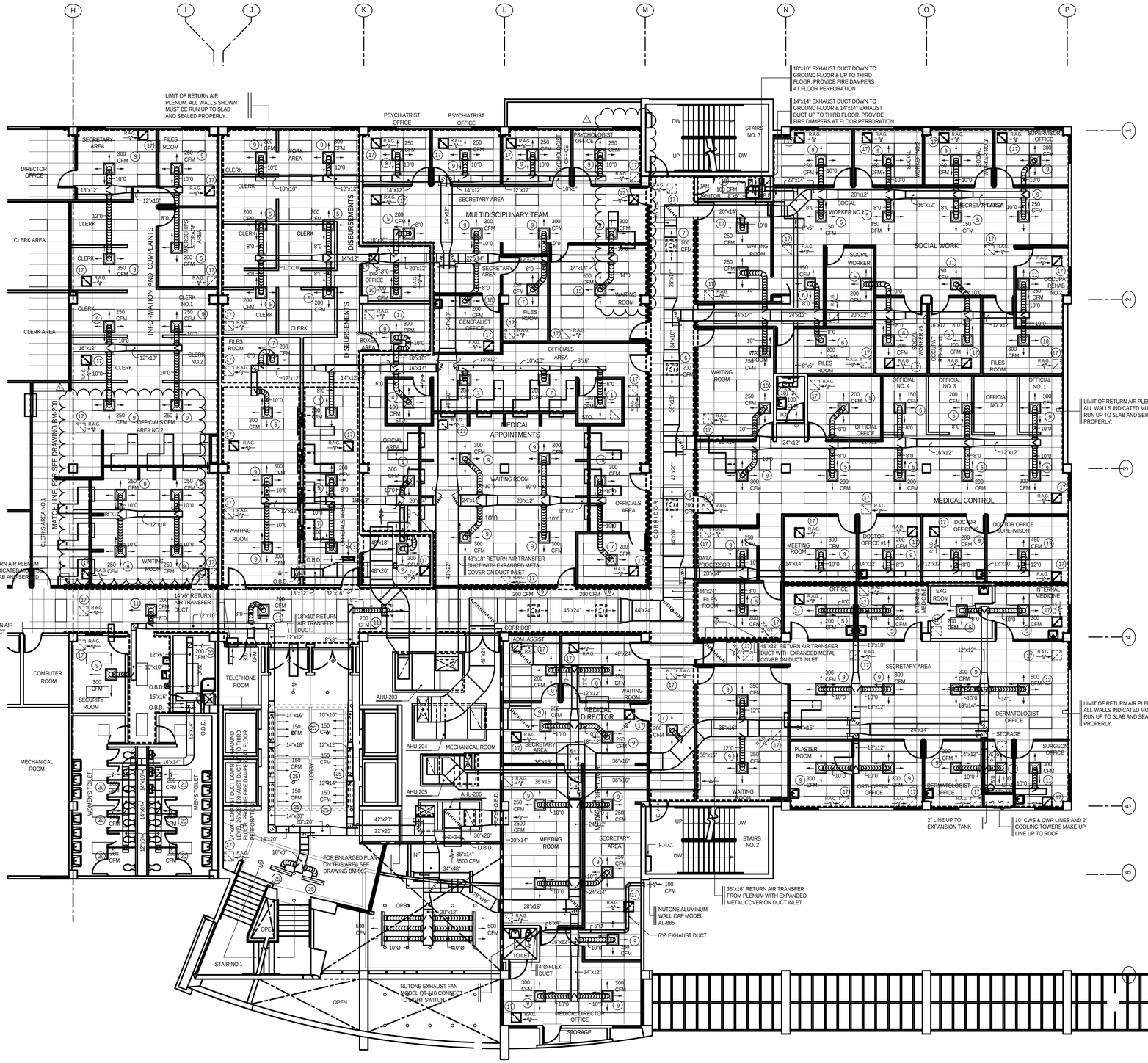
4" CONCRETE SERVICE PAD

MATCH LINE FOR CONT: SEE DRAWING BM-201

SECOND FLOOR PLAN (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT

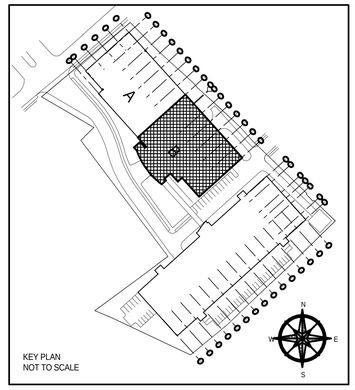
SCALE 1/8" = 1'0"





SECOND FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE 1/8" = 1'0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY, P.R.
00919

TEL. (787) 758-1044 FAX. (787) 759-8017

JORGE LEDON WEBSTER
CONSULTING
ENGINEER
JLW

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
SECOND FLOOR PLAN
(QUADRANT "B"),
AIR CONDITIONING &
VENTILATION LAYOUT
SCALE: 1/8"=1'-0"

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ARCHITECT IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.

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CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE START OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD BEAR A STAMP WITH THE LABEL: "FOR CONSTRUCTION ONLY" SIGNED BY ARCHITECT.

NO.	REVISION	BY	DATE
1	WAITING ROOM & OFFICIAL AREA REVA.S.R.		8/21/1998

CONSTRUCTION DRAWINGS REVISIONS

Consultants :

Site:
E. BLANES

Structural :
D. DEL NERO

Plumbing :
J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
MAY-01-02

Drawn By :
M. MERCADO

File Name :
FSE-M21

Dwg. History:

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Of
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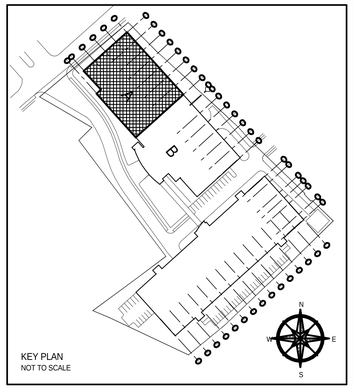
BM-201





KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY, P.R.
00919

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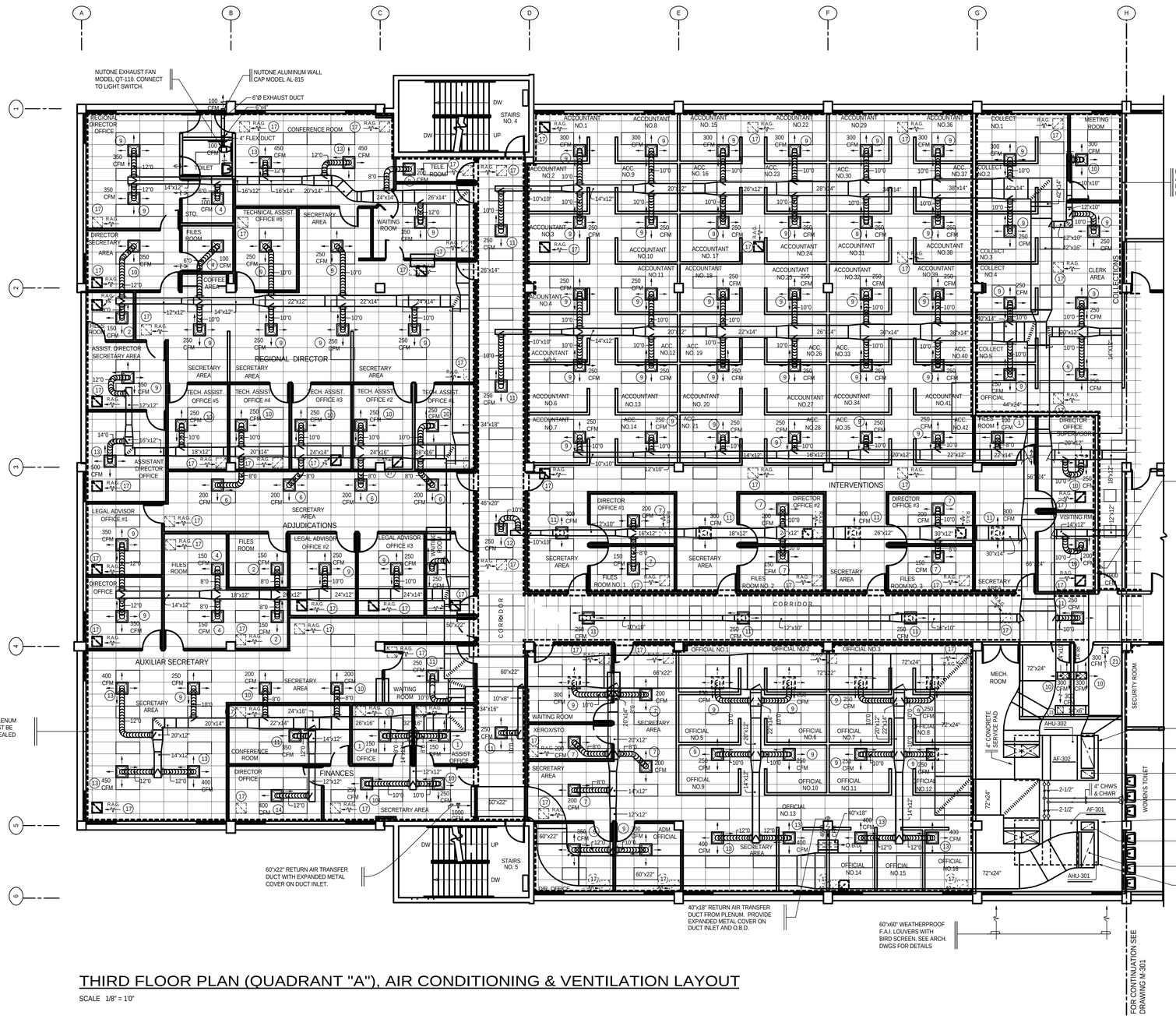
LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
THIRD FLOOR PLAN,
QUADRANT "A",
AIR CONDITIONING &
VENTILATION LAYOUT

SCALE: 1/8"=1'-0"



THIRD FLOOR PLAN (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE 1/8" = 1'0"

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NO.	REVISION	BY	DATE
1	ARCHITECTURE REVISED	A.S.R.	9/21/1998

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M. MERCADO

BM-300

File Name : CFSE-M30

Dwg. History:

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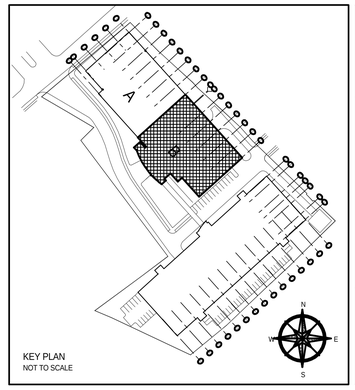
Of .





A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R.
00919

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JORGE LEDON WEBSTER
CONSULTING
ENGINEER
ABI PEPE DIAZ STREET,
HATO REY, P.R. 00918
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LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
THIRD FLOOR PLAN
(QUADRANT "B"),
AIR CONDITIONING &
VENTILATION LAYOUT
SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M.M.M. / Z.D.A.
File Name : CFSE-M31

BM-301

Dwg. History:

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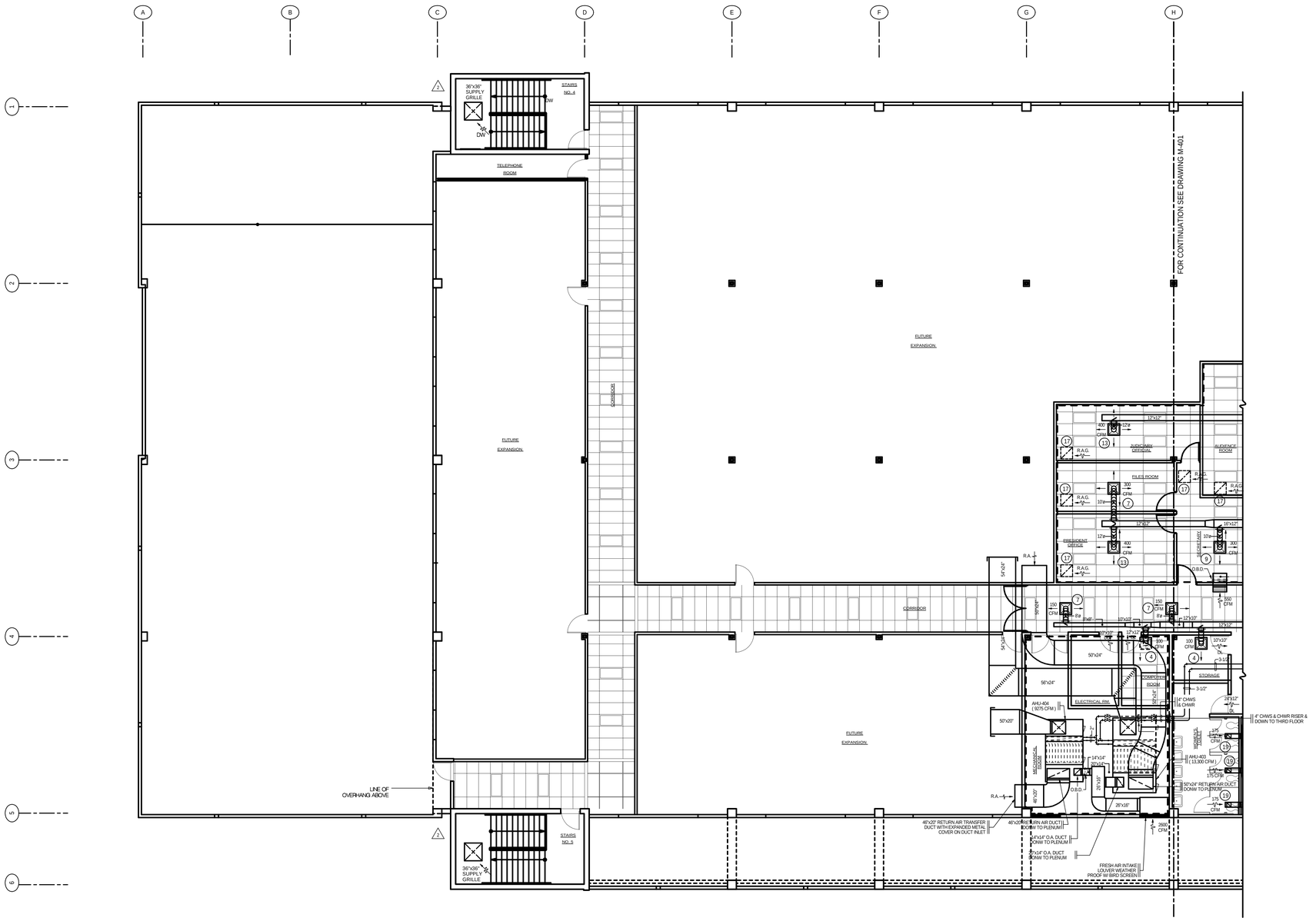
Of .

THIRD FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT

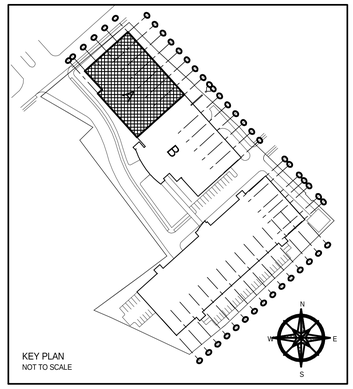
SCALE 1/8" = 1'0"





FOURTH FLOOR PLAN (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY, P.R.
00919

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JORGE LEDON WEBSTER
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CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
FOURTH FLOOR PLAN,
QUADRANT "A",
AIR CONDITIONING &
VENTILATION LAYOUT

SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE
1	GENERAL REVISION	P.I.	APR-13-99

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. :
95020
Plot Date :
MAY-01-02
Drawn By :
M. MERCADO
File Name :
CFSE-M40.fcw

BM-400

Dwg. History:

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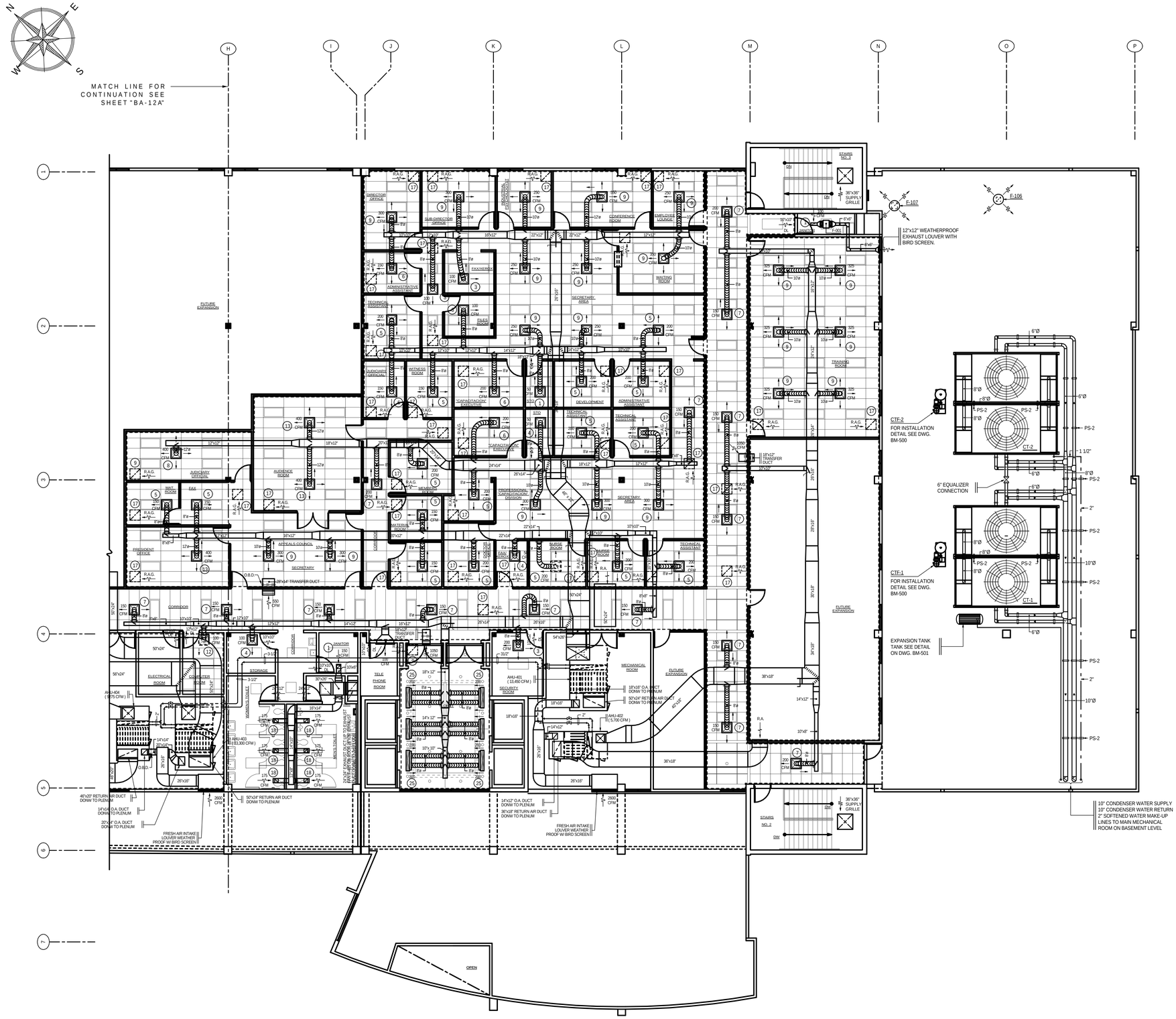
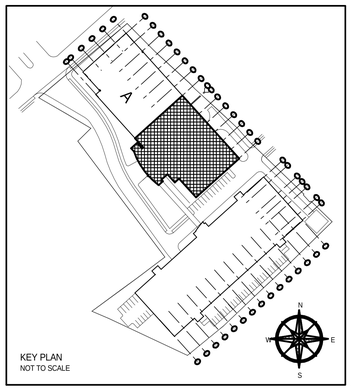


FOURTH FLOOR PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON, P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY, P.R.
00919

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CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
FOURTH FLOOR PLAN
(QUADRANT "B"),
AIR CONDITIONING &
VENTILATION LAYOUT
SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE
1	GENERAL REVISION	P.I.	04/13/1995
2	CHW PIPING & SUPPLY GRILLE REV.	A.S.R.	8/21/1998
3	GENERAL REVISION	M.M.M .	7 / 2 / 98

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. :
95020
Plot Date :
MAY-01-02
Drawn By :
M. MERCADO

BM-401

File Name :
CFSE-M41.tcw

Dwg. History:

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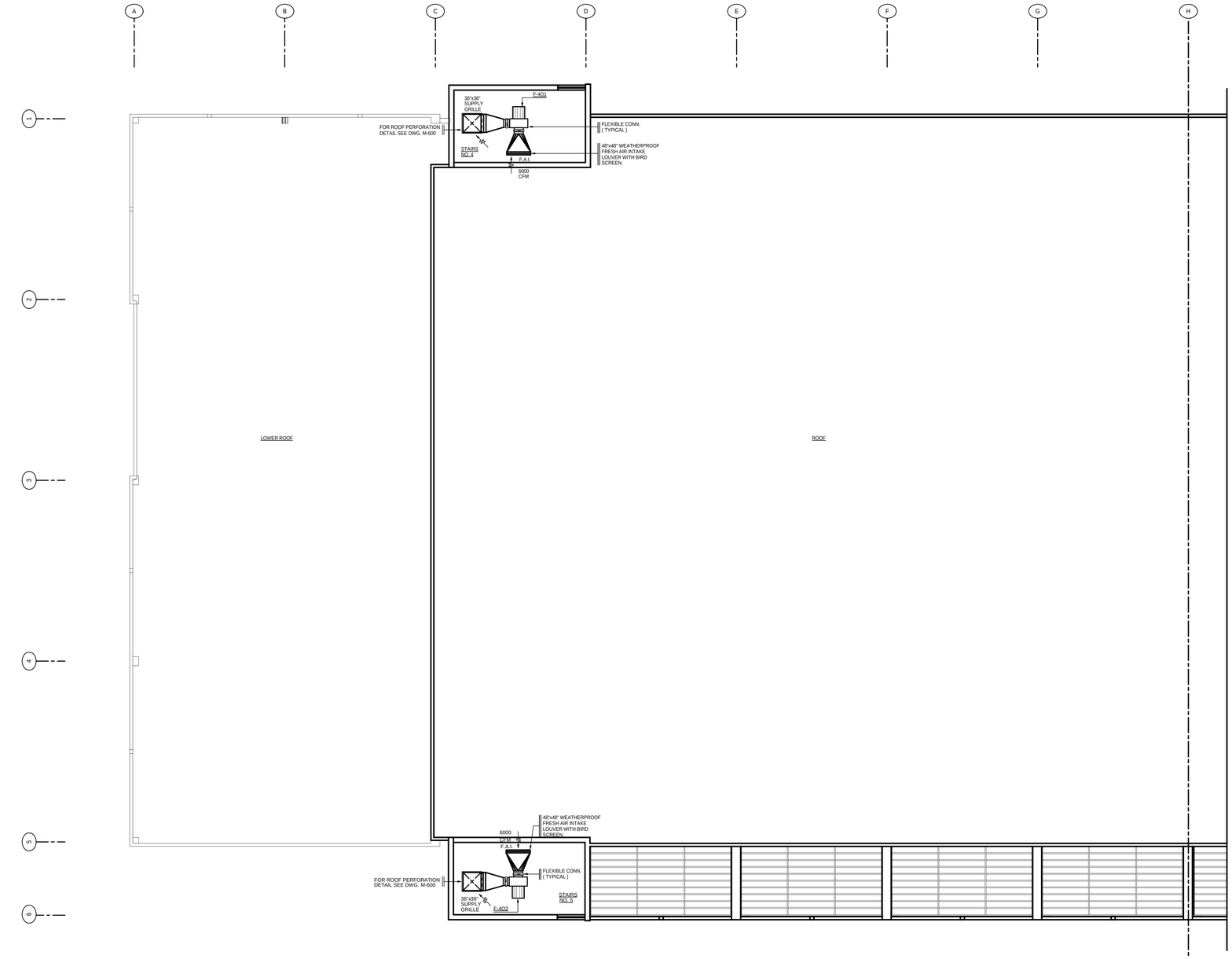
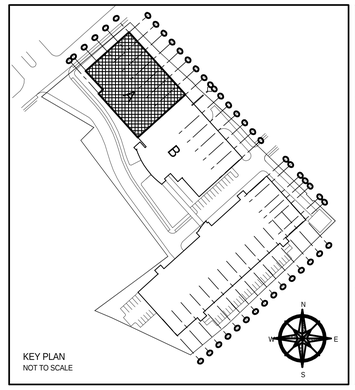


ROOF PLAN (QUADRANT "A"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R
00919

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CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
ROOF PLAN,
QUADRANT "A",
AIR CONDITIONING &
VENTILATION LAYOUT

SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES

Structural :
D. DEL NERO

Plumbing :
J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
MAY-01-02

Drawn By :
M. MERCADO

File Name :
FSE-BM50.fcw

Dwg. History:

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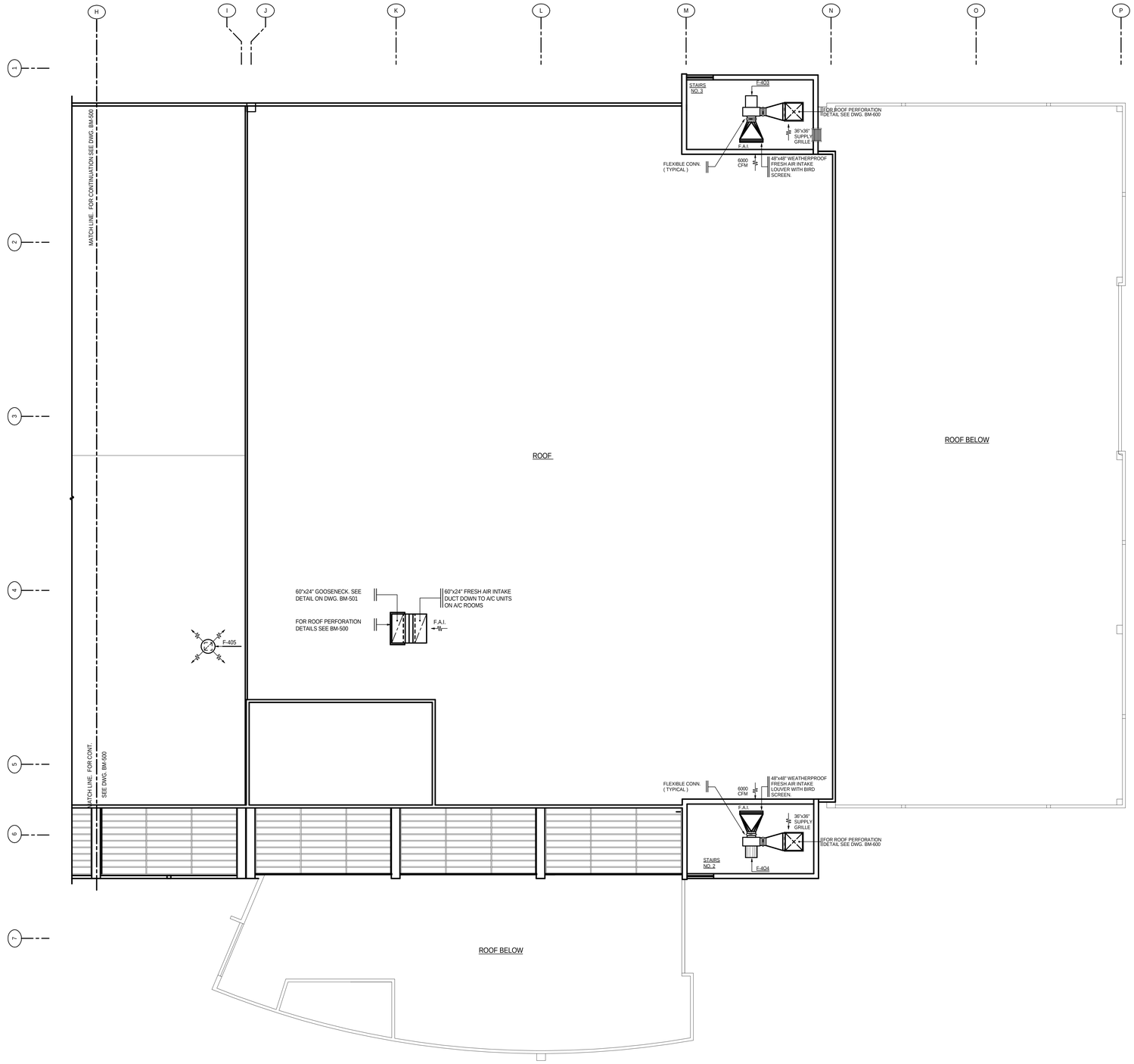
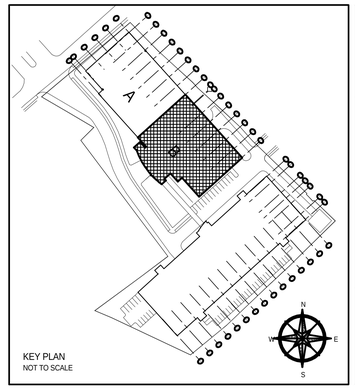
BM-500





ROOF PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

A.C.C. ARCHITECTS, P.S.C.

Z.M.S SUITE 412
PLAZA RIO HONDO
BAYAMON , P.R.
00961-3100

305 CESAR ROMAN ST.
URB. ROOSEVELT
HATO REY , P.R
00919

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CONSULTING
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HATO REY, P.R. 00918
TEL. (787) 767-1351
LIC NO. 8812

CFSE
SAN JUAN REGIONAL OFFICES

State Road # 838, Km. 6.3
Monacillos Ward
San Juan, Puerto Rico

OFFICE BLDG.
ROOF PLAN (QUADRANT "B"), AIR CONDITIONING & VENTILATION LAYOUT

SCALE: 1/8"=1'-0"

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NO.	REVISION	BY	DATE
1			

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site:
E. BLANES
Structural :
D. DEL NERO
Plumbing :
J. LEDON
Mech. A/C :
J. LEDON
Electrical :
L. VIDAL

Project No. :
95020
Plot Date :
MAY-01-02
Drawn By :
M. MERCADO

BM-501

File Name :
FSE-P51.fcw

Dwg. History:

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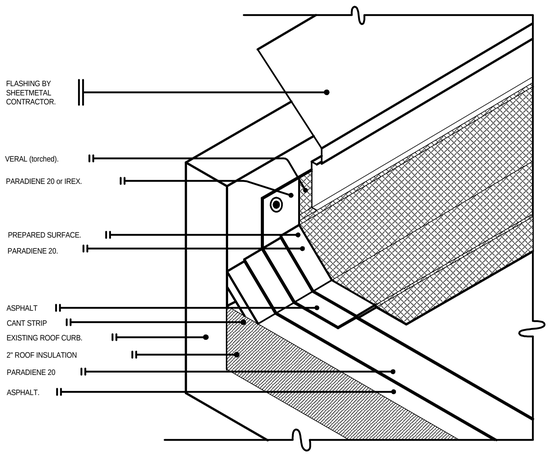
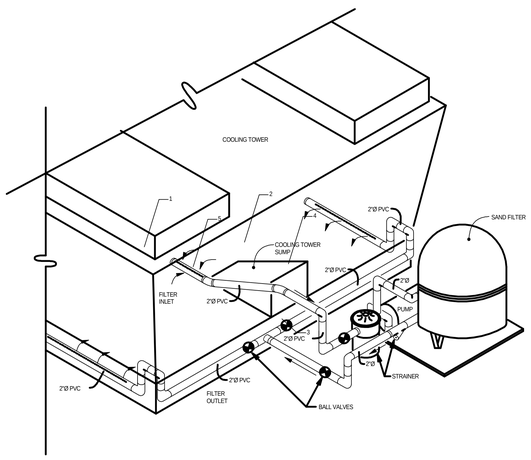


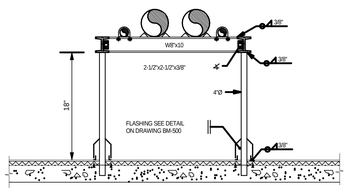
ROOF CURB AND FLASHING DETAIL

NOT TO SCALE



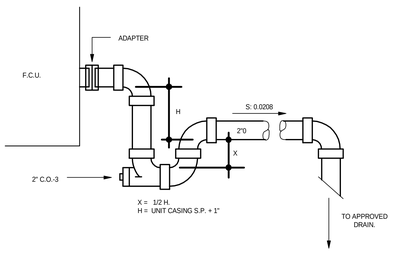
COOLING TOWER SUMP FILTER INSTALLATION DETAIL

NOT TO SCALE



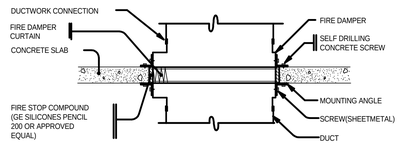
REFRIGERANT PIPING SUPPORT TYPE I I

NOT TO SCALE

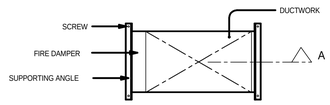


DRAIN TRAP DETAIL

NOT TO SCALE



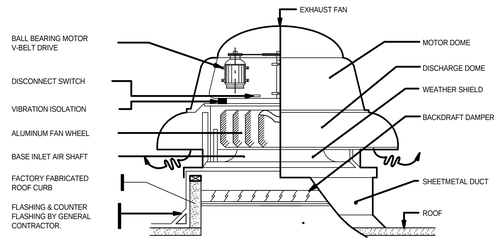
SECTION A



FLOOR PLAN

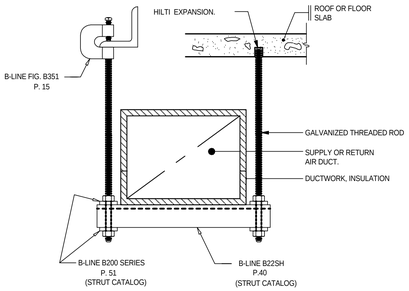
TYPICAL DUCT THROUGH SLAB PERFORATION DETAIL

NOT TO SCALE



ROOF TOP TYPE EXHAUST FAN DETAIL

NOT TO SCALE :

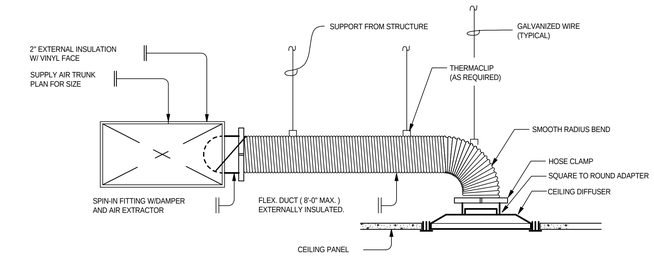


DUCT HANGERS DETAIL

NOT TO SCALE

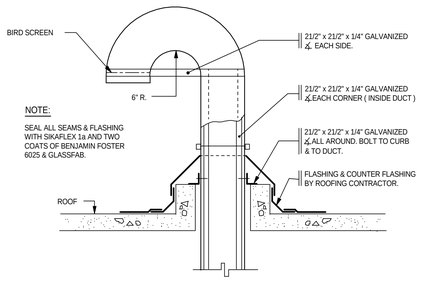
NOTES:

1. SIZE STRUT AND CLAMP TO ADEQUATELY SUPPORT LOAD (REFER TO B-LINE STRUT CATALOG).
2. B2417 PERMITS MOVEMENT ALONG LENGTH OF PIPE.
3. STRUT AVAILABLE IN DURAGREEN EPOXY PAINTED, GALVANIZED, HOT-DIP GALVANIZED, PVC COATED, STAINLESS STEEL AND ALUMINUM.
4. SIZE HANGER AND CLAMP TO ADEQUATELY SUPPORT LOAD (REFER TO B-LINE HANGER CATALOG).
5. FOR UL & FM APPROVAL USE B351L WITH LOCKNUT.
6. B3106V IS USED IN CONJUNCTION WITH B3106 TO CONTINUOUSLY SUPPORT PLASTIC PIPE OR OTHER FLEXIBLE PIPE SYSTEM.
7. FOR MORE SECURE ATTACHMENT USE B3362 RETAINING STRAP WITH B351.



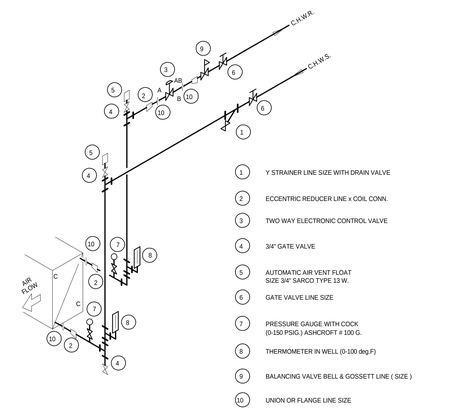
CEILING DIFFUSER & FLEX DUCT INSTALLATION DETAIL

NOT TO SCALE



TYPICAL GOOSENECK DETAIL

NOT TO SCALE

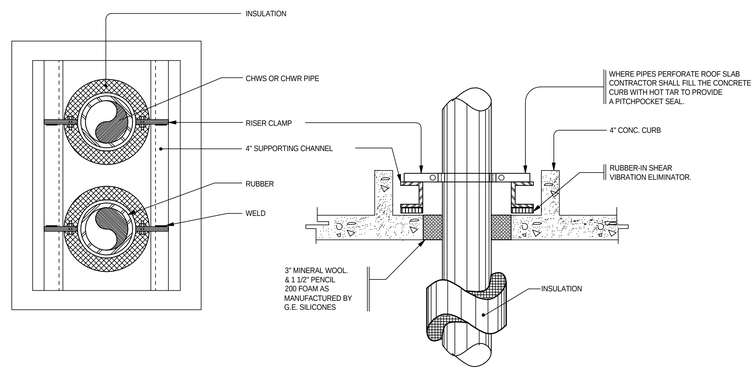


COOLING COIL PIPING DIAGRAM

NOT TO SCALE

TYPICAL DUCT ROOF PERFORATION DETAIL

NOT TO SCALE



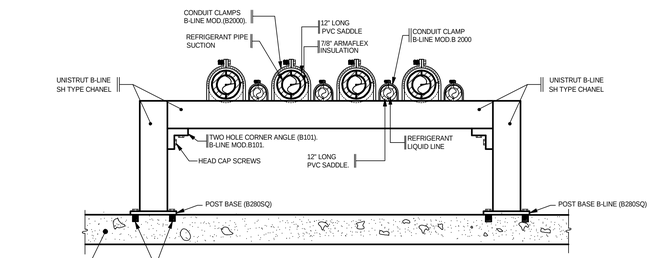
TYPICAL CHILLED AND REHEAT WATER PIPING VERTICAL

RISER SUPPORT, ANCHOR DETAIL AND FIREPROOFING DETAIL

NOT TO SCALE

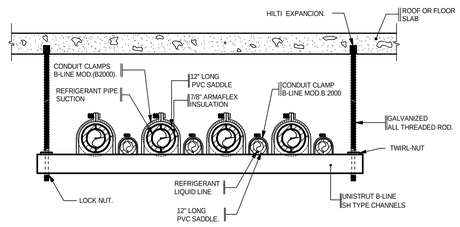
NOTES:

1. CONTRACTOR SHALL PROPERLY SEAL BETWEEN INSULATION AND FIRE PROOFING TO AVOID CONDENSATION.
2. ALL DUCT PERFORATIONS THROUGH SLAB SHALL BE PROPERLY SEALED WITH THE G.E. FIREPROFING COMPOUND AND THE REQUIRED FIRE DAMPERS.
3. ALL INSULATION EXPOSED TO AMBIENT SHALL BE COVERED WITH 0.016" ALUMINUM JACKET "METAL ON" AS MANUFACTURED BY JOHNS MANVILLE SECURED WITH 1/2" WIDE STAINLESS STEEL STRAPS EVERY 12" C.C. FINISH ALL FITTINGS WITH GLASSFAB AND BENJAMIN FOSTER 60-25 MASTIC.



REFRIGERANT PIPING SUPPORT TYPE I I

NOT TO SCALE



REFRIGERANT PIPING SUPPORT TYPE I

NOT TO SCALE

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San Juan, Puerto Rico

DETAILS

NOT TO SCALE

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M. MERCADO
File Name : FSE-M50

BM-500

Dwg. History:

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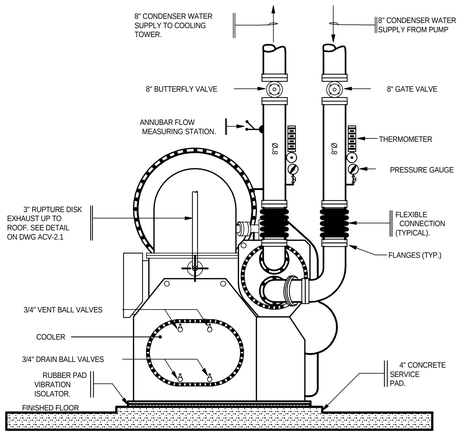
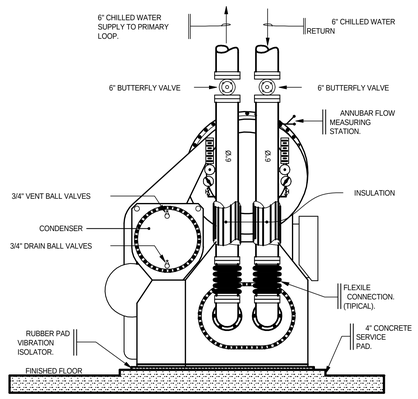


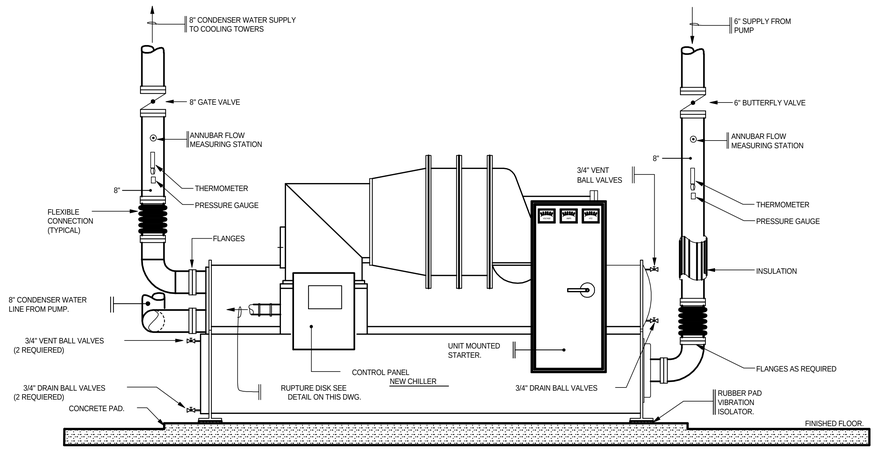
CONDENSER WATER PIPING ELEV.

NOT TO SCALE



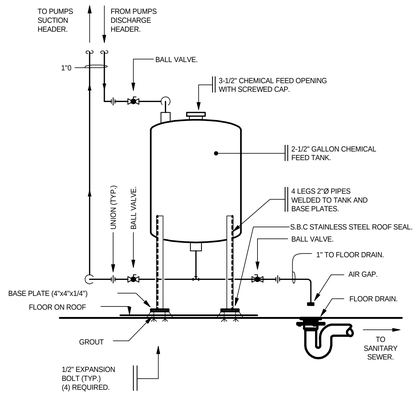
CHILLED WATER PIPING ELEV.

NOT TO SCALE



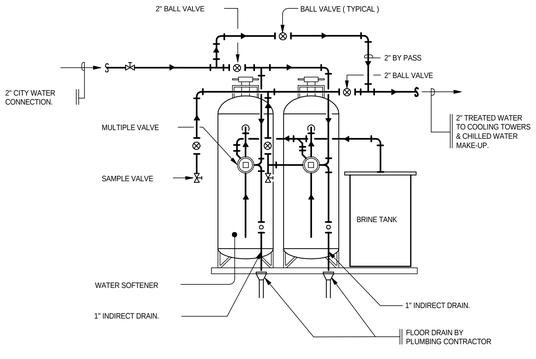
CHILLER PIPING ELEVATION

NOT TO SCALE



CHILLED WATER SYSTEM CHEMICAL FEEDER DETAIL

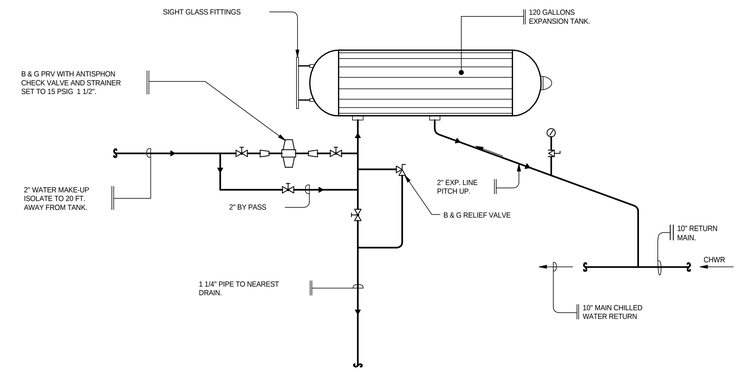
NOT TO SCALE



WATER TREATMENT, SOFTENER PIPING DIAGRAM

NOT TO SCALE

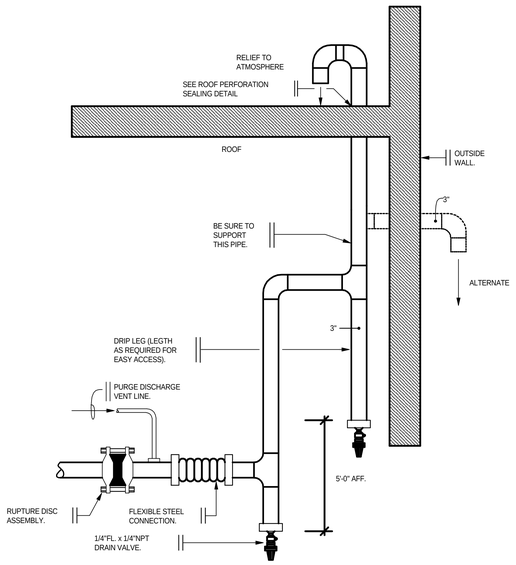
N O T E :
1.) THIS CONTRACTOR MUST PROVIDE 120VAC POWER TO NEAREST PANEL FOR AUTOMATIC BACKWASH SYSTEMS. ALL INSTALLATION SHALL COMPLY WITH THE N.E.C.



CHILLED WATER SYSTEM EXPANSION TANK PIPING DIAGRAM

NOT TO SCALE

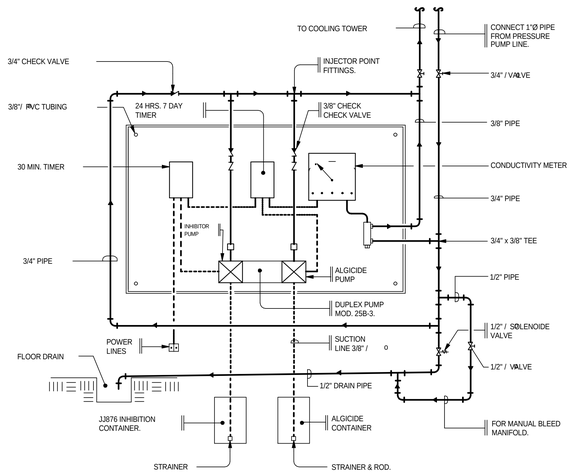
NOTE: 1.) EXPANSION TANKSHALL BE SUPPORTED FROM ROOF WALL WITH STEEL SUPPORT.



RUPTURE DISC RELIEF PIPING DETAIL

NOT TO SCALE

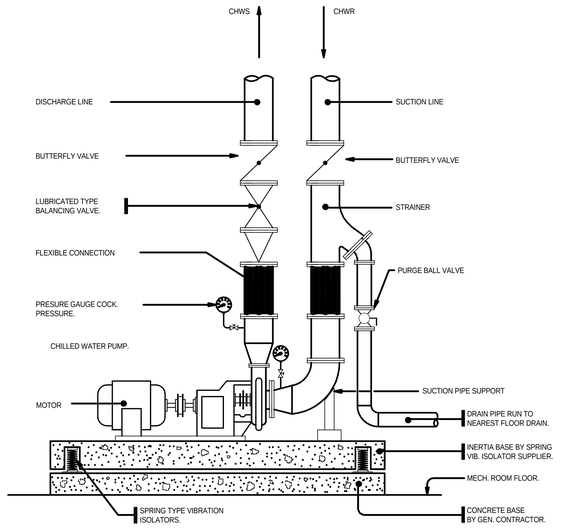
ALL PIPING SHALL BE BLACK STEEL SOLDEDED



WATER TREATMENT PANEL DIAGRAM

NOT TO SCALE

N O T E :
THIS CONTRACTOR MUST PROVIDE POWER TO NEAREST PANEL FOR ALGICIDE PUMP, INHIBITOR PUMP, CONDUCTIVITY METER, SOLENOIDES & TIMERS. ALL INSTALLATION SHALL COMPLY WITH THE N.E.C.



TYPICAL CHILLED WATER PUMP INSTALLATION DETAIL

NOT TO SCALE

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Monacillos Ward
San Juan, Puerto Rico

CHILLER DETAILS

NOT TO SCALE

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : MAY-01-02
Drawn By : M. MERCADO
File Name : FSE-M61

BM-601

Dwg. History:

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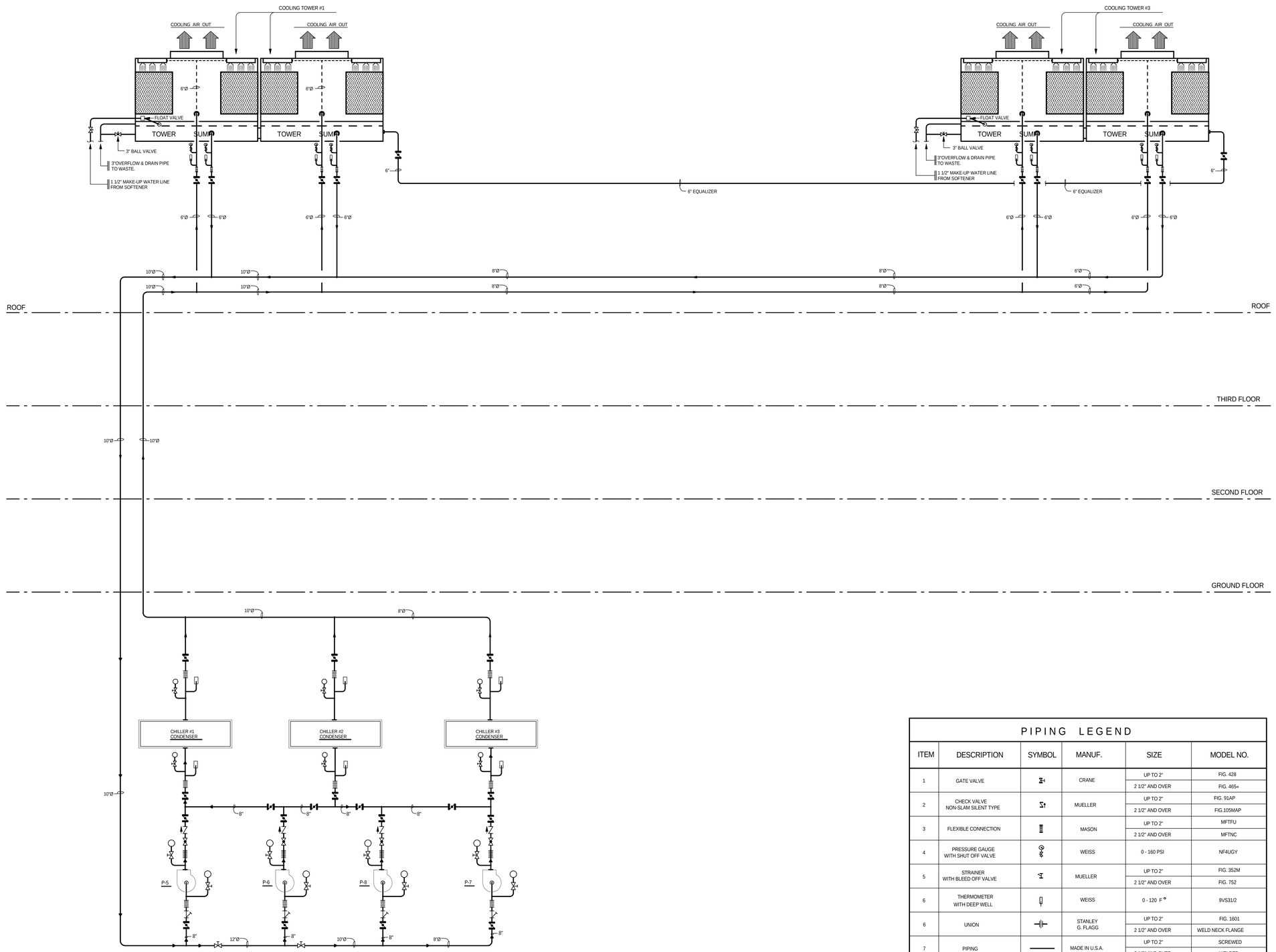

COOLING TOWERS CONDENSER WATER PIPING DIAGRAM

NOT TO SCALE

PIPING LEGEND

ITEM	DESCRIPTION	SYMBOL	MANUF.	SIZE	MODEL NO.
1	GATE VALVE		CRANE	UP TO 2"	FIG. 428
				2 1/2" AND OVER	FIG. 465≠
2	CHECK VALVE NON-SLAM SILENT TYPE		MUELLER	UP TO 2"	FIG. 91AP
				2 1/2" AND OVER	FIG.105MAP
3	FLEXIBLE CONNECTION		MASON	UP TO 2"	MFTFU
				2 1/2" AND OVER	MFTNC
4	PRESSURE GAUGE WITH SHUT OFF VALVE		WEISS	0 - 160 PSI	NF4UGY
5	STRAINER WITH BLEED OFF VALVE		MUELLER	UP TO 2"	FIG. 352M
				2 1/2" AND OVER	FIG. 752
6	THERMOMETER WITH DEEP WELL		WEISS	0 - 120 F °	9VS31/2
6	UNION		STANLEY G. FLAGG	UP TO 2"	FIG. 1601
				2 1/2" AND OVER	WELD NECK FLANGE
7	PIPING		MADE IN U.S.A.	UP TO 2"	SCREWED
				2 1/2" AND OVER	WELDED
8	LUG WATER BUTTERFLY VALVE		CRANE	2" AND OVER	CAT. #44 BXZ
9	LUBRICATED PLUG BALANCING VALVE		RESUN	UP TO 2"	FIG. R-1430
				2 1/2" AND OVER	FIG. R-1431

NOTE: CONTRACTOR MUST PROVIDE MILL CERTIFICATE OF PIPING TO BE INSTALLED PRIOR TO ERECTION FOR APPROVAL.

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CONDENSER WATER DIAGRAM AND LEGEND

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J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
08-6-97

Drawn By :
M. MERCADO

File Name :
FSE-M60

Dwg. History:

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BM-600

CONTROL LEGEND:

AI	ANALOG INPUT
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
R.A.	RETURN AIR
O.A.	OUTSIDE AIR
DPS	DIFFERENTIAL PRESSURE SWITCH.
MG	MAGNEHELIC GAUGE
TS	TEMPERATURE SENSOR
CV	CONTROL VALVE
SPS	STATIC PRESSURE SENSOR
SD	SMOKE DETECTOR DUCT IONIZATION TYPE
IVA	ELECTRONIC INLET VANE ACTUATOR
PCM	PROGRAMMABLE CONTROL MODULE
AHU	AIR HANDLING UNIT
VAV	VARIABLE AIR VOLUME.
PTR	WIDE CARRIAGE (8-1/2") PRINTER WITH RS- 232 PORT.
CSR	CURRENT SENSOR RELAY.
CU	COMMAND UNIT WITH INTEGRAL DDC CONTROLLER.
DDC	DIRECT DIGITAL CONTROL.
UCP	UNIT CONTROL PANEL
SCP	SYSTEM CONTROL PANEL
T	ROOM TEMPERATURE SENSOR
SG	PRESSURE DIFFERENTIAL FLOWSWITCH
CTR	CATHODE RAY TUBE TERMINAL WITH KEYBOARD AND RS-232 PORT.
RM	REFRIGERANT MONITOR
OS	OXIGEN SENSOR

WIRING NOTES:

1. 1-2 #18 T&S - DENOTES QUANTITY OF 2W #18 TWISTED, SHIELDED CABLES (BELDEN 8760)
2. ALL OTHER WIRING SHOWS QUANTITY AND SIZE REQUIRED BY SYSTEM. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL 120VAC POWER WIRING TO TRANE PANELS MUST INCLUDE A SEPERATE GROUND CONDUCTOR. GROUNDING TO CONDUIT IS NOT PERMITTED.
4. SHIELDED CABLE SHOULD HAVE SHIELD TERMINATED ONLY WHERE SHOWN. SHIELD TO BE CUT BACK AND TAPED AT ANY SENSOR. SHIELD TO BE TAPED AT ANY JUNCTION TO PREVENT GROUNDING.
5. REFER TO TRANE GENERAL SERVICE BULLETIN EMTC-SB-1 FOR TRACER GROUNDING REQUIREMENTS.
6. REFER TO TRANE TECHNICAL BULLETIN TB-32703046 FOR TRACER WIRING GUIDELINES.
7. THE CONTROL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE ELECTRICAL POWER REQUIREMENTS FOR ALL CONTROLS AND SHALL FURNISH ALL REQUIRED STEPDOWN TRANSFORMERS FOR THE INSTALLATION OF THE CONTROLS. ALL THE INSTALLATION SHALL BE AS APPROVED BY THE ELECTRICAL CONSULTANT.
8. ALL INSTALATION OF ELECTRICAL AND CONTROL WIRING SHALL COMPLY WITH THE N.E.C. (N.F.P.A.). ALI WIRING SHALL BE RUN IN RIGID GALVANIZED E.M.T. TUBING WITH COMPRESION FITTINGS. ALL WIRING EXPOSED TO WEATHER SHALL BE RUN INSIDE RIGID GALVANIZED PIPING. MINIMUM PIPE SIZE SHALL BE 3/4". MAXIMUM FLEXIBLE COUNDUIT LENGTH (GREENFIELD OR SEALTIGHT) SHALL BE LIMITED TO THREE FEET LENGTH MAXIMUM.

NOTES AND COMMENTS

REFER TO THE FOLLOWING TRANE INSTALLATION LITERATURE

FOR ADDITIONAL INSTALLATION INFORMATION

EMTB-IN-4: INSTALLATION OF TRANE TRACER 100 BUILDING MANAGEMENT SYSTEM

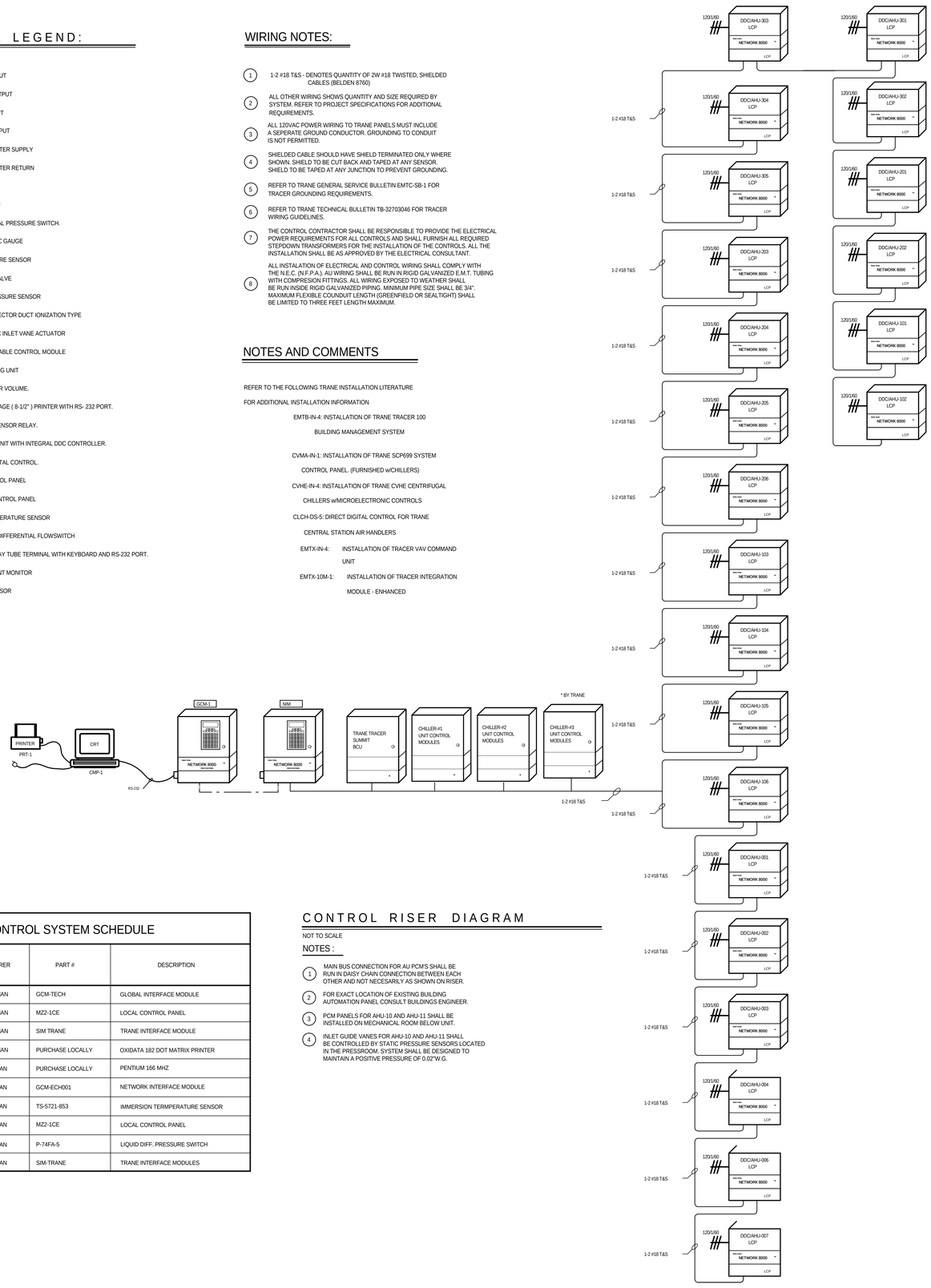
CVMA-IN-1: INSTALLATION OF TRANE SCP699 SYSTEM CONTROL PANEL. (FURNISHED w/CHILLERS)

CVHE-IN-4: INSTALLATION OF TRANE CVHE CENTRIFUGAL CHILLERS w/MICROELECTRONIC CONTROLS

CLCH-DS-5: DIRECT DIGITAL CONTROL FOR TRANE CENTRAL STATION AIR HANDLERS

EMTX-IN-4: INSTALLATION OF TRACER VAV COMMAND UNIT

EMTX-10M-1: INSTALLATION OF TRACER INTEGRATION MODULE - ENHANCED



CONTROL RISER DIAGRAM

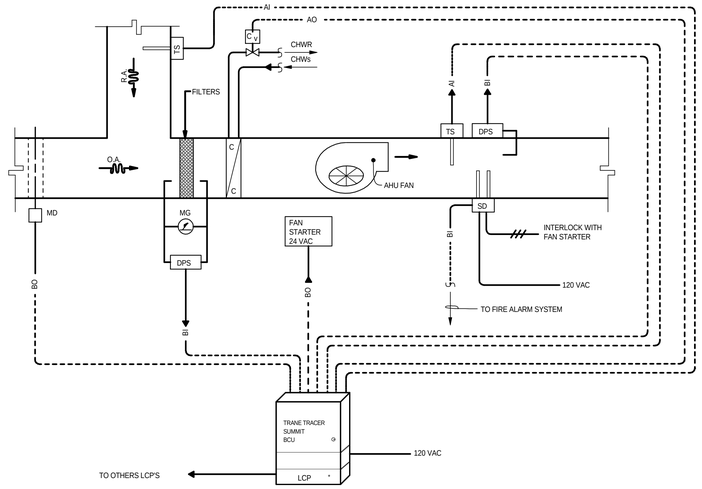
NOT TO SCALE

NOTES :

1. MAIN BUS CONNECTION FOR AU PCM'S SHALL BE RUN IN DAISY CHAIN CONNECTION BETWEEN EACH OTHER AND NOT NECESARILY AS SHOWN ON RISER.
2. FOR EXACT LOCATION OF EXISTING BUILDING AUTOMATION PANEL CONSULT BUILDINGS ENGINEER.
3. PCM PANELS FOR AHU-10 AND AHU-11 SHALL BE INSTALLED ON MECHANICAL ROOM BELOW UNIT.
4. INLET GUIDE VANES FOR AHU-10 AND AHU-11 SHALL BE CONTROLLED BY STATIC PRESSURE SENSORS LOCATED IN THE PRESSROOM. SYSTEM SHALL BE DESIGNED TO MAINTAIN A POSITIVE PRESSURE OF 0.02"W.G.

CONTROL SYSTEM SCHEDULE

ITEM TAG #	MANUFACTURER	PART #	DESCRIPTION
GCM-1	BARBER COLMAN	GCM-TECH	GLOBAL INTERFACE MODULE
LCP	BARBER COLMAN	MZ2-1CE	LOCAL CONTROL PANEL
SIM	BARBER COLMAN	SIM TRANE	TRANE INTERFACE MODULE
PRT-1	BARBER COLMAN	PURCHASE LOCALLY	OXIDATA 182 DOT MATRIX PRINTER
CMP-1	BARBER COLMAN	PURCHASE LOCALLY	PENTIUM 166 MHZ
NIM	BARBER COLMAN	GCM-ECH001	NETWORK INTERFACE MODULE
TS-1	BARBER COLMAN	TS-5721-853	IMMERSION TERMPERATURE SENSOR
LCP	BARBER COLMAN	MZ2-1CE	LOCAL CONTROL PANEL
DPS	BARBER COLMAN	P-74FA-5	LIQUID DIFF. PRESSURE SWITCH
SIM	BARBER COLMAN	SIM-TRANE	TRANE INTERFACE MODULES

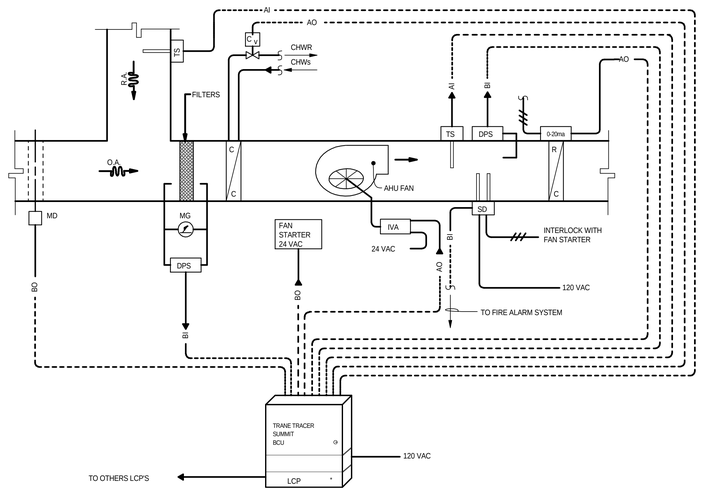


AIR HANDLING UNIT CONTROL DIAGRAM FOR AHU-001 THRU AHU-305

NOT TO SCALE

NOTES:

1. STARTERS ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR WITH HAND OFF-AUTO SWITCHES AND 24 VAC COILS.
2. FOR UNITS ABOVE 10,000 CFM PROVIDE AN ADDITIONAL SMOKE DETECTOR ON RETURN AIR STREAM.



AIR HANDLING UNIT CONTROL DIAGRAM FOR AHU-005 & AHU-106

NOT TO SCALE

NOTES:

1. STARTERS ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR WITH HAND OFF-AUTO SWITCHES AND 24 VAC COILS.

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San Juan, Puerto Rico

SCHEDULES, LEGEND AND GENERAL NOTES

NOT TO SCALE

IMPORTANT NOTE FOR CONTRACTOR

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NO.	REVISION	BY	DATE

CONSTRUCTION DRAWINGS REVISONS

Consultants :

Site: E. BLANES
Structural : D. DEL NERO
Plumbing : J. LEDON
Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : 08-6-97
Drawn By : M. MERCADO
File Name : FSE-M70

BM-700

Dwg. History:

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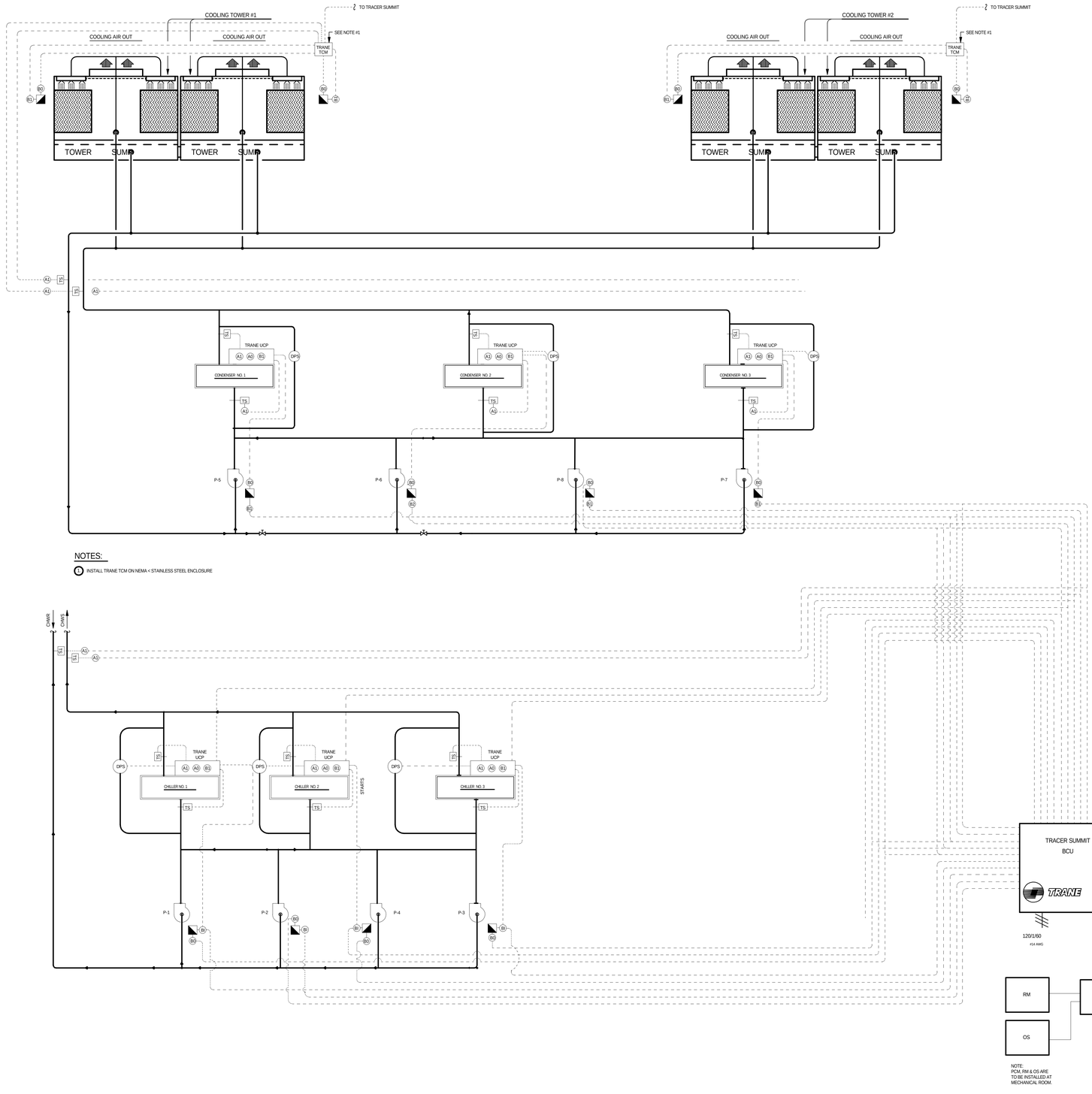
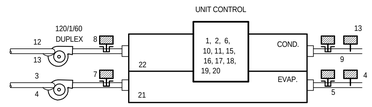


NOTES:

1. INSTALL TRANE TCM ON NEMA < STAINLESS STEEL ENCLOSURE

CHILLED WATER AND CONDENSER WATER SYSTEMS CONTROL DIAGRAM

NOT TO SCALE



CENTRIFUGAL CHILLER WITH UNIT CONTROL

NOT TO SCALE

CONTROL POINTS LIST

No.	DESCRIPTION	AI	AO	DI	DO
1.	CONTROL SYSTEM ON/OFF CONTROL.				●
2.	CONTROL SYSTEM STATUS.			●	
3.	CHILLER PUMP CONTROL.				●
4.	CHILLER PUMP STATUS.			●	
5.	CHILLED WATER SUPPLY TEMPERATURE (TO LOAD)	●			
6.	CHILLED WATER SUPPLY TEMPERATURE SETPOINT.		●		
7.	CHILLED WATER RETURN TEMPERATURE (FROM LOAD).	●			
8.	CONDENSER WATER SUPPLY TEMPERATURE (TO CONDENSER).	●			
9.	CONDENSERR WATER RETURN TEMPERATURE (FROM CONDENSER).	●			
10.	PERCENT CURRENT LIMIT.	●			
11.	PERCENT CURRENT LIMIT SETPOINT.		●		
12.	CONDENSER WATER PUMP CONTROL.				●
13.	CONDENSER WATER PUMP STATUS.			●	
14.	(REVERSED).	●			
15.	BEARING OIL TEMPERATURES.	●			
16.	PERCENT RUNNING LOAD AMPS.	●			
17.	MOTOR WINDING TEMPERATURES.	●			
18.	OIL TEMPERATURE.	●			
19.	OIL PRESSURE.	●			
20.	STARTER STATUS.			●	
21.	REFRIGERANT TEMPERATURE IN EVAPORATOR.	●			
22.	REFRIGERANT TEMPERATURE IN CONDENSER.	●			

GENERAL NOTES

1. ALL ELECTRICAL INSTALLATION SHALL COMPLY WITH THE N.E.C.
2. MINIMUM CUNDUIT SIZE SHALL BE 3/4"
3. ALL EXTERIOR CONDUITS SHALL BE RIGID GALVANIZED PIPING
4. FINAL CONNECTION TO UNITS AND MOTORS SHALL BE DONE WITH FLEXIBLE CONNECTIONS, PROVIDE SEALTIGHT WEATHERPROOF CONNECTORS WHERE EXPOSED TO AMBIENT.
5. ALL INTERIOR CONDUITS SHALL BE GALVANIZED E.M.T. PIPING WITH COMPRESSION FITTINGS
6. ALL ELECTRICAL WIRING REQUIRED FOR THE CONTROL INSTALLATION SHALL BE DONE BY THE CONTROL CONTRACTOR
7. NO CONTROL EQUIPMENT SHALL BE INSTALLED IN THE EXTERIOR OR EXPOSED TO AMBIENT CONDITIONS
8. 120 VAC & HIGHER VOLTAGE BY ELECTRICAL CONTRACTOR
9. ALL CONTROLLERS REQUERE 120 VAC INPUT.
10. TYPICAL FOR ALL WATER PUMPS AND COOLING TOWER STATION WILL REQUIRED A CURRENT SENSING RELAY (NITA DPS).

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AIR CONDITIONING AND VENTILATION CONTROL DIAGRAMS AND POINT LIST

NOT TO SCALE

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Mech. A/C : J. LEDON
Electrical : L. VIDAL

Project No. : 95020
Plot Date : 08-6-97
Drawn By : M. MERCADO
File Name : FSE-M71

BM-701

Dwg. History:

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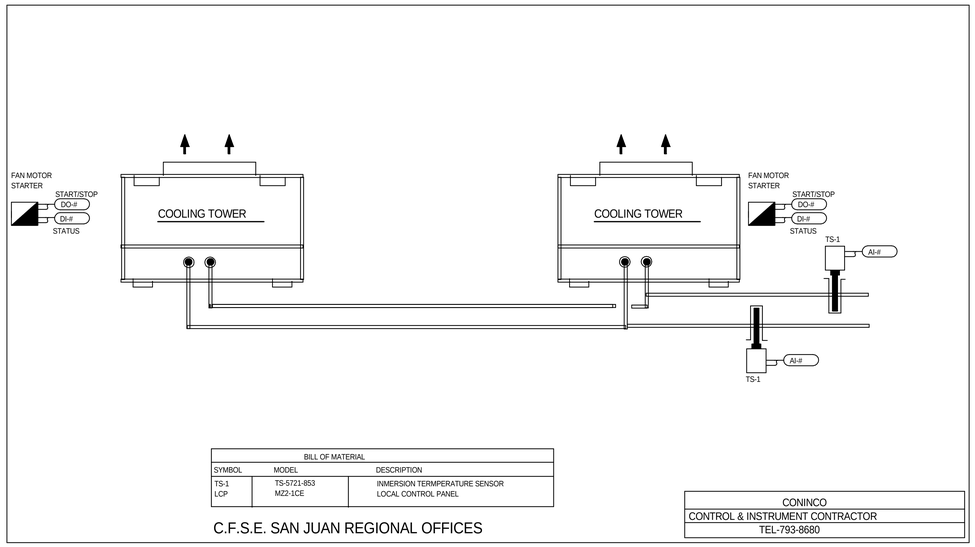


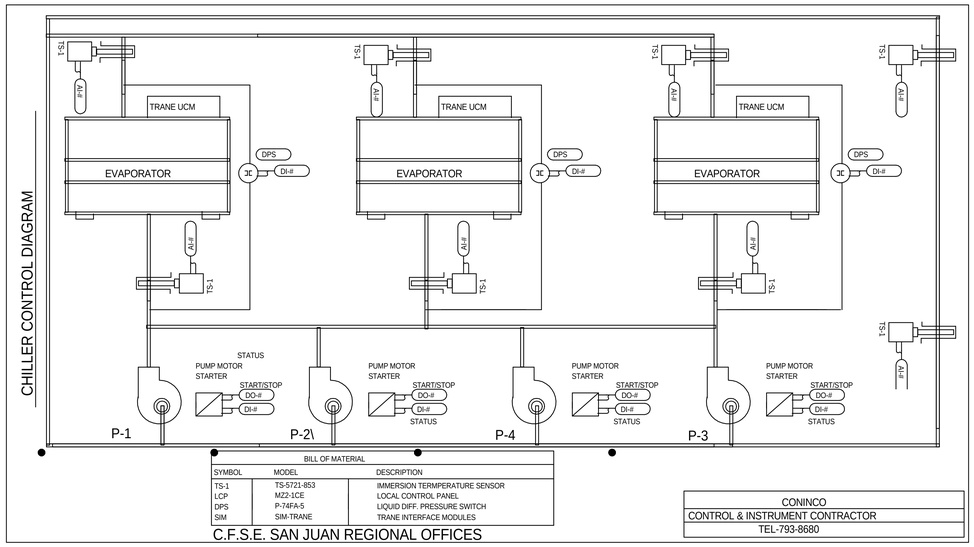
BILL OF MATERIAL		
SYMBOL	MODEL	DESCRIPTION
TS-1	TS-5721-853	INMERSION TERMPERATURE SENSOR
LCP	M22-1CE	LOCAL CONTROL PANEL

CONINCO
CONTROL & INSTRUMENT CONTRACTOR
TEL-793-8680

C.F.S.E. SAN JUAN REGIONAL OFFICES

COOLING TOWER CONTROL DIAGRAM

NOT TO SCALE



BILL OF MATERIAL		
SYMBOL	MODEL	DESCRIPTION
TS-1	TS-5721-853	IMMERSION TERMPERATURE SENSOR
LCP	M22-1CE	LOCAL CONTROL PANEL
DPS	P-74FA-5	LIQUID DIFF. PRESSURE SWITCH
SIM	SIM-TRANE	TRANE INTERFACE MODULES

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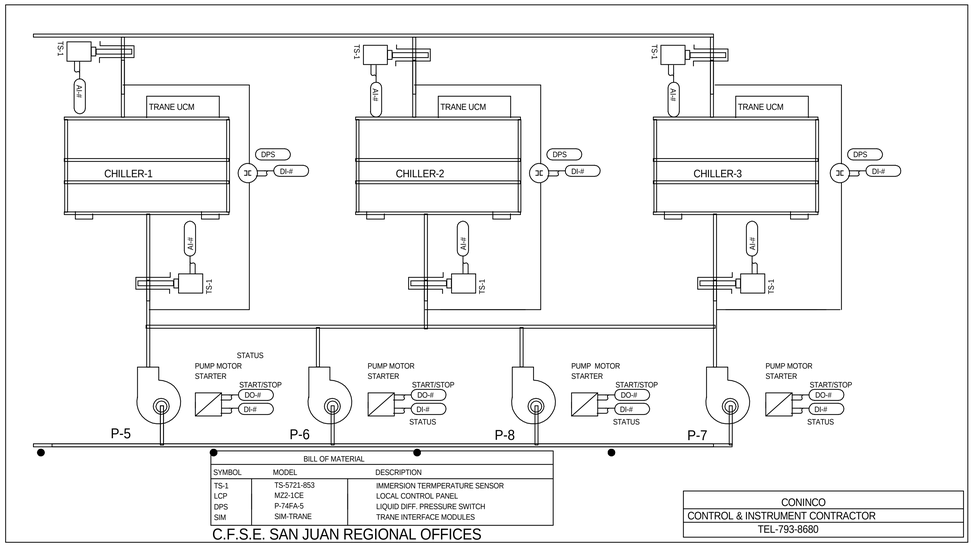
C.F.S.E. SAN JUAN REGIONAL OFFICES



BILL OF MATERIAL		
SYMBOL	MODEL	DESCRIPTION
TS-1	TS-5721-853	IMMERSION TERMPERATURE SENSOR
LCP	MZ2-1CE	LOCAL CONTROL PANEL
DPS	P-74FA-5	LIQUID DIFF. PRESSURE SWITCH
SIM	SIM-TRANE	TRANE INTERFACE MODULES

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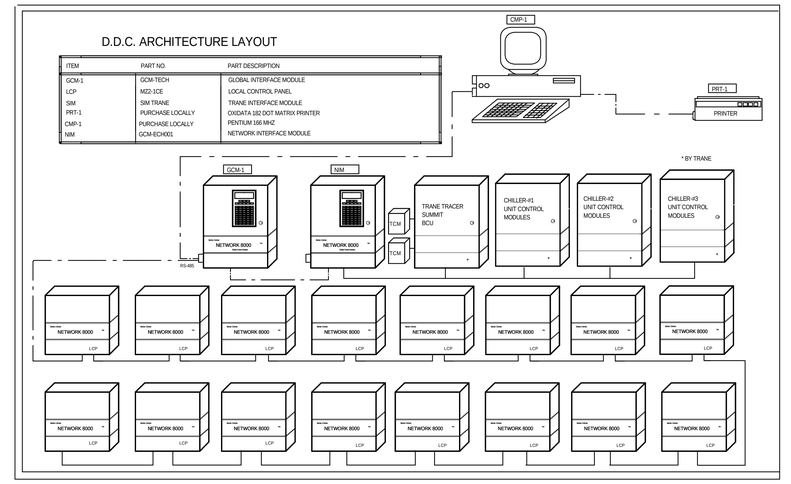
C.F.S.E. SAN JUAN REGIONAL OFFICES

CONDENSER CONTROL DIAGRAM

NOT TO SCALE



ITEM	PART NO.	PART DESCRIPTION
GCM-1	GCM-TECH	GLOBAL INTERFACE MODULE
LCP	MZ2-1CE	LOCAL CONTROL PANEL
SIM	SIM TRANE	TRANE INTERFACE MODULE
PRT-1	PURCHASE LOCALLY	OKIDATA 182 DOT MATRIX PRINTER
CMP-1	PURCHASE LOCALLY	PENTIUM 166 MHZ
NM	GCM-ECH001	NETWORK INTERFACE MODULE

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Site:
E. BLANES

Structural :
D. DEL NERO

Plumbing :
J. LEDON

Mech. A/C :
J. LEDON

Electrical :
L. VIDAL

Project No. :
95020

Plot Date :
08-6-97

Drawn By :
M. MERCADO

File Name :
FSE-M71

BM-702

Dwg. History:

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WATER COOLED REFRIGERATION MACHINE SCHEDULE

GENERAL DATA						COOLER DATA							CONDENSER DATA							COMPRESSOR DATA				ELECTRICAL DATA									
UNIT NO.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	UNIT TYPE	TONS	G.P.M.	TEMP. °F ENT. / °F LVG.	PASSES	MAX. P.D. FT. OF H_2O	TUBE TYPE	TUBE MAT.	TONS	G.P.M.	TEMP. °F ENT. / °F LVG.	PASSES	MAX. P.D. FT. OF H_2O	TUBE TYPE	TUBE MAT.	QUANTITY	TYPE	REFRIGERANT TYPE	K.W. INPUT	COMPR. AMPS.	COMPR. L.R.A.	VOLTS	PHASES	CYCLES	TOTAL FULL LOAD AMPS.	MINIMUM CIRCUIT AMPS.	DUAL ELEMENT FUSE SIZE	TOTAL UNIT K.W.
CH-1	CENTRAL CH.WATER PLANT	MAIN MECH. ROOM	TRANE	CVHE-400	CENTRIFUGAL HERMETIC	300	600	54 / 42	2	7.5	INTERNALLY ENHANCED	COPPER .028"	300	750	86 / 97.28	2	10.9	INTERNALLY ENHANCED	COPPER .028"	1	CENTRI-FUGAL	HCFC-123	177	259	2363	460	3	60	259	323	500	177
CH-2	CENTRAL CH.WATER PLANT	MAIN MECH. ROOM	TRANE	CVHE-500	CENTRIFUGAL HERMETIC	300	600	54 / 42	2	7.5	INTERNALLY ENHANCED	COPPER .028"	300	750	86 / 97.28	2	10.9	INTERNALLY ENHANCED	COPPER .028"	1	CENTRI-FUGAL	HCFC-123	177	259	2363	460	3	60	259	323	500	177
CH-3	CENTRAL CH.WATER PLANT	MAIN MECH. ROOM	TRANE	CVHE-500	CENTRIFUGAL HERMETIC	300	600	54 / 42	2	7.5	INTERNALLY ENHANCED	COPPER .028"	300	750	86 / 97.28	2	10.9	INTERNALLY ENHANCED	COPPER .028"	1	CENTRI-FUGAL	HCFC-123	177	259	2363	460	3	60	259	323	500	177

1- MULTISTAGE COMPRESOR 2- MAXIMUN SOUND PRESSURE -78 DBA 3- UNIT MOUNTED STARTER WITH DISCONNECT SWITCH. 4- WATER BOXES WITH FLANGED CONNECTIONS. 5- INSULATION ON EVAPORATOR & LOW TEMPERATURE SURFACES, 1" THK. FIELD APPLIED, CONTRACTOR SHALL FURNISH 6 oz CANVAS COVER W/BENJAMIN FOSTER 3036 LAGGING A DHESIVE TO INSULATION.

6- AMMETERS AND VOLTMETERS IN CONTROL PANEL

WATER SOFTENER SCHEDULE

GENERAL DATA							TANKS									SYSTEM										
UNIT NO.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	UNIT TYPE	UNIT WEIGHT	TANK SIZE	TANK AREA (SQ IN.)	FREEBOARD	BRINE TANK SIZE	INITIAL SALT FILL	TOTAL REGENERA-TION TIME	PIPE CONNECTIONS			OVERALL DIMENSIONS			SOFTENER QTY.	DESIGN FLOW (GPM)	CONTINOUS (GPM)FLOW	PEAK FLOW (GPM)	MIN. FLOW (GPM)	BACKWASH FLOW (GPM)	RECONDITIONING WATER (GALS.)	MAX. CAPACITY (KGR)	MIN. CAPACITY (KGR)	RESIN QUANTITY (CU. FT.)	SALT USAGE (LBS. REGEN.)	DESIGN SOFTENING RATE (GPM/SQ.FT.)	REMARKS
													INLET	OUTLET	DRAIN	WIDTH	DEPTH	HEIGTH												
WS-1	COOLING TOWERS	MECHANICAL ROOM	CULLIGAN	HS-452	DUPLEX	8,260	30"x54"	4.91	18"	30"x48"	1,200	70 MIN.	2"	2"	2"	102"	34"	80"	2	25 EA.	75 EA.	110 EA.	9.8	25	711	450	300	15	90	5.09	DUPLEX PARALLEL /TIMECLOCK

FURNISH WITH: ◯ 1 AUTOMATIC REGENERATION CONTROL ◯ 2 FULLY AUTOMATIC

CENTRIFUGAL PUMPS SCHEDULE

GENERAL DESCRIPTION						PUMP DATA						MOTOR DATA			ELECTRICAL DATA		
UNIT NO.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	TYPE	WATER QTY. (GPM)	TOTAL DYN HD (FEET)	IMPEL. DIA. (IN.)	PUMP EFF. (%)	CURVE NO.	MAX. SHUT-OFF (PSIG)	MAX. BHP	MIN. MOTOR HP	MOTOR SPEED	VOLTS	PHASE	HERTZ
P-1	EVAPORATOR CHILLER # 1	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 5X5X12L	FRAME MOUNTED DOUBLE SUCTION	600	125	11.125	73	5 X 5 X 12L	57.0	27.0	40	1750	480	3	60
P-2	EVAPORATOR CHILLER # 2	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 5X5X12L	FRAME MOUNTED DOUBLE SUCTION	600	125	11.125	73	5 X 5 X 12L	57.0	27.0	40	1750	480	3	60
P-3	EVAPORATOR CHILLER # 3	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 5X5X12L	FRAME MOUNTED DOUBLE SUCTION	600	125	11.125	73	5 X 5 X 12L	57.0	27.0	40	1750	480	3	60
P-4	SPARE TO P-1, P-2 & P-3	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 5X5X12L	FRAME MOUNTED DOUBLE SUCTION	600	125	11.125	73	5 X 5 X 12L	57.0	27.0	40	1750	480	3	60
P-5	CONDENSER CHILLER # 1	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 6X6X12L	FRAME MOUNTED DOUBLE SUCTION	750	85	10.0	79	6 X 6 X 12L	46.7	22	30	1750	480	3	60
P-6	CONDENSER CHILLER # 2	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 6X6X12L	FRAME MOUNTED DOUBLE SUCTION	750	85	10.0	79	6 X 6 X 12L	46.7	22	30	1750	480	3	60
P-7	CONDENSER CHILLER # 3	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 6X6X12L	FRAME MOUNTED DOUBLE SUCTION	750	85	10.0	79	6 X 6 X 12L	46.7	22	30	1750	480	3	60
P-8	SPARE TO P-5, P-6 & P-7	MAIN MECH. ROOM	ITT, BELL & GOSSETT	SERIES VSC SIZE 6X6X12L	FRAME MOUNTED DOUBLE SUCTION	750	85	10.0	79	6 X 6 X 12L	46.7	22	30	1750	480	3	60

FURNISH PUMPS WITH: ◯ 1 FRAME MOUNTED ON STEEL FRAME ◯ 2 MECHANICAL SEALS JOHN CRANE TYPE 1 ◯ 3 O.D.P. HIGH EFFICIENCY MOTOR ◯ 4 FLEXIBLE COUPLING ◯ 5 COUPLING GUARD ◯ 6 BRONZE FITTED

COOLING TOWERS SCHEDULE

GENERAL DATA					FAN DATA			CAPACITY DATA				MOTOR DATA		ELECTRICAL DATA		
TOWER NO.	MANUFACTURER	TOWER TYPE	MODEL NO.	OPERATING WEIGHT (POUNDS)	QTY.	TYPE	CFM	TOTAL COND. WATER (GPM)	WATER TEMP. IN °F	WATER TEMP. OUT °F	AMBIENT WET BULB °F	TOWER FAN HP.	MOTOR SPEED RPM	VOLTS	PHASE	HERTZ
CT-1	BALTIMORE AIRCOIL	INDUCED DRAFT	JE-341-2-KM	37,880	2	PROPELLER	198,800	1,125	97°	85°	80°	(2) 10	1750	480	3	60
CT-2	BALTIMORE AIRCOIL	INDUCED DRAFT	JE-341-2-KM	37,880	2	PROPELLER	198,800	1,125	97°	85°	80°	(2) 10	1750	480	3	60

FURNISH TOWER WITH: ◯ 1 T.E.F.C. HIGH EFFICIENCY MOTOR, ALUMINUM ALLOY BLADES ◯ 2 METAL PARTS SHALL BE OF STAINLESS STEEL CONSTRUCTION (TYPE 304). ◯ 3 ALL NUTS AND BOLTS SHALL BE OF STAINLESS STEEL CONSTRUCTION
◯ 4 F.R.P. PANELS, INLET LOUVERS & DISTRIBUTION BASIN. ◯ 5 V-BELT DRIVES ◯ 6 SAFETY CAGE ◯ 7 ACCESS LADDER (OSHA APPROVED) ◯ 8 FAN OUTLET GUARD ◯ 9 P.V.C. FILL
◯ 10 FURNISH A REPLACEMENT PARTS PACKAGE CONSISTING OF: ◯ 11 EXTENDED LUBRICATION LINES. ◯ 12 FACTORY FURNISHED VIBRATION ISOLATION PACKAGE. ◯ 13 VIBRATION CUT-OUT SWITH.
A- TWO SPARE SETS OF V-BELTS
B- SPARE STRAINER
C- REPLACEMENT WASHER FOR MAKE-UP VALVE
D- SPARE NUTS & BOLTS.

AIR DISTRIBUTION SCHEDULE

DIFFUSER NO.	MANUFACTURER	MODEL NO.	TYPE	NECK SIZE	FACE PLATE SIZE	CFM	PATTERN	REMARKS
1	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	6" x 6"	24" x 24"	100	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
2	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	6" x 6"	24" x 24"	100	3 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
3	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	6" x 6"	24" x 24"	100	2 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
4	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	6" x 6"	24" x 24"	100	1 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
5	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	9" x 9"	24" x 24"	150 - 200	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
6	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	9" x 9"	24" x 24"	150 - 200	3 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
7	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	9" x 9"	24" x 24"	150 - 200	2 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
8	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	9" x 9"	24" x 24"	150 - 200	1 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
9	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	12" x 12"	24" x 24"	250 - 350	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
10	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	12" x 12"	24" x 24"	250 - 350	3 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
11	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	12" x 12"	24" x 24"	250 - 350	2 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
12	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	12" x 12"	24" x 24"	250 - 350	1 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
13	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	15" x 15"	24" x 24"	400 - 600	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
14	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	15" x 15"	24" x 24"	400 - 600	3 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
15	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	18" x 18"	24" x 24"	650 - 900	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
16	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	18" x 18"	24" x 24"	650 - 900	4 WAY	O.B.D. SQUARE TO ROUND ADAPTER ALL ALUMINUM CONST., LAY IN TYPE.
17	METAL AIRE	SERIES 7000/PRTB	RETURN AIR GRILLE	24" x 24"	24" x 24"	VARIES	RETURN	LAY IN TYPE
18	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	6" x 6"	9" x 9"	0 - 100	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
19	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	8" x 8"	11 x 11"	125 - 175	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
20	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	10" x 10"	13" x 13"	200 - 275	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
21	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	12" x 12"	15" x 15"	300 - 400	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
22	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	18" x 18"	21" x 21"	425 - 900	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
23	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	21" x 21"	24" x 24"	950 - 1500	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
24	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	24" x 24"	27" x 27"	1550 - 2000	RETURN / EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION
25	METAL AIRE	SERIES 6050	LINEAR SUPPLY/RETURN	2 SLOT	4'-0" LONG	AS SHOWN	AS SHOWN	INSULATED SUPPLY PLENUM PATTERN CONTROL, VOLUME CONTROL
26	METAL AIRE	SERIES 6050	LINEAR SUPPLY/RETURN	2 SLOT	5'-0" LONG	AS SHOWN	AS SHOWN	INSULATED SUPPLY PLENUM PATTERN CONTROL, VOLUME CONTROL
27	METAL AIRE	VHD	SUPPLY/RETURN REGISTER	36" x 6"	38" x 8"	AS SHOWN	SUPPLY/RETURN	O.B.D. ALL ALUMINUM CONSTRUCTION
28	METAL AIRE	VHD	SUPPLY/RETURN REGISTER	18" x 6"	20" x 8"	AS SHOWN	SUPPLY RETURN	O.B.D. ALL ALUMINUM CONSTRUCTION
29	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	48" x 24"	48" x 24"	400 CFM	AS SHOWN	O.B.D. ALL ALUMINUM CONST., LAY IN TYPE.
30	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	18" x 18"	24" x 24"	1200	4 WAY	O.B.D. ALL ALUMINUM CONST., LAY IN TYPE.
31	METAL AIRE	SERIES 7000-6	PERFORATED FACE CEILING DIFFUSER.	12" x 12"	24" x 24"	400	2 WAY	O.B.D. ALL ALUMINUM CONSTRUCTION
32	METAL AIRE	RHD	RETURN/EXHAUST GRILLE	24" x 24"	27" x 27"	2800	RETURN/EXHAUST	O.B.D. ALL ALUMINUM CONSTRUCTION

NOTE: COLOR OF ALL AIR DISTRIBUTION SHALL BE AS SELECTED BY ARCHITECT.

FAN SCHEDULE

GENERAL DATA						FAN DATA				MOTOR DATA			ELECTRICAL DATA		
UNIT NO.	SERVICE	FAN TYPE	MANUFACTURER	MODEL NO.	REMARKS	CFM	S.P.W.G. (IN.)	FAN SPEED RPM	WHEEL DIAMETER (IN.)	B.H.P.	MINIMUM MOTOR HP	MOTOR SPEED RPM	VOLTS	PHASE	HERTZ
F-001	ELECTRICAL ROOM VENTILATOR	SQUARE CENTRIFUGAL INLINE	LOREN COOK	165SQ10D	1,3,4,10	1,800	0.38	875	16.5	0.23	.334	875	115	1	60
F-002	GENERATOR ROOM VENTILATOR	DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	195C 7B	1,2,4,5,6,7,8,11	4,400	.025	996	19.5	0.82	1	1,750	480	3	60
F-003	BASEMENT KITCHEN VENTILATOR	GEMINI INLINE BLOWERS	LOREN COOK	GN-740	1,3,4,10	500	0.50	1,336	6.31	161 (WATTS)	.25	1,336	115	1	60
F-004	MAIN MECHANICAL ROOM VENTILATOR	DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	300C 9B	1,2,4,5,6,7,8,11	8,400	0.38	564	30	1.51	2	1,750	480	3	60
F-005	KITCHEN HOOD VENTILATORS	UPBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	165VH 6B	1,2,3,5,6,7,8,11	1,800	1.25	1,532	16.5	0.70	.75	1,750	115	1	60
F-006	KITCHEN HOOD VENTILATORS	UPBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	165VH 6B	1,2,3,5,6,7,8,11	1,800	1.25	1,532	16.5	0.70	.75	1,750	115	1	60
F-007	SANDWICH UNIT #2	UPBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	165VH 6B	1,2,3,5,6,7,8,11	1,500	1.33	1,479	16.5	0.62	.75	1,750	115	1	60
F-008	KITCHEN SUPPLY FAN	FILTERED KITCHEN SUPPLY VENTILATOR	LOREN COOK	150KSP-B	1,2,7,8,9,10,11	3,200	0.50	567	16.5	0.81	1	1,750	480	3	60
F-101	GROUND FLOOR WHIRLPOOLS	SQUARE CENTRIFUGAL INLINE	LOREN COOK	135SQ10D	1,3,4,10	800	0.50	1,051	13.5	0.15	.167	1,051	115	1	60
F-102	GROUND FLOOR EMPLOYEE'S ROOM	SQUARE CENTRIFUGAL INLINE	LOREN COOK	165SQ10D	1,3,4,10	1,600	0.50	875	15.0	0.24	.334	875	115	1	60
F-103	GROUND FLOOR TOILETS EXHAUST	GEMINI INLINE BLOWERS	LOREN COOK	GN-420	1,3,4,10	200	0.50	1,070	6.31	130 (WATTS)	.05	1,070	115	1	60
F-104	SECRETARY AREA TOILETS	GEMINI INLINE BLOWERS	LOREN COOK	GN-520	1,3,4,10	200	0.38	879	6.31	43 (WATTS)	.062	879	115	1	60
F-105	X-RAY AREAS EXHAUST	GEMINI INLINE BLOWERS	LOREN COOK	GN-820	1,3,4,10	650	0.50	640	6.31	.12	.334	640	115	1	60
F-106	BOIMEDICAL WASTE	UPBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	100R15DM	1,2,3,6,7,8,11	200	0.75	1,569	10	98 (WATTS)	.125	1,569	115	1	60
F-107	GROUND FLOOR TOILETS EXHAUST	DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	100C 3B	1,2,3,6,7,8,11	850	0.75	1,755	10	.25	.33	1,750	115	1	60
F-401 TO F-404	STAIRWELL SUPPLY	CENTRI-PAC CENTRIFUGAL BLOWER	LOREN COOK	225 CPA	1,2,7,8,9,10,11	6,000	0.50	1,064	2.25	1.64	2	1,750	480	3	60
F-405	TOILETS VENTILATION	DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR	LOREN COOK	300C 8B	1,2,3,6,7,8,11	7,300	0.50	538	30	1.38	1.5	1,750	480	3	60

REMARKS: 1 ALL ALUMINUM CONSTRUCTION 2 ROOF CURB 3 DISCONNECT SWITCH 4 SPEED CONTROL 5 BIRD SCREEN 6 BACKDRAFT DAMPER 7 ADJUSTABLE DRIVES 8 BELT GUARD 9 INLET GUARD 10 ACCESS DOOR 11 WEATHER HOOD

GENERAL NOTES:

1. ALL AIR CONDITIONING & VENTILATION DUCTS SHALL BE OF SHEETMETAL CONTRUCTION MANUFACTURED AND INSTALLED IN COMPLETE ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE ASHRAE GUIDE AND DATA BOOK.
2. ALL SHEETMETAL DUCTWORK SEAMS & JOINTS MUST BE SEALED WITH HIGH PRESSURE DUCT SEALER AS MANUFACTURED BY MINNESOTA MINING & MANUFACTURING CO. MODEL EC-800 OR APPROVED EQUAL. AIR LEAKS MUST BE 2% OR LESS. TEST DUCTWORK BEFORE FINAL CONNECTION TO AHU'S & AIR DISTRIBUTION.
3. ALL CONCEALED AIR CONDITIONING DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" FIBERGLASS BLANKET INSULATION WITH REINFORCED FOIL FACING. INSULATION SHALL BE 0.75 PCF AND SHALL HAVE A MINIMUM INSTALLED R VALUE OF 5.0
4. FOR EXACT LOCATION OF CEILING DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
5. THIS CONTRACTOR MUST FURNISH & INSTALL A U.L. APPROVED FIRE DAMPER WITH 10 GAUGE METAL SLEEVE AND DUCT ACCESS DOOR WHERE SHOWN ON DRAWINGS, AS REQUIRED BYM LOCAL BUILDING CODES, OR AS REQUIRED BY N.F.P.A. OR N.B.F.U. FIRE DAMPERS TO BE CURTAIN TYPE AS MANUFACTURED BY RUSKIN MODEL IBD2 STYLE C OR APPROVED EQUAL.
6. ALL O.D.B.'S SHALL BE MULTIBLADE OPPOSSED BLADE CONTROL DAMPER AS MANU-FACTURED BY RUSKIN MODEL CD-50 OR APPROVED EQUAL.
7. THIS CONTRACTOR MUST FURNISH ALL EXTRUDED ALUMINUM DOOR LOUVERS SHOWN ON THESE DRAWINGS TO THE GENERAL CONTRACTOR WHO WILL INSTALL THEM IN THE RESPECTIVE DOOR.
8. ALL EXPOSED AIR CONDITIONING DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1" RIGID FIBERGLASS INSULATION WITH REINFORCED FOIL FACING. INSULATION SHALL BE 1.5 PCF AND SHALL HAVE A MINIMUM INSTALLED R VALUE OF 5.0
9. ALL CHILLED & CONDENSER WATER PIPING SHALL BE BLACK STEEL SCHEDULE 40 ASTM A-53 ,UP TO 2" SCREWED AND 2 1/2" AND LARGER WELDED . ALL PIPING & FITTINGS SHALL BE MANUFACTURED IN U.S.A. ALL VALVES AND FITTINGS SHALL BE 150 P.S.I. O.W.P. SEE SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.
10. ALL ROUND AIR CONDITIONING DUCKWORK AND FITTINGS BE GALVANIZED DOUBLE WALL SPIRAL LOCKSEAM CONTRUCTION AS MANUFACTURED BY UNITED MCGILL CORPORATION "ACOUSTI-K27" WITH PERFORATED INNER LINER AND 1" FIBERGLASS INSULATION SANDWICHED BETWEEN PANELS. DUCTWORK TO DUCTWORK OR DUCTWORK TO FITTING JOINTS SHALL BE DONE WITH DOUBLE WALL COUPLINGS, ALL CONNECTIONS MUST BE PROVIDED WITH BOLTED FLANGED JOINT CONNECTIONS. ALL INSTALLATION SHALL COMPLY WITH THE MANUFACTURERS RECOMMENDATION. ALL DUCT SHALL BE WITH UNITED SHEETMETAL "UNITED DUCT SEALER".
11. ALL ROUND DUST COLLECTOR AND LOW PRESSURE AIR DUCYWORK FOR PRESS SERVICES SHALL BE GALVANIZED SPIRAL LOCKSEAM SINGLE WALL WITH STANDING RIB CONSTRUCTION. AS MANUFACTURED BY UNITED MCGILL "UNI RIB" DUCTWORK SHALL BE INSTALLED USING THE FLANGED JOINT CONSTRUCTION. PROCEDURE , SLIP JOINT CONNECTORS MUST BE PROVIDED IN ADDITION TO THE FLANGES . ALL INSTALLATION SHALL COMPLY WITH THE MANUFACTURES RECOMMENDATIONS.ALL DUCTWORK SHALL BE SEALED WITH UNITED SHEETMETAL "UNITED DUCT SEALER".
12. INSULATE CHILLED WATER PIPING WITH TRYMER 9501 POLYSOCYANURATE INSULATION WITH FIBERGLASS REINFORCED FOIL JACKET. INSULATION FOR PIPES UP TO 4" SHALL BE 1«". FOR PIPES 5" AND UP INSULATION SHALL BE 2"THICK. COVER ALL PIPE INSULATION INSIDE MECHANICAL ROOM AND AHU ROOMS WITH 6" OUNCES CANVAS ADHERED & WITH BENJAMIN FOSTER 3036. ALL FINISHED PIPE INSULATION SHALL BE PAINTED WITH TWO COATS OF ENAMEL FINISH PAINT AND BE LABELED WITH TYPE OF SERVICE AND DIRECTION OF FLOW. ALL PIPING INSULATION EXPOSED TO AMBIENT SHALL BE FINISHED WITH 0.016" ALUMINUM JACKET SIMILAR TO JOHN'S MANVILE "METAL ON" SECURED WITH «" STAINLESS STEEL STRAPS EVERY 12" C.C. ALL FITTINGS SHALL BE FINISHED WITH TWO COATS OF GLASSFAB AND BENJAMIN FOSTER 60-25 WEATHERPROOFING MASTIC. ALL EXTERIOR PIPING SHALL BE LABELED FOR SERVICE AND DIRECTION OF FLOW.
13. AFTER THE INSTALLATION OF PIPING AND BEFORE APPLYING INSULATION, THE CONTRACTOR MUST CLEAN ALL PIPING THOUROGHLY AND APPLY TWO COATS OF ANTICORROSION PAINT AS MANUFACTURED BY PORTER # 7100.
14. ALL EQUIPMENT UNDER THIS SECTION MUST MOUNTED ON 4" THICK CONCRETE BASES AND SPRING TYPE VIBRATION ISOLATORS WITH A MINIMUM OF 2" DEFLECTION. VIBRATION ISOLATORS MUST BE TREATED AS FOLLOWS: ALL STEEL PARTS TO BE HOT DIP GALVANIZED, ALL BOLTS & NUTS CADMIUM PLATED AND ALL SPRINGS CADMIUM PLATED AND NEOPRENE COATED.
15. THIS CONTRACTOR MUST MAKE FINAL CITY WATER CONNECTION TO CHILLED WATER EXPANSION TANK FROM A VALVE LOCATED 10'-0" FROM THE TANK LOCATION . ALSO, IT SHALL MAKE FINAL CONDENSATE DRAIN CONNECTION FROM EACH FCU AND OR EACH AHU TO NEAREST DRAIN LOCATION.
16. THIS CONTRACTOR MUST MAKE ELECTRICAL CONNECTION TO ALL THE EQUIPMENT FURNISHED UNDER THIS SCOPE OF WORK. FROM A DISCONNECT SWITCH FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR, LOCATED 5'-0" FROM EACH MOTOR. ALSO, IT SHALL FURNISH ALL NECESSARY CONTROL WIRING.
17. ELECTRICAL CONTRACTOR MUST FURNISH ALL MOTOR STARTERS NEEDED FOR HIS EQUIPMENT, WITH A.H.O.A. SWITCH AND PILOT LIGHT.
18. WHEN PROJECT GETS COMPLETED, AND BEFORE FINAL INSPECTION, THIS CONTRACTOR MUST ENGAGE THE SERVICES OF A PROFESSIONAL BALANCER, TO PERFORM WATER AND AIR BALANCING OF ALL SYSTEMS. SUBMITT THREE COPIES OF BALANCING DATA TO ARCHITECT & ENGINEER FOR APPROVAL PRIOR TO FINAL INSPECTION.
19. THIS CONTRACTOR MUST INSPECT PROJECT SITE AND MUST COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO SUBMITTING HIS PROPOSAL FOR THIS WORK. AFTER CONTRACT GETS AWARDED, NO EXTRAS WILL BE ALLOWED FOR COORDINATION OF FOR PROJECT SITE CONDITIONS.
20. ALL PIPING MUST BE AMERICAN MAUFACTURED. TEST ALL PIPING FOR A PERIOD NOT LESS THAN 24 HRS. ALL PIPES TEST MUST BE WITNESSED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
21. CONTRACTOR MUST INSTALL AUTOMATIC AIR VENTS AT THE HIGH POINTS OF EACH SYSTEM AND AS REQUIRED FOR PROPER AIR ELIMINATION. RUN DICHARGE OF AIR VENTS TO NEAREST DRAIN.
22. AFTER INSTALLATION ALL EQUIPMENT SHALL BE PAINTED WITH TWO COATS OF P.P.G. SYSTEM 190 H.D. AQUAPON RUST PREVENTIVE PAINT TO PREVENT CORROSION. COLOR TO BE SELECTED BY ARCHITECT.
23. INSULATE CHILLED WATER PIPING WITH TRYMER 9501 POLYSOCYANURATES W/FRJ 1 «" THICK UP TO 4" AND 2" THICK, 6" AND UP. COVER ALL PIPE INSULATION INSIDE MECHANICAL ROOM AND AHU ROOMS WITH 6" OUNCES CANVAS ADHERED & WITH BENJAMIN FOSTER 3036. ALL REHEAT PIPING MUST BE INSULATED THE SAME WAY. ALL FINISHED PIPE INSULATION TO BE LABELED WITH TYPE OF SERVICE AND DIRECTION OF FLOW.

A.C.C. ARCHITECTS, P.S.C.

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SCHEDULES, LEGEND AND GENERAL NOTES

NOT TO SCALE

IMPORTANT NOTE FOR CONTRACTOR

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS. CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE ANY P

AIR HANDLING UNITS SCHEDULE

UNIT NO.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	UNIT TYPE / ARR.	REMARKS	TOTAL AIR (CFM)	OUTSIDE AIR (CFM)	OUTLET VEL. (FPM)	EXTER. STATIC PRESS. (IN WG.)	TOTAL STATIC PRESS. (IN WG.)	FAN TYPE / FAN DIA.	FAN SPEED RPM	UNIT WEIGHT LBS. (DRY)	MOTOR DATA MIN. MOTOR HP	MOTOR DATA RPM	MOTOR DATA MAX. BHP REQ'D.	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PHASES	ELECTRICAL DATA HERTZ	HEAT TRANSFER CHARACTERISTICS TOTAL (BTUH)	HEAT TRANSFER CHARACTERISTICS SENSIBLE (BTUH)	CFM	NO. OF COILS	TOTAL FACE AREA	EA. COIL HEIGHT / WIDTH	MAX. AIR VEL. (FPM)	ROWS	FINS. PER / FT.	FIN TYPE	APD. TYPE IN H Ø	CHILLED WATER MAX. P.D. FT H Ø	CHILLED WATER GPM	CHILLED WATER ENT. °F / LVG. °F	TYPE OF COILS	ENT AIR DB °F / WB °F	LVG AIR DB °F / WB °F
AHU-001	CAFETERIA	BASEMENT A/C ROOM	TRANE CO.	MCLCH08	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	3,500	650	1842	1.5	3.33	FC 12	1553	1054	5.0	1,750	3.06	480	3	60	130,300	90,500	3,500	1	7.54	31 / 48	464	6	112	TF	.61	3.07	18.6	43 / 57	UW	77.78 / 66.2	54.3 / 54.0
AHU-002	EMPLOYEES GYM.	BASEMENT A/C ROOM	TRANE CO.	MCLCH06	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	2,500	500	1773	1.5	3.13	FC 10	1757	894	3.0	1,750	2.06	480	3	60	98,400	65,500	2,500	1	5.86	27.25 / 44	427	6	114	TF	.55	2.27	14.1	43 / 57	UW	78.0 / 66.8	54.3 / 54.0
AHU-003	BASEMENT OFFICE AREA	BASEMENT A/C ROOM	TRANE CO.	MCLCH17	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	8,650	1,300	2089	1.5	3.39	FC 18	1016	1948	10.0	1,750	7.61	480	3	60	316,000	220,100	8,650	1	16.80	44 / 74	515	6	136	TF	.76	4.62	45.1	43 / 57	UW	77.25 / 66.0	54.2 / 54.0
AHU-004	BASEMENT STORAGE	BASEMENT A/C ROOM	TRANE CO.	MCLCH21	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	10,800	1,600	2139	1.5	3.33	FC 20	936	2168	15.0	1,750	9.62	480	3	60	394,600	271,100	10,800	1	20.78	48.50 / 76	520	6	106	TF	.72	11.5	56.4	43 / 57	UW	77.22 / 66.0	54.5 / 54.0
AHU-005	MRI ROOM	BASEMENT A/C ROOM	TRANE CO.	MCLCH06	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	2,250	350	1596	1.5	2.95	FC 10	1698	859	2.0	1,750	1.72	480	3	60	83,000	57,000	2,250	1	5.86	27.25 / 44	384	6	103	TF	.44	1.72	11.9	43 / 57	UW	77.33 / 66.1	54.4 / 54.4
AHU-006	MEETING ROOM	BASEMENT A/C ROOM	TRANE CO.	MCLCH06	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	3,900	600	2053	1.5	3.85	FC 12	1674	1099	5.0	1,750	3.99	480	3	60	156,200	103,300	3,900	1	7.54	31 / 48	517	8	131	TF	1.01	2.27	22.3	43 / 57	UW	78.1 / 67.0	54.1 / 54.0
AHU-101	GROUND FLOOR QUADRANT "A"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	16,500	2,500	2452	1.5	3.30	FC 25	723	4083	15.0	1,750	13.75	480	3	60	608,700	471,900	16,500	2	34.14	62 / 96	483	6	115	TF	.66	8.14	87	43 / 57	UW	77.3 / 66.1	54.3 / 54.0
AHU-102	GROUND FLOOR QUADRANT "A"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	17,400	2,600	2585	1.5	3.41	FC 25	735	4122	20.0	1,750	15.2	480	3	60	635,800	440,100	17,400	2	34.14	62 / 96	510	6	118	TF	.72	8.8	90.8	43 / 57	UW	77.25 / 66.0	54.3 / 54.0
AHU-103	GROUND FLOOR QUADRANT "B"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH08	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	3,450	500	1816	1.5	3.30	FC 12	1544	1035	5.0	1,750	2.98	480	3	60	123,600	86,800	3,450	1	7.54	31 / 48	457	6	110	TF	.59	2.83	17.7	43 / 57	UW	77.2 / 65.8	54.4 / 54.0
AHU-104	GROUND FLOOR QUADRANT "B"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH10	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	4,450	650	1926	1.5	3.16	FC 13	1322	1296	5.0	1,750	3.61	480	3	60	159,500	111,700	4,450	1	9.64	34 / 60	461	6	104	TF	.59	5.08	22.8	43 / 57	UW	77.2 / 65.8	54.4 / 54.0
AHU-105	GROUND FLOOR QUADRANT "B"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH17	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	8,650	1,300	2089	1.5	3.39	FC 18	1016	1948	10.0	1,750	7.61	480	3	60	316,000	220,100	8,650	1	16.80	44 / 74	515	6	136	TF	.76	4.62	45.1	43 / 57	UW	77.25 / 66.0	54.2 / 54.0
AHU-106	GROUND FLOOR QUADRANT "B"	GROUND FLOOR A/C ROOM	TRANE CO.	MCLCH17	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	8,750	1,750	2114	1.5	3.57	FC 18	1040	2002	10.0	1,750	8.06	480	3	60	344,300	229,300	8,750	1	16.80	44 / 74	521	8	95	TF	.93	6.64	49.2	43 / 57	UW	78 / 66.8	54.3 / 54.0
AHU-201	SECOND FLOOR QUADRANT "A"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	16,850	2,500	2504	1.5	3.34	FC 25	727	4083	20.0	1,750	14.25	480	3	60	609,800	425,400	16,850	2	34.14	62 / 96	494	6	115	TF	.68	8.16	87.1	43 / 57	UW	77.22 / 65.9	54.3 / 54.0
AHU-202	SECOND FLOOR QUADRANT "A"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	18,450	2,750	2741	1.5	3.67	FC 25	765	4260	20.0	1,750	17.41	480	3	60	661,300	462,200	18,450	2	34.14	62 / 96	540	8	79	TF	.93	5.74	94.5	43 / 57	UW	77.23 / 65.8	54.5 / 54.0
AHU-203	SECOND FLOOR QUADRANT "B"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH21	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	9,450	1,400	1871	1.5	3.09	FC 20	891	2134	10.0	1,750	7.50	480	3	60	338,700	236,200	9,450	1	20.78	48.50 / 76	455	6	96	TF	.57	8.89	48.4	43 / 57	UW	77.22 / 65.50	54.6 / 54.0
AHU-204	SECOND FLOOR QUADRANT "B"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH21	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	9,400	1,400	1861	1.5	3.11	FC 20	894	2174	10.0	1,750	7.51	480	3	60	336,800	238,500	9,400	1	20.78	48.50 / 76	452	6	124	TF	.6	3.52	48.1	43 / 57	UW	77.23 / 65.8	54.2 / 54.0
AHU-205	SECOND FLOOR QUADRANT "B"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH10	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	4,500	700	1948	1.5	3.18	FC 13	1328	1297	5.0	1,750	3.70	480	3	60	166,000	113,800	4,500	1	9.64	34 / 60	467	6	107	TF	.61	5.43	23.7	43 / 57	UW	77.33 / 66.1	54.4 / 54.0
AHU-206	SECOND FLOOR QUADRANT "B"	SECOND FLOOR A/C ROOM	TRANE CO.	MCLCH14	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	7,000	1,050	2065	1.5	3.25	FC 16	1102	1673	7.5	1,750	5.94	480	3	60	253,300	176,000	7,000	1	14.22	40 / 68	492	6	105	TF	.66	7.75	36.2	43 / 57	UW	77.25 / 65.9	54.5 / 54.0
AHU-301	THIRD FLOOR QUADRANT "A"	THIRD FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	18,350	2,750	2727	1.5	3.66	FC 25	763	4259	20.0	1,750	17.22	480	3	60	657,700	459,800	18,350	2	34.14	62 / 96	537	8	79	TF	.92	5.69	94	43 / 57	UU	77.24 / 65.8	54.5 / 54.0
AHU-302	THIRD FLOOR QUADRANT "A"	THIRD FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	17,350	2,600	2578	1.5	3.40	FC 25	734	4120	20.0	1,750	15.01	480	3	60	621,800	438,300	17,350	2	34.14	62 / 96	508	6	117	TF	.71	8.46	88.8	43 / 57	UW	77.24 / 65.8	54.3 / 54.0
AHU-303	THIRD FLOOR QUADRANT "B"	THIRD FLOOR A/C ROOM	TRANE CO.	MCLCH14	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	7,000	1,000	2565	1.5	3.24	FC 16	1101	1672	7.5	1,750	5.93	480	3	60	246,000	174,800	7,000	1	14.22	40 / 68	492	6	103	TF	.65	7.37	35.1	43 / 57	UW	77.15 / 65.6	54.5 / 54.0
AHU-304	THIRD FLOOR QUADRANT "B"	THIRD FLOOR A/C ROOM	TRANE CO.	MCLCH35	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	16,600	2,500	2467	1.5	3.31	FC 25	723	4082	20.0	1,750	13.87	480	3	60	606,500	420,000	16,600	2	34.14	62 / 96	486	6	115	TF	.66	8.08	86.6	43 / 57	UW	77.26 / 66.0	54.3 / 54.0
AHU-305	THIRD FLOOR QUADRANT "B"	THIRD FLOOR A/C ROOM	TRANE CO.	MCLCH21	H.D.T. / TPFT	1,2,3,5,6,8,10,13 14,15,16,17,20	9,150	1,350	1812	1.5	3.10	FC 20	890	2152	10.0	1,750	7.22	480	3	60	360,300	232,800	9,150	1	20.78	48.50 / 76	440	6	128	TF	.6	3.97	51.5	43 / 57	UW	77.21 / 66.88	54.2 / 54.0
AHU-401	FOURTH FLOOR QUADRANT "B"	FOURTH FLOOR MECH. ROOM	TRANE CO.	MCC 30	V.D.T. / TPFT	1,2,3,5,7,8,10,11 13,14,15,16,17	13,450	1800	2607	0.85	2.38	FC30B 22.38	767	3,041	1.5	1,750	12.1	460	3	60	383,900	305,900	13,450	1	29	---- / ----	464	4	124	DFH	.41	3.21	54.84	45 / 59	UW	80.30 / 57.60	59.70 / 58.80
AHU-402	FOURTH FLOOR QUADRANT "B"	FOURTH FLOOR MECH. ROOM	TRANE CO.	MCC 12	V.D.T. / TPFT	1,2,3,5,7,8,9,10,11 13,14,15,16,17	5,700	800	2036	0.85	2.61	FC12B 15.00	1168	1,638	7.5	1,750	5	460	3	60	167,700	131,500	5,700	1	12.3	---- / ----	463	4	106	DFH	.38	3.06	23.95	45 / 59	UW	80.60 / 57.50	59.70 / 58.10
AHU-403	FOURTH FLOOR QUADRANT "A"	FOURTH FLOOR MECH. ROOM	TRANE CO.	MCC 30	V.D.T. / TPFT	1,2,3,5,7,8,9,10,11 13,14,15,16,17	13,300	1,600	2578	0.85	2.32	FC30B 22.38	757	3,060	1.5	1,750	11.6	460	3	60	338,100	273,200	13,300	1	29	---- / ----	459	4	100	DFH	.36	2.55	48.3	45 / 59	UW	80.10 / 57.80	61.5 / 59.50
AHU-404	FOURTH FLOOR QUADRANT "A"	FOURTH FLOOR MECH. ROOM	TRANE CO.	MCC 21	V.D.T. / TPFT	1,2,3,5,7,8,9,10,11 13,14,15,16,17	9,275	1,000	1837	0.85	2.28	FC21B 20.00	819	2,338	7.5	1,750	7.2	460	3	60	231,500	208,700	9,275	1	20.8	---- / ----	446	4	132	DFH	.38	1.39	33.07	45 / 59	UW	80.10 / 66.70	59.7 / 57.80

REMARKS:
1. GALVANIZED MODULAR CONSTRUCTION
2. SINGLE WALL CONSTRUCTION WITH 3 POUND DENSITY VINYL COATED INSULATION
3. MIXING BOX SECTION
4. FLAT FILTER SECTION WITH 4" FILTERS
5. BAG. CARTRIDE FILTER SECTION
6. MEDIUM HORIZONTAL COIL SECTION
7. VERTICAL COIL SECTION
8. HORIZONTAL FAN SECTION
9. SMALL ACCESS SECTION
10. ADJUSTABLE BELT DRIVES
11. UNIT MOUNTED CONTROLS AT FACTORY
12. INLET GUIDE VANES WITH DDC ACTUATOR
13. INTERNAL VIBRATION ISOLATION PACKAGE
14. HIGH EFFICIENCY O.D.P. MOTOR
15. NON OVERLOADING FAN MOTORS
16. I.A.Q. STAINLESS STEEL DRAIN PAN
17. ALL SECTION WITH SIDE ACCESS DOORS.
18. ROOF CURB.
19. RAIN HOOD.

AIR CONDITIONING LEGEND

ITEM	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
D.L.	DOOR LOUVER
O.B.D.	OPPOSED BLADE DAMPER
C.D.	CEILING DIFUSSER
F.A.I.	FRESH AIR INTAKE
R.A.R.	RETURN AIR REGISTER
R.A.G.	RETURN AIR GRILLE
M.D.	MOTORIZED DAMPER
AHU-	AIR HANDLING UNIT
EF-	EXHAUST FAN
CU-	CONDENSING UNIT
CT-	COOLING TOWER
P-	PUMP
E.R.	EXHAUST REGISTER
F.D.	FIRE DAMPER
R.A.	RETURN AIR
DN.	DOWN
F.L.D.	FULL LOUVERED DOOR
	DOOR UNDERCUT
D.G.	DOOR GRILLE
G.V.	GATE VALVE
T	THERMOSTAT
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER RETURN
CWR	CONDENSER WATER RETURN
S.D.	SMOKE DETECTOR

AIR FILTERS SCHEDULE

DESIG.	SERVICE	MANUFACTURER	MODEL NO.	CFM	CASING SECTIONS DIMS. (MIN.) W. x H. x D.	PRE - FILTER QTY.	PRE - FILTER SIZE	PRE - FILTER EFF. %	PRE - FILTER MODEL	PRE - FILTER INITIAL A.P.D. IN H.O	PRE - FILTER FINAL A.P.D. IN H.O	FINAL FILTER QTY.	FINAL FILTER SIZE	FINAL FILTER EFF. %	FINAL FILTER MODEL	FINAL A.P.D. IN H.O	INITIAL A.P.D. IN H.O	FACE VEL. (F.P.M.)	FACE AREA SQ.FT.
AF-001	AHU-001	AMERICAN AIR FILTER	BAG FILTER SECTION	3500	BY TRANE CO.	2	20" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	2	20" x 25" x 37"	85%	DRI-PAK	0.65	1.0	522	6.7
AF-002	AHU-002	AMERICAN AIR FILTER	BAG FILTER SECTION	2500	BY TRANE CO.	2	20" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	2	20" x 20" x 37"	85%	DRI-PAK	0.65	1.0	446	5.6
AF-003	AHU-003	AMERICAN AIR FILTER	BAG FILTER SECTION	8650	BY TRANE CO.	4 / 2	20" x 20" x 2" / 20" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 2	20" x 20" x 37" / 20" x 25" x 37"	85%	DRI-PAK	0.65	1.0	517	16.7
AF-004	AHU-004	AMERICAN AIR FILTER	BAG FILTER SECTION	10800	BY TRANE CO.	4 / 4	20" x 20" x 2" / 16" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 4	20" x 20" x 37" / 16" x 20" x 37"	85%	DRI-PAK	0.65	1.0	490	22.0
AF-005	AHU-005	AMERICAN AIR FILTER	BAG FILTER SECTION	2250	BY TRANE CO.	2	20" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	2	20" x 20" x 37"	85%	DRI-PAK	0.65	1.0	401	5.6
AF-006	AHU-006	AMERICAN AIR FILTER	BAG FILTER SECTION	3900	BY TRANE CO.	2	20" x 24" x 2"	40%	AM-AIR 300X	.15	0.6	2	20" x 24" x 37"	85%	DRI-PAK	0.65	1.0	696	5.6
AF-101	AHU-101	AMERICAN AIR FILTER	BAG FILTER SECTION	16500	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	537	30.7
AF102	AHU-102	AMERICAN AIR FILTER	BAG FILTER SECTION	17400	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	566	30.7
AF-103	AHU-103	AMERICAN AIR FILTER	BAG FILTER SECTION	3450	BY TRANE CO.	2	20"X 25" X 2"	40%	AM-AIR 300X	.15	0.6	2	20" X 25" X 37"	85%	DRI-PAK	0.65	1.0	514	6.7
AF-104	AHU-104	AMERICAN AIR FILTER	BAG FILTER SECTION	4450	BY TRANE CO.	2 / 1	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	2 / 1	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	478	9.3
AF-105	AHU-105	AMERICAN AIR FILTER	BAG FILTER SECTION	8650	BY TRANE CO.	4 / 2	20" x 20" x 2" / 20" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 2	20" x 20" x 37" / 20" x 25" x 37"	85%	DRI-PAK	0.65	1.0	517	16.7
AF-106	AHU-106	AMERICAN AIR FILTER	BAG FILTER SECTION	8750	BY TRANE CO.	4 / 2	20" x 20" x 2" / 20" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 2	20" x 20" x 37" / 20" x 25" x 37"	85%	DRI-PAK	0.65	1.0	523	16.7
AF-106a	AHU-106	AMERICAN AIR FILTER	BAG FILTER SECTION	8,750	BY TRANE CO.	4 / 2	20" x 20" x 2" / 20" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 2	20" x 20" x 37" / 20" x 25" x 37"	85%	DRI-PAK	0.65	1.0	523	16.7
AF-201	AHU-201	AMERICAN AIR FILTER	BAG FILTER SECTION	16,850	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	548	30.7
AF-202	AHU-202	AMERICAN AIR FILTER	BAG FILTER SECTION	18,450	BY TRANE CO.	6 / 4	20" x 20" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 20" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	600	30.7
AF-203	AHU-203	AMERICAN AIR FILTER	BAG FILTER SECTION	9,450	BY TRANE CO.	4 / 4	20" x 20" x 2" / 16" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 4	20" x 20" x 37" / 16" x 20" x 37"	85%	DRI-PAK	0.65	1.0	429	22.0
AF-204	AHU-204	AMERICAN AIR FILTER	BAG FILTER SECTION	9,400	BY TRANE CO.	4 / 4	20" x 20" x 2" / 16" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 4	20" x 20" x 37" / 16" x 20" x 37"	85%	DRI-PAK	0.65	1.0	427	22.0
AF-205	AHU-205	AMERICAN AIR FILTER	BAG FILTER SECTION	4,500	BY TRANE CO.	2 / 1	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	2 / 1	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	483	9.3
AF-206	AHU-206	AMERICAN AIR FILTER	BAG FILTER SECTION	7,000	BY TRANE CO.	3 / 3	16" x 20" x 2" / 20" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	3 / 3	16" x 20" x 37" / 20" x 20" x 37"	85%	DRI-PAK	0.65	1.0	262	26.7
AF-301	AHU-301	AMERICAN AIR FILTER	BAG FILTER SECTION	18,350	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	597	30.7
AF-302	AHU-302	AMERICAN AIR FILTER	BAG FILTER SECTION	17,350	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	565	30.7
AF-303	AHU-303	AMERICAN AIR FILTER	BAG FILTER SECTION	7,000	BY TRANE CO.	3 / 3	16" x 20" x 2" / 20" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	3 / 3	16" x 20" x 37" / 20" x 20" x 37"	85%	DRI-PAK	0.65	1.0	476	14.7
AF-304	AHU-304	AMERICAN AIR FILTER	BAG FILTER SECTION	16,600	BY TRANE CO.	6 / 4	20" x 25" x 2" / 16" x 25" x 2"	40%	AM-AIR 300X	.15	0.6	6 / 4	20" x 25" x 37" / 16" x 25" x 37"	85%	DRI-PAK	0.65	1.0	540	30.7
AF-305	AHU-305	AMERICAN AIR FILTER	BAG FILTER SECTION	9,150	BY TRANE CO.	4 / 4	20" x 20" x 2" / 16" x 20" x 2"	40%	AM-AIR 300X	.15	0.6	4 / 4	20" x 20" x 37" / 16" x 20" x 37"	85%	DRI-PAK	0.65	1.0	415	22.0
AF-401	AHU-401	AMERICAN AIR FILTER	BAG FILTER SECTION	13,450	BY TRANE CO.	6 / 2	24" x 24" x 2" / 12" x 24" x 2"	85%	AM-AIR 300X	.15	0.6	6 / 2	24" x 24" x 30" / 12" x 24" x 30"	85%	DRI-PAK	0.65	1.0	480	28.0
AF-402	AHU-402	AMERICAN AIR FILTER	BAG FILTER SECTION	5,700	BY TRANE CO.	3	20" x 24" x 2"	85%	AM-AIR 300X	.15	0.6	3	20" x 24" x 30"	85%	DRI-PAK	0.65	1.0	570	10.0
AF-403	AHU-403	AMERICAN AIR FILTER	BAG FILTER SECTION	13,300	BY TRANE CO.	6 / 2	24" x 24" x 2" / 12" x 24" x 2"	85%	AM-AIR 300X	.15	0.6	6 / 2	24" x 24" x 30" / 12" x 24" x 30"	85%	DRI-PAK	0.65	1.0	475	28.0
AF-404	AHU-404	AMERICAN AIR FILTER	BAG FILTER SECTION	9,275	BY TRANE CO.	3	20" x 20" x 2"	85%	AM-AIR 300X	.15	0.6	3	24" x 24" x 30"	85%	DRI-PAK	0.65	1.0	422	22.0

COOLING TOWER FILTER SCHEDULE

FILTER NO.	MANUFACTURER	SERVICE	FILTER TYPE	MODEL NO.	TOTAL GPM	FILTER AREA SQ. FT.	BACKWASH TYPE	FILTER HP.	MOTOR SPEED RPM	ELECTRICAL CHARASTERISTICS VOLTAGE	ELECTRICAL CHARASTERISTICS PHASE	ELECTRICAL CHARASTERISTICS CYCLE	FILTER LOCATION	FILTER OPERATING WEIGHT (POUNDS)
CTF-1	PEP MANUFACTURING	CT-1	PERMANENT MEDIA	SMF 24	63.0	3.142	AUTOMATIC	2.0	3500	480	3	60	ROOF	685
CTF-2	PEP MANUFACTURING	CT-2	PERMANENT MEDIA	SMF 24	63.0	3.142	AUTOMATIC	2.0	3500	480	3	60	ROOF	685

NOTES:
1. INSTALLATION OF FILTER SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS.
2. TEFC MOTOR
3. NEMA 4X CONTROL BOX

CONTROL VALVES SCHEDULE

DESIGNATION	SERVICE	MANUFACTURER	MODEL NO.	SIZE	Cv	GPM	VALVE PRESSURE DROP FT.H O 2	VALVE TYPE	REMARKS
CV-001	AHU-001 CHILLED WATER	BARBER COLMAN	VP-9213	1"	8.2	18.6	5.15	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-002	AHU-002 CHILLED WATER	BARBER COLMAN	VP-9213	1"	8.2	14.1	2.95	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-003	AHU-003 CHILLED WATER	BARBER COLMAN	VP-9213	1-1/4"	16	45.1	7.95	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-004	AHU-004 CHILLED WATER	BARBER COLMAN	VP-9213	1-1/4"	16	56.4	12.43	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-005	AHU-005 CHILLED WATER	BARBER COLMAN	VP-9213	3/4"	6.2	11.9	3.68	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-006	AHU-006 CHILLED WATER	BARBER COLMAN	VP-9213	1"	11	22.3	4.1	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-101	AHU-101 CHILLED WATER	BARBER COLMAN	VP-9213	1-1/2"	25	87	12.11	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-102	AHU-102 CHILLED WATER	BARBER COLMAN	VP-9213	1-1/2"	25	90.8	13.19	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO BE FURNISHED BY A/C EQUIP. MANUF.
CV-103	AHU-103 CHILLED WATER	BARBER COLMAN	VP-9213	1"	8.2	17.7	4.65	NORMALLY OPEN 2-WAY DDC.	D.D.D. ACTUATOR. VALVE TO B