



# GUAM MEMORIAL HOSPITAL AUTHORITY

ATURIDÅT ESPETÅT MIMURIÅT GUÅHÅN

850 Governor Carlos Camacho Road, Tamuning, Guam 96913  
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## Amendment #1

GMHA IFB 005-2022

### DISPOSAL AND INSTALLATION OF 2 NEW CHILLERS FOR ALTERNATE CARE FACILITY (ACF) AT SKILLED NURSING FACILITY (SNF)

**Item 1.** This Amendment issued to replace initial plans with revised plans.

Sincerely,

Dolores F. Pangelinan  
Hospital Materials Management Administrator

ACKNOWLEDGEMENT:

\_\_\_\_\_  
COMPANY NAME:

\_\_\_\_\_  
PRINT NAME:

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

ACF CHILLERS No. 1 & 2

GUAM MEMORIAL HOSPITAL

SKILLED NURSING FACILITY

BARRIGADA, GUAM

REVISIONS		
No.	Description	Date

MECHANICAL, INC.

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RECEIVED

NOV 27 2021

EXP. 04/02/22

DATE: 11/26/21



Project:

ACF CHILLERS  
GUM SKILLED NURSING  
FACILITY

BARRIGADA, GUAM

Title:  
LOCATION MAP, VICINITY MAP  
INDEX OF DRAWINGS, &  
CONSTRUCTION NOTES

Designed: EMC2

Drawn: KPC

Checked: ASC

Supv: ASC

Scale: AS SHOWN

Date: 10/27/2021

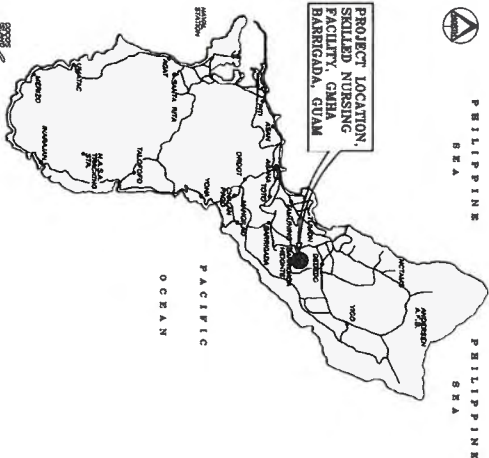
Project No: AutoCAD File  
61K2111 GUM CHILLERS

Drawing No.

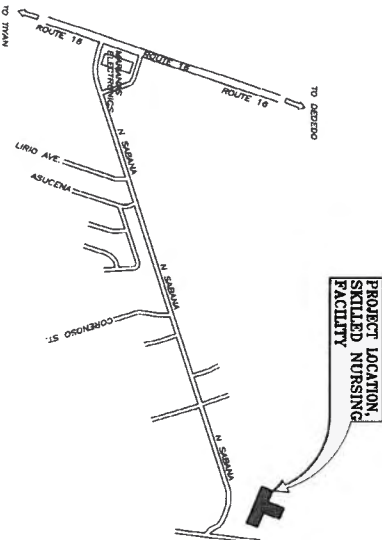
T1.0

Sheet No. 1 of 20

LOCATION MAP  
TO  
SCALE



VICINITY MAP  
TO  
SCALE



INDEX OF DRAWINGS

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CIVIL/STRUCTURAL

MECHANICAL

ELECTRICAL

RENOVATION NOTES

- TWO WEEKS AFTER AWARD OF CONTRACT, SUBMIT RENOVATION SCHEDULE TO CONTRACTING OFFICER OF GUM FOR APPROVAL. SCHEDULE SHALL INDICATE APPROXIMATE DATES OF UTILITY AND AIR-CONDITIONING SYSTEM OUTAGE.
- ACTUAL UTILITY AND AIR-CONDITIONING OUTAGES SHALL HAVE 2 WEEKS PRIOR APPROVAL BY THE CONTRACTING OFFICER.
- THE AVAILABLE SPACE FOR THIS WORK IS TIGHT. VERIFY ALL EXISTING CONDITIONS. TAKE MEASUREMENT AT SITE AND PREPARE/RECORD ALL PIPING SYSTEMS AT CONTRACTOR'S FACILITIES AND DELIVER ONLY TO PROJECT SITE WHEN READY FOR INSTALLATION.
- PREPARE DIMENSIONED INSTALLATION SHOP DRAWING/S FOR REVIEW AND APPROVAL BY GUM'S CONTRACTING OFFICER.
- A/C SYSTEM OUTAGE IS EXPECTED FOR THE FOLLOWING WORK, (A) DRAIN CHILLED WATER LINES, (B) PURGE THE CHILLED WATER PIPING UNTIL THE DISCHARGE WATER IS CLEAN, (C) INSTALL AND INSULATE VALVED STUB-OUTS AT EXISTING CHILLED WATER MAINS, (D) REFILL THE CHILLED WATER LINES. AIR-CONDITIONING OUTAGE SHALL NOT EXCEED 8 HOURS. CHILLED WATER SYSTEM MAIN DRAIN IS LOCATED AT GROUND FLOOR MECHANICAL ROOM WHERE AHU#1 IS LOCATED.
- CHEMICAL TREATMENT OF NEW CHILLED WATER AND PURGING OF AIR FROM THE CHILLED WATER SYSTEM WILL BE DONE AFTER RESTARTING THE TEMPORARY CHILLER AND OTHER AIR-CONDITIONING EQUIPMENT. PURGING OF AIR SHALL INCLUDE ALL AHU'S AND ALL FCU'S, WHILE THE AIR-CONDITIONING SYSTEM IS OFF, RE-INSULATE ALL CHILLED WATER PIPING IN THE MECHANICAL ROOM THAT WILL NOT BE REMOVED IN THIS PROJECT.
- COORDINATE WITH THE GUM MAINTENANCE PERSONNEL THROUGH THE CONTRACTING OFFICER TO TURN OFF THE AIR-CONDITIONING EQUIPMENT FOR THE SCHEDULED AIR-CONDITIONING SYSTEM OUTAGE. ASSIST THE GUM MAINTENANCE PERSONNEL TO TURN BACK ON THE SYSTEM WHEN READY. HAVE GUM CONTRACTING OFFICER COORDINATE WITH THE TEMPORARY CHILLER PROVIDER TO TURN THE TEMPORARY CHILLER OFF AND RESTART CHILLER WHEN STUB-OUTS AT CHILLED WATER MAINS ARE INSTALLED AND CHILLED WATER PIPING RE-INSULATION INSIDE MECHANICAL ROOM ARE DONE.
- RECORD THE FOLLOWING AT 4:00 P.M. ON THE DAY OF THE OUTAGE BEFORE A/C SHUTDOWN:  
(A) OUTSIDE AIR TEMPERATURE, DBT-BULB AND WET-BULB.  
(B) CHILLED WATER PUMP SUCTION AND DISCHARGE PRESSURES.
- (C) CHILLED WATER TEMPERATURE AT SUCTION AND DISCHARGE OF THE OPERATING CHILLED WATER PUMP.  
(E) VOLTAGE AND AMPERE READING OF THE OPERATING CHMP.  
PROVIDE AND INSTALL NEW THERMOMETERS AND PRESSURE GAGES TO RECORD THE ABOVE READINGS. PROVIDE COPIES OF THE READINGS TO THE CONTRACTING OFFICER AND THE DOR.
- AFTER RESTARTING THE A/C SYSTEM, RECORD THE SAME ITEMS NOTED IN ITEM 9, AT 4:00 P.M. ON THE TUESDAY THE A/C SYSTEM IS RESTARTED. SUBMIT READINGS TO CONTRACTING OFFICER AND DOR.
- SEVERAL EQUIPMENT IN THE MECHANICAL ROOM WILL BE IN USE DURING THE RENOVATION OF THIS PROJECT. EXERCISE EXTREME CARE NOT TO DAMAGE THESE EQUIPMENT. PROVIDE TEMPORARY PLYWOOD PARTITION AS NECESSARY.
- RE-USE EXISTING EXTERIOR WALL OPENINGS RESULTING FROM REMOVAL OF REFRIGERANT PIPING FOR NEW CHILLED WATER PIPING. ENGAGEMENT OF THE WALL OPENINGS, IF NECESSARY, SHALL BE APPROVED BY THE STRUCTURAL ENGINEER THROUGH THE CONTRACTING OFFICER. WALL OPENINGS THAT WILL NOT BE RE-USED SHALL BE COVERED WITH 18 GAUGE STAINLESS STEEL PLATES ON BOTH SIDES OF THE WALL, SECURED WITH STAINLESS STEEL SCREWS.
- AFTER REMOVAL OF CHILLED WATER FLEXIBLE HOSE, REMOVED MATERIAL COVERING THE DOOR OPENING SO THAT THE MECHANICAL ROOM DOOR CAN BE OPERATIONAL AGAIN.
- REPAINT THE INTERIOR OF THE MECHANICAL ROOM, FINISH TO MATCH EXISTING. REPAINT INTERIOR AND EXTERIOR OF THE MECHANICAL ROOM DOOR LEADING TO THE MECHANICAL YARD
- GOVERNMENT-FURNISHED, CONTRACTOR-INSTALLED CHILLER WILL BE PROVIDED BY THE LOCAL CHILLER MANUFACTURER'S SERVICE ORGANIZATION WITH THE FOLLOWING SERVICES OF A FACTORY-TRAINED TECHNICIAN:  
(A) PRE-START UP INSPECTION.  
(B) START UP SERVICES.  
(C) SYSTEM PERFORMANCE TEST.  
(D) FIELD ACCEPTANCE TESTING.  
INSTALL CHILLER IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. OBTAIN MANUFACTURER'S INSTRUCTION THROUGH CONTRACTING OFFICER. COORDINATE WITH AND PROVIDE ASSISTANCE TO THE FACTORY TRAINED TECHNICIAN IN PERFORMING THE ABOVE SERVICES.

MECHANICAL, INC.



MECHANICAL, INC.



ASSOCIATES

ASSOCIATES

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STRUCTURAL NOTES (REFERENCE AS IT APPLIES)

GENERAL NOTES

- GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. FEATURES OF RENOVATION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE 2. ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICT AND TO ENSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST APPLICABLE STANDARDS OR SPECIFICATIONS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
- DO NOT SCALE DRAWINGS. CALLED-OUT DIMENSIONS AND STANDARD CODE REQUIREMENT SHALL GOVERN OVER UNSCALED DRAWINGS.

FORMWORK

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO ENSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE WORKMAN TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE.
- NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER RENOVATION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING/BRACING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.
- FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICEABILITY OF THE STRUCTURE.

REINFORCING STEEL

- ALL REINFORCING BARS SHALL CONFORM TO BASIC DESIGN CRITERIA.
- ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 AWS STRUCTURAL WELDING CODE -REINFORCING STEEL OF THE AMERICAN WELDING SOCIETY. REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A 706. REINFORCING STEEL NOT CONFORMING TO ASTM A706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.
- REINFORCING BARS SHALL BE SPLICED 42d (d= BAR DIAMETER) ONLY AS INDICATED ON THE DRAWINGS.
- PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND SPACING AS COLUMN AND WALL REINFORCING, UNLESS OTHERWISE NOTED.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185, WELDED WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE FY = 60 KSI, LAP 12" MINIMUM OR TWO FULL MESH, WHICHEVER IS GREATER FOR SLABS ON GRADE.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE:  
CONCRETE CAST AGAINST EARTH ..... 3"  
EXPOSED TO EXTERIOR OR WEATHER ..... 2"  
#5 BAR THROUGH #18 BAR ..... 1 1/2"  
#5 BAR, W31 OR D31 WIRE, AND SMALLER ..... 2"  
SLAB ON GRADE ..... 1 1/2"  
COLUMNS & BEAMS ..... 1 1/2" & 3/4"  
STRUCTURAL SLABS TOP & BOT. (INTERIOR) ..... 1 1/2" & 3/4"
- IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. WHENEVER POSSIBLE IN BEAMS AND SLABS, SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEER.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- ALL REINFORCING BAR BENDS SHALL BE COLD BENT PER ACI 315.
- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315, INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR REINFORCING BARS.

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REINFORCED CONCRETE NOTES

- ALL CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT THE END OF 28 DAYS, AS SPECIFIED UNDER BASIC DESIGN CRITERIA.
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST CODE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-05).
- LOCATION OF ALL CONSTRUCTION OR CONTRACTION JOINTS MUST BE APPROVED BY THE ENGINEER/ARCHITECT.
- PIPES OR DUCTS EXCEEDING ONE THIRD OF THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILD.
- REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE BEFORE POURING. CONCRETE BAR PLACEMENT AND SUPPORTS SHALLBE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
- ALL INSERTS, ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED.
- IN GENERAL, THE LATEST EDITION OF "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" ACI 315, SHALL BE ADHERED.
- USE OF ADJUSTURE IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL. ADDITION OF WATER TO CONCRETE AT JOBSITE IS NOT ALLOWED.
- 48 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO AN INSPECTION CAN BE MADE ON ALL FORMS AND REINFORCING.

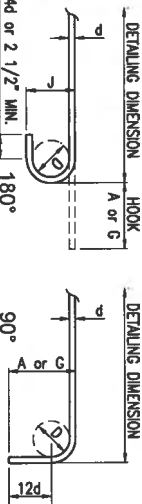
BASIC DESIGN CRITERIA

- A. CODES AND REFERENCES
- IBC-2009 INTERNATIONAL BUILDING CODE
  - ASCE 7-05 MINIMUM DESIGN LOAD FOR BUILDING & STRUCTURES
  - ACI 318-09 BUILDING CODE REQUIREMENTS FOR REINF. CONCRETE
- B. LOADING
- DEAD LOAD ..... ACTUAL  
A.) CONCRETE ..... ACTUAL
  - WIND LOAD  
A.) BASIC WIND SPEED ..... V = 170 mph  
B.) VELOCITY PRESSURE ..... q<sub>h</sub> = 54 psf
  - SEISMIC RISK ZONE 4 REQUIREMENT  
A.) AS PER ASCE 7-05 RISK CATEGORY III ..... I<sub>e</sub> = 1.25  
B.) IMPORTANCE FACTOR ..... I<sub>e</sub> = 1.25
- C. MATERIAL STRESSES
- CAST-IN-PLACE CONCRETE ..... f'<sub>c</sub> = 3,000 psi
  - REINFORCING BARS ..... ASTM A615  
#4 AND SMALLER ..... GRADE 40  
#5 AND LARGER ..... GRADE 60

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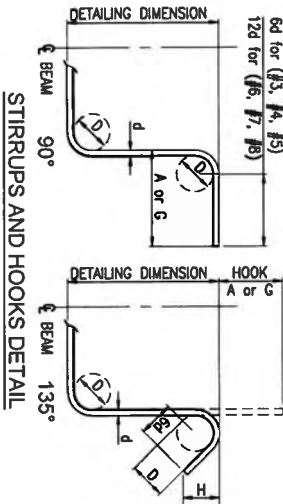
RECOMMENDED END HOOKS  
ALL GRADES OF STEEL

BAR SIZE	0 = FINISHED BEAD DIAMETER		
	180° HOOKS (ft--in.)	90° HOOKS (ft--in.)	A or G
#3	2-1/4	0-5	0-3
#4	3	0-6	0-4
#5	3-3/4	0-7	0-5
#6	4-1/2	0-8	0-6
#7	5-1/4	0-10	0-7
#8	6	0-11	0-8
#9	9-1/2	1-3	0-11 3/4
#10	10-3/4	1-5	1-1 1/4
#11	12	1-7	1-2 3/4
#14	18 1/4	2-3	1-9 3/4
#18	24	3-0	2-4 1/2



MAIN REINFORCEMENT

STIRRUP (TIES SIMILAR) STIRRUP TIE HOOK DIMENSIONS ALL GRADES OF STEEL			
BAR SIZE	135° HOOKS (in.)	90° HOOKS (ft--in.)	A or G
#3	1-1/2	4	2 1/2
#4	2	4-1/2	3
#5	2-1/2	5-1/2	3-3/4
#6	4-1/2	8	4-1/2
#7	5-1/4	9	5-1/4
#8	6	10-1/2	6



STIRRUPS AND HOOKS DETAIL

1 TYP. HOOKS & BEND DETAIL

SCALE: N.T.S

TABLE OF LAP SPICE AND ANCHORAGE LENGTH

BAR SIZE	LAP SPICE LENGTH TYPE A	ANCHORAGE LENGTH
#3	24"	0'-6"
#4	24"	0'-8"
#5	27"	0'-10"
#6	32"	1'-0"
#7	37"	1'-2"
#8	42"	1'-4"
#9	48"	1'-6"

NOTE: NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

2 SPICE & ANCHORAGE TABLE

SCALE: N.T.S

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REVISIONS		No.	Description	Date



I HEREBY CERTIFY THAT THE PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

DATE: \_\_\_\_\_

N. C. MACCARRO & ASSOCIATES, INC.  
P.O. Box 736, Agaña, Guam 96910  
Tel. 546-0947/48 Fax. 546-0901  
E-mail: ncma@guam.net

Project: ACP CHILDRS  
GMR SKILLED NURSING  
FACILITY

BARRIGADA, GUAM

Title:

STRUCTURAL NOTES

Designed: JFD / NCM

Drawn: KS

Checked: JMC

Supv: NCM

Scale: AS SHOWN

Date: 10-27-2021

Project No. 61K2111 AutoCAD File

Drawing No.

S1.1

Sheet No. 2 of 20



REVISIONS		
No.	Description	Date

**EME2**  
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 565-A NORTH MARINE DRIVE  
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION  
 DATE: \_\_\_\_\_

**MC MACARIO & ASSOCIATES, INC.**  
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 Tel. 546-0947/48 Fax. 546-0901  
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**Project:**  
 ACP CHILLERS  
 GMH SKILLED NURSING  
 FACILITY

**BARRIGADA, GUAM**

**Title:**

**CONCRETE PAD  
 FOUNDATION PLAN  
 & DETAILS**

**Designed:** JFD / NCM

**Drawn:** KS

**Checked:** JMC

**Supr:** NCM

**Scale:** AS SHOWN

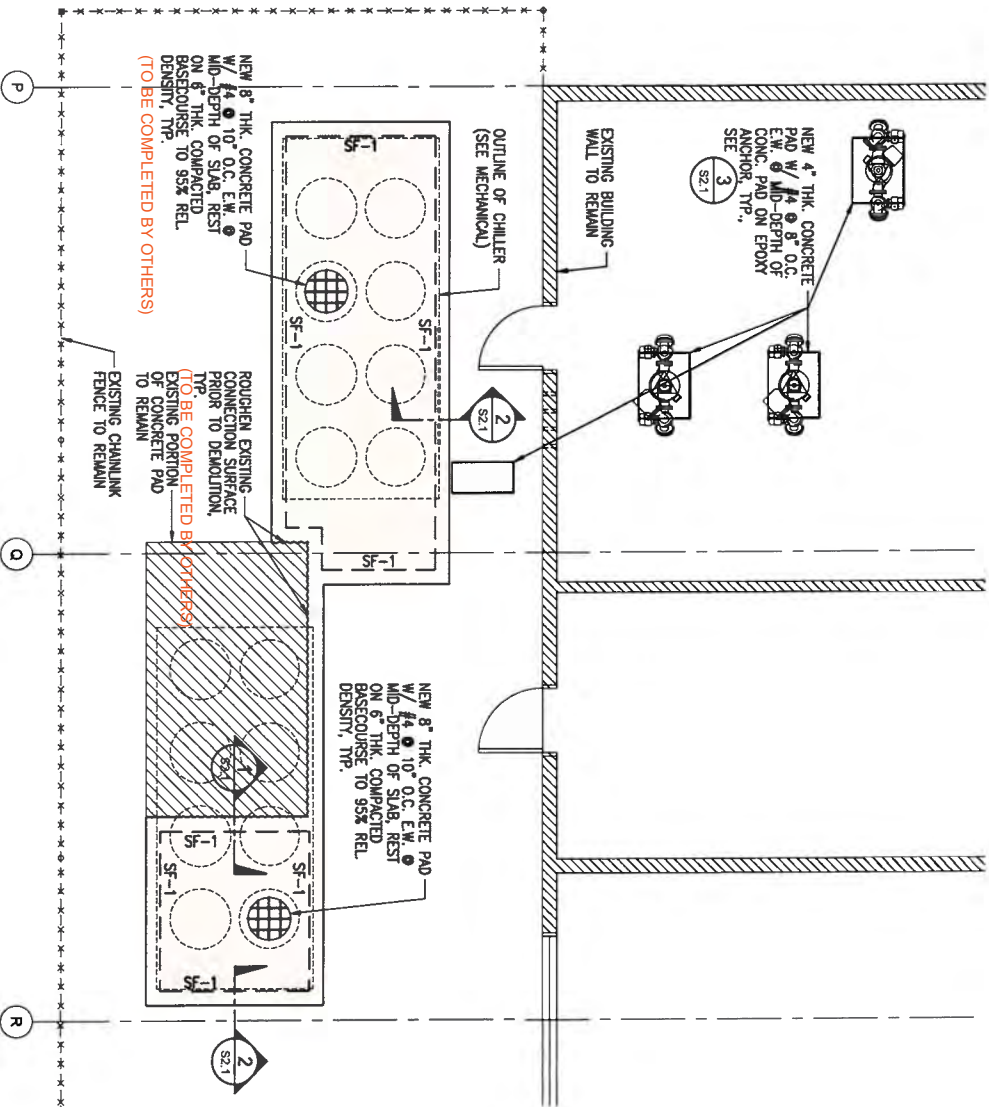
**Date:** 10-27-2021

**Project No.:** AutoCAD File

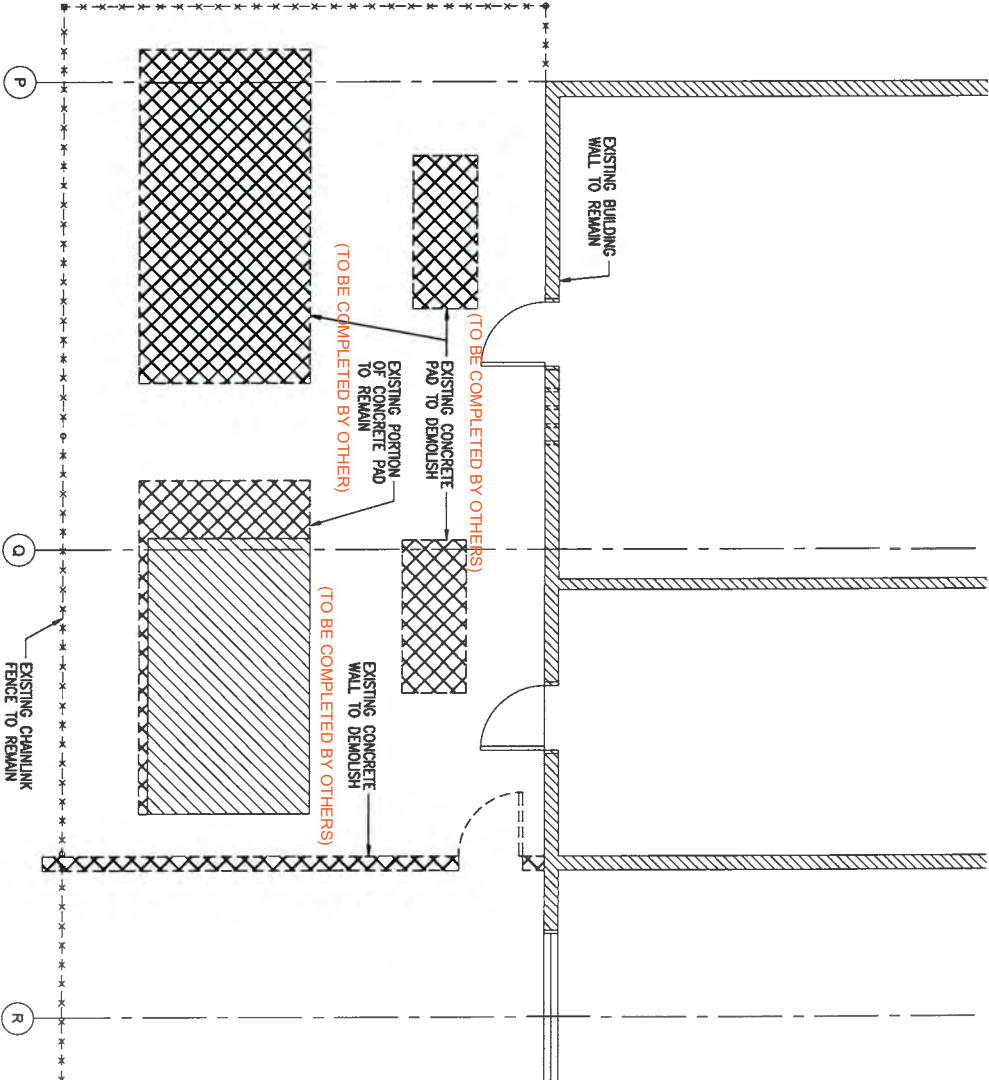
**Drawing No.:** 61X2111

**S2.1**

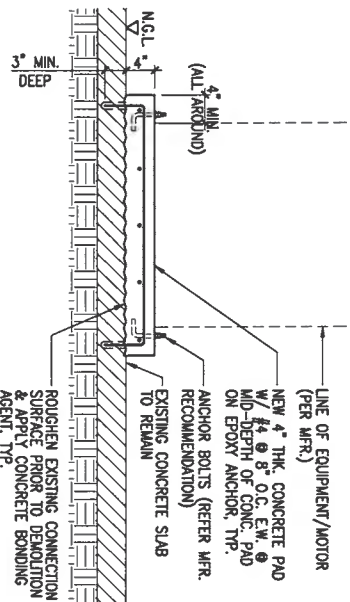
**Sheet No. 3 of 20**



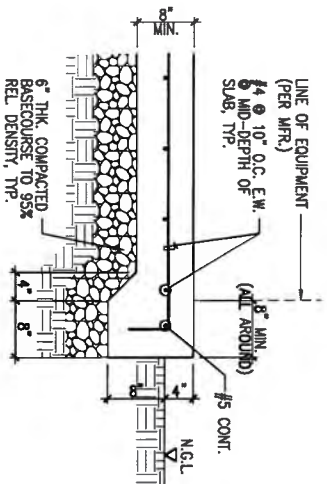
**A** **PHASE 1 - MECHANICAL ROOM & YARD CONCRETE PAD FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"



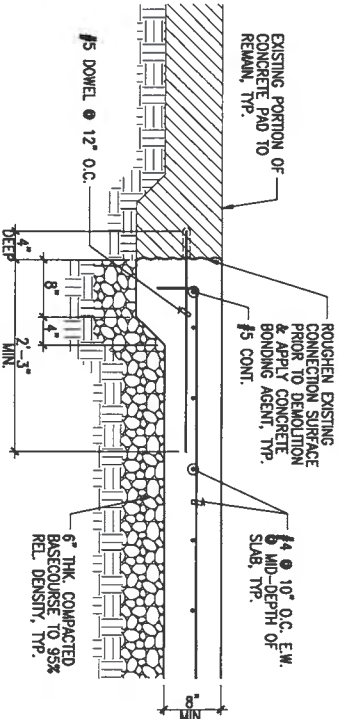
**A** **PHASE 1 - MECHANICAL ROOM & YARD DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"



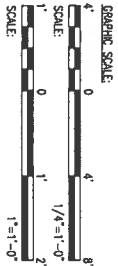
**3** **EQUIPMENT/MOTOR CONCRETE PAD DET.**  
 SCALE: 1" = 1'-0"



**2** **CHILLER CONCRETE PAD DETAIL**  
 SCALE: 1" = 1'-0"

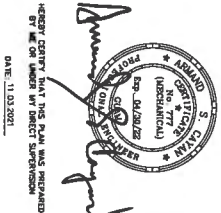


**1** **CHILLER CONCRETE PAD DETAIL**  
 SCALE: 1" = 1'-0"



REVISIONS		
No.	Description	Date

**EME2**  
**MECHANICAL, INC.**  
565-A NORTH MARINE DRIVE  
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Project:  
**ACF CHILERS  
GMH SKILLED NURSING  
FACILITY**

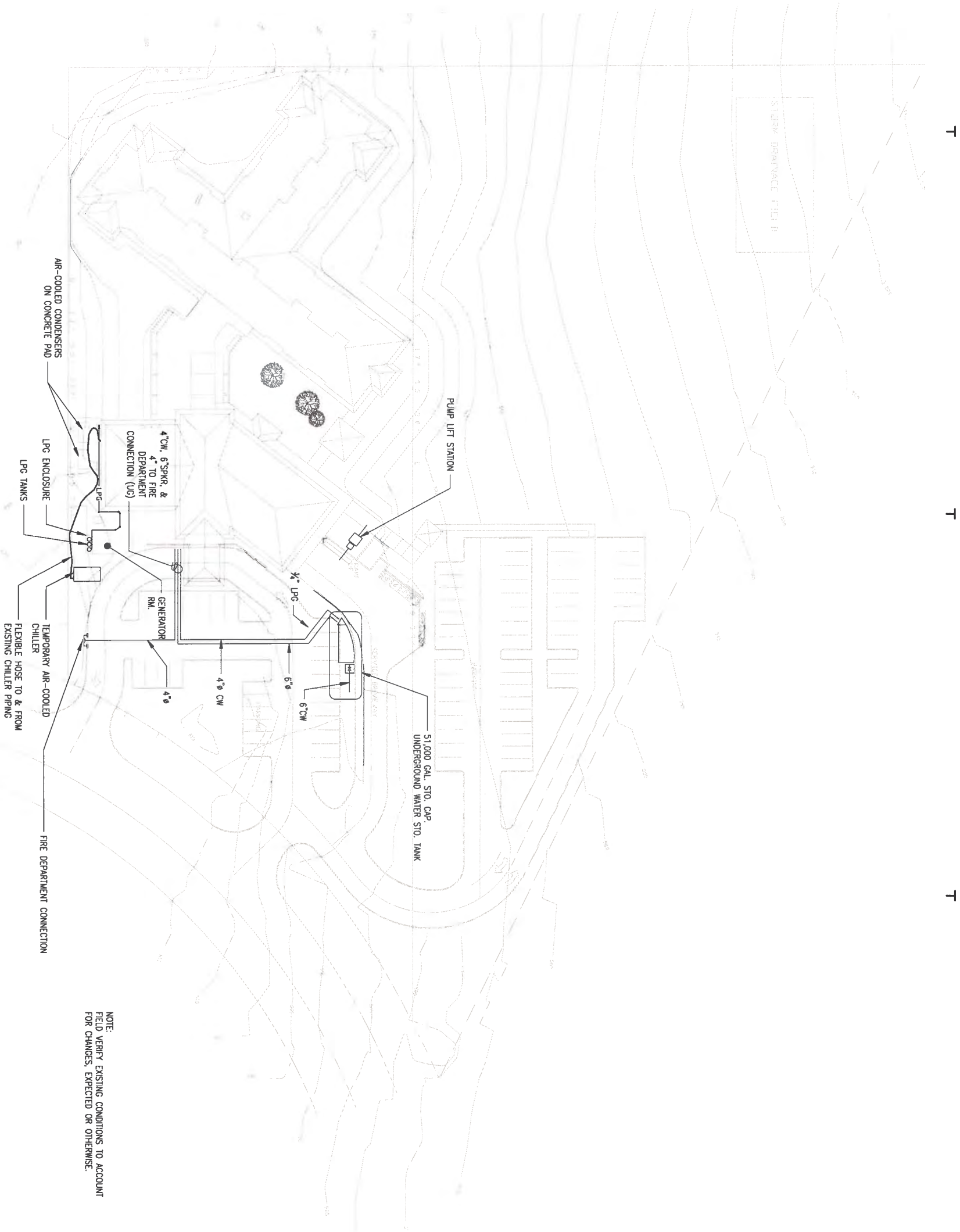
BARRIGADA, GUAM

Title:  
**EXISTING MECHANICAL SITE  
PLAN**

Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supv:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No.	AutoCAD File 61K2111
Drawing No.	

**M0.1**

Sheet No. 4 of 20



**1 EXISTING MECHANICAL SITE PLAN**  
SCALE: 1/32" = 1'-0"

0 5' 10' 20' 40' 60'  
SCALE: 1/32" = 1'-0"



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LEGEND:

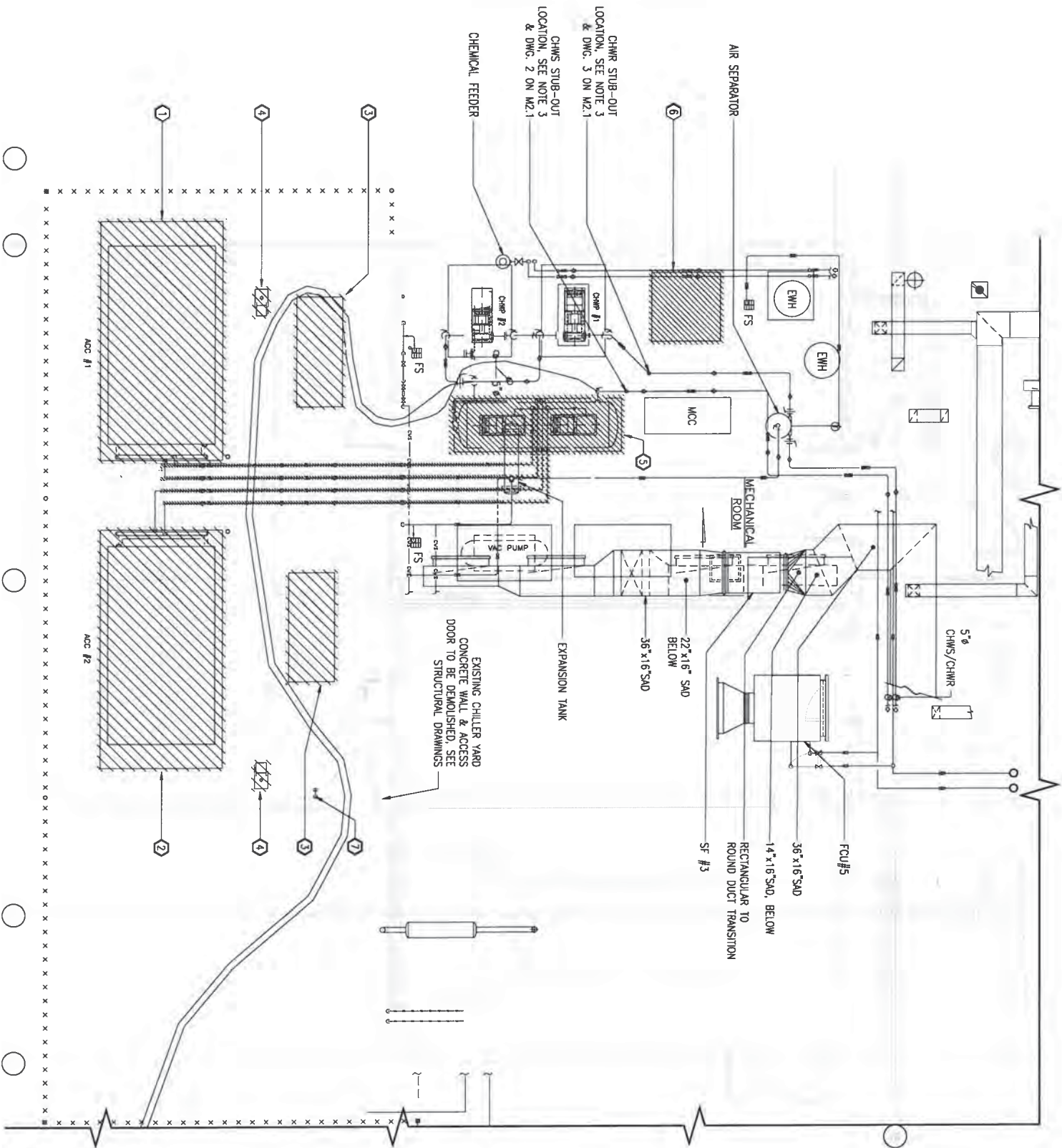
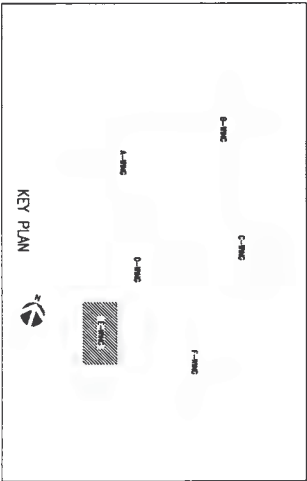
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AHU	AIR HANDLING UNIT	PV	PLUG VALVE
AAV	AUTOMATIC AIR VENT	RA	RETURN AIR
ACC	AIR-COOLED CONDENSER	RG	REFRIGERANT GAS
AS	AIR SEPARATOR	RL	REFRIGERANT LIQUID
AV	BAUL VALVE	SA	SUPPLY AIR
BRV	BUTTERFLY VALVE	SAO	SUPPLY AIR DUCT
CFM	CUBIC FEET PER MINUTE	SCNHP	SECONDARY CHILLED WATER PUMP
CH	CHILLER	SD	SUCTON DIFFUSER
CHMS	CHILLED WATER RETURN	SF	SUPPLY FAN
COP	CHILLED WATER SUPPLY	TDV	TRIPLE DUTY VALVE
DET.	CUT-OFF POINT	TS	TEMPERATURE SENSOR
DOR	DETAIL	TW	TEMPERATURE ON THERMOMETER WELL
(E)	DESIGNER OF RECORD	UN	UNION, DIELECTRIC
FS	FLOW SENSOR	VFD	VARIABLE FREQUENCY DRIVE
FC	FAN-COIL UNIT	VAC	VACUUM
FCU	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED		
FCU#5	36" x 16" SAO, BELOW		
FCU#5	14" x 16" SAO, BELOW		
FCU#5	RECTANGULAR TO ROUND DUCT TRANSITION		
SF #3			

KEYED NOTES:

1. REMOVE ACC#1 & CONCRETE PAD. (TO BE COMPLETED BY OTHERS)
2. REMOVE ACC#2 & CONCRETE PAD. (TO BE COMPLETED BY OTHERS)
3. REMOVE CONCRETE PADS. (TO BE COMPLETED BY OTHERS)
4. REMOVE ELECTRICAL PANELS. SEE ELECTRICAL DWGS. (TO BE COMPLETED BY OTHERS)
5. REMOVE CHILLER & RELATED REFRIGERANT & CHILLED WATER PIPING THAT WILL NOT BE RE-USED.
6. REMOVE HOT WATER STORAGE TANK.
7. RELOCATE EXISTING HOSE BIB TO BLDG. EXTERIOR WALL.

NOTES:

1. CHILLER MAY HAVE TO BE DISASSEMBLED TO FIT PASSAGE WAYS.
2. CAP OR PLUG PIPE OPENING RESULTING FROM REMOVAL WORK TO MAINTAIN INTEGRITY OF REMAINING SYSTEMS TO BE RE-USED.
3. PROVIDE VALVE TEE AFTER DRAINING CHILLED WATER, SEE ITEM 6 OF SUGGESTED SEQUENCE OF CONSTRUCTION ON DWG. M2.0.
4. EXISTING SPRINKLER SYSTEM WILL REMAIN AND WILL BE OPERATIONAL DURING CONSTRUCTION OF THIS PROJECT. EXTREME CARE SHALL BE EXERCISED TO PREVENT DAMAGE TO THE SPRINKLER SYSTEM, CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY HIS TEAM DURING THE EXECUTION OF THE PROJECT.
5. DISPOSAL OF REMOVED EQUIPMENT SHALL BE PER GMAH INSTRUCTIONS. ALL OTHER REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL.



PHASE 1 - MECHANICAL ROOM & YARD REMOVAL PLAN

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



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REVISIONS		
No.	Description	Date

**EME3**  
MECHANICAL, INC.  
565-A NORTH MARINE DRIVE,  
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Project:  
ACF CHILLERS  
GMAH SKILLED NURSING  
FACILITY

BARRIGADA, GUAM

Title:  
PHASE 1 - MECHANICAL  
ROOM & YARD REMOVAL  
PLAN, LEGEND, KEYED  
NOTES & NOTES

Designed: EMC2
Drawn: KPC
Checked: ASC
Supv: ASC
Scale: AS SHOWN
Date: 10/27/2021
Project No: AutoCAD File 61K2111
Drawing No: M1.1









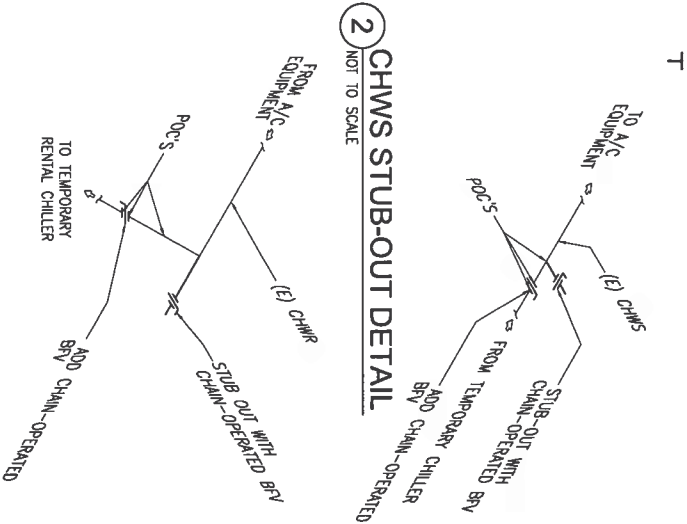
REVISIONS		
No.	Description	Date

**eme2**  
MECHANICAL, INC.  
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TAMUNING, GUAM 96931  
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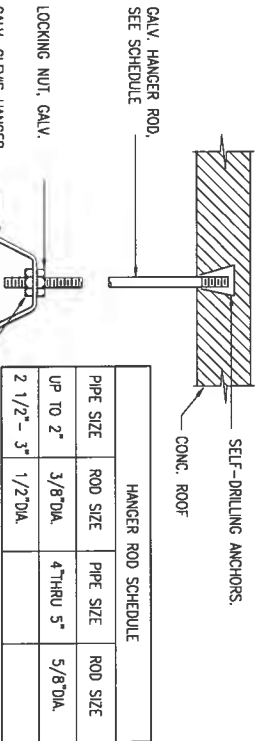


Project:  
ACF CHILLERS  
GMH SKILLED NURSING  
FACILITY

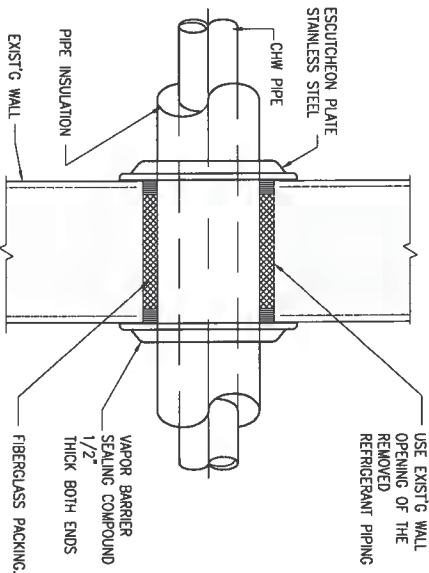
Title:	PHASE 1 - MECHANICAL ROOM & YARD PLAN, CHWS/R STUB-OUT DETAIL, CLEVIS PIPE HANGER DETAIL, PIPE THRU WALL DETAIL, & NOTES
Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supv:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No:	6162111
Drawing No.	M2.1



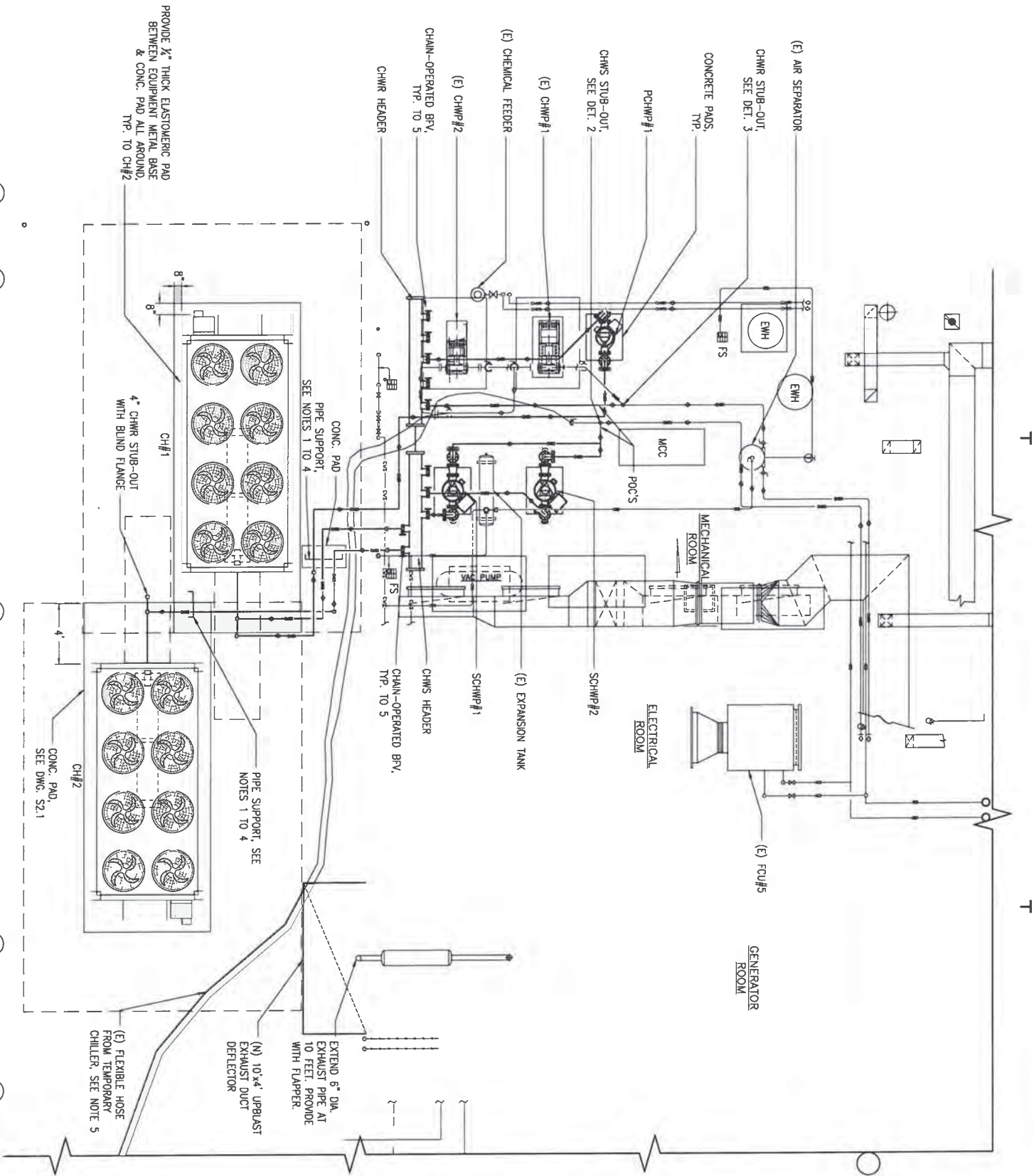
3 CHWR STUB-OUT DETAIL  
NOT TO SCALE



4 CLEVIS PIPE HANGER DETAIL  
NOT TO SCALE



5 PIPE THRU WALL DETAIL  
NOT TO SCALE



NOTES:

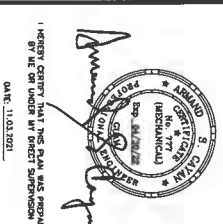
1. FABRICATE FROM 4"x4"x1/8" GALVANIZED ANGLE WITH WELDED JOINT, GRINDED SMOOTH.
2. PROVIDE ALL WELDED JOINTS WITH COLD GALVANIZING.
3. PROVIDE 12"x12"x1/4" THICK BASE PLATE SECURED TO CONCRETE PAD W/ 1/2"x2" GALVANIZED ANCHOR BOLTS.
4. PROVIDE 16 GA. GALVANIZED STEEL SADDLE AND GALVANIZED "U" BOLTS FOR EACH PIPE.
5. MOVE & SECURE THE RENTAL CHILLER FLEXIBLE CHILLED WATER HOSE AS NEEDED TO MAKE ROOM FOR THE INSTALLATION OF CHILLERS AND APURTENANCES.

1 PHASE 1 - MECHANICAL ROOM & YARD PLAN  
SCALE: 1/4"=1'-0"

0' 1' 2' 4' 6' 8'  
SCALE: 1/4"=1'-0"

[illegible]

**ETMEZ**  
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e-mail: [etmzmechanical.com](mailto:etmzmechanical.com)



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

Project: ACF CHILLERS  
GMH SKILLED NURSING  
FACILITY

BARRIGADA, GUAL

ITEM: TYPICAL PCHWP PIPING SECTION, PHASE 1 - MECHANICAL ROOM & YARD ISOMETRIC PIPING PLAN & TYPICAL SCHWP PIPING ELEVATION, CH #1 PIPING ELEVATION

Designed:  
EMC

Drawn: KPC

Checked: ASC

Supv: ASC

Scale:  
AS SHOWN

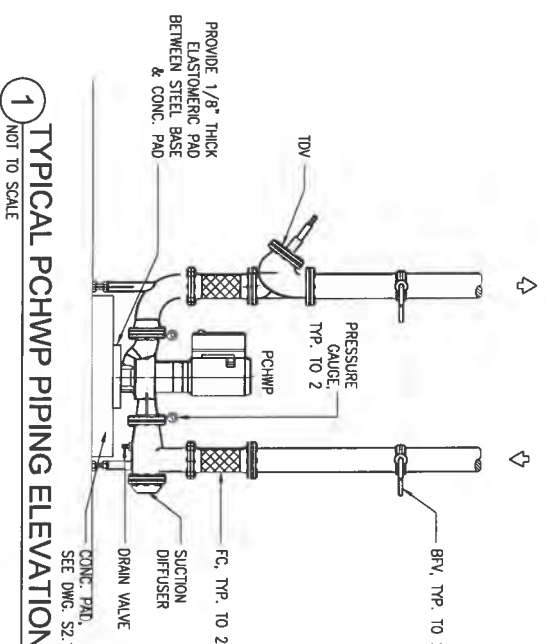
Date: 10/27/2023

Project No. 61K2111	AutoCAD File 2004 ACI CHALLS
Drawing No.	

Drawing No.

## M2.2

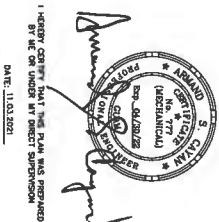
Sheet No. 9 of 20





REVISIONS		
No.	Description	Date

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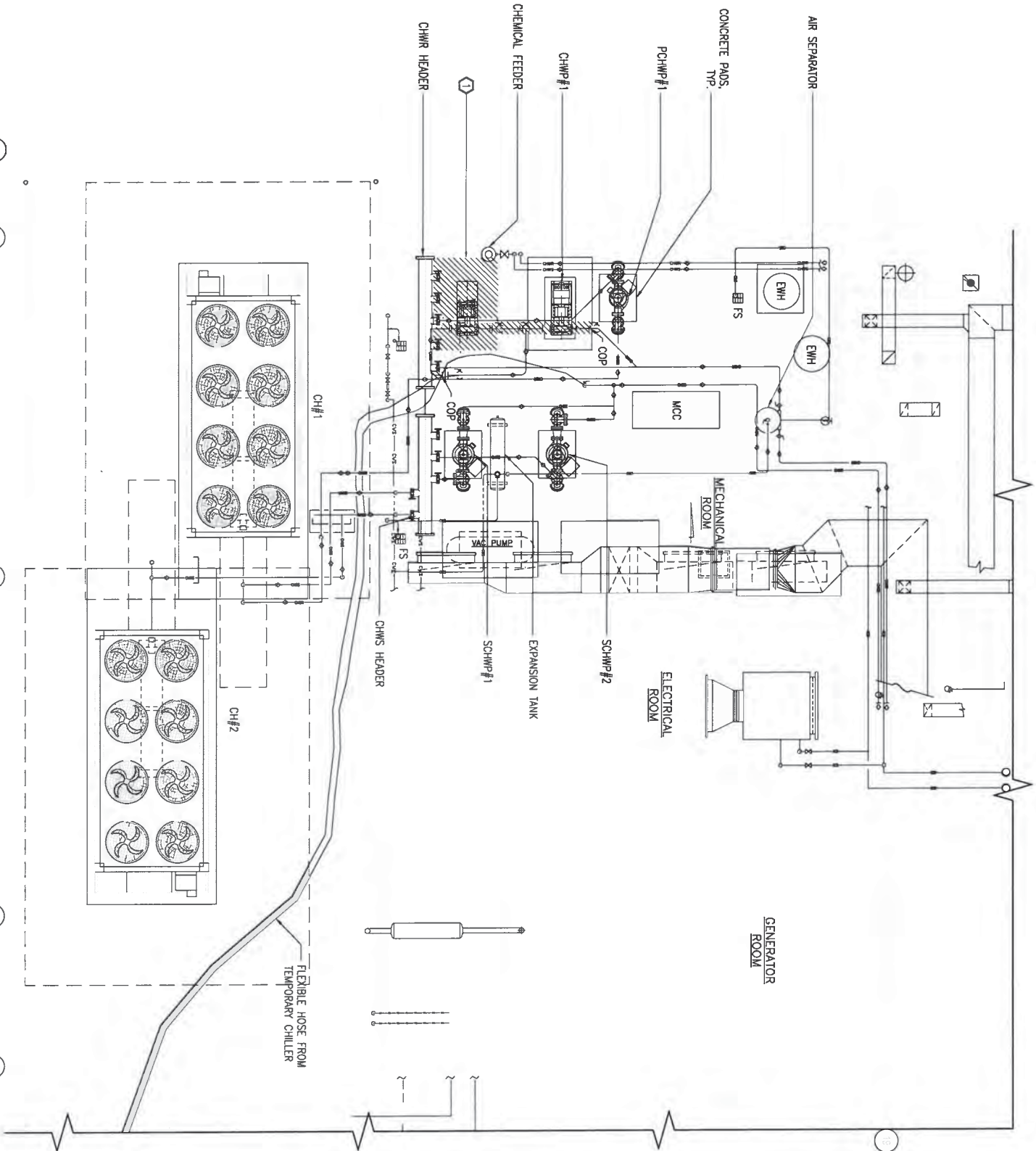
Project:  
ACF CHILERS  
GME SKILLED NURSING  
FACILITY

BARRIGADA, GUAM  
Title:  
PHASE 2 - MECHANICAL  
ROOM REMOVAL PLAN &  
KEYED NOTE

Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supr:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No.	61K2111
Drawing No.	AutoCAD File see all details

M3.1

KEYED NOTE:  
① REMOVE CHWP#2 & CONCRETE PAD.

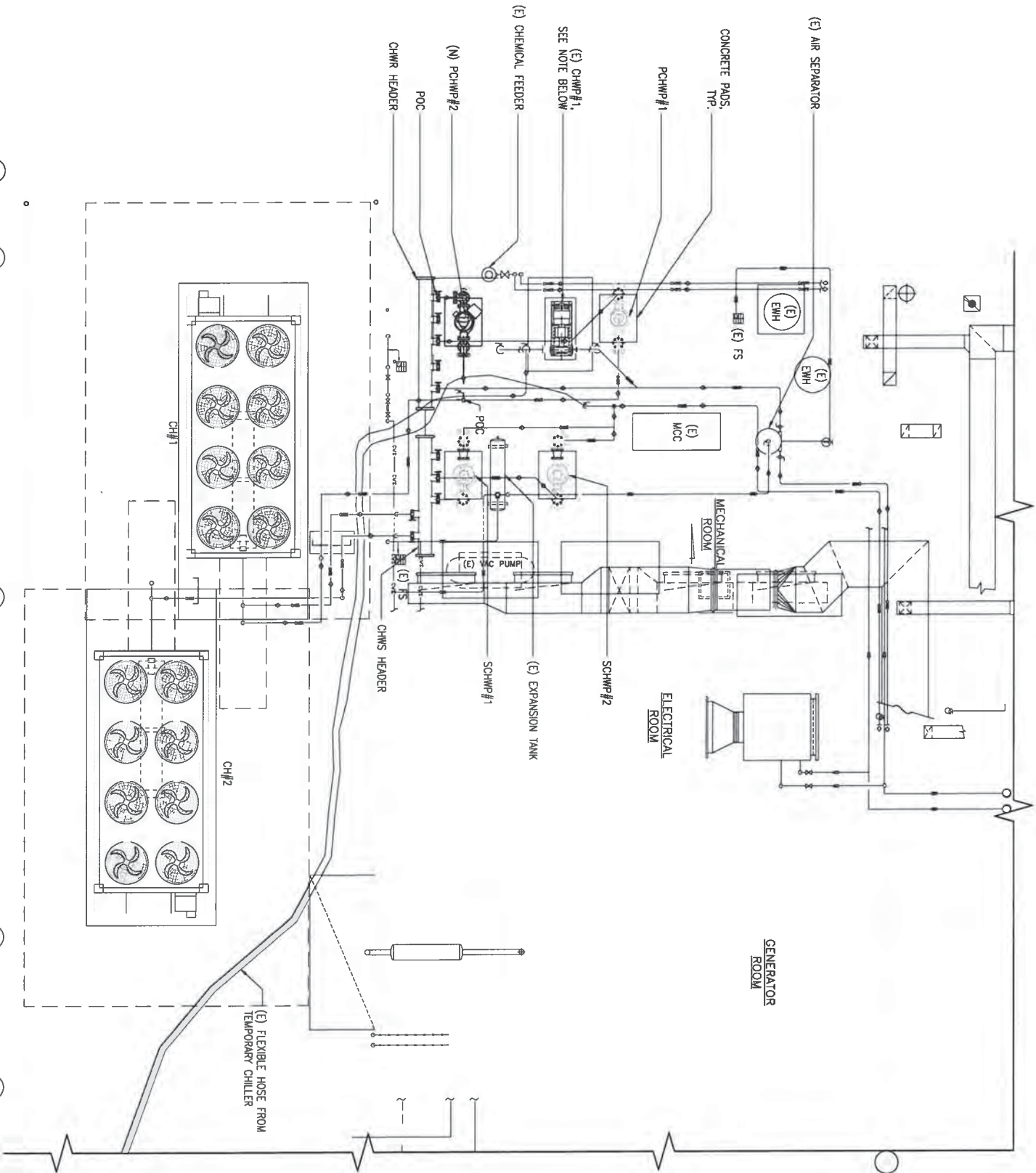


1 PHASE 2 - MECHANICAL ROOM REMOVAL PLAN  
SCALE: 1/4"=1'-0"









1 PHASE 2 - MECHANICAL ROOM PLAN

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



REVISIONS		
No.	Description	Date

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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION  
DATE: 11.03.2021

Project:  
ACF CHILLERS  
GMH SKILLED NURSING  
FACILITY

Title:  
BARRIGADA, GUAM  
PHASE 2 - MECHANICAL  
ROOM PLAN

Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supr:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No.	AutoCAD File 61K2111
Drawing No.	See next drawing

M4.1

[illegible]

**EMEZ**  
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED  
BY ME OR UNDER MY DIRECT SUPERVISION

DATE: 11/03/2021

DATE: 11.03.2021

**Project:**  
**ACF CHILLERS**  
**GMH SKILLED NURSING**  
**FACILITY**

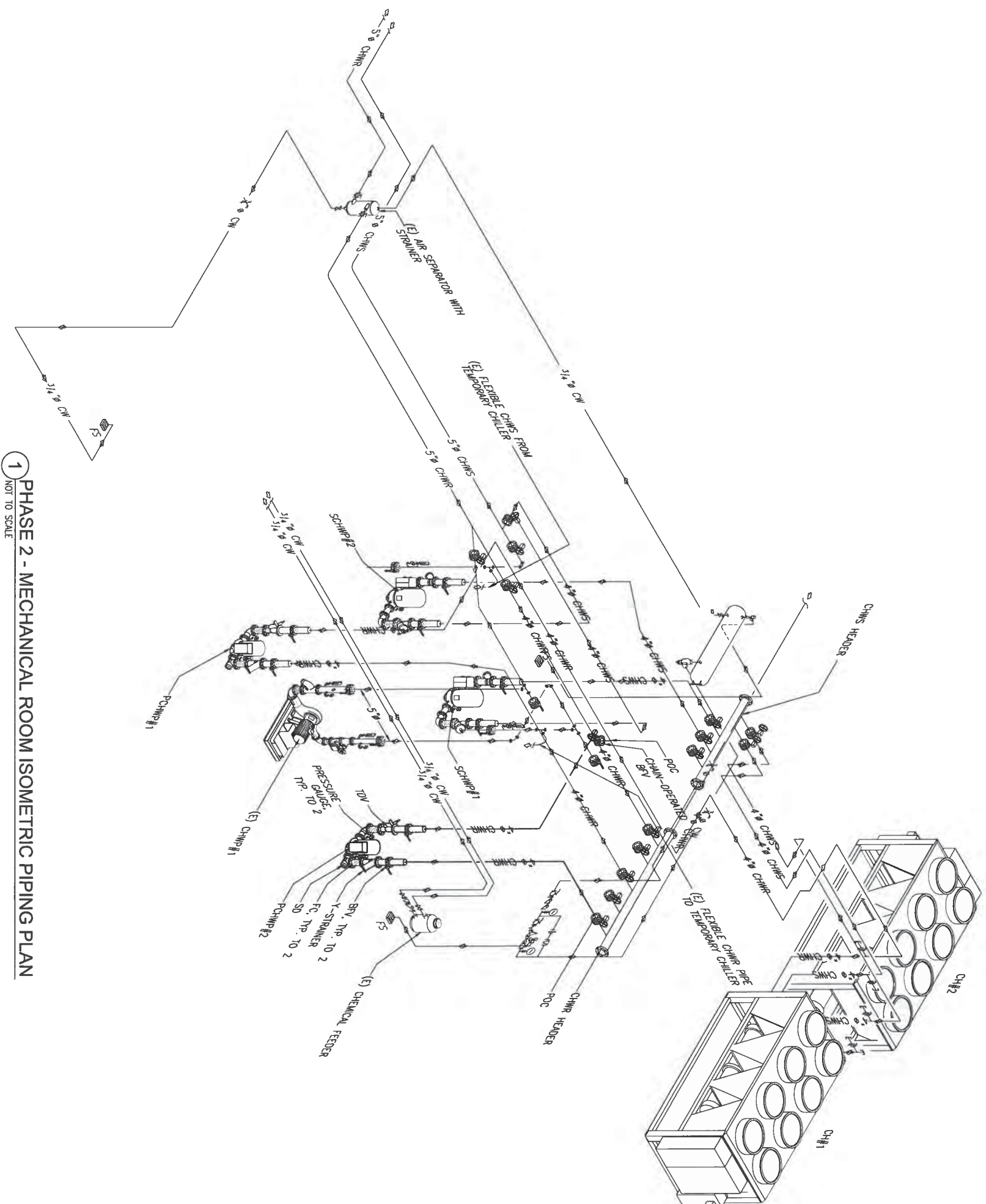
BARRIGADA, GUAM

**Title:**

PHASE 2 – MECHANICAL  
ROOM ISOMETRIC PIPING  
PLAN

Designed:	EMC2	
Drawn:	KPC	
Checked:	ASC	
Supv:	ASC	
Scale:	AS SHOWN	
Date:	10/27/2021	
Project No.	61K2111	AutoCAD File See 4th FLAHS
Drawing No.		

## M4.2

Sheet No. 13 of 20

## PHASE 2 - MECHANICAL ROOM ISOMETRIC PIPING PLAN

NOT TO SCALE



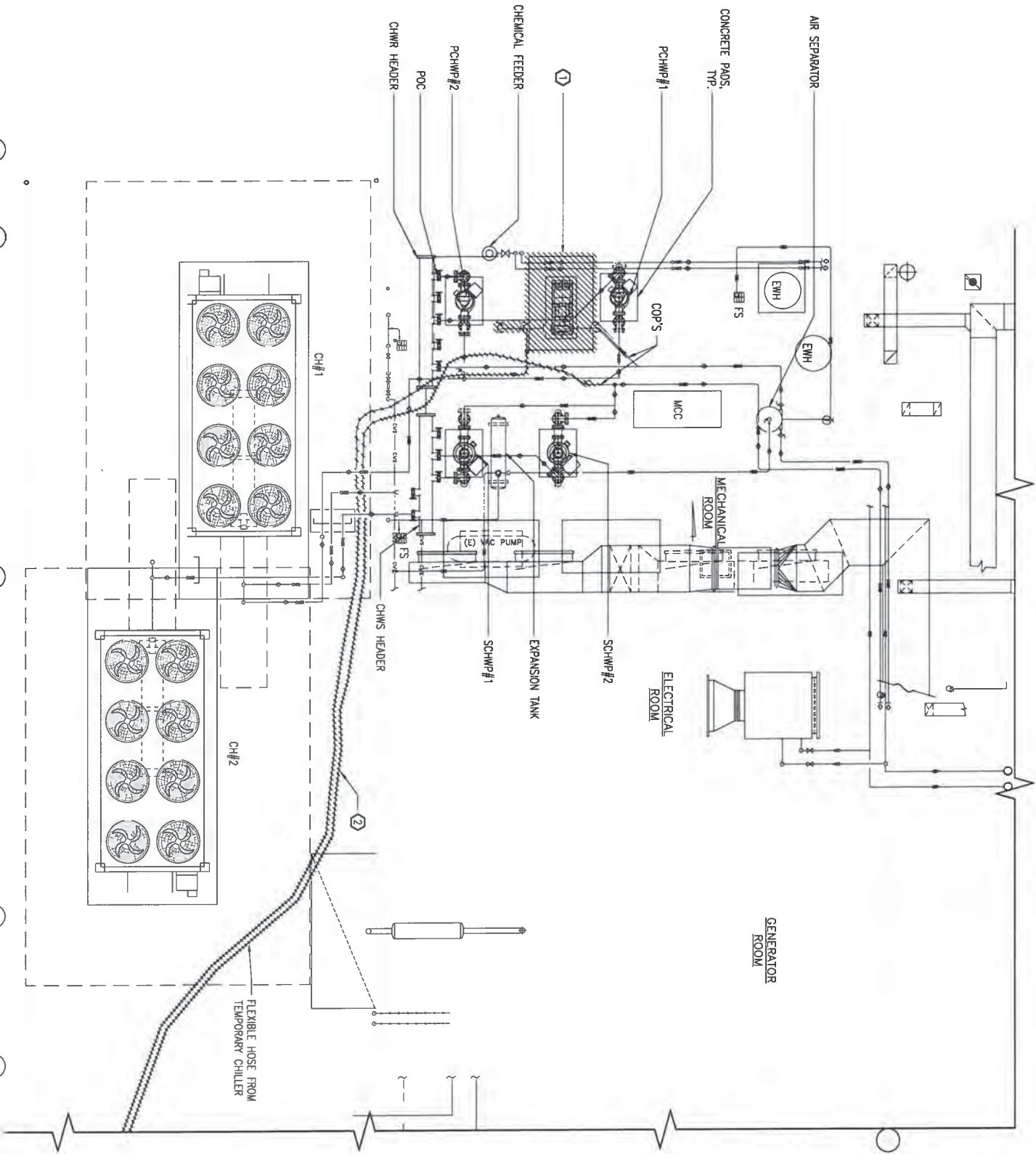
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T

KEYED NOTES:

- ① REMOVE CHWP#1, CONCRETE PAD & EXISTING PIPING.  
② REMOVE RENTAL CHILLER & ASSOCIATED PIPING.



1 PHASE 3 - MECHANICAL ROOM & YARD REMOVAL PLAN  
SCALE: 1/4"=1'-0"

0 1 2 4 6 8  
SCALE: 1/4"=1'-0"

REVISIONS		
No.	Description	Date

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Project: ACR CHILLERS  
GMH SKILLED NURSING  
FACILITY

BARRIGADA, GUAM

Title: PHASE 3 - MECHANICAL  
ROOM & YARD REMOVAL  
PLAN & KEYED NOTES

Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supv:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No.	61K2111
Drawing No.	AutocAD File 61K2111.dwg

M5.1

Sheet No. 14 of 20





REVISIONS		
No.	Description	Date

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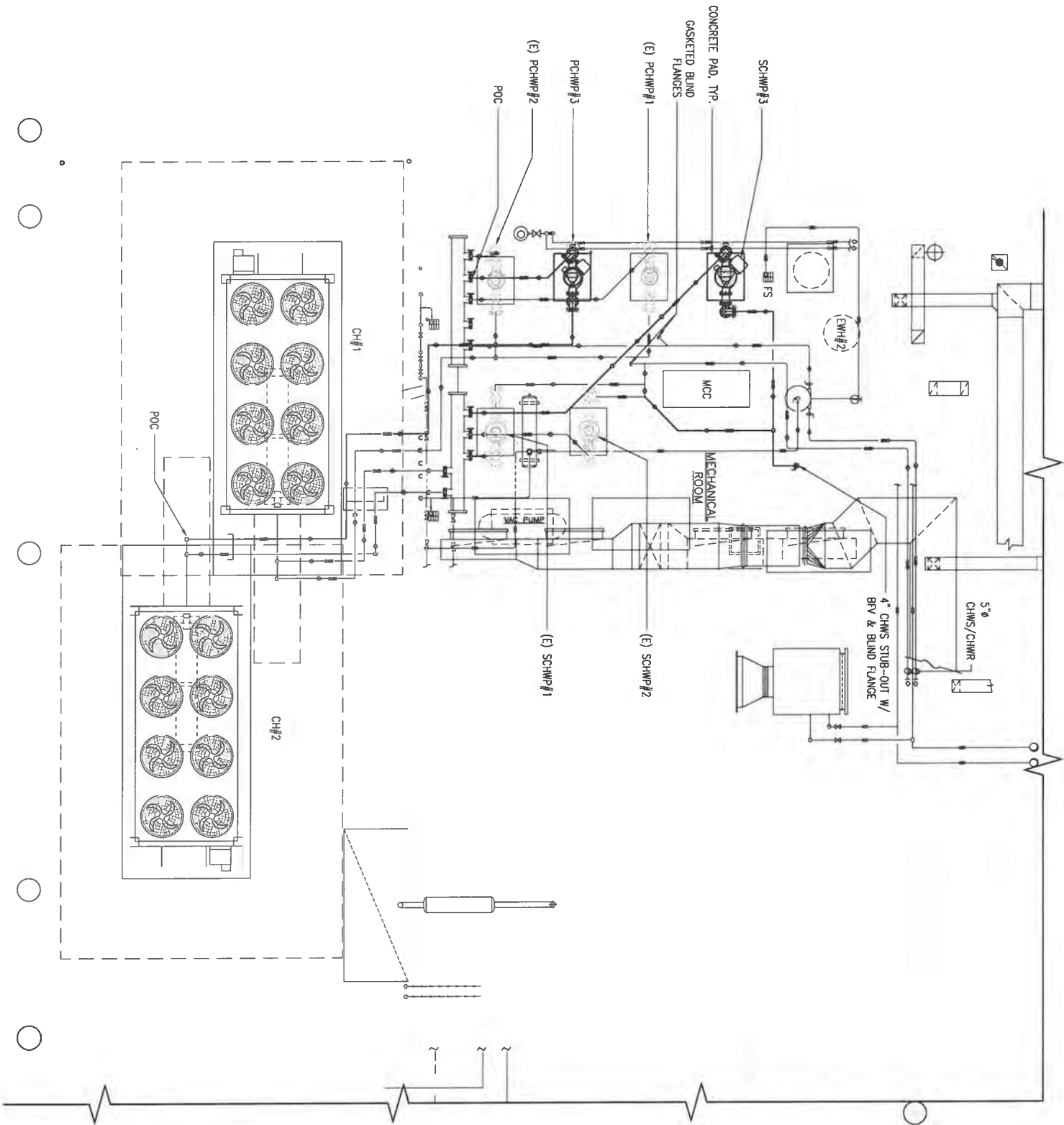


Project:  
ACF CHILLERS  
GMH SKILLED NURSING  
FACILITY

BARIGADA, GUAM  
Title:  
PHASE 3 - MECHANICAL  
ROOM & YARD PLAN

Designed: EMC2
Drawn: KPC
Checked: ASC
Supr: ASC
Scale: AS SHOWN
Date: 10/27/2021
Project No. 61K2111
Drawing No. 61K2111

M6.1



1 PHASE 3 - MECHANICAL ROOM & YARD PLAN  
SCALE: 1/4"=1'-0"

0 1' 2' 4' 6' 8'  
SCALE: 1/4"=1'-0"

REVISIONS		
No.	Description	Date

**eme2**  
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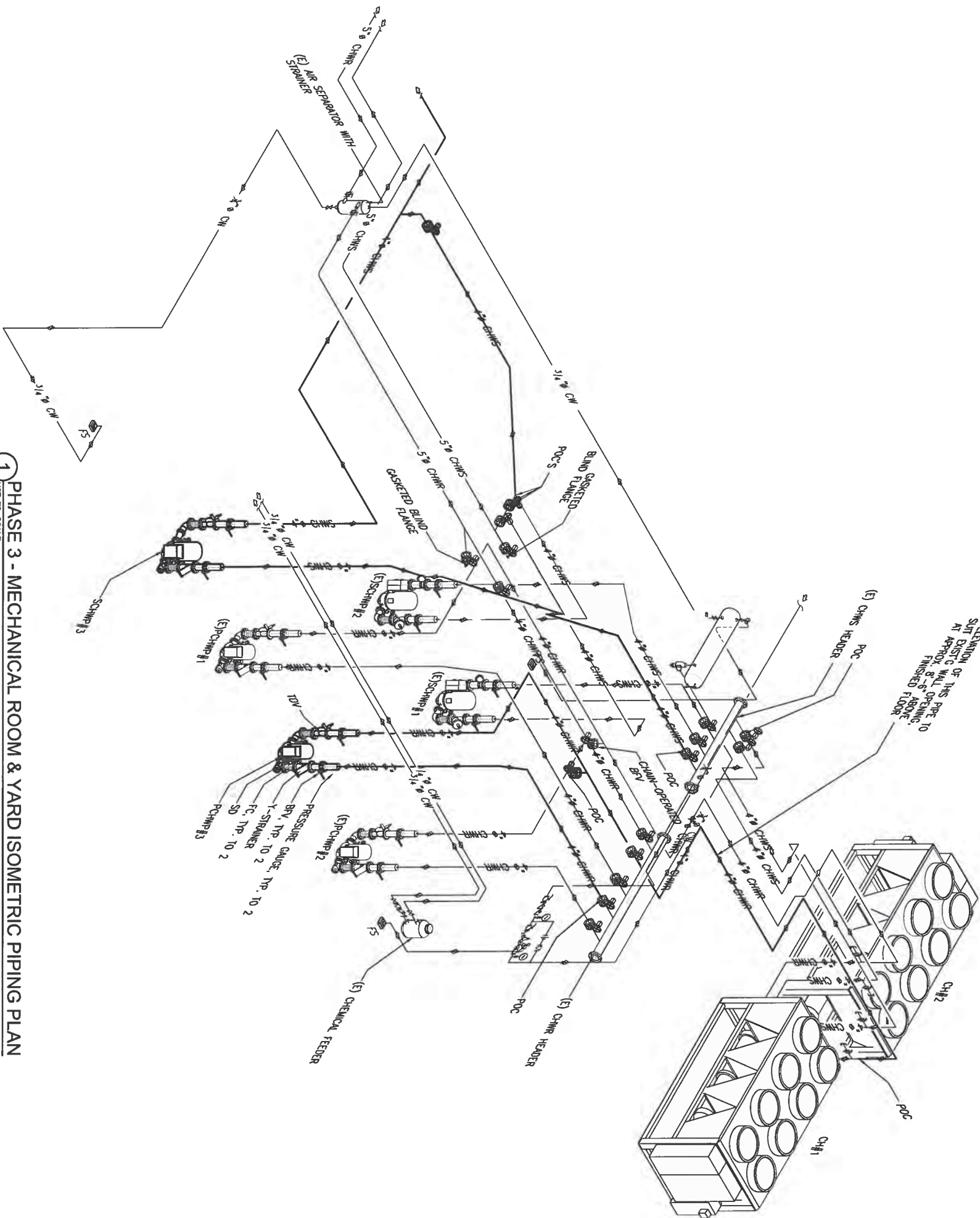


Project:  
ACF CHILBERS  
GMH SKILLED NURSING  
FACILITY

BARRIGADA, GUAM  
Title:  
PHASE 3 - MECHANICAL  
ROOM & YARD ISOMETRIC  
PIPING PLAN

Designed:	EMC2
Drawn:	KPC
Checked:	ASC
Supv:	ASC
Scale:	AS SHOWN
Date:	10/27/2021
Project No:	61K2111
Drawing No.	

M6.2



1 PHASE 3 - MECHANICAL ROOM & YARD ISOMETRIC PIPING PLAN  
NOT TO SCALE



GENERAL NOTES

- ELECTRICAL LAYOUT DRAWINGS ARE PARTIALLY DIAGRAMATIC. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND HVAC FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL AND ARCHITECTURAL DETAILS, AND LOCATIONS OF FIRES AND STRUCTURAL STEEL. STRUCTURAL STEEL CONNECTIONS SHALL BE SHOWN COORDINATING WITH THE ELECTRICAL SYSTEMS. LOCATE ALL ELECTRICAL EQUIPMENT, TERMINALS, AND RACEWAYS IN PROPER RELATION TO FINISHED AREAS EXCEPT WHERE DIMENSIONED ON THE DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS. COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF WORK AND FOR TIMELY EXECUTION OF CONSTRUCTION.
- FURNISH ALL LABOR, EQUIPMENT, APPLIANCES, MATERIALS AND PERFORM OPERATIONS REQUIRED FOR COMPLETE INSTALLATION OF SYSTEMS SPECIFIED IN ACCORDANCE WITH DRAWINGS, CODES, ORDINANCES AND TERMS AND CONDITIONS OF CONTRACT.
- COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS, REFER TO THE SCHEDULES, LAYOUTS, AND DETAILS. THE APPEARANCE OF A PARTICULAR SYMBOL DOES NOT NECESSARILY IMPLY THAT THE ITEM IS INCLUDED IN THE CONTRACT.
- PROVIDE ADDITIONAL SUPPORTS FOR SWITCHES, STARTERS, RACEWAYS AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.
- VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC. TO SUIT THE PARTICULAR AREAS. SUPPORT RACEWAYS WITH APPROVED TYPES OF WALL BRACKETS OR CEILING TRAPPEZ HANGERS. DO NOT SUSPEND FROM DROPPED CEILING, THE WIRE OR T-BAR. PROVIDE SAFETY WIRES FOR EACH LIGHTING FIXTURE. NEW DROPPED CEILING SO THAT IN THE EVENT OF CEILING FAILURE, NO PART OF THE FIXTURE WILL DROP MORE THAN 12" BELOW NORMAL CEILING HEIGHT.
- PROVIDE SEAL FITTINGS IN CONDUITS THAT ENTER CONDITIONED AREAS FROM NON-CONDITIONED AREAS.
- PROPERLY GROUND CONDUIT SYSTEM, OUTLETS, FIXTURES, ETC. IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, SECTION 250. PROVIDE ALL BONDING, JUMPERS AND WIRE, GROUNDING BUSHINGS, CLAMPS, ETC. REQUIRED FOR COMPLETE GROUNDING. PROVIDE GREEN GROUND WIRE IN EACH RACEWAY.
- CONNECT BRANCH CIRCUIT NEUTRAL TO RECEPTACLE TERMINAL BY MEANS OF A SHORT "PIGTAIL" PERMANENTLY SPLICED TO THE NEUTRAL.
- PROVIDE 3/4" CONDUIT FROM EACH THERMOSTAT TO THE EQUIPMENT THAT IT CONTROLS. SEE MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.
- ALL WIRING SHALL BE COPPER. ALL POWER WIRING #10 AND SMALLER SHALL BE SOLID. #8 AND LARGER MAY BE STRANDED. COLOR CODE ALL WIRING BY SYSTEM. FOR 120/208V SYSTEMS, PHASE A SHALL BE BLACK, PHASE B SHALL BE RED AND PHASE C SHALL BE BLUE. FOR 277/480V SYSTEMS, PHASE A SHALL BE BROWN, PHASE B SHALL ORANGE AND PHASE C SHALL BE YELLOW.
- SCOPE OF ELECTRICAL WORK DOES NOT AFFECT GPA, GPA'S SERVICE ENTRANCE WIRING, GPA'S TRANSFORMER OR GPA'S METER.

LEGEND

	REVISION SYMBOL
	AS SUBSCRIPT DENOTES "WEATHERPROOF" GROUND FAULT CIRCUIT INTERRUPTER
	TRANSFORMER
	MOTOR CONNECTION
	BRANCH CIRCUIT, 1=HOT, 2=NEUTRAL, 3=SWITCHED FLEXIBLE CONDUIT
	HOME RUN TO PANEL OR CABINET
	MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH - UNFUSED
	COMBINATION MOTOR STARTER - DISCONNECT JUNCTION BOX
	DUPLEX CONVENIENCE OUTLET
	CIRCUIT BREAKER
	AMP FRAME
	AMP TRIP
	CONTRACTOR COIL
	ROOM NUMBER
	REFER TO NOTE INDICATED HORSE POWER
	EXHAUST FAN
	NOT IN CONTRACT
	CURRENT TRANSFORMER
	EQUIPMENT CONNECTION CALLOUT BRANCH CIRCUIT PANEL

EXISTING SYSTEM NOTES

- USE MATERIALS TO MATCH EXISTING CONSTRUCTION UNLESS SPECIFIED ELSEWHERE IN THESE CONTRACT DOCUMENTS. MATERIALS SHALL COMPLY TO LOCAL CODES AND UL AND SHALL BE PROPERLY APPLIED TO THEIR INTENDED FUNCTION.
- RELOCATE ALL EXISTING EQUIPMENT AND DEVICES REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION AS SHOWN ON THE DRAWINGS. EXISTING WORK WHICH, IN THE OPINION OF THE ARCHITECT, IS TO REMAIN, SHALL BE RELOCATED IF NECESSARY.
- EXISTING ELECTRICAL EQUIPMENT, WIRING AND INSTALLATION WHICH ARE TO BE REMOVED, SHALL BE REMOVED AS A PART OF THIS CONTRACT AND SHALL BE DISPOSED OF PROPERLY. VERIFY WHICH MATERIALS ARE CONSIDERED SALVAGE, AND THESE SHALL BE TURNED OVER TO THE OWNER FOR HIS USE.
- EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO BE RELOCATED, MATCHING EXISTING WIRE AND CONDUIT SIZE.
- RE-USE EXISTING RACEWAYS WHERE POSSIBLE AND WHERE PERMITTED BY CODE. RE-WORK EXISTING RACEWAYS WHERE REQUIRED. SECURE ALL REUSED RACEWAYS WHICH ARE LOOSE OR NOT PROPERLY CONNECTED.
- INSPECT ALL WIRE CONNECTIONS AND RETIGHTEN WHERE REQUIRED.
- CHECK CONTINUITY OF THE EXISTING GROUNDING AND RECONNECT AND RETIGHTEN ALL CONNECTIONS TO ESTABLISH A SAFE AND CONTINUOUS GROUNDING SYSTEM THROUGHOUT THE SYSTEM.

REVISIONS

No.	Description	Date

WIXON & ASSOC.  
CONSULTING ENGINEERING  
5000 WILSON BLVD.  
TAMPA, FL 33611  
TEL: (813) 546-1033  
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WWW.WIXON-ASSOCIATES.COM



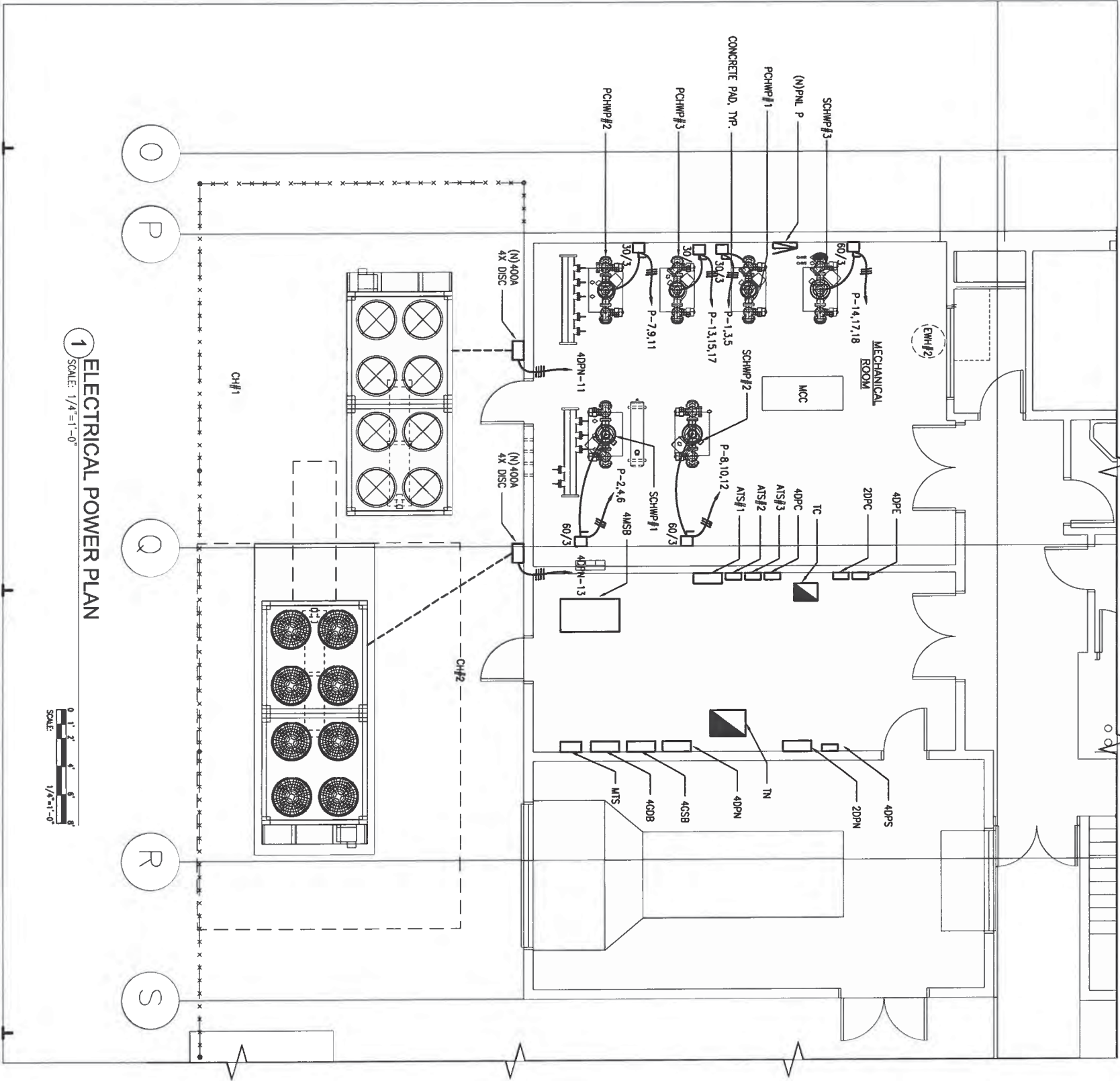
Project:  
ACF CHILDRS  
GMH SKILLED NURSING  
FACILITY

Barriagada, Guam

Title:  
NOTES, LEGEND

Designed:	WAW
Drawn:	TC
Checked:	
Supv:	
Scale:	AS SHOWN
Date:	10/27/2021
Project No.:	AutoCAD File 61K2111
Drawing No.:	

E1.0



1 ELECTRICAL POWER PLAN

0 1' 2' 4' 6' 8'  
SCALE: 1/4"=1'-0"  
1/4"=1'-0"

REVISIONS		
No.	Description	Date

WIXON & ASSOC.  
CONSULTING ENGINEERING  
225 S. MARINE DR.  
PALM BEACH, FL 33480  
TEL: (561) 846-1033  
WWW.WIXON-ASSOCIATES.COM

1. REGISTERED PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
DATE: 11-22-21

Project:  
ACF CHILDREN'S  
GEN SKILLED NURSING  
FACILITY

Barriagada, Guam  
Title:  
ELECTRICAL POWER PLAN

Designed:	WAW
Drawn:	TC
Checked:	
Supr:	
Scale:	AS SHOWN
Date:	10/27/2021
Project No:	61K2111
Drawing No:	AutoCAD File 61K2111.dwg



