## GENERAL NOTES FOR WORK RELATED TO GPA:

- COORDINATE WITH GPA ENGINEERING 48 HOURS IN ADVANCE FOR INSPECTION OF MANHOLE, HANDHOLE, CONDUIT INSTALLATION, TRANSFORMER PAD AND CONDUIT/DUCT TESTING WITH MANDREL PRIOR TO CONCRETE POURING.
- 2. OWNER SHALL GRANT UTILITY EASEMENT TO GPA FOR POWER LINE, HANDHOLE AND TRANSFORMER PRIOR TO FINAL CONNECTION
- 3. APPLICATION FOR POWER SERVICE MUST BE SUBMITTED 12 MONTHS IN ADVANCE BEFORE FINAL CONNECTION/ENERGIZATION TO ALLOW FOR DELIVERY OF GPA MATERIALS AND EQUIPMENT
- 4. ALL CONDUITS MUST BE CLEANED AND MANDRELLED IN THE ALL CONDUITS MUST BE CLEARLY AND MANYELLED IN THE PRESENCE OF A GPA INSPECTOR. ALL CONDUITS MUST BE PROVIDED WITH NYLON PULL ROPE OF 200 LBS. MINIMUM PULL
- 5. GPA HANDHOLE, TRANSFORMER AND METER SHALL BE ACCESSIBLE 24 HOURS A DAY FOR MAINTENANCE AND METER READING.
- 6. ALL ABOVE GROUND GPA CONDUITS SHALL BE RIGID ALUMINUM CONDUIT. ALL BELOW GRADE GPA CONDUIT SHALL BE CONCRETE ENCASED PVC SCHEDULE 40.
- 7. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE. (NEC) AND NATIONAL ELECTRICAL SAFETY CODE. (NESC).
- 8. CONTRACTOR/OWNER SHALL IDENTIFY THE REGISTERED LAND SURVEYOR (RLS) PROPERTY MARKERS/POINTS TO THE GPA INSPECTOR AT THE JOB SITE.
- PROVIDE 3 FEET MINIMUM CLEARANCE ALL AROUND HANDHOLES, TRANSFORMERS, AND METERING EQUIPMENT FROM FENCES, WALLS,
- 10. CONTRACTOR/OWNER SHALL OBTAIN A REGISTERED LAND SURVEYOR TO PROVIDE NEW POLE STAKEOUT AND DOWN-GUY LOCATIONS. COORDINATE WITH GPA ENGINEERING FOR SPECIFIC REQUIREMENTS.
- CONTRACTOR/OWNER SHALL OBTAIN A REGISTERED LAND SURVEYOR TO PREPARE EASEMENT EXHIBITS FOR GPA POLES, HANDHOLES, TRANSFORMERS, OVERHEAD/UNDERGROUND POWER LINES AND OTHER ASSOCIATED POWER FACILITIES. COORDINATE WITH GPA ENGINEERING FOR SPECIFIC REQUIREMENTS.
- 12. ALL SURVEY STAKEOUTS, MAPS, AND EASEMENT DOCUMENTS SHALL BE FIELD VERIFIED BY GPA.
- 13. SHOULD ARCHAEOLOGICAL MONITORING AND MITIGATION BE REQUIRED BY THE DEPARTMENT OF PARKS AND RECREATION STATE HISTORIC PRESEVATION OFFICE (SHPO), THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING AN ARCHAEOLOGIST TO PERFORM MONITORING AND MITIGATION SERVICES SATISFACTORY TO SHPO. ALL COSTS FOR SUCH SERVICES SHALL BE THE RESPONSIBILITY OF THE OWNER

## **GENERAL NOTES:**

- A. CONTRACTOR SHALL VERIFY ACTUAL LOCATION OF EXISTING EQUIPMENT AND UTILITIES INCLUDING CONNECTION POINT.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH UL LISTED FIREPROOFING MATERIAL.
- C. ALL CONDUITS PASSING THRU AIR CONDITIONED AND NON- AIR CONDITIONED SPACE SHALL BE PROVIDED WITH CONDUIT SEAL FITTING FILLED WITH SEALING COMPOUND AFTER WIRING IS
- D. PROVIDE MINIMUM 12" SEPARATION BETWEEN NETWORKING/ TELECOM CONDUITS AND ELECTRICAL (POWER) CONDUITS AND EQUIPMENT INCLUDING LIGHT FIXTURES.
- E. ELECTRICAL INSTALLATION FOUNDATION AND SUPPORTS SHALL CONFORM TO SEISMIC ZONE 4 REQUIREMENTS.
- F. ALL OUTDOOR ELECTRICAL INSTALLATION SHALL WITHSTAND ITO MPH SUSTAINED WINDLOAD IN ACCORDANCE WITH IBC 2009 EXPOSURE C AND ASCE 7-05.
- G. A COMMISIONING AGENT SHALL BE RETAINED BY THE CONTRACTOR TO CONFIRM THE FOLLOWING SYSTEM HAVE BEEN CORRECTLY INSTALLED AND TESTED FOR PROPER OPERATION:
- A. PV SYSTEM
- B. LIGHTING CONTROLS

	ELECTRICAL SYMBOL LIST (CONT.)
c—	COMMUNICATION RACEWAY
—F—	FIRE ALARM RACEWAY
<u></u> и	DATA RACEWAY
—т/N—	TELEPHONE /DATA RACEWAY
—EM—	EMERGENCY POWER RACEWAY
3	RACEWAY, STUBBED AND CAPPED
=====	CABLE TRAY
₿	DAYLIGHT PHOTO SENSOR
<u> </u>	DUAL TECHNOLOGY OCCUPANCY SENSOR
PP	POWER PACK FOR OCCUPANCY SENSOR
\$	3-POSITION SWITCH MAINTAINED CONTACT
	INDICATOR, DETAIL : TOP HALF-DETAIL NUMBER BOTTOM HALF-SHEET NUMBER (DET. LOCATION)
(A)	INDICATOR, LIGHT FIXTURE TYPE
	INDICATOR, RACEWAY SECTION
$\bigcirc$	NOTE INDICATOR
AF/AT	AMPERE FRAME/AMPERE TRIP
AFF/AFG	ABOVE FINISH FLOOR/GRADE
FO	FIBER OPTIC
<b>6</b> FI	GROUND FAULT INTERRUPTER
NFS	NON-FUSIBLE SMITCH
NL/CL	NIGHT LIGHT/CURFEW LIGHT
NO/NC	NORMALLY OPEN/NORMALLY CLOSED
oF01	OWNER FURNISHED, OWNER INSTALLED
PFB	PROVISION FOR FUTURE BREAKER
SST	STAINLESS STEEL
MP	INDICATES WEATHERPROOF
MR	MEATHER RESISTANT LISTED

	МО	_	NG HE	_			JLE
DEVICE	MOUNTING		REFER	ENCE PO	DINT		REMARKS
ON PLAN	HEIGHT	FLOOR	CEILING	TO	Q.	TOP	REMARKS
⊕,⊖	15"	•			•		
<b>⋈,⋈</b> ,	15"	•			•		
\$,\$ <sub>3</sub>	4'-0"	•			•		
HE	4'-0"	•			•		
H≣\$-,H≣¤	6'-8" or 6"	•	•		•	•	WHICHEVER IS LOWER
-	5'-6"	•				•	
<b>6</b> , <b>6</b>	5'-6"	•				•	
	5'-6"	•				•	

	ELECTRICAL SYMBOL LIST
	LIGHT, FLUORESCENT RECESSED MOUNTED, SHADE INDICATES INTEGRAL EMERGENCY BATTERY PACK.
	FLUORESCENT CEILING SURFACE OR PENDANT MOUNTED
 	DOWNLIGHT, CEILING RECESSED MOUNTED
0	LIGHT, CEILING SURFACE MOUNTED
ю	LIGHT, WALL MOUNTED
	LIGHT, FLUORESCENT, WALL MOUNTED
<u> </u>	EXIT SIGN LIGHT, SHADED QUADRANT INDICATES SIGN LETTERED FACE
<b>₩</b>	CHEVRON TYPE DIRECTIONAL ARROWS, CEILING/MALL MOUNTED
<b>\$</b> a	SWITCH, FLUSH TUMBLER, WALL MOUNTED
<b>\$</b> 3	SWITCH, FLUSH TUMBLER, 3 MAY, WALL MOUNTED, 20A, 120/277 VOLTS
<b>\$</b> ⊤	TIMER SWITCH
<b>\$</b> <sub>3</sub> <sup>T</sup>	TIMER SWITCH, 3-MAY
"a"	LETTER INDICATES FIXTURE OR DEVICE CONTROLLED BY SMITCH "a", OTHER LETTERS SAME
<b>⊕/</b> #	RECEPTACLE, DUPLEX, WALL/FLOOR MOUNTED, 20A, 125 VOLTS, NEMA 5-20R
<del>♀</del> /==	COMPUTER TYPE OUTLET, DUPLEX, WALL/FLOOR MOUNTED, NEMA 5-201
#	FOURPLEX RECEPTACLE, COMPUTER TYPE, 4 WAY, 20A, 120V, $ \phi\rangle$ , 3 NEMA 5-20R FLOOR MOUNTED
0	SINGLE RECEPTACLE, 20A, 125 VOLTS, WALL MOUNTED, NEMA 5-20R
<b>⊕</b> ¿	RECEPTACLE, DUPLEX, CEILING MOUNTED, NEMA 5-20R
<b>(4)</b>	COMMUNICATION OUTLET (2-DATA) CEILING MOUNTED
<b>4/</b>	COMBINATION TEL/DATA OUTLET, WALL/FLOOR MOUNTED, 4-POSITION (2-DATA, I-VOICE & I-SPARE)
<b>M/</b>	DATA OUTLET, WALL/FLOOR MOUNTED, 2-POSITION (2-DATA)
Ħ	TELEPHONE OUTLET, 2 POSITION
Ø	WIFI LINK , CEILING MOUNTED
HE	FIRE ALARM MANUAL PULL STATION
H≣¤	FIRE ALARM, AUDIO / VISUAL, WALL MOUNTED
<b>6</b> 9	DUCT SMOKE DETECTOR
Ð	HEAT DETECTOR
Ø	SMOKE DETECTOR, CEILING MOUNTED
Θ	HEATER CONNECTION
Ø	MOTOR CONNECTION
Ð	FAN CONNECTION
Œ	EQUIPMENT CONNECTION
O	PHOTOCELL
٠	POWER POLE
×	MOTOR STARTER FURNISHED BY MECHANICAL, INSTALLED & WIRED UNDER ELECTRICAL WORK
ĺ	EQUIPMENT DISCONNECT SMITCH, HP RATED
_	ELECTRIC PANELBOARD
	TELEPHONE CABINET OR BACKBOARD
	FIRE ALARM CONTROL PANEL
7	CABLE TV CABINET
	RACEMAY, CONCEALED BELOW FIN. FLOOR OR GROUND. NUMBER OF WIRES WITHIN AS REQUIRED INCLUDING GROUND
	RACEMAY, CONCEALED IN CEILING OR WALL. NUMBER OF WIRES WITHIN AS REQUIRED INCLUDING GROUND
	ARROW, HOMERUN TO CABINET OR PANEL AS INDICATED.

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GENERAL NOTES &

**ELECTRICAL SYMBOL LIST** 

AND SCHEDULE

DESIGN DEVELOPMENT

AA

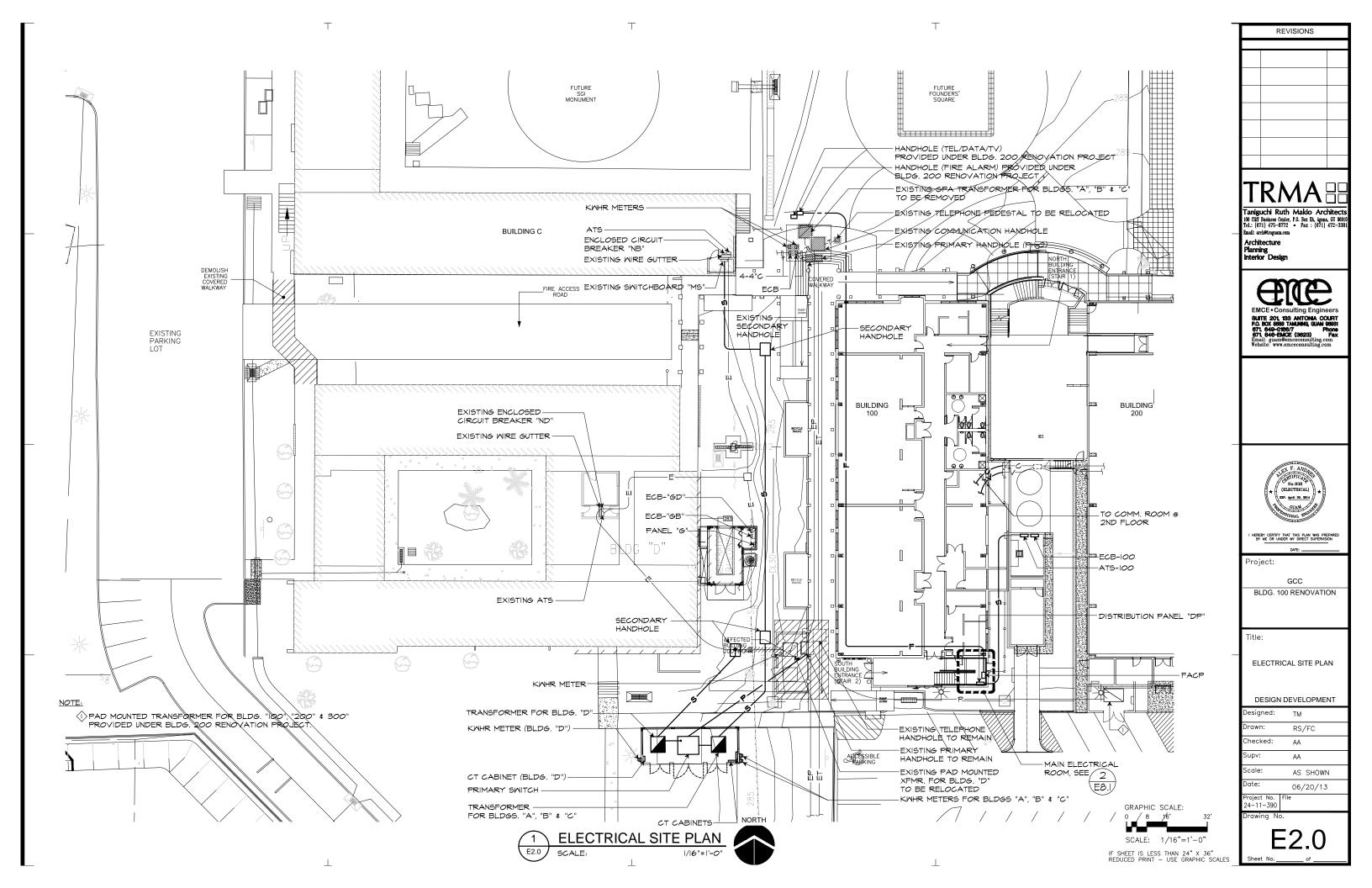
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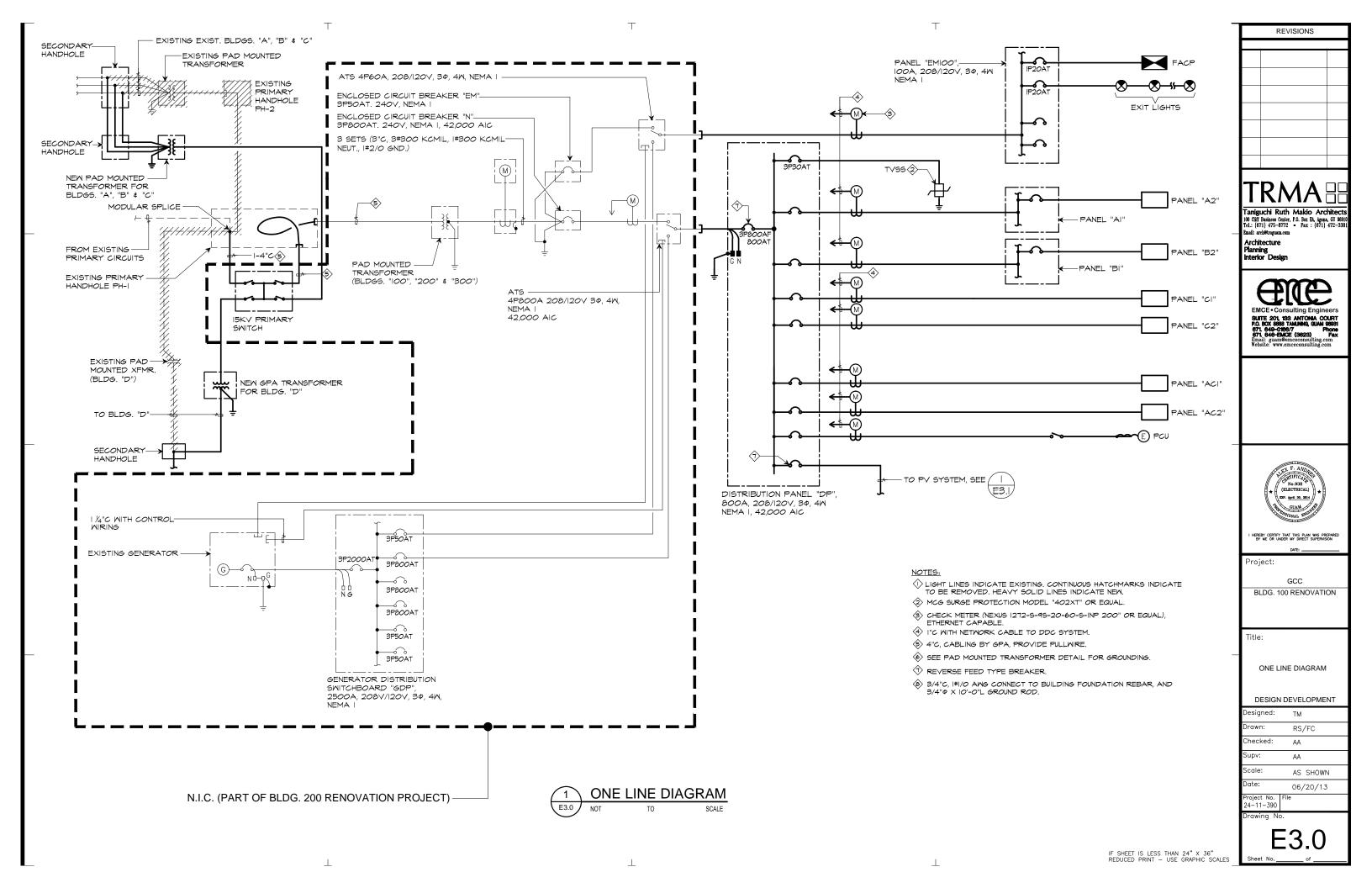
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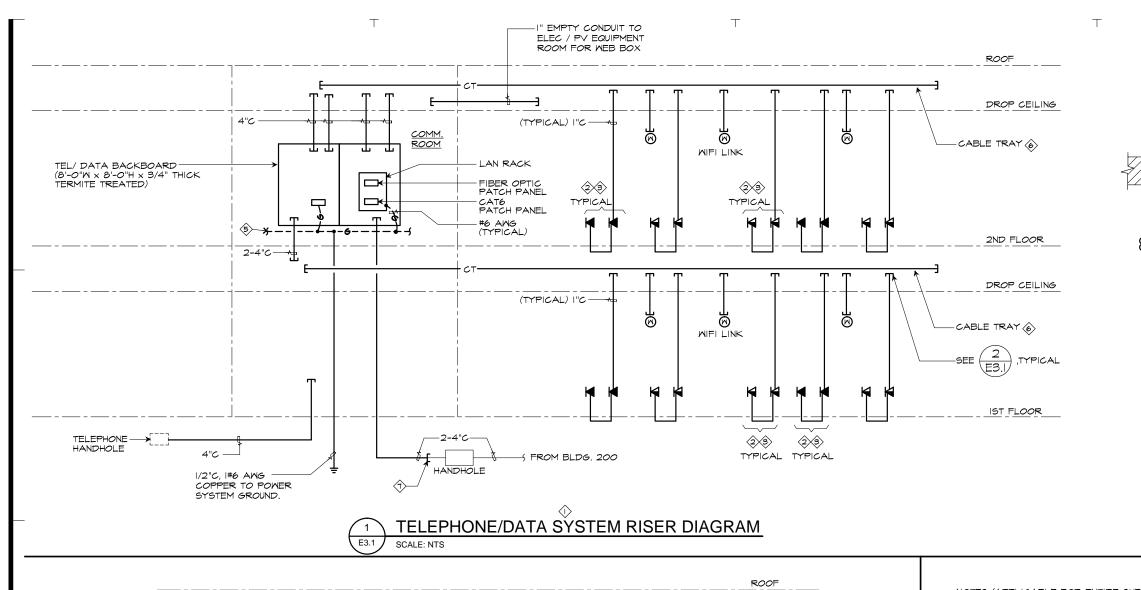
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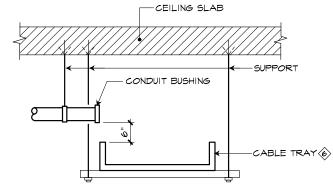
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**DETAIL** 

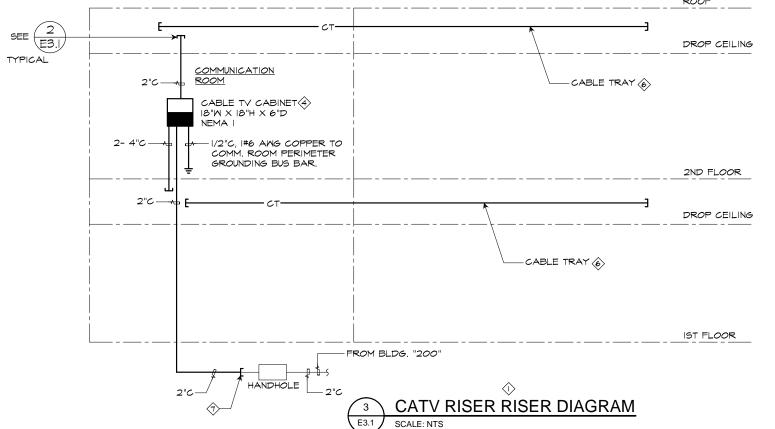
Architecture Planning Interior Design

 Taniguchi
 Ruth
 Makio
 Architects

 100 Chiff
 Business
 Center
 P.O.
 Box
 EA, Agana, GU
 9691

 Tel.:
 (671)
 475-8772
 =
 Fax
 : (671)
 472-338

REVISIONS



TYPICAL

## NOTES (APPLICABLE FOR ENTIRE SHEET):

- () EMPTY CONDUIT SYSTEM ONLY EXCEPT AS NOTED FOR ELEVATOR. MINIMUM CONDUIT SIZE SHALL BE I"C. LIMIT MAXIMUM NUMBER OF BENDS TO 2-90°. PROVIDE PULLWIRE IN ALL CONDUITS.
- \$\times\$ SEE PLANS FOR QUANTITY AND LOCATION OF DEVICES.
- 3 MAXIMUM OF 2 OUTLETS PER HOMERUN.
- PROVIDE 3/4" THICK TERMITE TREATED BACKBOARD IN CABINET.
- \$\text{\text{\$\sigma}} \text{PERIMETER GROUNDING BUSBAR, COPPER (4"M X |/4"THICK X LENGTH AS REQUIRED) COMPLETE WITH INSULATOR AND MOUNTING ACCESSORIES. SUBMIT SHOP DRAWING
- $\mbox{\Large \&}$  CABLE TRAY, ALUMINUM, LADDER TYPE (12"W x 6" DEPTH x LENGTH AS REQUIRED). CABLE TRAY SHALL BE GROUNDED AS PER NEC REQUIREMENT. SUBMIT SHOP DRAWING FOR APPROVAL.
- (T) INTERCEPT EXISTING CONDUITS, EXTEND NEW CONDUITS TO BLDG. 100. SEE SITE PLAN FOR QUANTITY AND LOCATION.



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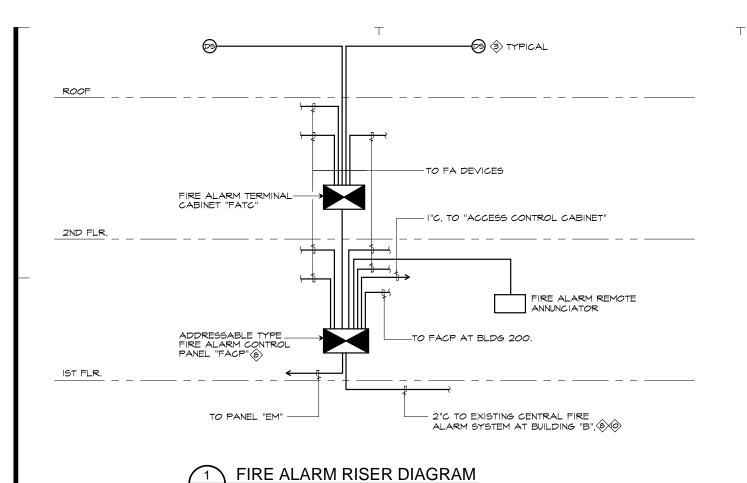
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TELEPHONE/DATA AND CABLE TV RISER DIAGRAM

DESIGN DEVELOPMENT

Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File



- DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUT SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES (NFPA 72), MANUFACTURER'S RECOMMENDATION, SPECIFICATION, AND EQUIPMENT LISTING. CONDUIT AND WIRE SIZES SHALL BE AS PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS.
- (2) INITIATING DEVICE FIELD WIRING AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SEPARATE. WIRE SIZE SHALL BE SUFFICIENT TO PREVENT VOLTAGE DROP.
- $\begin{picture}(2000)\put(0,0){\line(0,0){100}}\put(0,0)$
- (A) INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT START UNTIL SHOP DRAWINGS ARE SUBMITTED AND APPROVED.
- - MANUFACTURER'S REQUIREMENTS.
- MINIMUM CONDUIT SIZE SHALL BE 3/4"C UNLESS OTHERWISE INDICATED.

  SEE PLAN FOR QUANTITY AND LOCATION OF DEVICES.
- REPORTING SHALL BE COMPATIBLE WITH THE EXISTING CENTRAL FACITLITY FIRE ALARM SYSTEM. REPORTING TO CENTRAL FA SYSTEM SHALL BE BY DEVICE.
- (a) a. HEAT DETECTOR SHALL HAVE BOTH A LOW TEMPERATURE
  RATING AND A HIGHER SENSITIVITY AS COMPARED TO THE SPRINKLER HEAD INSTALLED IN THE SAME ROOM. HEAT DETECTOR
  SHALL SHUT DOWN ELEVATOR PRIOR TO SPRINKLER OPERATIONS AND SHALL BE PLACED WITHIN 2 FEET OF SPRINKLER HEAD.
  - b. CONTROL CIRCUITS TO SHUT DOWN ELEVATOR POWER SHALL BE MONITORED FOR PRESENCE OF OPERATIONS VOLTAGE. LOSS OF VOLTAGE SHALL CAUSE A SUPERVISORY SIGNAL TO BE INDICATED AT THE CONTROL UNIT. ELEVATOR CONTRACTOR SHALL COORDINATE CONTROL AND SHUT DOWN REQUIREMENT WITH SPRINKLER AND FIRE ALARM CONTRACTOR.

REVISIONS

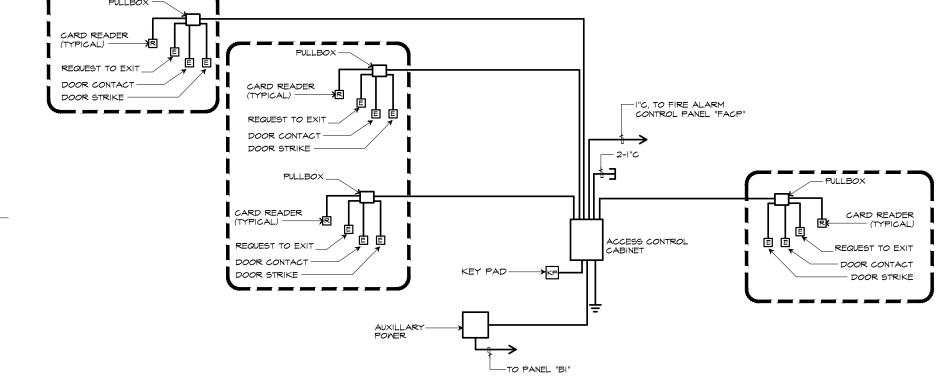
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Taniguchi Ruth Makio Architects 100 Chiff Business Center, P.O. Box Ed. Agana, GU 9691 Tel.: (671) 475-8772 = Fax: (671) 472-338 Email: arch@tranum.com

Architecture Planning Interior Design

EMCE • Consulting Engineer: SUITE 201, 133 ANTONIA COURT P.O. BOX 8888 TAMANIA, GLAM 9898 671. 649–619677 Phon

E3.2 NOT TO SCALE



NOT TO SCALE

ACCESS CONTROL SYSTEM RACEWAY RISER DIAGRAM

### NOTES:

SECURITY SYSTEM RISER DIAGRAM IS FOR GENERAL GUIDELINE ONLY. COORDINATE ACTUAL REQUIREMENTS, BACKBOXES, PULLBOXES, WIRES AND CONDUIT SIZES WITH OWNER'S SECURITY SYSTEM CONTRACTOR, SUBMIT SHOP DRAWING FOR APPROVAL.



BY ME OR UNDER MY DIRECT SUPERVISION

Project:

GCC

BLDG. 100 RENOVATION

Title

FIRE ALARM AND ACCESS CONTROL SYSTEM RACEWAY RISER DIAGRAMS

DESIGN DEVELOPMENT

Designed: TM

Drawn: RS/FC

Checked: AA

Supv: AA

Scale: AS SHOWN

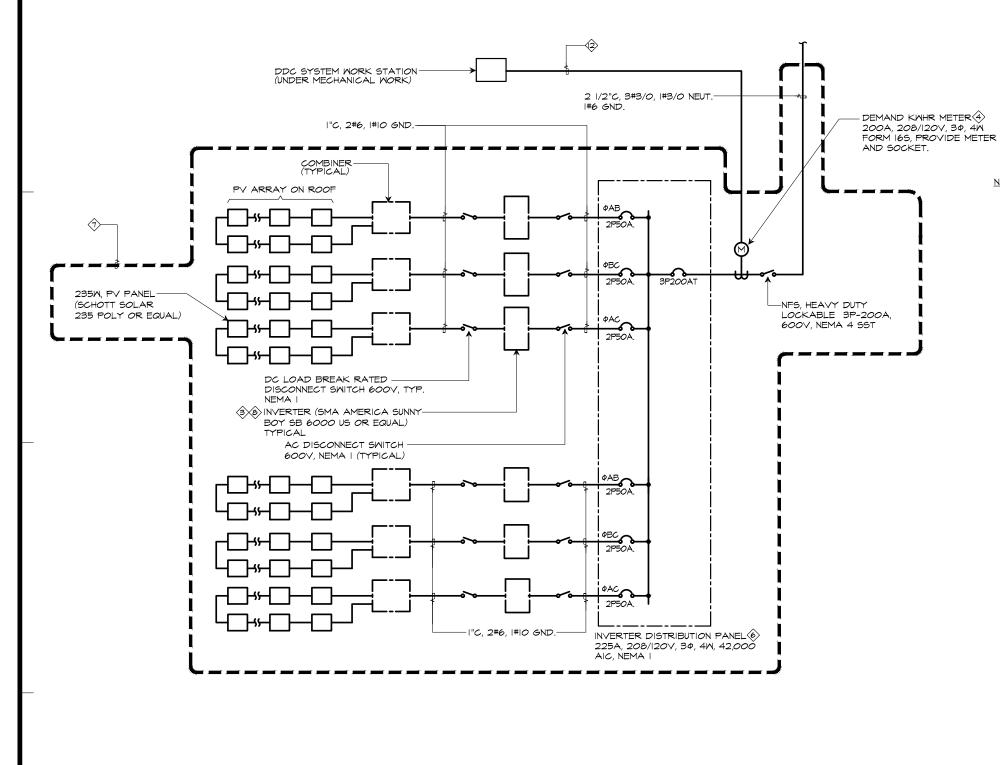
Date: 06/20/13

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E3.2

IF SHEET IS LESS THAN 24" X 36" REDUCED PRINT — USE GRAPHIC SCALES

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ONE LINE DIAGRAM (PV SYSTEM)
NOT TO SCALE

NOTES:

- A GRID-TIE PHOTO-VOLTAIC (PV) SYSTEM SHALL BE PROVIDED WITH A MINIMUM OUTPUT OF 20 KM RATED UNDER STANDARD TEST CONDITIONS (STC). PROVIDE 120 EACH 235 WATTS (SCHOTT SOLAR 235 POLY OR APPROVED EQUAL) PV MODULES CONFIGURED IN 12 ARRAYS WITH A STRING OF 10 PANELS MAY BE USED. REQUIRED AUXILIARY EQUIPMENT INCLUDING DISCONNECT SWITCHES, COMBINERS, INVERTERS, CIRCUIT BREAKERS, AND PANELBOARD SHALL BE PROVIDED. SYSTEM SHALL BE CONNECTED TO GROUND PER NEC REQUIREMENT.
- (2) PV MODULES SHALL BE MOUNTED ON THE ROOF USING MANUFACTURER STANDARD CORROSION RESISTANT CHANNELS, PANEL SHALL BE ORIENTED AND TILTED PER MANUFACTURER'S RECOMMENDATION FOR GUAM. INSTALLATION SHALL BE RATED TO WITHSTAND 170 MPH WINDLOAD IBC 2009 EXPOSURE C AND ASCE 7-05.
- THE PV SYSTEM INVERTER OUTPUT SHALL CONNECT TO THE BUILDING ELECTRICAL SYSTEM, POMER GENERATED BY THE PV SYSTEM SHALL BECOME AVAILABLE FOR UTILIZATION BY THE BUILDING LOAD, PROVIDE SURGE PROTECTION AND INTEGRAL GROUND FAULT PROTECTION, PROVIDE ANTI-ISLANDING, OVER AND UNDER VOLTAGE TRIP FUNCTION, OVER AND UNDER FREQUENCY TRIP FUNCTION, AND VOLTAGE AND FREQUENCY SENSING AND TIME DELAY FUNCTIONS PER IEEE STD 424-2000, PROVIDE WEB BOX CONNECTION FOR REMOTE MONITORING, LOCATION TO BE DETERMINED BY THE OWNER.
- A REVERSING KILO-WATTHOUR METER SHALL BE PROVIDED TO TRACK ENERGY PRODUCED BY THE PV SYSTEM.
- PROVIDE NAMEPLATE INDICATING "PHOTOVOLTAIC INVERTER PANELBOARD: DO NOT CONNECT ADDITIONAL LOAD TO THIS PANEL".
- 6 BOLT-ON TYPE.
- PROVIDE CONDUIT AND WIRING, PER MANUFACTURER'S RECOMMENDATION.
- (E) INVERTER SHALL HAVE INTEGRAL GROUND FAULT DETECTION, INTERRUPTION AND ARRAY DISCONNECT (GFPD) DEVICE.
- $\bigcirc$  REFER TO  $\bigcirc$  FOR SCHEMATIC DIAGRAM.
- $\begin{tabular}{l} \Leftrightarrow$  this diagram is for general guidelines. Submit shop drawing for approval by engineer showing the following:
  - I. POINT TO POINT WIRING DIAGRAM.
- 2. COMPLETE EQUIPMENT CATALOG CUTS.
- 3. EQUIPMENT MOUNTING DETAILS.
- 4. PV PANEL MOUNTING DETAILS, CERTIFIED BY GUAM REGISTERED STRUCTURAL ENGINEER.
- $\stackrel{\textcircled{\scriptsize 10}}{\Leftrightarrow}$  contractor shall obtain building permit and GPA approval on behalf of the owner.
- DI"C, WITH NETWORK CABLE TO DC SYSTEM.
- (3) PROVIDE MARKING "PHOTOVOLTAIC POWER SOURCE" ON RACEWAYS NO LESS THAN EVERY IO FEET, AT EVERY TURN, ABOVE AND BELOW PENETRATIONS AND ON ALL EXPOSED RACEWAYS. MINIMUM TEXT HEIGHT SHALL BE 3/8" USING WHITE LETTERING ON A RED BACKGROUND. LABELS MUST HAVE REFLECTIVE PROPERTIES AND SHALL MEET UL969 REQUIREMENTS. PROVIDE OTHER LABELS AS REQUIRED BY NEC 2011

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Taniguchi Ruth Makio Architects 100 Cliff Business Center, P.O. Box Ed. Agana, GU 9691 Tel.: (671) 475-8772 = Fax: (671) 472-338

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EMCE • Consulting Engineers
BUT EQUI, 193 ANTONIA COURT
PUT BOX 8898 TAMANNA; QUIM 98981
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671 646-066(26923)
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Project:

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BLDG. 100 RENOVATION

Title:

ONE LINE DIAGRAM (PV SYSTEM)

DESIGN DEVELOPMENT

Designed: TM

Drawn: RS/FC

Checked: AA

Supv: AA

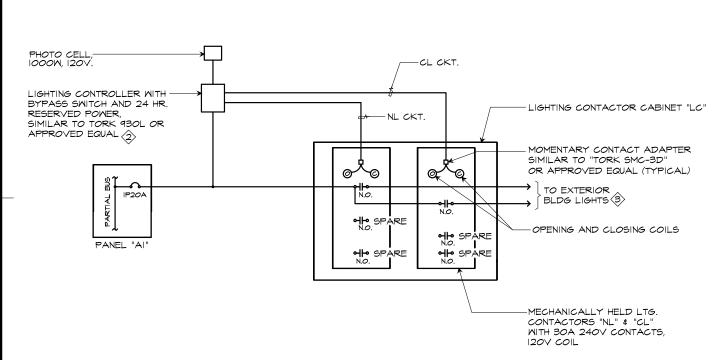
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24-11-390

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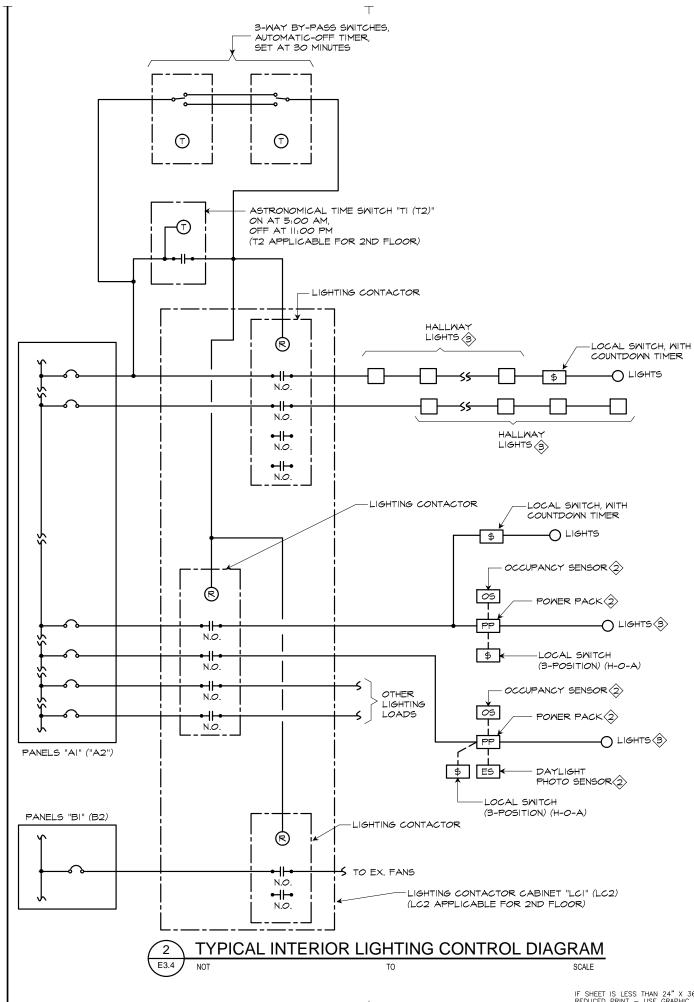
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## LIGHTING CONTROL DIAGRAM (EXTERIOR)

## NOTES: (APPLICABLE TO ENTIRE SHEET)

- OPERATION SHALL BE AS FOLLOWS: NIGHT LIGHT (NL ) = ON BY PHOTOCELL, OFF BY PHOTOCELL CURFEW LIGHTS (CL) = ON BY PHOTOCELL, OFF BY TIME SWITCH (OBTAIN SETTING FROM OWNER)
- > VERIFY MANUFACTURER'S WIRING REQUIREMENT.
- 3 SEE PLAN FOR QUANTITY AND LOCATION OF LIGHT FIXTURES.



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Title:

esigned:

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LIGHTING CONTROL

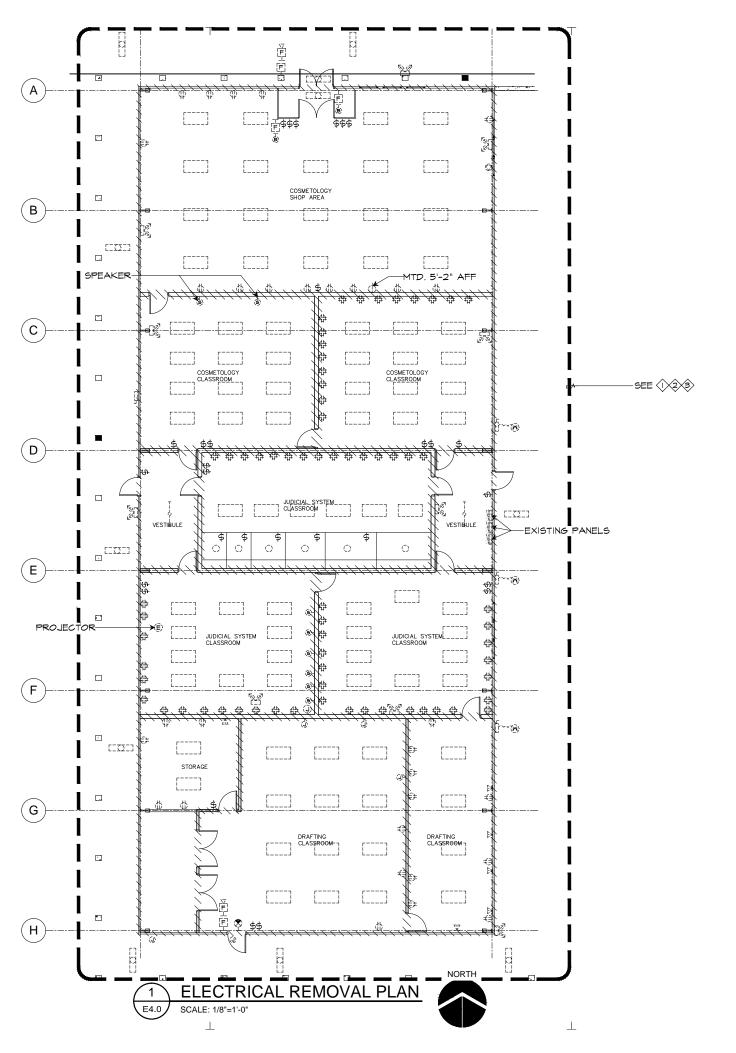
DESIGN DEVELOPMENT

AA

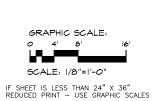
AS SHOWN

06/20/13

DIAGRAMS



- ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND DEVICES WITHIN THE BOUNDARY SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING UNLESS OTHERWISE INDICATED.
- 2 ALL REUSABLE FLUORESCENT LIGHT FIXTURES, OUTLETS AND SWITCHES SHALL BE SALVAGED AND DELIVERED TO A LOCATION ON CAMPUS AS DIRECTED BY THE CONTRACTING OFFICER.
- (3) ALL DEBRIS AND TRASH FROM CONSTRUCTION SHALL BE SORTED AND REMOVED FROM THE SITE IN ACCORDANCE WITH THE CONSTRUCTION WASTE MANAGEMENT PLAN.



REVISIONS

 $\mathsf{TRMA}$ 

Taniguchi Ruth Makio Architects
100 Cliff Business Center, P.O. Box Ed. Agana, GU 96910
Tel.: (671) 475-8772 = Fax: (671) 472-3381
Email: arch@traguam.com

Architecture Planning Interior Design

**MCE**•Consulting Engineers

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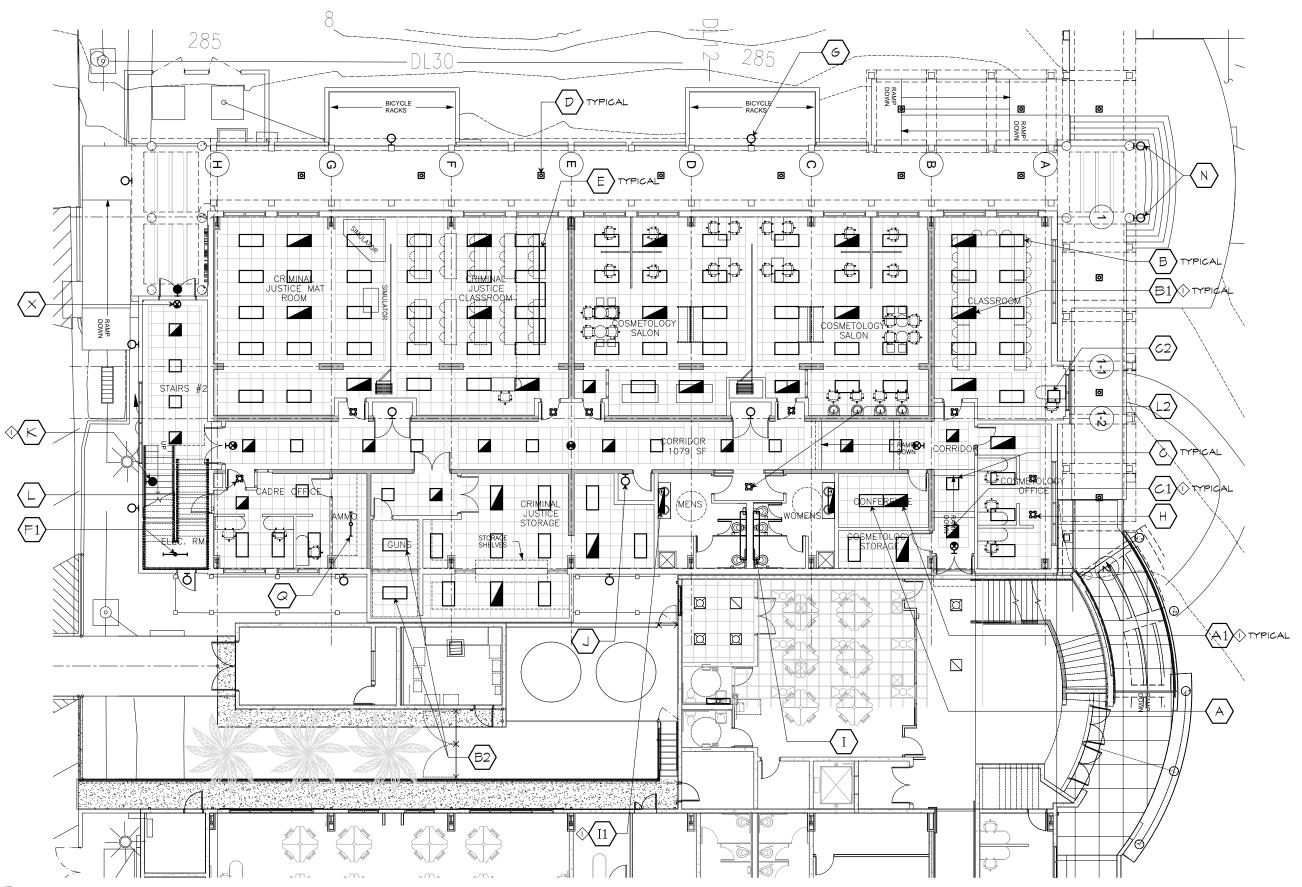
ELECTRICAL REMOVAL PLAN

DESIGN DEVELOPMENT

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ı	Checked:	AA
ı	Supv:	AA
	Scale:	AS SHOWN
ı	Date:	06/20/13
ı	Project No. 24-11-390	File

E4.0

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CONNECT EMERGENCY BATTERY PACK TO UNSWITHED CIRCUIT.







GCC BLDG. 100 RENOVATION

Title:

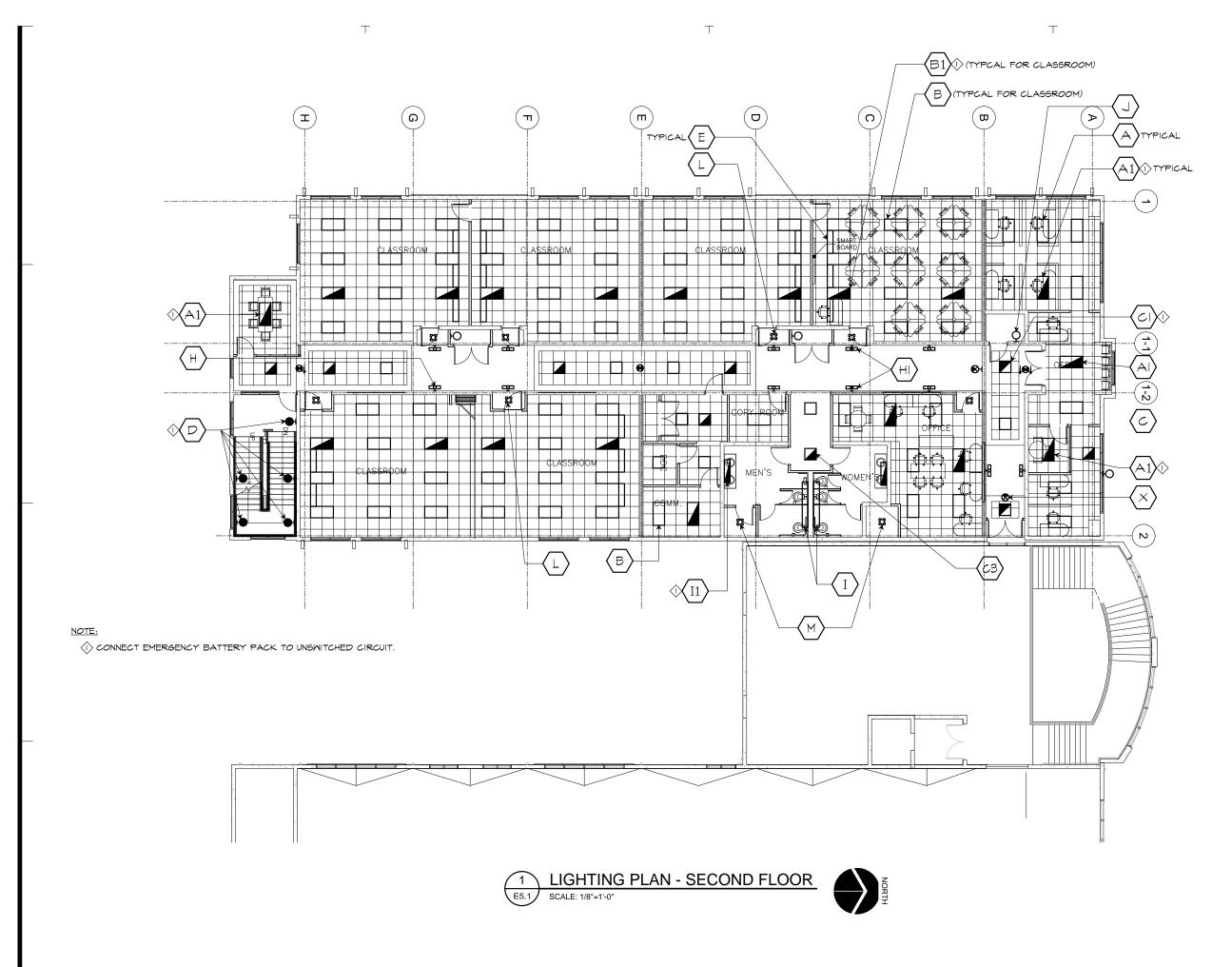
LIGHTING PLAN - FIRST FLOOR

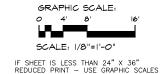
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24-11-390 | Drawing No.

E5.0





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Taniguchi Ruth Makio Architects 100 (tilf Business Center, P.O. Box Ed. Agana, GU 96910 Tel.: (671) 475-6772 - Fax: (671) 472-3381 Rmail: architeraruam.com

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UITE 201, 133 ANTONIA COURT O. BOX 8888 TAMANIA, GUAM 98931 71. 649-0198/7 Phone 771. 648-EMCE (3623) Fax mail: guam@emceconsulting.com besite: www.emceconsulting.com



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Project:

GCC BLDG. 100 RENOVATION

Title

LIGHTING PLAN -SECOND FLOOR

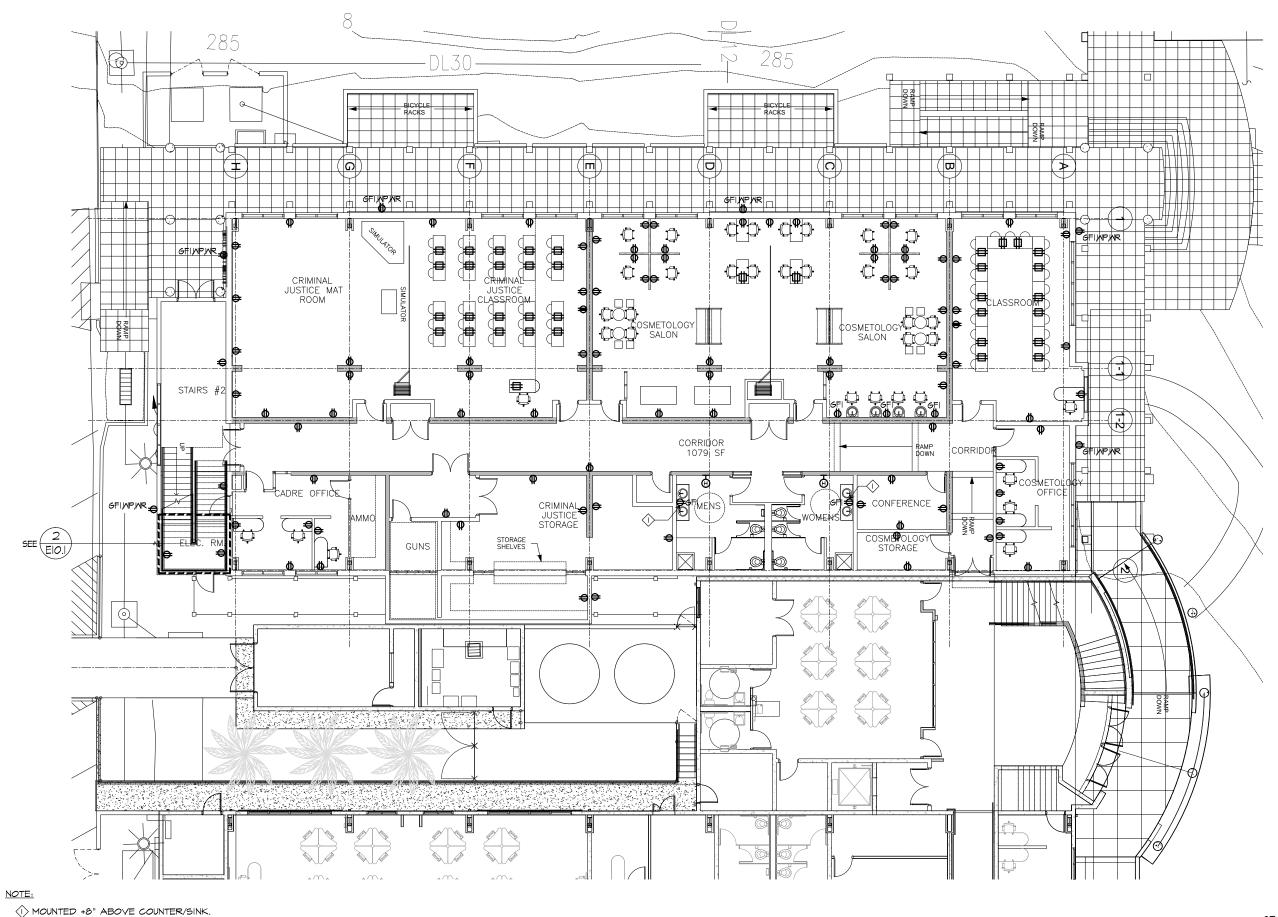
DESIGN DEVELOPMENT

Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File

E5.1

S THAN 24" X 36"

— USF GRAPHIC SCALES Sheet No. of



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

E6.0 IF SHEET IS LESS THAN 24" X 36" REDUCED PRINT - USE GRAPHIC SCALES

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Taniguchi Ruth Makio Architects 100 Cliff Business Center, P.O. Box Ed, Agana, GU 96910 Tel.: (671) 475-8772 = Fax: (671) 472-3381

SUITE 201, 133 ANTONIA COURT P.O. BOX 8888 TAMUNING, GUAM 98831

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

GCC BLDG. 100 RENOVATION

> POWER PLAN - FIRST FLOOR

DESIGN DEVELOPMENT

RS/FC

AS SHOWN

06/20/13

AA

Project:

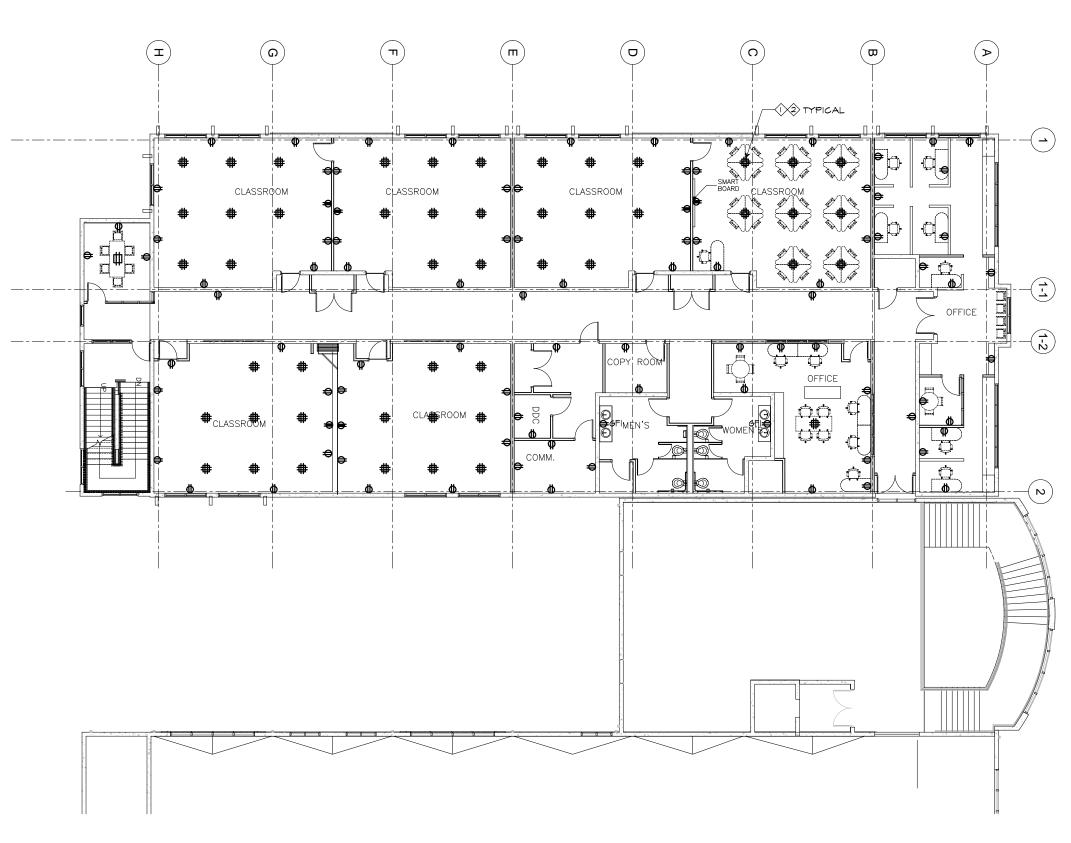
Designed:

hecked:

Project No. 24-11-390

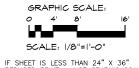
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POWER PLAN - FIRST FLOOR SCALE: 1/8"=1'-0"



- PROVIDE POKE THROUGH FLOOR MOUNTED RECEPTACLE OUTLET SIMILAR TO STEEL CITY "FPT4" OR APPROVED EQUAL.
- DOCATE FLOOR OUTLETS OUTSIDE OF DOUBLE TEE LEGS.
  COORDINATE BLOCK-OUTS WITH DOUBLE TEE FABRICATION.





REVISIONS

**TRMA** ::

Taniguchi Ruth Makio Architects
100 Cliff Business Center, P.O. Box Ed. Agana, GU 98010
Tel.: (671) 475-6772 = Fax: (671) 472-3381
Email: arch@traguam.com

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BUTE 201, 133 ANTOMA COURT P.O. BOX 8888 TAMANN, GUAM 98831 871. 649-0168/7 Phone 871. 646-EMCE (3623) Fax mail: guam@emcconsulting.com (ebsite: www.emceconsulting.com



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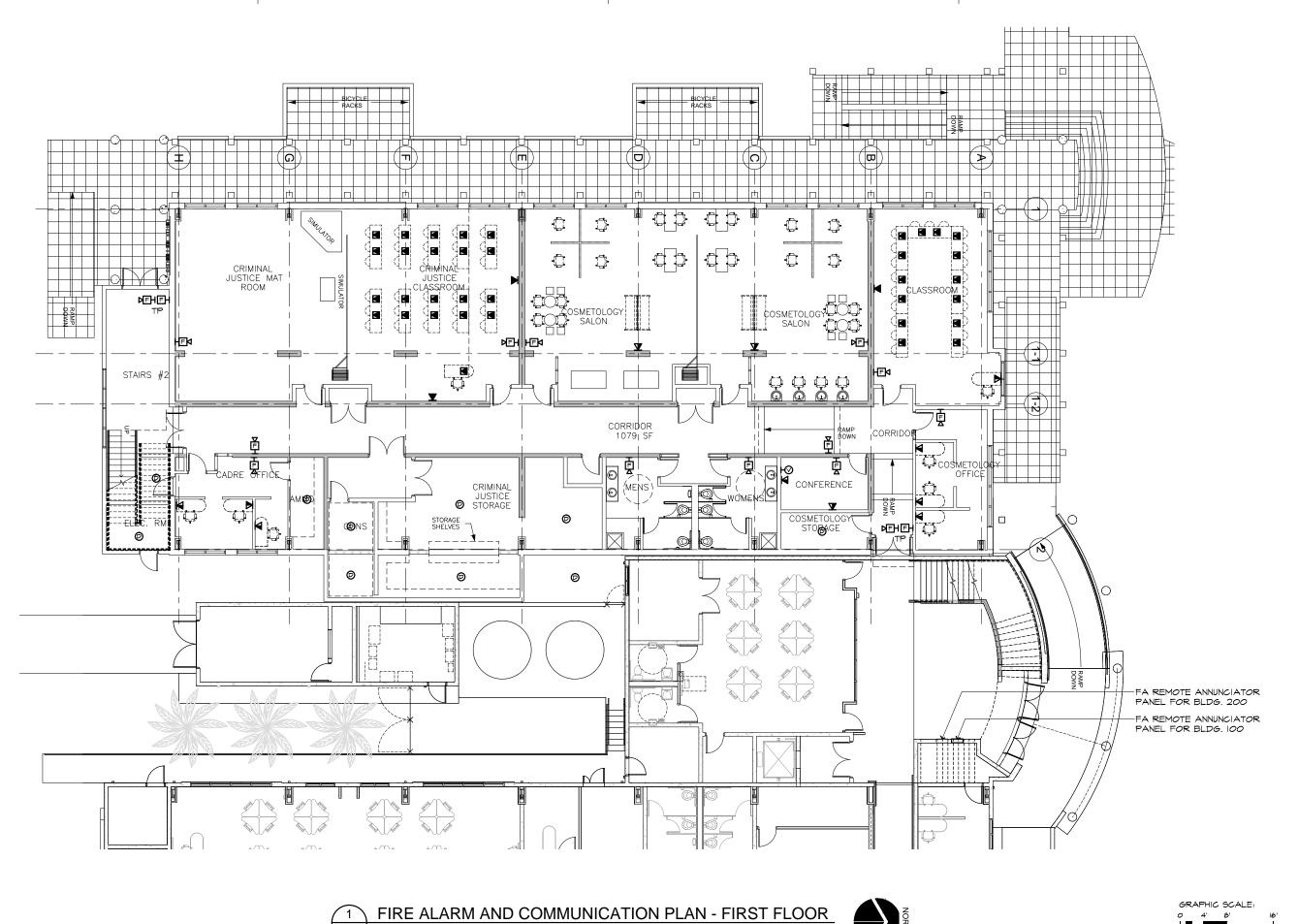
Title

POWER PLAN - SECOND FLOOR

DESIGN DEVELOPMENT

Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No.	File

E6.1



Taniguchi Ruth Makio Architects
100 Cliff Business Center, P.O. Box EA, Agana, GU 96910
Tel.: (671) 475-8772 = Fax: (671) 472-3381

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Project:

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Title:

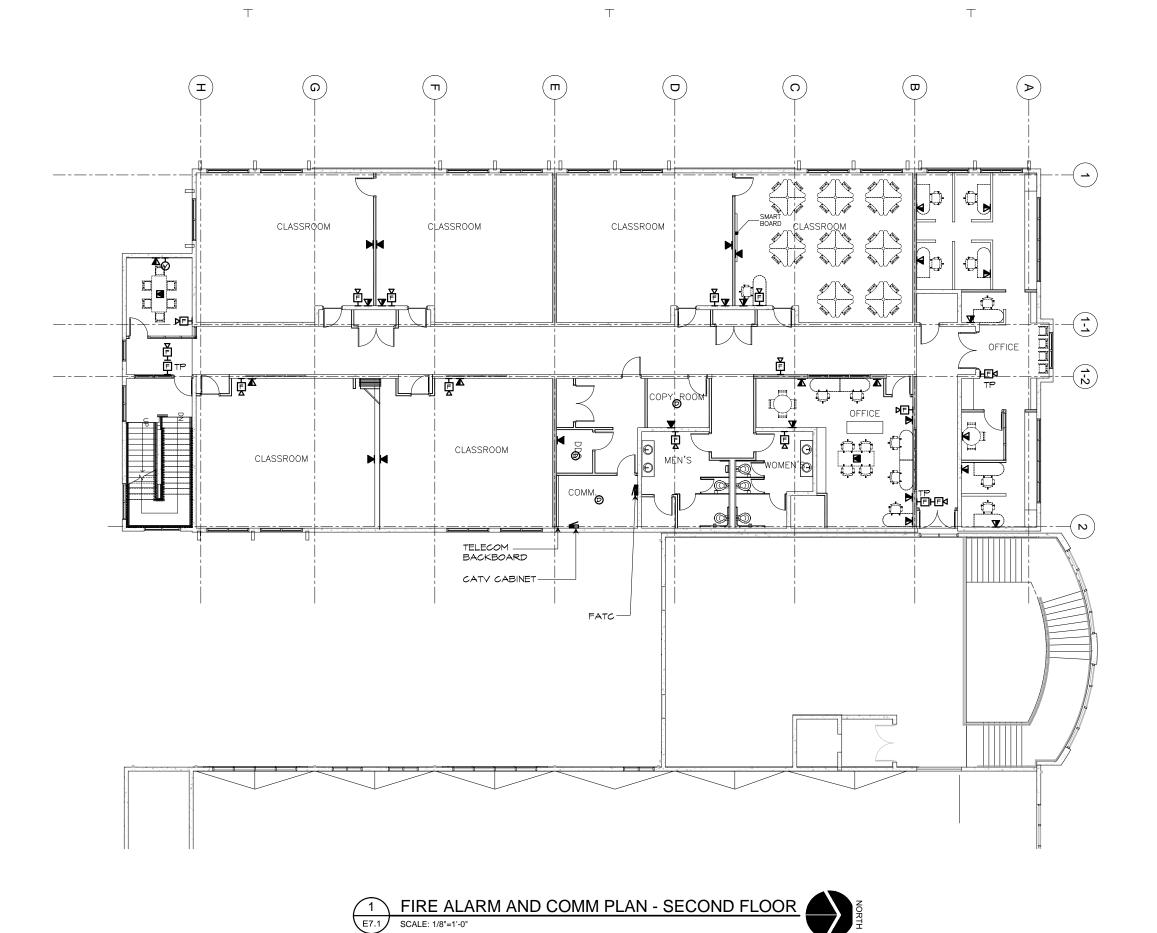
FIRE ALARM AND COMMUNICATION PLAN - FIRST FLOOR

DESIGN DEVELOPMENT

	-
Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File

SCALE: 1/8"=1'-0" IF SHEET IS LESS THAN 24" X 36" REDUCED PRINT - USE GRAPHIC SCALES

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





IF SHEET IS LESS THAN 24" X 36" REDUCED PRINT - USE GRAPHIC SCALES

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Taniguchi Ruth Makio Architects 100 Chiff Business Center, P.O. Box Rd, Agana, GU 98910 Tel.: (671) 475-8772 Fax: (671) 472-3381 Email: arch@traguam.com

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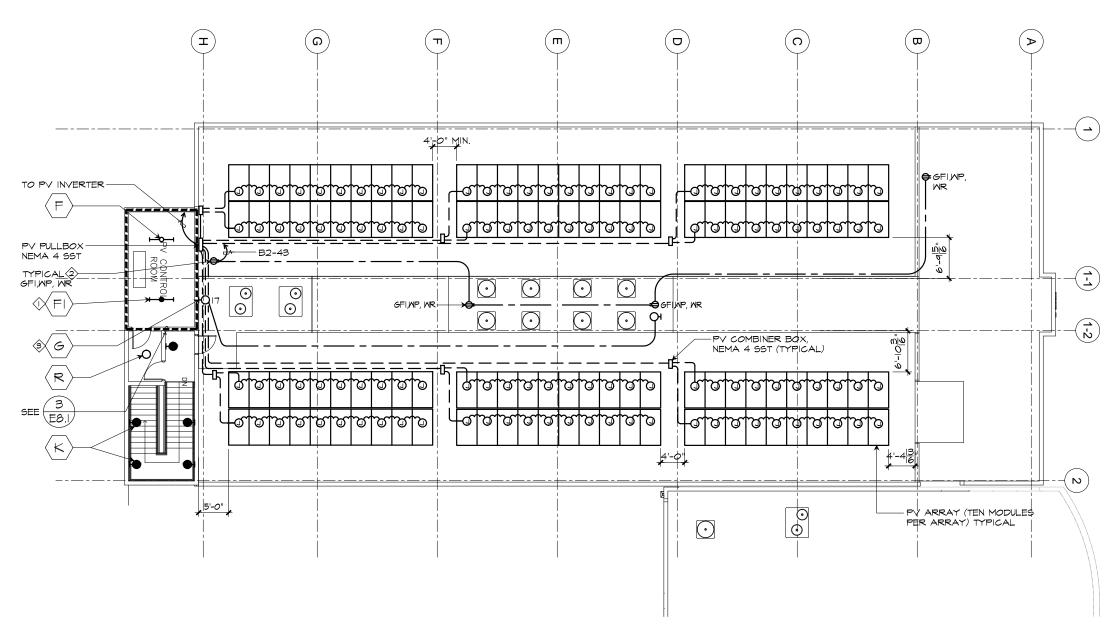
Project:

GCC BLDG. 100 RENOVATION

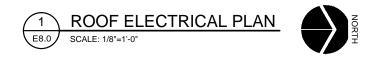
FIRE ALARM AND COMM PLAN - SECOND FLOOR

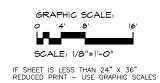
DESIGN DEVELOPMENT

Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File



ONNECT EMERGENCY BATTERY PACK TO UNSWITCHED CIRCUIT.





REVISIONS

**TRMA** 

Taniguchi Ruth Makio Architects
100 Chiff Business Center, P.O. Box Ed. Agana, GU 96910
Tel.: (671) 475-8772 = Fax: (671) 472-3381

Email: arch@traguam.com

Architecture Planning Interior Design

EMCE • Consulting Engineers
RUTE 201, 183 ANTONIA COURT

O. BOX 8888 TAMANNO, GLAM 9883; T1. 648-CH6EZ (3623) Famil: guam@emceconsulting.com bsite: www.emceconsulting.com



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Project:

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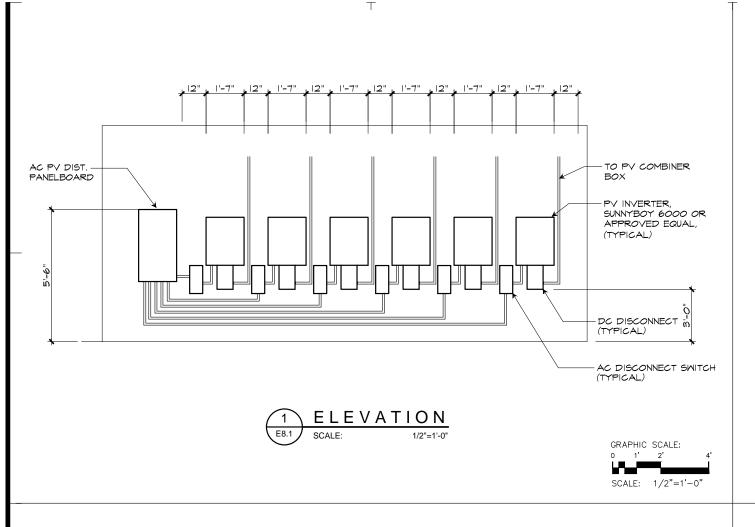
Title

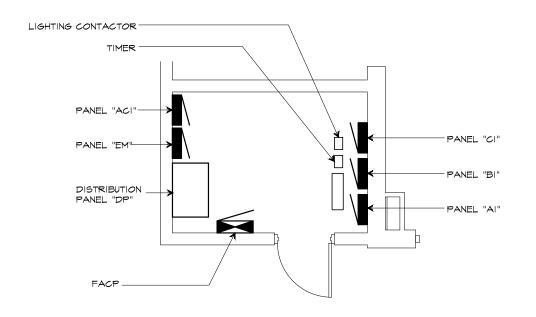
ROOF ELECTRICAL PLAN

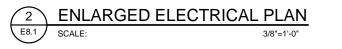
DESIGN DEVELOPMENT

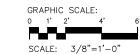
Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File

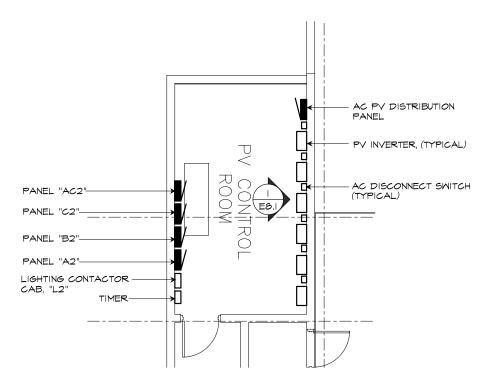
E8.0



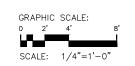


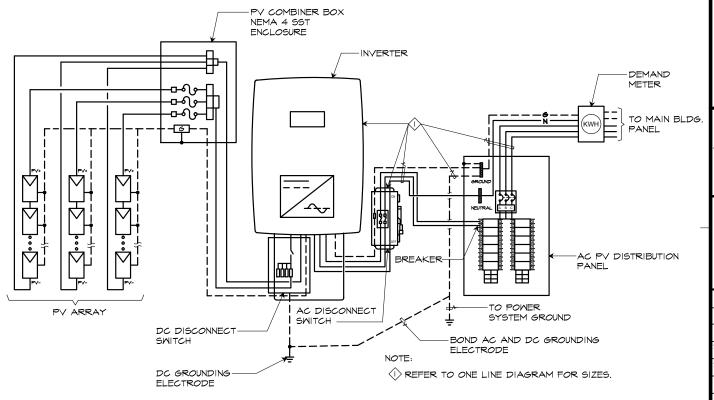












TYPICAL PV SYSTEM SCHEMATIC DIAGRAM
NOT TO SCALE

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Taniguchi Ruth Makio Architects
100 (iff Business Center, P.O. Box Ed., Agana, GU 9691(
Tel.: (671) 472–3381
Email: arch@traguam.com

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GCC

BLDG. 100 RENOVATION

Title:

ELEVATION, ENLARGED ELECTRICAL PLAN, PV EQUIPMENT ROOM POWER PLAN AND SCHEMATIC DIAGRAM

DESIGN DEVELOPMENT

 Designed:
 TM

 Drawn:
 RS/FC

 Checked:
 AA

 Supv:
 AA

 Scale:
 AS SHOWN

 Date:
 06/20/13

 Project No. 24-11-390
 File

E8.1

I

		LIG	НТ	FIX	TURE SCHEDULE SELECT HOPERATI	RE SHALL BE 4100°k
FIXTURE TYPE	LAMP	DATA	MOUN CEILING	-	DESCRIPTION	MANUFACTURER'S CAT. NO. OR APPROVED EQUAL
(A)	1	52.3 LED	RECESS		LED, INDIRECT / DIRECT, WITH DIMMING BALLAST, 120V.	
<u>A1</u>	ı	52.3 LED	RECESS		SIMILAR AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY PACK.	
<b>B</b>	LI	ED	RECESS		LED, 2 'X 4' FIXTURE WITH DIMMING BALLAST, I20V.	
(B1)	LI	ED	RECESS		SIMILAR AS TYPE "B" EXCEPT WITH EMERGENCY BATTERY PACK.	
<b>⟨८</b> ⟩	1	31.7 LED	RECESS		LED, 2'X2' FIXTURE, INDIRECT / DIRECT, WITH DIMMING BALLAST, I20V.	
<b>(C1)</b>	1	31.7 LED	RECESS		SIMILAR AS TYPE "C" EXCEPT WITH EMERGENCY BATTERY PACK.	
<b>(22</b> )	ı	31.7 LED	RECESS		SIMILAR AS TYPE "C" EXCEPT FLANGE MOUNTING.	
<b>(3</b> )	ı	31.7 LED	RECESS		SIMILAR AS TYPE "C2" EXCEPT WITH EMERGENCY BATTERY PACK.	
Þ	2	28.8 LED	SURFACE		LED, SUITABLE FOR WET LOCATION, 120V.	
E	1	32 T8	RECESS		FLUORESCENT, WALL WASH, ELECTRONIC BALLAST, 120V.	
F	2	LED	SURFACE		LED, 46" STRIPLIGHT, WITH LENS, 120V.	
<b>(F1)</b>	2	LED	SURFACE		SIMILAR AS TYPE "F" EXCEPT WITH EMERGENCY BATTERY PACK.	
<b>(6)</b>	ı	I2 LED		SURFACE	LED, FULL CUT-OFF, SUITABLE FOR USE IN WET LOCATIONS, 120V.	
$\langle H \rangle$	Li	ĒΦ		SURFACE	LED, WALL MOUNTED., 120V.	
(H1)	Li	ED		SURFACE	SIMILAR AS TYPE "H" EXCEPT WITH EMERGENCY BATTERY PACK.	
(I)	L	ED	RECESS		LED, LINEAR LIGHTING, WITH DIMMING BALLAST, 120V.	
$\langle n \rangle$	L	ED	RECESS		SIMILAR AS TYPE "I" EXCEPT WITH EMERGENCY BATTERY PACK.	
(r)	ı	I3 DTT		SURFACE	COMPACT FLUORESCENT, ELECTRONIC BALLAST, 120V.	
K	ı	42		SURFACE	COMPACT FLUORESCENT, INDIRECT/DIRECT WITH REMOTE EMERGENCY BATTERY PACK, 120V.	
(L)	LI	ED	RECESS		LED, 4" APERTURE DOWNLIGHT, 600 LUMENS, 120V.	
<u>(L1)</u>	LI	ED	RECESS		SIMILAR AS TYPE "L" EXCEPT WITH EMERGENCY BATTERY PACK. PILOT LIGHT AND TEST SWITCH MOUNTED ADJACENT TO FIXTURE.	
M	ı	IO LED	REC.		LED, SHOWER LIGHT, 120V.	
N	ı	II.2 LED		SURFACE	LED, SUITABLE FOR USE IN WET LOCATIONS, 120V.	
(P)	ı	q LED	DE	sk	TASK LIGHT, Z-BAR HIGH POWER LED DESK LAMP, I20V.	
(a)					AMMUNITION ROOM LIGHT.	
R			SURFACE		LED	
$\langle \mathbf{x} \rangle$	L	ED	UNI√E	RSAL	EXIT SIGN, 120V.	

PANEL: "AC1"		VOL:	TS: <b>20</b>	B/120V	′	PH	ASE: S			WIRE:	4		AIC	RATING:	10,00	00
LOCATION: INDOOR DRY	OUTDOOR WET	ENC	L. TYPE	: NEMA	<u> </u>	. МТ	G: ■SU	RF. 🗖 FL	USH	AMPER	RE:			MAINS:	■ BREA	AKER 5 ONLY
■ NEUTRAL BUS	■ GRO	UND	BUS	0	ISOLATE	D GF	OUND E	SUS	NE	UTRAL	BUS	GND.	BON	DING: E	YES I	■ NO
BRANCH CIRC DESCRIPTION	JIT I	WIRE PO	DLE CH BKR NO		øA LC	AD ∙ ø	- KVA 3	øC <b>⊷II</b> →	CK1 NO.	POLE/ BKR	WIRE Size		BF	RANCH C DESCRIP	IRCUIT TION	
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			٤	3 /////					4							
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		+	17						18		П					
PROVIDE PERMANEN LABEL INDICATING 1	THE CON		D KVA:						f	REMARK	S:					
FOLLOWING "POWER SUPPLY ORIGINATES 	IN DEW	AND F AND L	ACTOR: .OAD:				I =									

PANEL: "B1"		VOLTS:	208	/12 <i>0</i>		PH	HASE:	3			WIRE:	4	AIC	RATING:	10,000	
LOCATION: INDOOR DRY	OUTDOOR WET	ENCL. T	YPE:	NEMA		_ м	TG: =	SURF.	<b>□</b> FL	JSH	AMPER	E:		MAINS:	■ BREAKER ■ LUGS ONL	
■ NEUTRAL BUS	■ GROU	JND BUS		0	SOLAT	ED GI	ROUNE	BUS	5	NEU	JTRAL I	BUS	GND. BO	NDING: E	YES NO	
BRANCH CIRCU DESCRIPTION	JIT W	WIRE POLE/ BIZE BKF	CKT NO.		SA		– KV/ øB <b>II−</b> ►	_	ic I	CKT NO.	POLE BKR	WIRE Size	В	RANCH C DESCRIP	IRCUIT TION	
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PROVIDE PERMANEN		KVA/ø:								REMARKS:						
LABEL INDICATING T FOLLOWING "POWER SUPPLY ORIGINATES	DEMA	IECTED K ND FACT ND LOAD	OR:			I =										

PANEL: "C1"	VOLTS: 208	3/120	PHASE: 3		WIRE: 4	AIC RATING: 10,000
LOCATION: INDOOR OUTDOOR WET	ENCL. TYPE	NEMAI	MTG: ■SURF. □FL	USH	AMPERE:	MAINS: BREAKER LUGS ONLY
	OUND BUS	□ ISOLATE	GROUND BUS	NE	EUTRAL BUS GND	. BONDING: □YES ■NO
BRANCH CIRCUIT DESCRIPTION	WIRE POLE CK SIZE BKR NO		AD – KVA ØB ØC	CK	T POLE WIRE BKR SIZE	BRANCH CIRCUIT DESCRIPTION
	#12 1/20 1			2	1 1 1	
	2			4		
	5			6		
	7			8		
	9			0		
	- 1			12		
	18			14		
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	31			32	2	
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	3-		<i>                     -</i>   -	38		
LABEL INDICATING THE CONFOLLOWING "POWER DEN	NL KVA/Ø: NECTED KVA: AND FACTOR: AND LOAD:		I =		REMARKS:	

LOCATION: INDOOR OUT	ENCL.	TYPE:	NEMAI	MTG: ■SURF. □FL	USH	AMPERE:		MAINS: BREAKER LUGS ONLY
■ NEUTRAL BUS	GROUND BI	us	☐ ISOLATED	GROUND BUS	NE	UTRAL BUS GND.	BON	DING: TYES NO
BRANCH CIRCUIT DESCRIPTION	WIRE POLE	CK NO		D - KVA ØB ØC	CK.	POLE WIRE BKR SIZE		RANCH CIRCUIT DESCRIPTION
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		з			4			
		5			6			
		7			β			
		9			Ю			
		П			12			
		ıs			14			
	-	15			16	$\bot$		
	-	17			18	+		
	-	19			20			
	-++	21			22			
		24			26			
PROVIDE PERMANENT ABEL INDICATING THE	TOTAL KVA/ CONNECTED	ø:			_	REMARKS:		

PANEL: "B2"		VOLTS:	208,	120		PHAS	SE: S	,		WIRE:	4	AIC	RATING	: 10,000	٦	
LOCATION: INDOOR DRY	OUTDOOR WET	ENCL. T	PE:	NEMA	1	MTG:	<b>■</b> SU	RF. 🗖 FL	USH	AMPER	E:		MAINS:	■ BREAKER ■ LUGS ON	LY	
■ NEUTRAL BUS	■ GRO	UND BUS			SOLATE	GRO	UND I	3US	NEU	JTRAL I	BUS	GND. BON	DING:	⊐YES ■NO	)	
BRANCH CIRCU DESCRIPTION	IT §	WIRE POLE SIZE BKR	CKT NO.	_ ¢	LO.	AD - ØB	KVA	ØC <b>⊕II</b> ——	CKT NO.	POLE BKR	WIRE SIZE		RANCH ( DESCRIF			
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PROVIDE PERMANENT LABEL INDICATING TH FOLLOWING "POWER SUPPLY ORIGINATES	E CONN	L KVA/ø: NECTED KV NND FACTO NND LOAD:	R:				Ι=		R	EMARK:	S:					

	+				+			$\rightarrow$					G: 10,0	
OCATION: INDOOR OUTDOOR	ENCL. TY	PE:	NEMA		_ MT	G: ■SI	JRF. <b>G</b> FL	USH	AMPER	E:		MAINS	S: BRE	AKER S ONLY
■ NEUTRAL BUS ■ GF	OUND BUS			SOLATE	D GF	OUND	BUS	NEU	JTRAL	BUS GN	D. BON	NDING:	□YES	■ NO
BRANCH CIRCUIT DESCRIPTION	WIRE POLE SIZE BKR	CKT NO.	- C	SA	OAD •	- KVA B	øc	CKT NO.	POLE BKR	BKR SIZE		RANCH DESCRI	CIRCUIT PTION	
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	AL KVA/ø: NNECTED KV				///		•	R	EMARK:	3:				
ABEL INDICATING THE CO OLLOWING "POWER DEI UPPLY ORIGINATES IN DEI				I =										

TRMA ::

Taniguchi Ruth Makio Architects
100 Giff Business Center, P.O. Box Ed. Agana, GU 96910
Tel.: (671) 475-8772 - Fax: (671) 472-3381
Email: arch@traguam.com

Architecture Planning Interior Design

EMCE • Consulting Engineers
SUTE 201, 183 ANTONA COURT
POR DOX 888 TAMBRIS, GUM 988
671, 649-0196/7 Phon
671, 649-0196/7 Phon
Email: guam@emceconsulting.com
Website: www.emceconsulting.com



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GCC BLDG. 100 RENOVATION

Title:

SCHEDULES

DESIGN DEVELOPMENT

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Drawn: RS/FC

Checked: AA

Supv: AA

Scale: AS SHOWN

Date: 06/20/13

Project No. | File 24-11-390

E9.0

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1

PANEL:	"A1"		VC	LTS:	20	8/120	,	PHASE	: 3			WIRE:	4	AIC	RATING: 10,000			
LOCATION:	INDOOR D	OUTDOOR WET	EN	CL. TY	PE:	NEMA		MTG:	SURF.	□FLU	ISH	AMPE	RE:	•	MAINS: BREAKER LUGS ONLY			
■ NEUTRAI	BUS	■ GRO	UND	BUS		_	SOLATE	D GROU	ND BUS		NEU	TRAL	BUS	GND. BON	DING: PYES NO			
	CH CIRCU CRIPTION	IT	WIRE Size	POLE BKR	CKT NO.	•	LC A	ØB ■ II →		c I——	CKT NO.	POLE/ BKF	WIRE SIZE	Bf	RANCH CIRCUIT DESCRIPTION			
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PROVIDE PERM				VA/ø:	/A ·							REMARKS:						
NDICATING THE POWER SUPPLY N AI"	NG THE FOLLOWING CONNECTED KVA: SUPPLY ORIGINATES DEMAND FACTOR: DEMAND LOAD:												USE #10 FOR HOMERUN ONLY. USE #12 BETWEEN DEVICES.      SEE ONE LINE DIAGRAM FOR SIZE.					

PANEL: "A2"		VOLT	S: 20	8/120	,		PH	ASE:	3			WIRE	4		AIC	RATIN	G: 10	,000
LOCATION: INDOOR DRY	OUTDOOR WET	ENCL	. TYP	E: NEM	/A _	L	мт	G: =	SURF.	□FU	JSH	AMPE	RE:			MAINS	S: =	BREAKER LUGS ONLY
■ NEUTRAL BUS	■ GRO	UND E	BUS		IS:	OLATE	D GR	OUND	BUS	;	NEU	TRAL	BUS	GND.	BON	DING:	<b>□</b> YE	S ■NO
BRANCH CIRCUI DESCRIPTION	· !	WIRE PO	LE C BKR N	KT 0.	øA <b>  </b> -		AD -	- KV# B <b>-►</b>		c -	CKT NO.	POLE/ BK	WIRE SIZE			RANCH DESCR		
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		,	V 2	9 ///	<b>   </b>						30	$\vee$						
PROVIDE PERMANENT LABE INDICATING THE FOLLOWING "POWER SUPPLY ORIGINATES IN A2"	CONI DEMA		D KVA ACTOR	_							RI	EMAR	KS:					

LOCATION: INDOOR OU	LOOK	EN	ICL. 1	YPE:	NE)	<b>/A</b> _	1_	_  ^	TG:	= SU	₹F. □	FLU:	SH	AMPE	RE:			$\perp$	MAII	NS:		reaker JGS ONL
■ NEUTRAL BUS	■ GRO	UND	BUS	;	-	J IS	OLAT	ED G	ROU	ND B	US	ı	NEU	TRAL	BL	IS	GND. BO	ONC	ING:	=	YES	■ NO
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DESCRIPTION	į.	SIZE				ØA			øB .		ØC		NO.	/BK	RS	ŽĒ			ESC			•
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			<b>×</b>	17		<b>///</b>				<b>/////////////////////////////////////</b>		-	18	$\vee$	_	V	V					
PROVIDE PERMANENT LABEL NDICATING THE FOLLOWING POWER SUPPLY ORIGINATES N EM200"	NG THE FOLLOWING CONNECTED KVA: SUPPLY ORIGINATES DEMAND FACTOR:								<u> </u>				RI	EMAR	KS:							

TRMA DID

Taniguchi Ruth Makio Architects
100 tilif Business Center, 10. Box Bt. Agana, GU 99910
Tel.: (671) 475-9772 - Fax: (671) 472-3361
Email: architeraguam.com

Architecture Planning Interior Design

EMCE - Consulting Engineers
SUITE 201, 183 ANTONA COURT
PLO BOX 8988 TAMANNA, QUAN 99831
677, 6469-6987
Fig. 18923)
Finall: guane@mecconsulting.com
Website: www.emceconsulting.com



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

Project:

GCC

BLDG. 100 RENOVATION

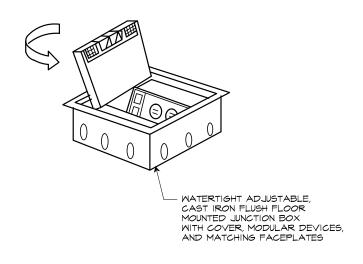
Title:

SCHEDULES

DESIGN DEVELOPMENT

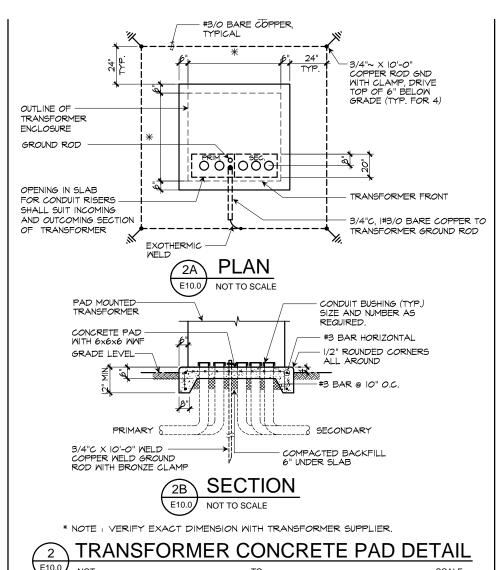
Designed: Drawn: Checked: AA Supv: Scale: AS SHOWN 06/20/13

E9.1

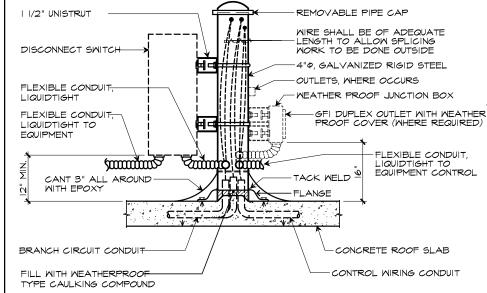


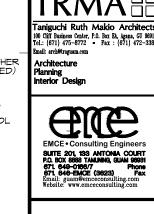
- I BOX SHALL BE BONDED TO GROUND
- 2. FOR QUANTITY OF GANG, SEE POWER PLAN.
- 3. SUBMIT SHOP DRAWING FOR APPROVAL.
- 4. APPLICABLE FOR IST FLOOR ONLY.





E10.0 NOT то





REVISIONS

**ROOF MOUNTED** DISCONNECT SWITCH MOUNTING DETAIL E10.0



Project:

GCC

BLDG. 100 RENOVATION

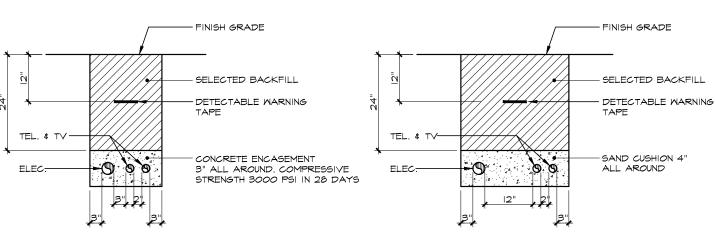
Title:

MISCELLANEOUS

DESIGN DEVELOPMENT

esigned: rawn: RS/FC hecked: AA AS SHOWN 06/20/13

IF SHEET IS LESS THAN 24" X 36" REDUCED PRINT - USE GRAPHIC SCALES



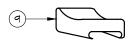
NOTE: USE FOR AREAS SUBJECT TO VEHICLE TRAFFIC AND FOR GPA UNDERGROUND DUCTS.

NOTE: USE FOR AREAS NOT SUBJECT TO VEHICLE TRAFFIC.

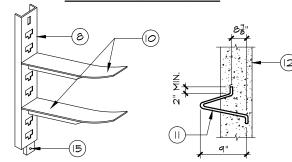








## HOOK TYPE INSULATOR



CABLE RACK, INSULATOR
AND PULLING IRON DETAILS

NOT TO SCALE

CABLE RACK

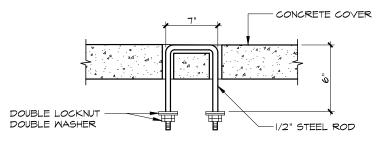
**BILL OF MATERIALS** 5/4 × 8'-0" COPPER WELD GROUND ROD (2) %"Φ COPPER GROUND ROD CLAMP 34" P MAXIMUM GRAVEL SIZE, FILL TO FINISH FLOOR #4 REBAR @ IO" O.C. VERTICAL (5) #4 REBAR @ IO" O.C. HORIZONTAL #6 COPPER WIRE (SOLID) FOR GROUNDING HARDWARE CONDUIT WITH END BELL 6" FROM FLOOR SLAB, SIZE AND QUANTITY AS REQUIRED CABLE RACK HOT DIP GALVANIZED HOOK TYPE INSULATOR (10) NSULATOR WELDED SUPPORT PULLING IRON %" $\phi$  GALVANIZED, LOCATED AT OPPOSITE END OF EACH CONDUIT ENTRANCE " THICK CONCRETE FLOOR SLAB AND WALL AT 3000 PSI (12) YIELD STRENGTH OF GRADE 40 FOR REBARS (3) 3"  $\times$  3"  $\times$  %" ANGLE IRON HOT DIP GALVANIZED 3/6"Φ STEEL ROD WELDED TO FRAME EVERY 12" O.C. (15) SLOT FOR ½" BOLT AND LEAD ANCHOR (16) ½"Φ STEEL LIFTING DEVICE GALVANIZED DOUBLE LOCKNUT, 1/2" P HOLE (8) DOUBLE ROUND WASHER 2"4 WITH 5/8"4 HOLE  $3" \times 3" \times 1/4"$  ANGLE IRON, HOT DIP GALVANIZED ALL (19) AROUND 20 #4 HOR. REBAR WELDED TO ANGLE FRAME #4 VERT. REBAR WELDED TO ANGLE FROM AND 21) OTHER REBAR 22) 3" THICK CONCRETE AT 3000 PSI

### NOTES:

- I. THIS HANDHOLE IS TO BE USED IN LOCATIONS WHERE NOT MORE THAN 3 JUNCTIONS OF SECONDARY WILL BE INSTALLED.
- 2. GROUND ALL HARDWARE IN THE HANDHOLE.

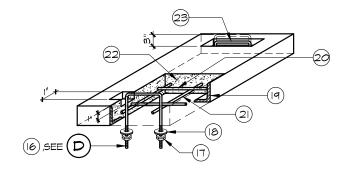
½"中 STEEL ROD LIFTING HANDLE

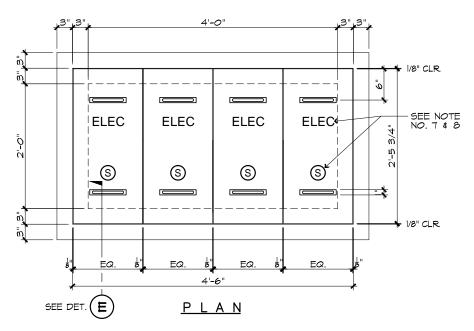
- 3. TOP OF THE HANDHOLE SHALL BE FLUSH WITH THE SIDEWALK SURFACE, OTHERWISE THERE SHOULD BE A 2" CLEARANCE FROM THE FINISHED GROUND SURFACE.
- 4. AREA OF CONDUIT ENTRANCES SHOULD BE 6" MINIMUM FROM THE FLOOR SLAB, IO" MINIMUM FROM THE LEFT OR RIGHT SIDE WALL, AND 15" MINIMUM FROM THE TOP OF THE HANDHOLE.
- 5. PROVIDE APPROXIMATE I/8" CLEARANCE BETWEEN HANDHOLE COVERS AND BETWEEN COVERS AND LEDGE SIDES.
- 6. ALL LETTERING SHALL BE 3" WITH A 1/4" EMBEDMENT.
- 7. INDICATE "ELEC" OR COMMUNICATION ON EVERY HANDHOLE COVER WITH THE LETTER "S" FOR SECONDARY OR "C" FOR COMMUNICATION AND CENTERED AS SHOWN.



D LIFTING HANDLE DETAIL
NOT TO SCALE

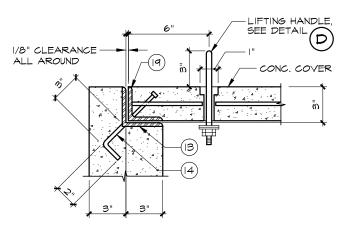






B HANDHOLE COVER DETAIL

NOT TO SCALE



E COVER SEAT MOUNTING DETAIL

NOT TO SCALE

REVISIONS

TRMA ::

Taniguchi Ruth Makio Architect
100 Cliff Business Center, P.O. Box Ed. Agana, GU 9691
Tel.: (671) 475-8772 = Fax: (671) 472-338
Email: arch@tranuam.com

Architecture Planning Interior Design

EMCE • Consulting Engineers
SUITE 201, 133 ANTONA COURT
P.O. BOX 8888 TAMANAS, GLAM 9893
671. 649–191697, 789
671. 649–191697, 671
646–1916E, 6823)
Final; guamelemeceossitting.com



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

Project:

GCC BLDG. 100 RENOVATION

Title:

2'X4' HANDHOLE DETAILS

DESIGN DEVELOPMENT

Designed: TM

Drawn: RS/FC

Checked: AA

Supv: AA

Scale: AS SHOWN

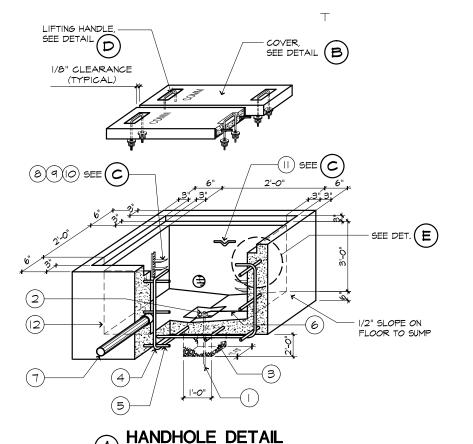
Date: 06/20/13

Project No. | File

Drawing No.

E10.1

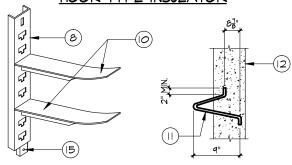
PULLING IRON





NOT TO SCALE

## HOOK TYPE INSULATOR



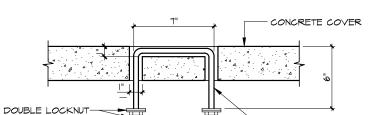
CABLE RACK

DOUBLE WASHER

PULLING IRON

1/2" STEEL ROD

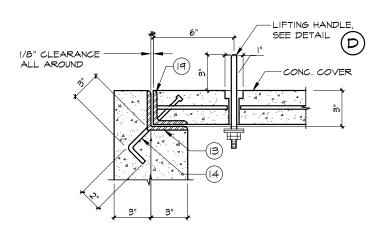
# CABLE RACK, INSULATOR AND PULLING IRON DETAILS



LIFTING HANDLE DETAIL

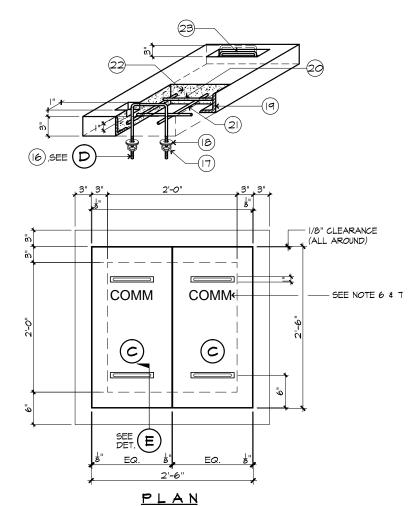
NOT TO SCALE





## E COVER SEAT MOUNTING DETAIL





## B HANDHOLE COVER DETAIL

## NOTES:

- THIS HANDHOLE IS TO BE USED IN LOCATIONS WHERE NOT MORE THAN 3 JUNCTIONS OF SECONDARY WILL BE INSTALLED
- 2. GROUND ALL HARDWARE IN THE HANDHOLE.
- 3. TOP OF THE HANDHOLE SHALL BE FLUSH WITH THE SIDEWALK SURFACE, OTHERWISE THERE SHOULD BE A 2" CLEARANCE FROM THE FINISHED GROUND SURFACE.
- 4. AREA OF CONDUIT ENTRANCES SHOULD BE 6" MINIMUM FROM THE FLOOR SLAB, IO" MINIMUM FROM THE LEFT OR RIGHT SIDE WALL, AND 15" MINIMUM FROM THE TOP OF THE HANDHOLE.
- PROVIDE APPROXIMATE I/8" CLEARANCE BETWEEN HANDHOLE COVERS AND BETWEEN COVERS AND LEDGE SIDES.
- 6. ALL LETTERING SHALL BE 3" WITH A 1/4" EMBEDMENT.
- 7. INDICATE "COM" OR "ELEC" ON EVERY HANDHOLE COVER WITH THE LETTER  $\bigcirc$  FOR COMMUNICATION OR  $\bigcirc$  FOR ELECTRICAL AND CENTER AS SHOWN.



esigned:

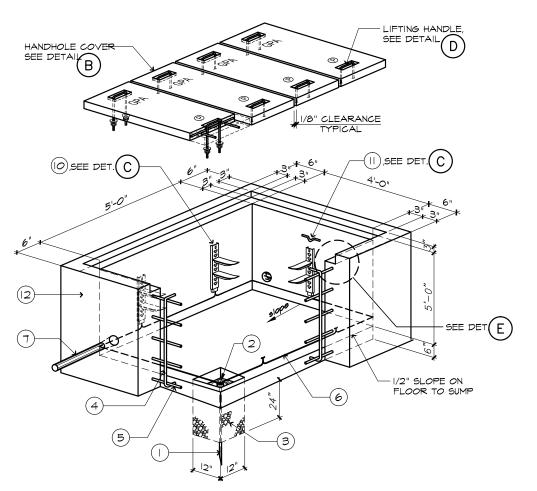
hecked:

AA

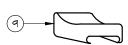
AS SHOWN 06/20/13

rawn:

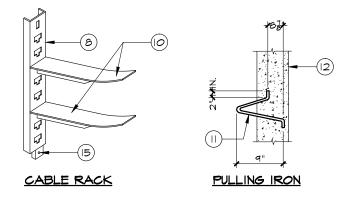
upv:







## HOOK TYPE INSULATOR

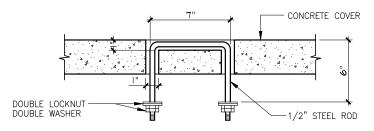


CABLE RACK, INSULATOR
AND PULLING IRON DETAILS
NOT TO SCALE

#### BILL OF MATERIALS $5/8"\Phi \times 8'-0"$ COPPER WELD GROUND ROD (2) 5/8" P COPPER GROUND ROD CLAMP (3) 3/4" MAXIMUM GRAVEL SIZE, FILL TO FINISH FLOOR (4) #4 REBAR @ IO" O.C. VERTICAL (5) #4 REBAR @ IO" O.C. HORIZONTAL (6) #6 COPPER WIRE (SOLID) FOR GROUNDING HARDWARE CONDUIT WITH END BELL 6" FROM FLOOR SLAB, SIZE AND QUANTITY AS REQUIRED CABLE RACK HOT DIP GALVANIZED (q) HOOK TYPE INSULATOR (O) INSULATOR WELDED SUPPORT PULLING IRON 7/8" A GALVANIZED, LOCATED AT OPPOSITE END OF EACH CONDUIT ENTRANCE 6" THICK CONCRETE FLOOR SLAB AND WALL AT 3000 PSI YEILD STRENGTH OF GRADE 40 FOR REBARS 3" X 3" X 3/8" ANGLE IRON HOT DIP GALVANIZED (14) 3/8" P STEEL ROD WELDED TO FRAME EVERY 12" O.C. (15) SLOT FOR 1/2" BOLT AND LEAD ANCHOR (16) 1/2" P STEEL LIFTING DEVICE GALVANIZED DOUBLE LOCKNUT, 1/2" P HOLE DOUBLE ROUND WASHER 2"4 WITH 5/8"4 HOLE (18) 3" X 3" X I/4" ANGLE IRON, HOT DIP GALVANIZED (19) ALL AROUND 20 #4 HOR, REBAR WELDED TO ANGLE FRAME (21) #4 VERT. REBAR WELDED TO ANGLE FROM AND OTHER REBAR (22) 3" THICK CONCRETE AT 3000 PSI 1/2" P STEEL ROD LIFTING HANDLE

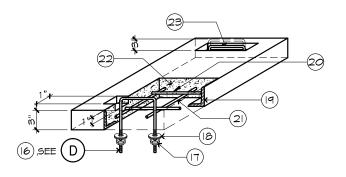
## NOTES:

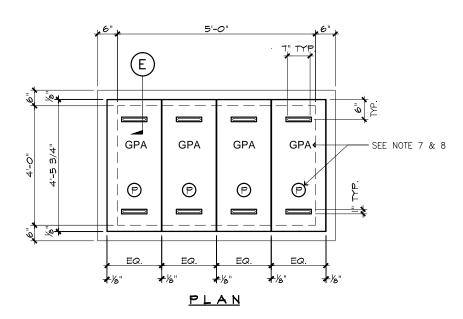
- I. COORDINATE LAYOUT AND EXACT DIMENSIONS WITH CUC ENGINEERING PRIOR TO INSTALLATION.
- 2. THIS HANDHOLE IS TO BE USED IN LOCATIONS WHERE NOT MORE THAN 3 JUNCTIONS OF SECONDARY WILL BE INSTALLED.
- 3. GROUND ALL HARDWARE IN THE HANDHOLE.
- 4. TOP OF THE HANDHOLE SHALL BE FLUSH WITH THE SIDEWALK SURFACE, OTHERWISE THERE SHOULD BE A 2" CLEARANCE FROM THE FINISHED GROUND SURFACE.
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- 6. PROVIDE APPROXIMATE I/8" CLEARANCE BETWEEN HANDHOLE COVERS AND BETWEEN COVERS AND LEDGE
- 7. ALL LETTERING SHALL BE 3" WITH A 1/4" EMBEBMENT.
- 8. INDICATE "GPA" ON EVERY HANDHOLE COVER MITH THE LETTER "S" FOR SECONDARY OR "P" FOR PRIMARY AND CENTERED AS SHOWN.



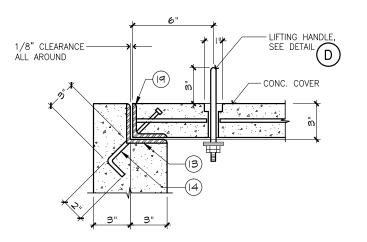
## D LIFTING HANDLE DETAIL NOT TO SCALE







## B HANDHOLE COVER DETAIL NOT TO SCALE



E COVER SEAT MOUNTING DETAIL

REVISIONS

 Taniguchi
 Ruth
 Makio
 Architect

 100 Cliff Business Center, P.O. Box EA, Agana, GU 9691
 Fel.: (671) 475-8772
 Fax: (671) 472-336

Architecture Planning Interior Design



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

Project:

GCC BLDG. 100 RENOVATION

Title:

4'X5' HANDHOLE DETAILS

DESIGN DEVELOPMENT

Designed:	ТМ
Drawn:	RS/FC
Checked:	AA
Supv:	AA
Scale:	AS SHOWN
Date:	06/20/13
Project No. 24-11-390	File