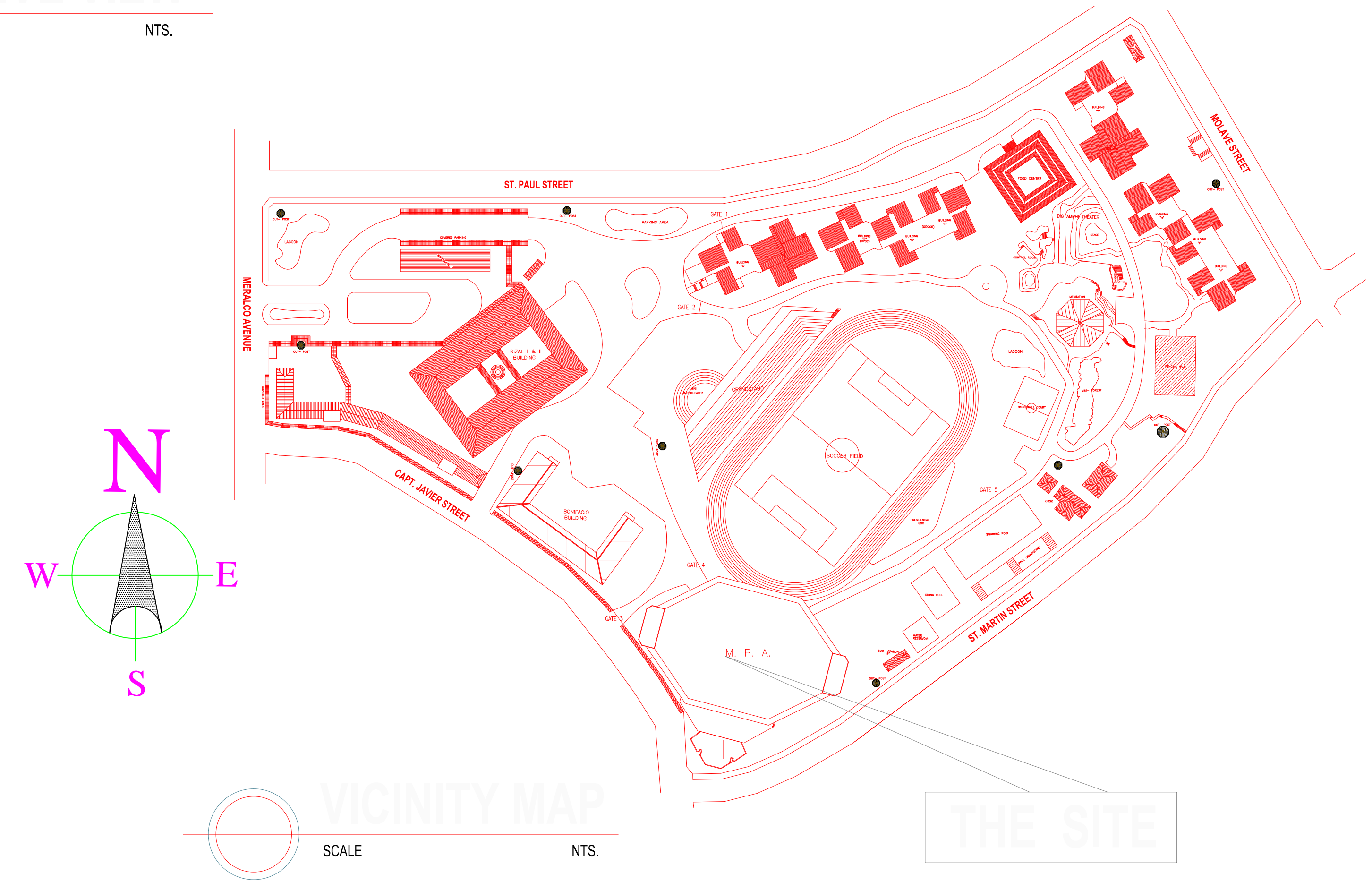





PERSPECTIVE VIEW
SCALE NTS.

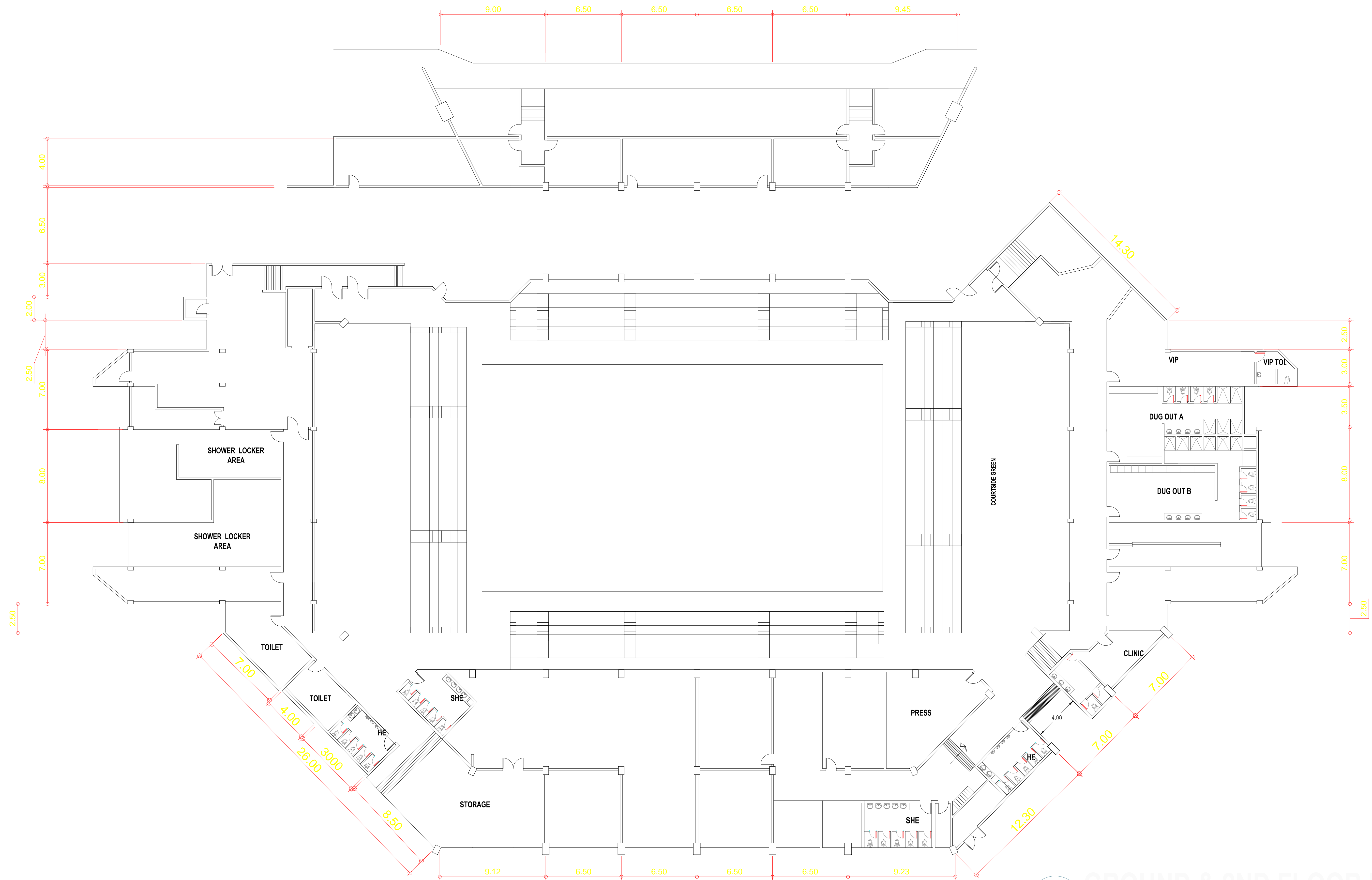


PERSPECTIVE VIEW
SCALE NTS.



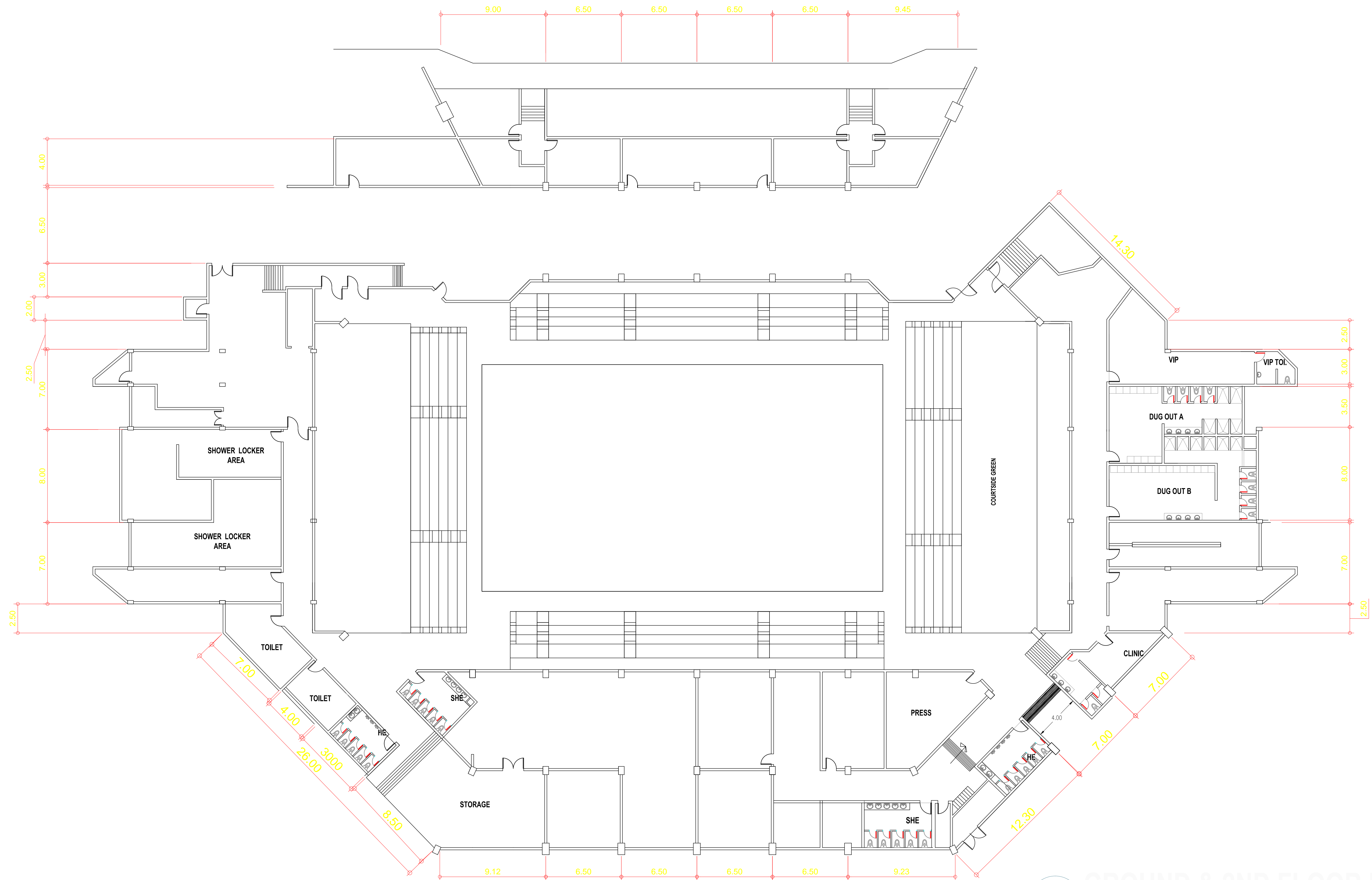
VICINITY MAP
SCALE NTS.

| | | | | | | | |
|---|--|---|---|---|---|---|---|
| <p>OWNER</p>  <p>PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</p> | <p>PROJECT TITLE :</p> <p>RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</p> | <p>SUBMITTED BY :</p> <p>ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT</p> | <p>RECOMMENDING APPROVAL :</p> <p>DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR</p> | <p>APPROVED BY :</p> <p>HON. WILLIAM I. RAMIREZ CHAIRMAN</p> | <p>SHEET CONTENTS :</p> <p>AS SHOWN</p> | <p>DESIGN BY :</p> <p>DRAWN BY :</p> <p>CHECKED BY :</p> <p>DATE :</p> <p>APPROVED BY :</p> | <p>SHEET NO. :</p> <p>A 1</p> |
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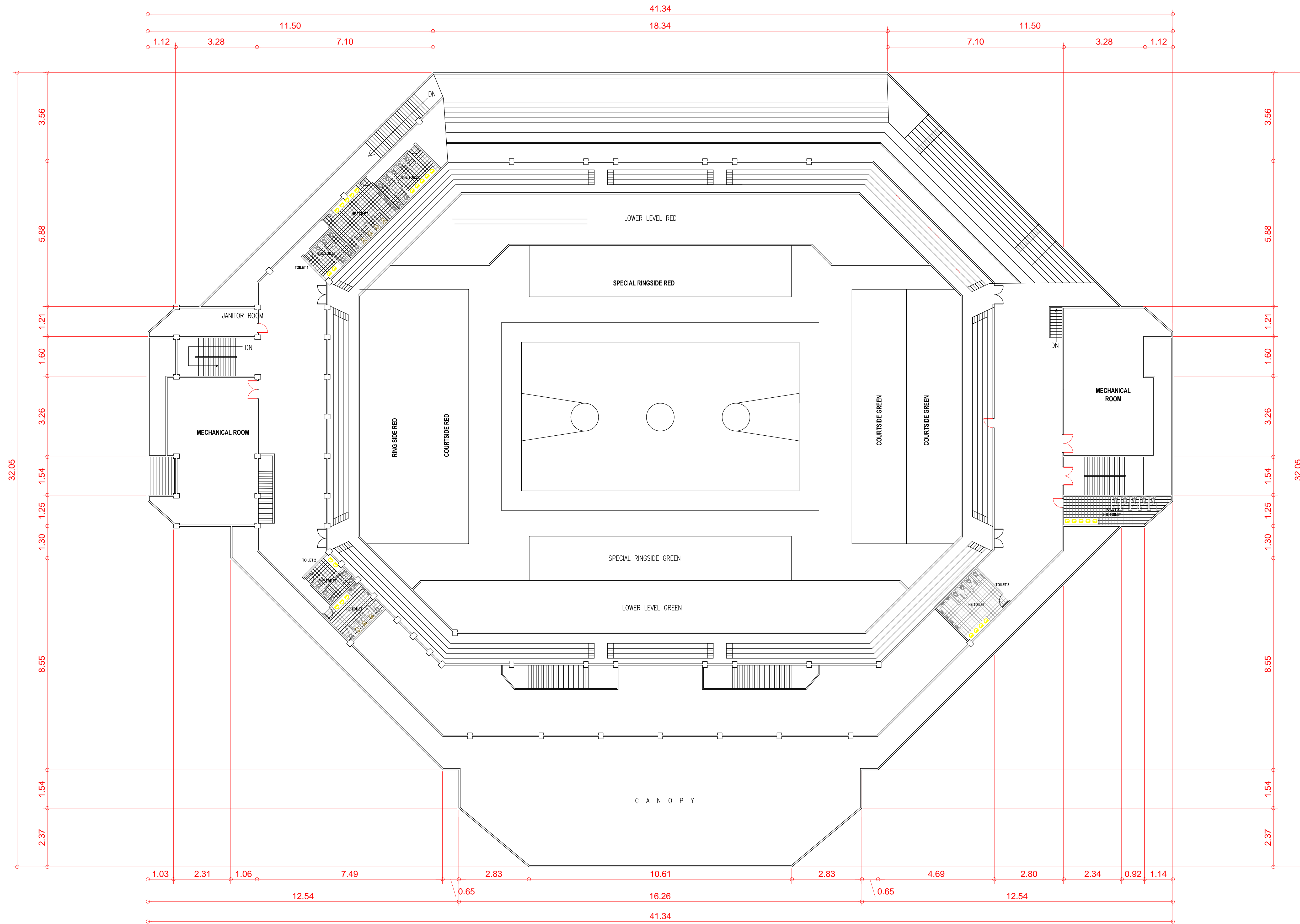
GROUND & 2ND FLOOR PLAN
 SCALE 1:250 MTS.

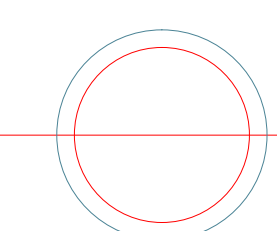
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| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | DRAWN BY : CHECKED BY : DATE : APPROVED BY : | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 2 </div> |




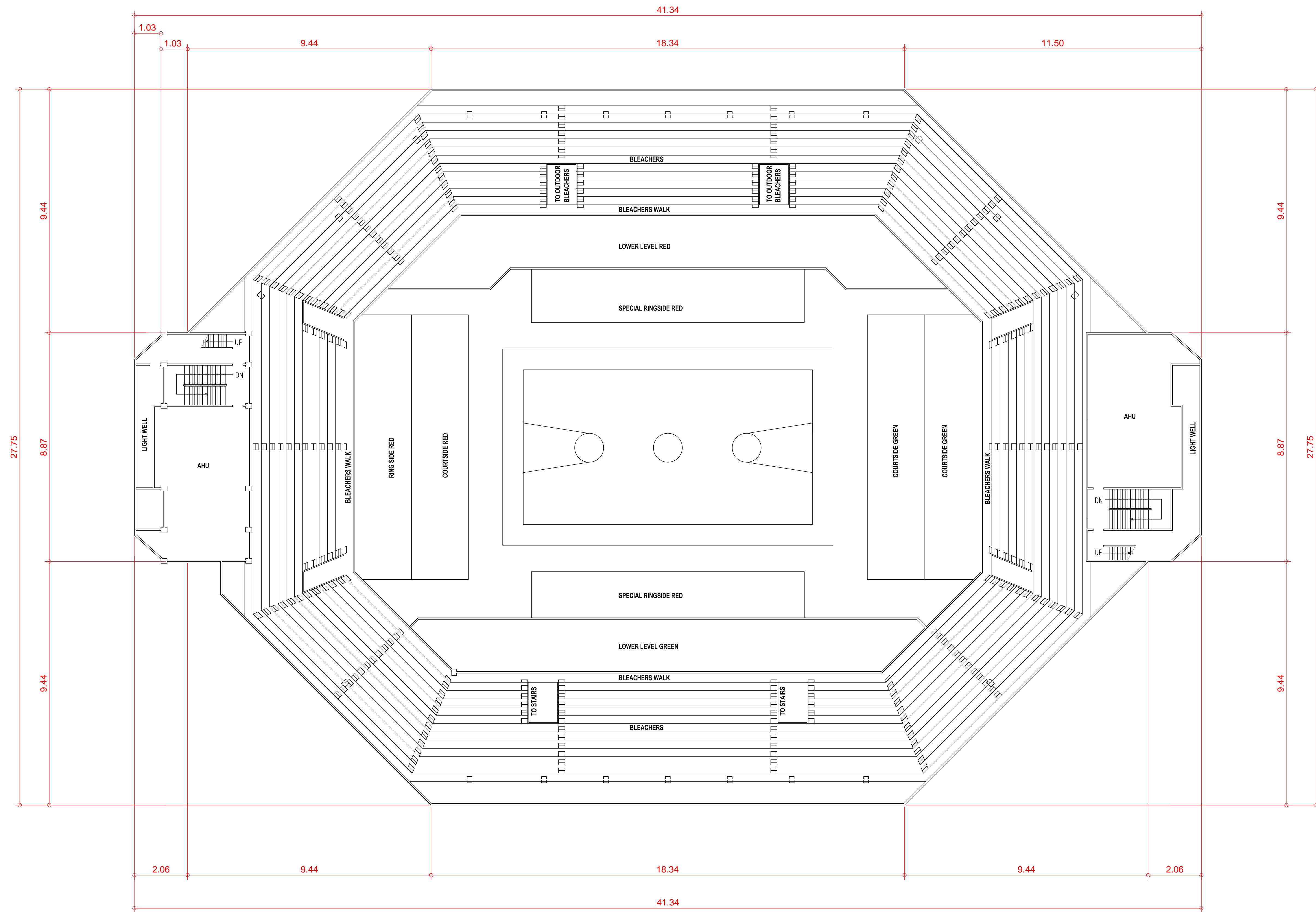
GROUND & 2ND FLOOR PLAN
 SCALE 1 : 250 MTS.

| | | | | | | | |
|--|---|---|--|--|------------------|---|------------|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DRAWN BY : CHECKED BY : DATE : APPROVED BY : | A 2 |




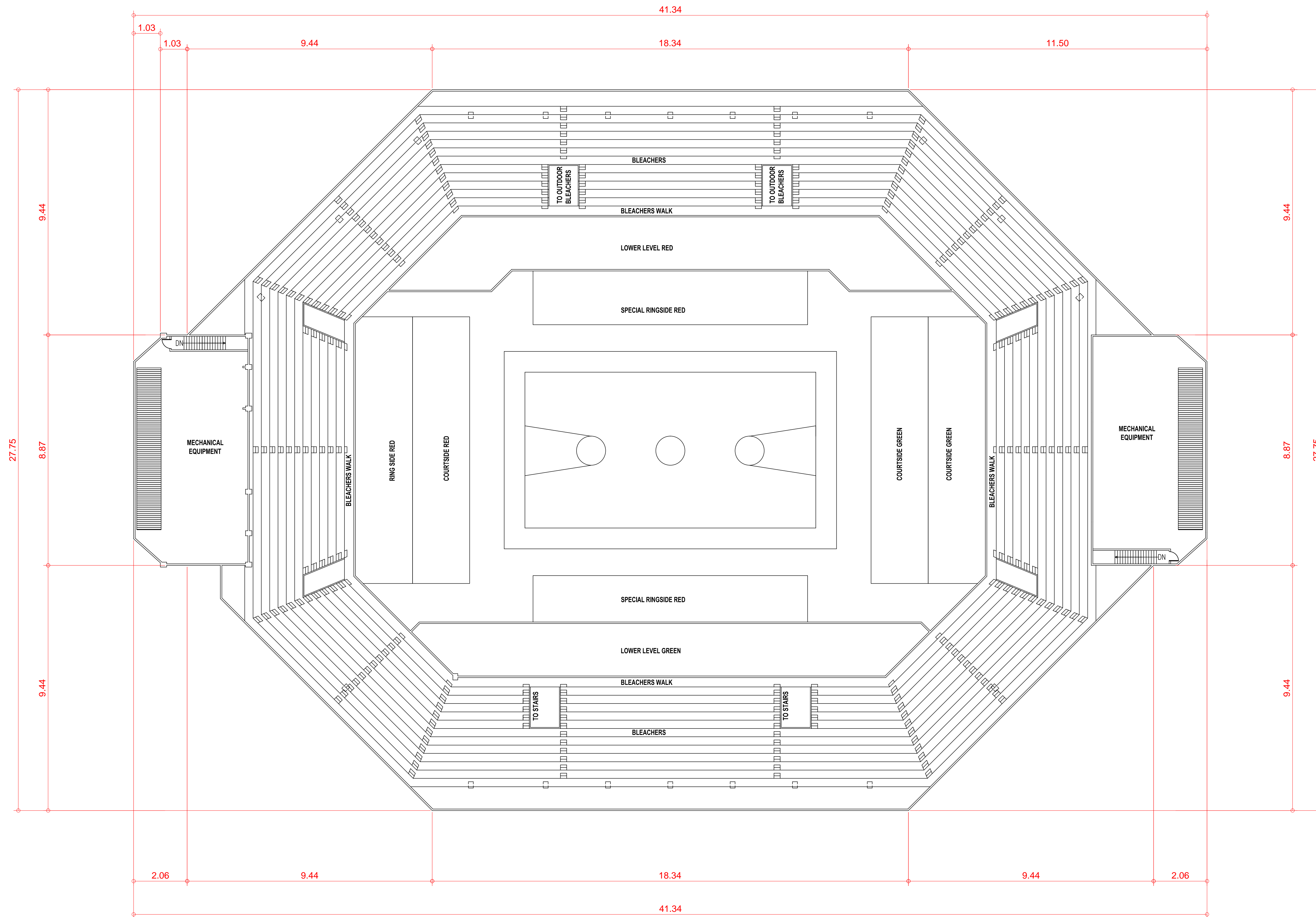

4TH FLOOR PLAN
 SCALE 1 : 250 MTS.

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|---|--|--|---|---|------------------|---|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A </div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 4 </div> |
| | | | | | | <small>DESIGN BY :</small> <small>DRAWN BY :</small> <small>CHECKED BY :</small> <small>DATE :</small> <small>APPROVED BY :</small> | |
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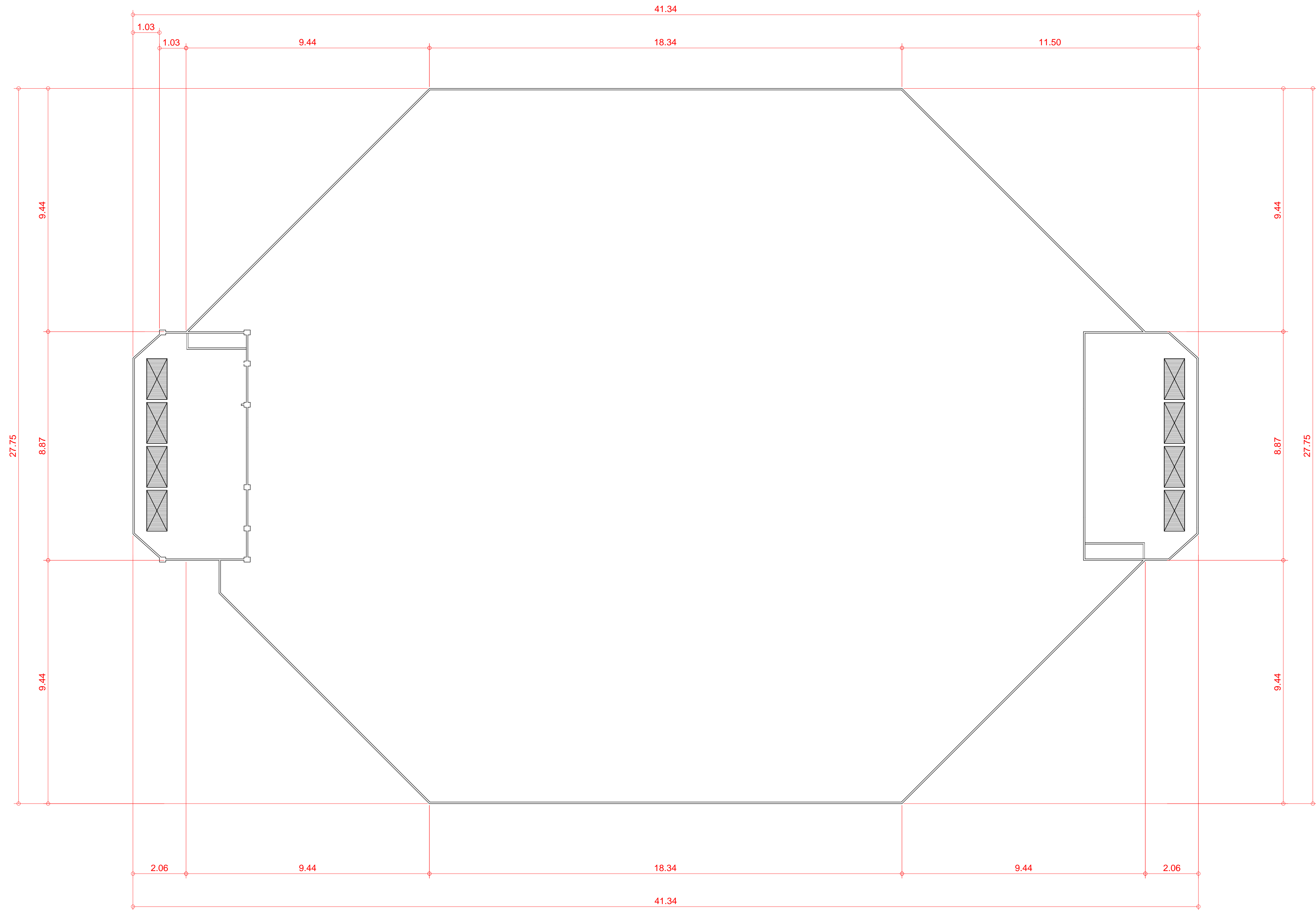

5TH FLOOR PLAN
 SCALE 1 : 250 MTS.

| | | | | | | | | |
|---|--|--|---|---|------------------|---|---|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : | |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 5 </div> | |
| | | | | | | <small>DRAWN BY :</small> <small>CHECKED BY :</small> <small>DATE :</small> <small>APPROVED BY :</small> | | |
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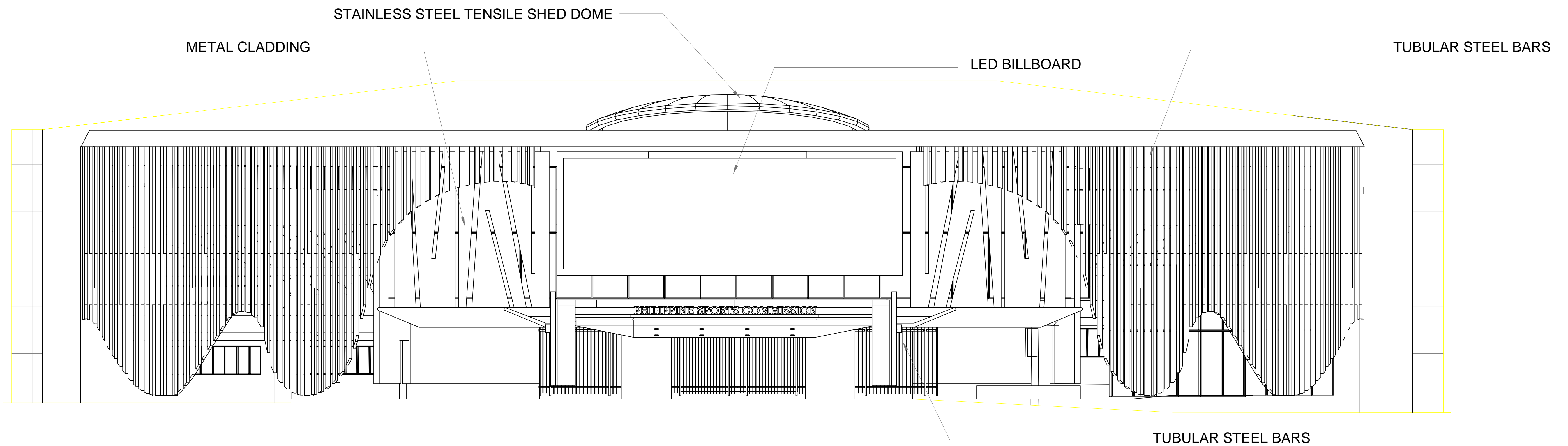

6TH FLOOR PLAN
 SCALE 1 : 250 MTS.

| | | | | | | | |
|---|--|--|---|---|------------------|--------------|---|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 6 </div> |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | APPROVED BY : | | |

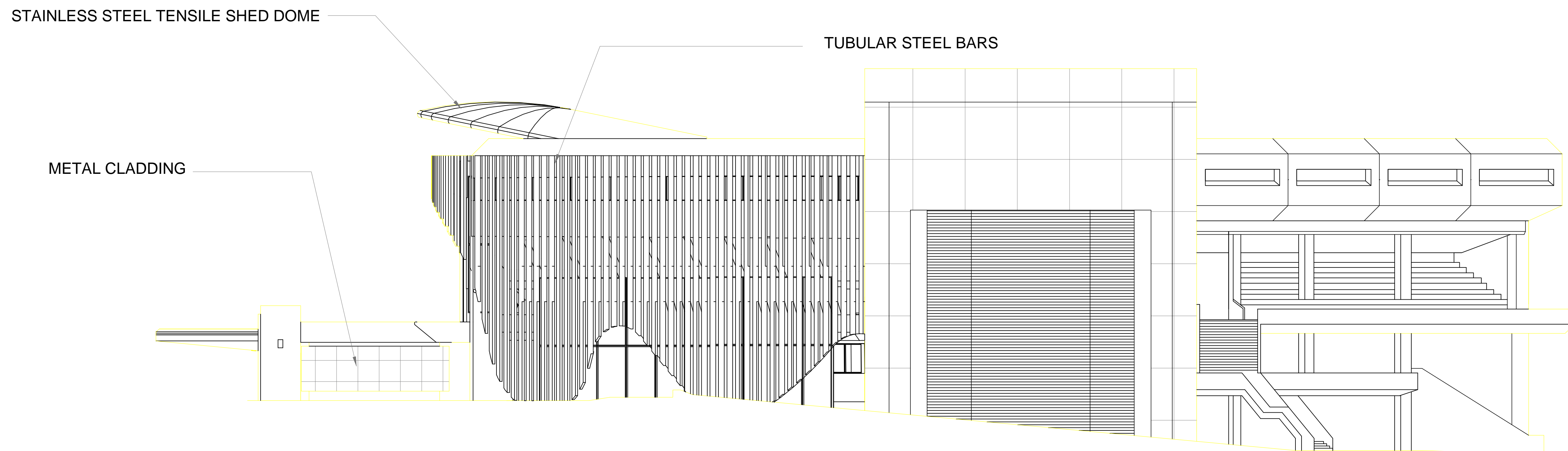



ROOF DECK PLAN
 SCALE 1 : 250 MTS.


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|---|--|--|---|---|------------------|--------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 7 </div> |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | APPROVED BY : | | |

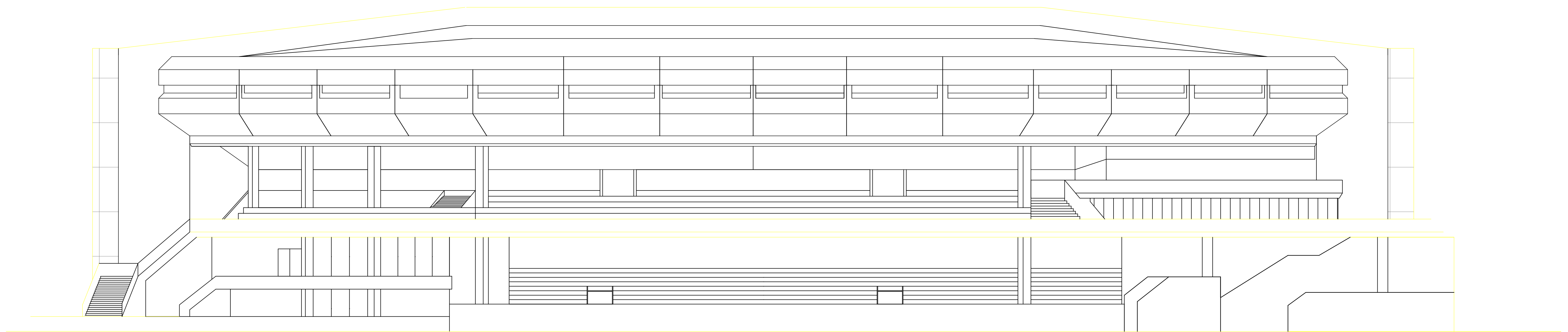


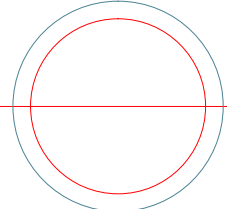
ELEVATION FROM ESCARPENT ROAD
SCALE 1:200 MTS.

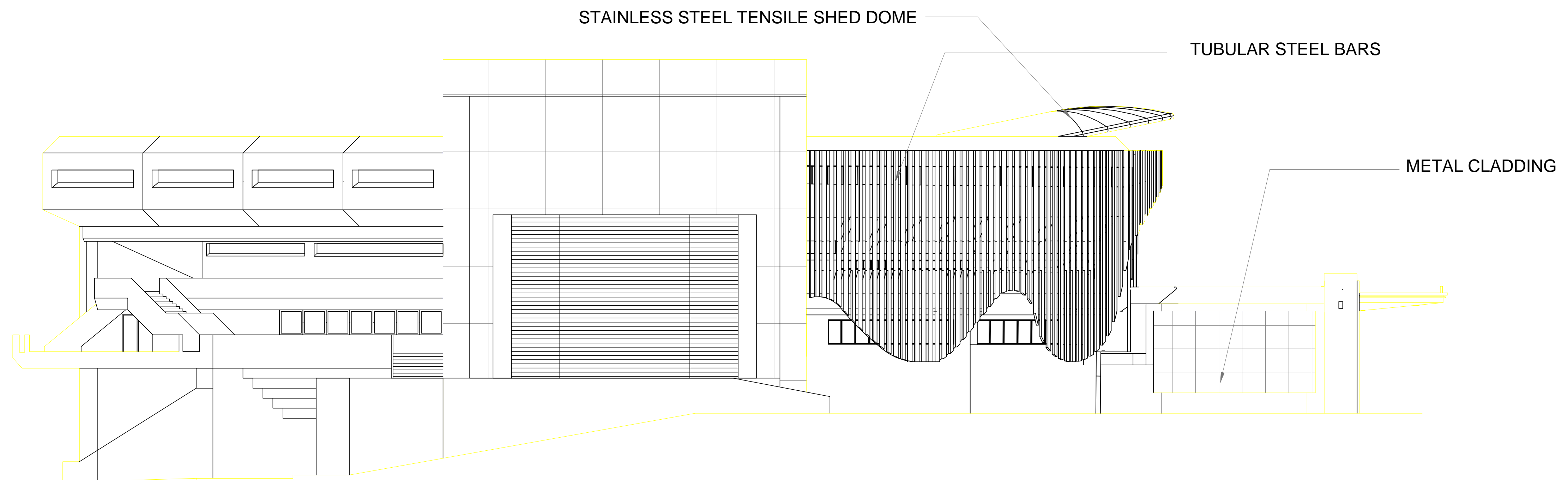


ELEVATION FROM VALLE VERDE COUNTRY CLUB
SCALE 1:200 MTS.


| | | | | | | | |
|---|--|--|---|---|------------------|---------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | DRAWN BY : | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> A 8 </div> |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | | APPROVED BY : | |

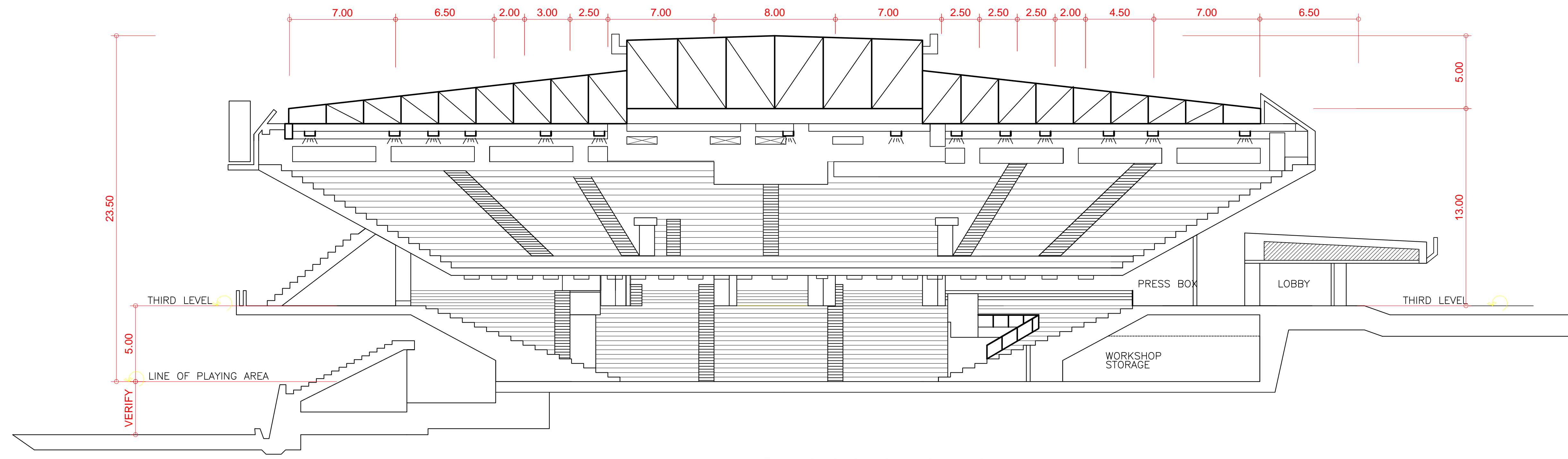



ELEVATION FROM TRACK OVAL
 SCALE 1 : 200 MTS.

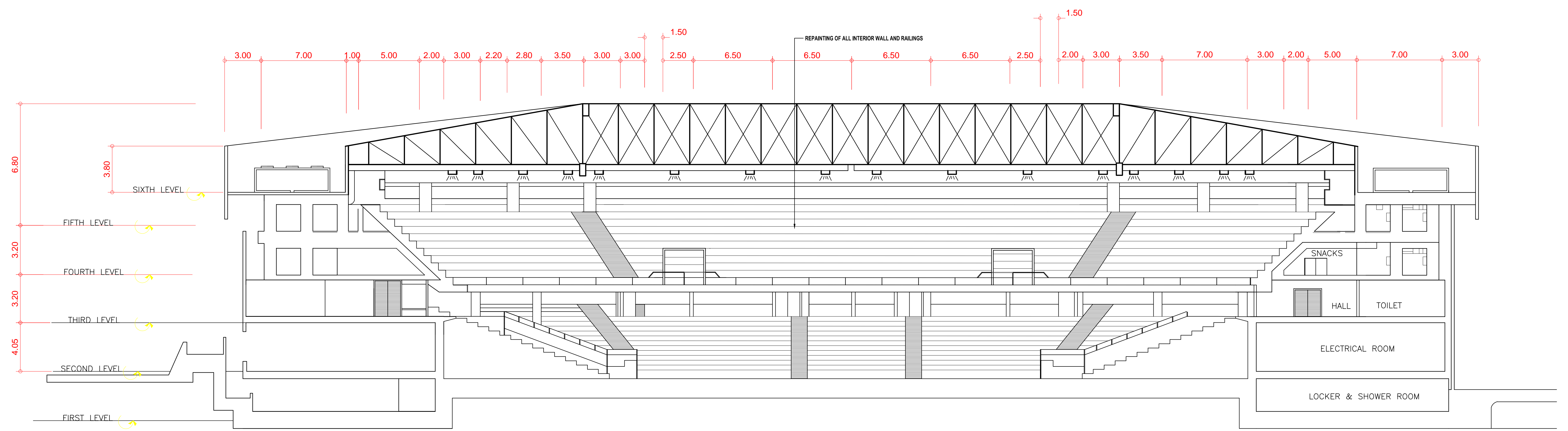



ELEVATION FACING COMMUNITY INTERACTION BLDG.
 SCALE 1 : 200 MTS.


| | | | | | | | |
|---|--|--|---|---|------------------|--------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 9 </div> |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | APPROVED BY : | | |

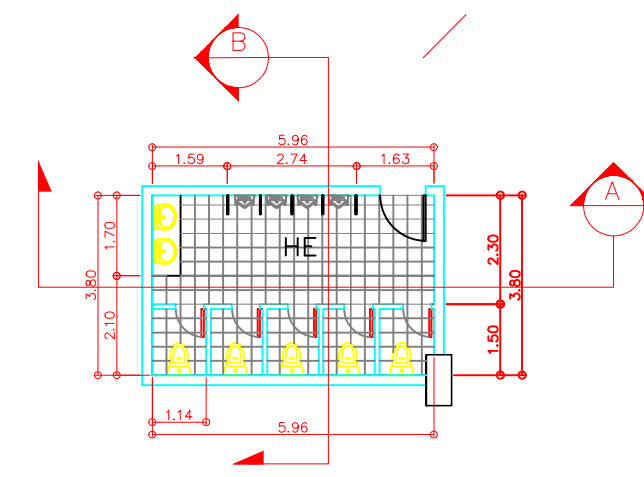


CROSS SECTION
SCALE 1:200 MTS.

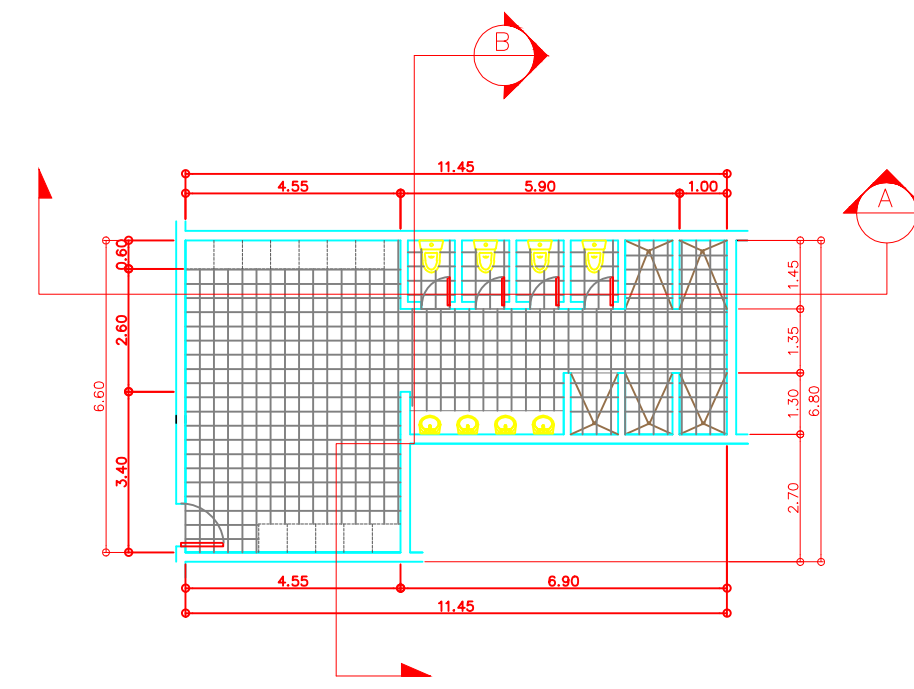


LONGITUDINAL SECTION
SCALE 1:200 MTS.

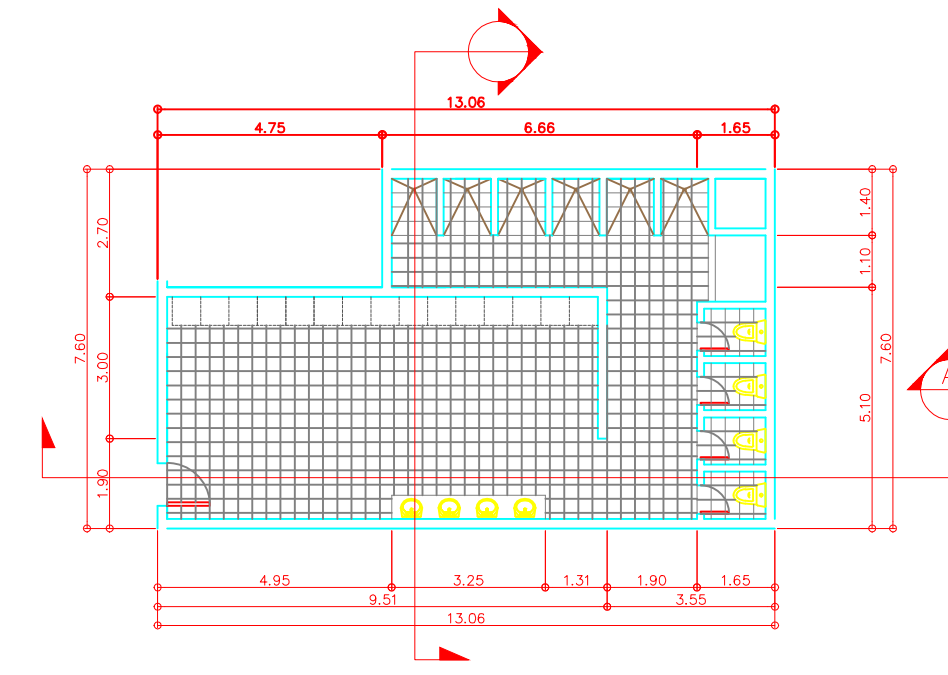
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| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DESIGN BY : DRAWN BY : CHECKED BY : DATE : APPROVED BY : | A 10 |



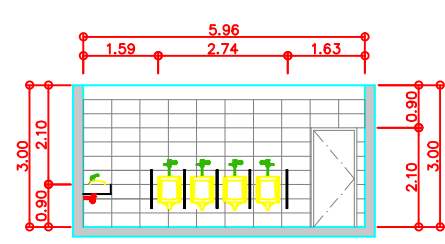
TOILET 1 FLOOR PLAN



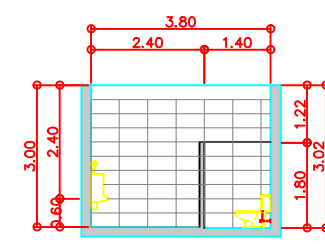
DUG OUT A FLOOR PLAN



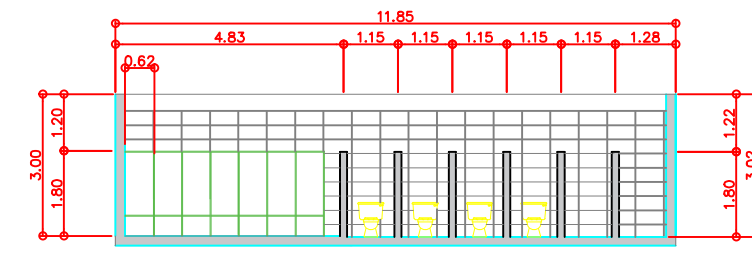
DUG OUT B FLOOR PLAN



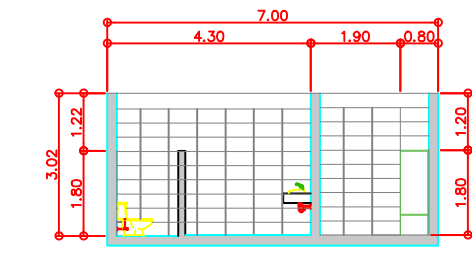
SECTION THRU "A"



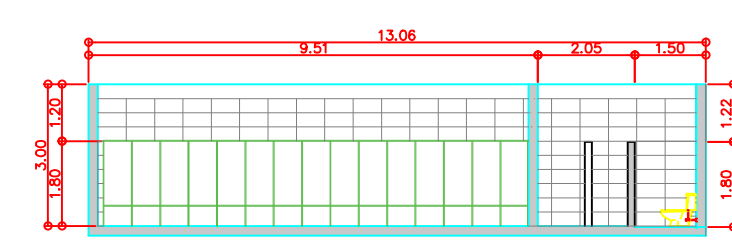
SECTION THRU "B"



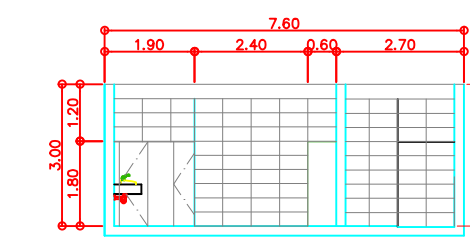
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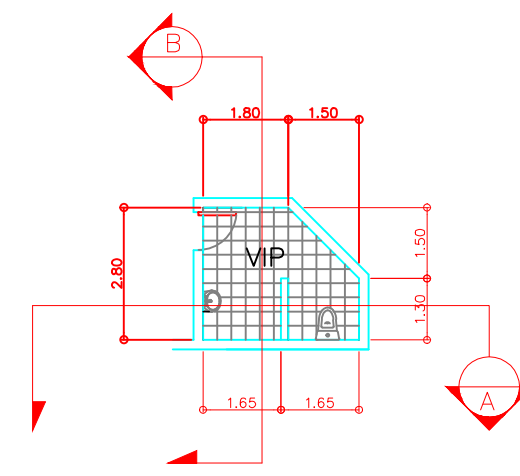
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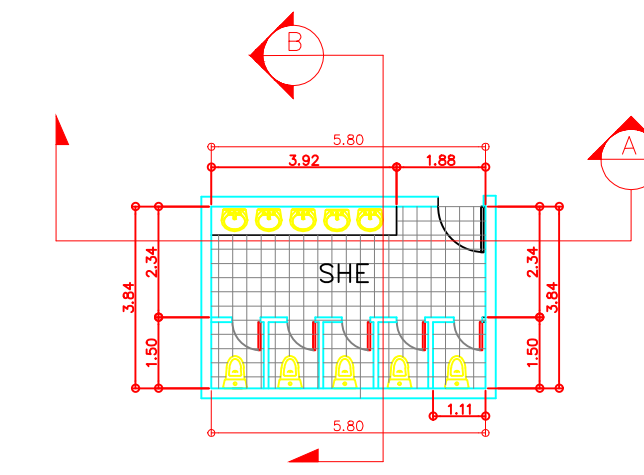
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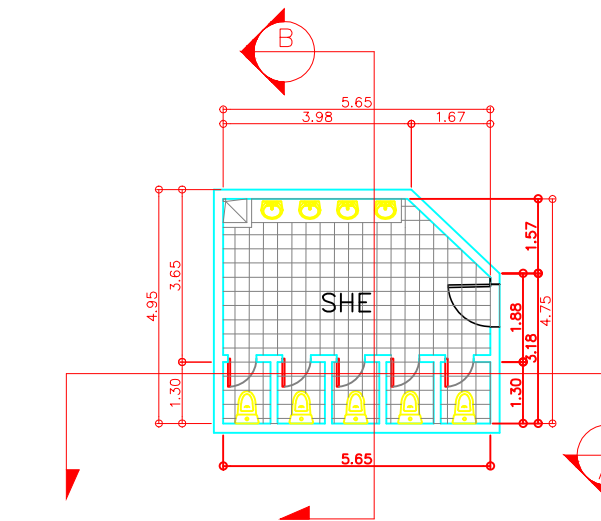
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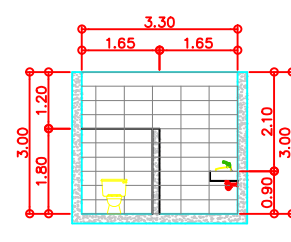
VIP TOILET FLOOR PLAN



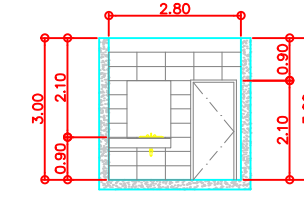
TOILET 2 FLOOR PLAN



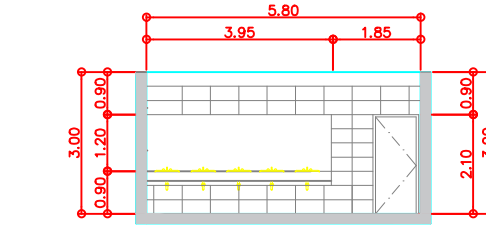
TOILET 3 FLOOR PLAN



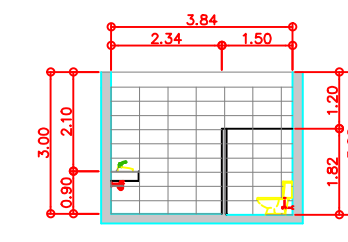
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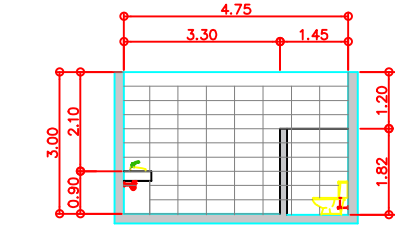
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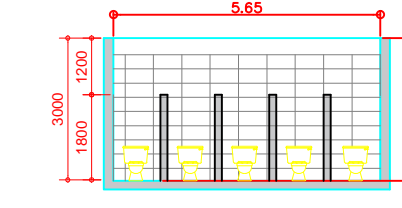
SECTION THRU "A"



SECTION THRU "B"

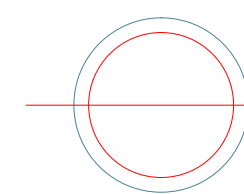


SECTION THRU "A"



SECTION THRU "B"


GROUND & 2ND FLOOR
TOILETS & FIXTURES BLOW-UP

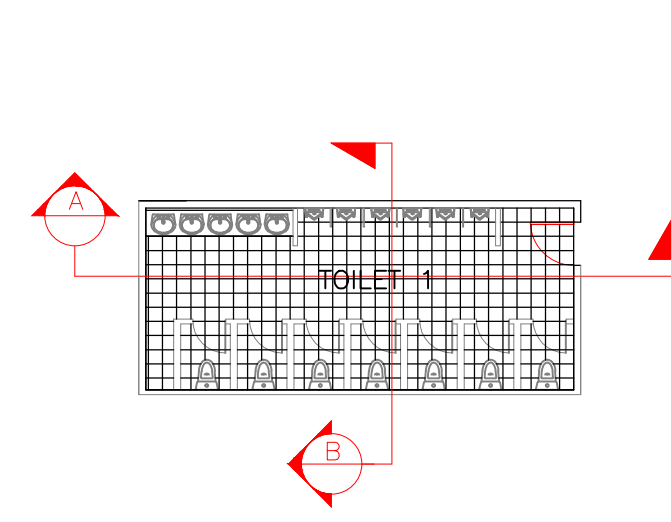


SCALE

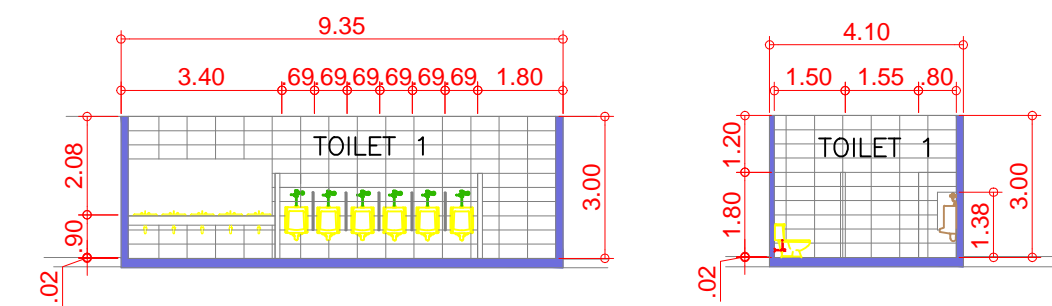
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MTS

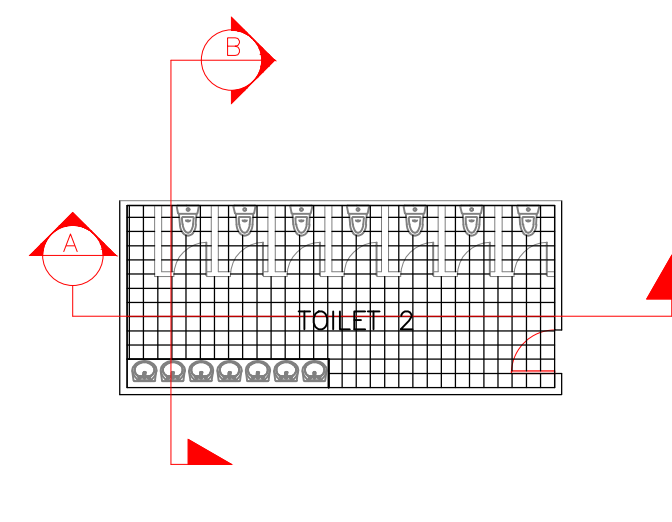
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|--|---|---|--|--|------------------|---|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DRAWN BY : CHECKED BY : DATE : APPROVED BY : | <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A <hr style="width: 100%;"/> 11 </div> |



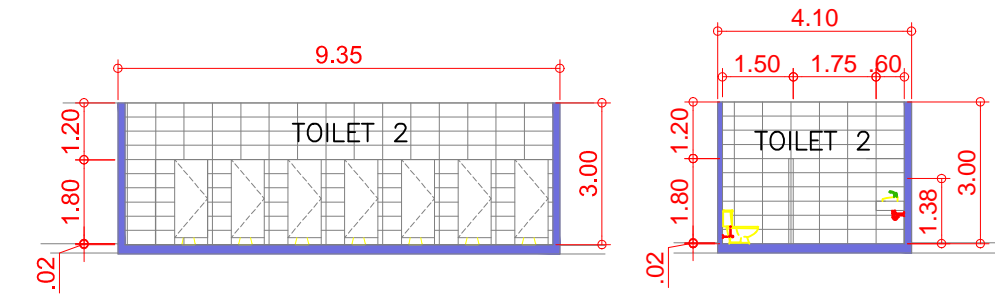
TOILET 1 FLOOR PLAN



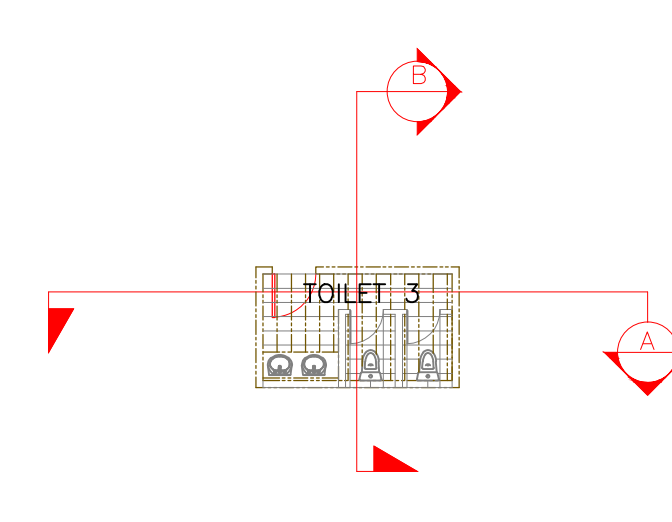
SECTION THRU "A" SECTION THRU "B"



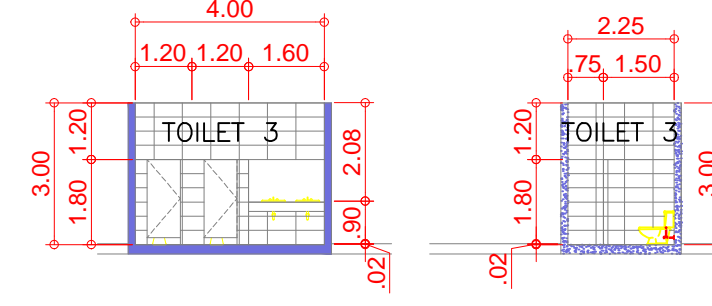
TOILET 2 FLOOR PLAN



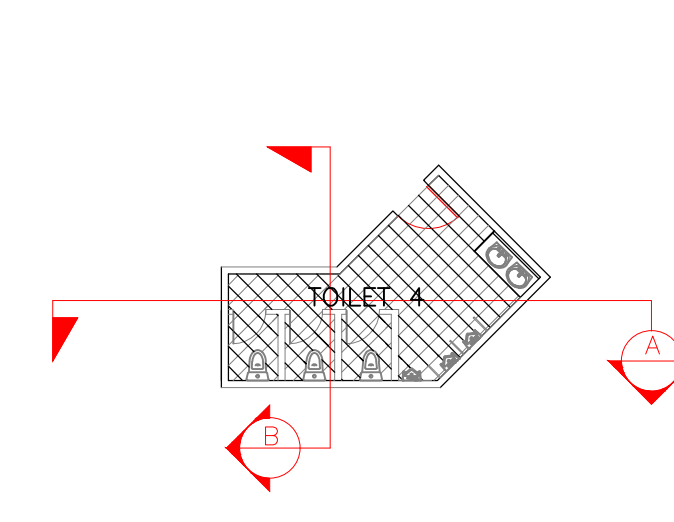
SECTION THRU "A" SECTION THRU "B"



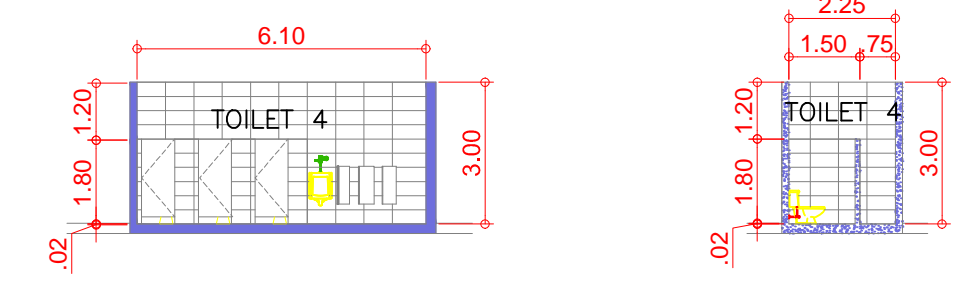
TOILET 3 FLOOR PLAN



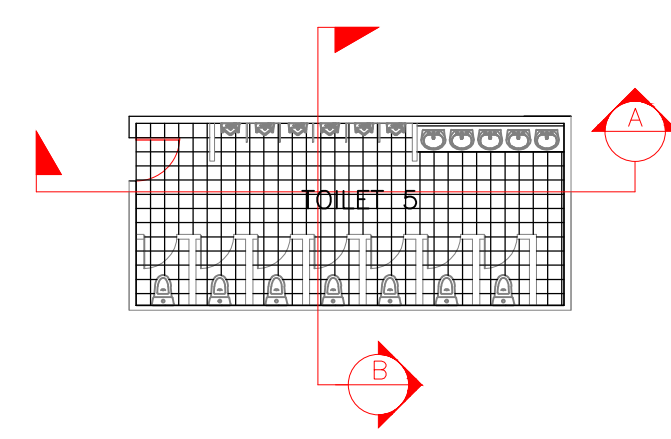
SECTION THRU "A" SECTION THRU "B"



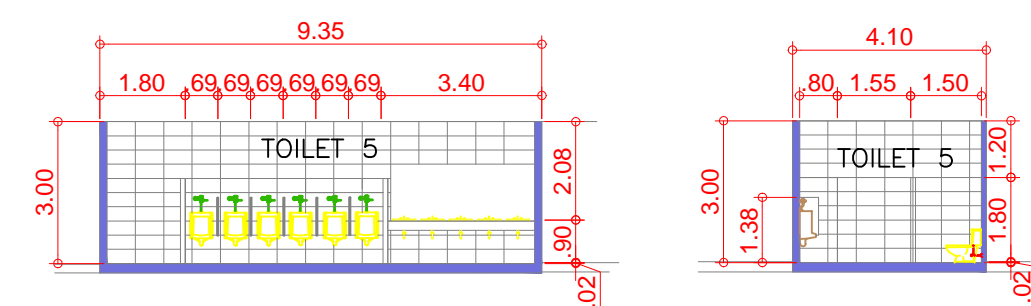
TOILET 4 FLOOR PLAN



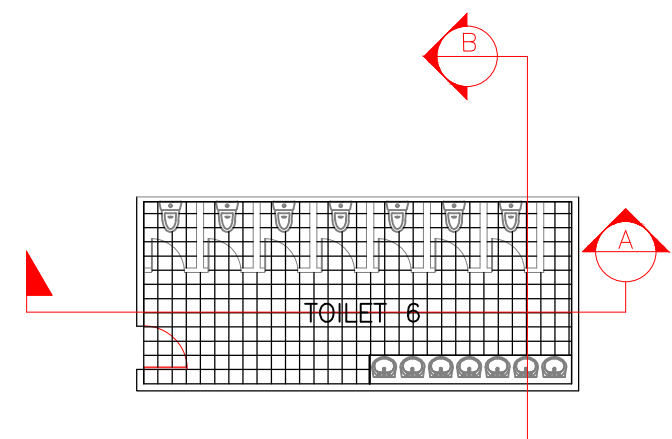
SECTION THRU "A" SECTION THRU "B"



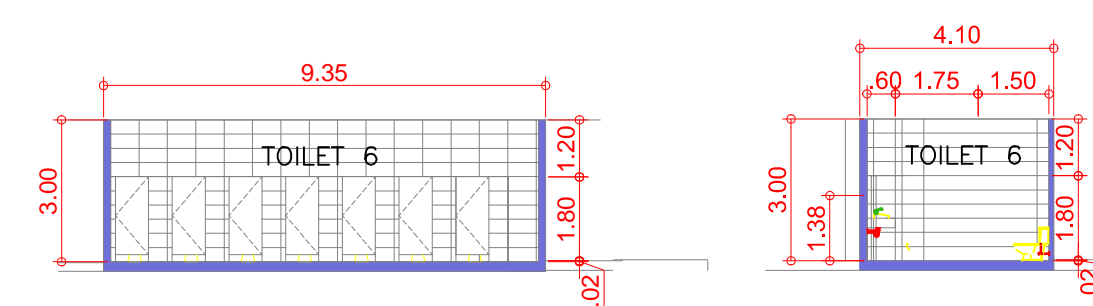
TOILET 5 FLOOR PLAN



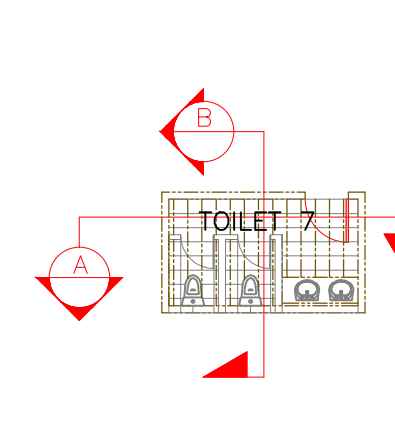
SECTION THRU "A" SECTION THRU "B"



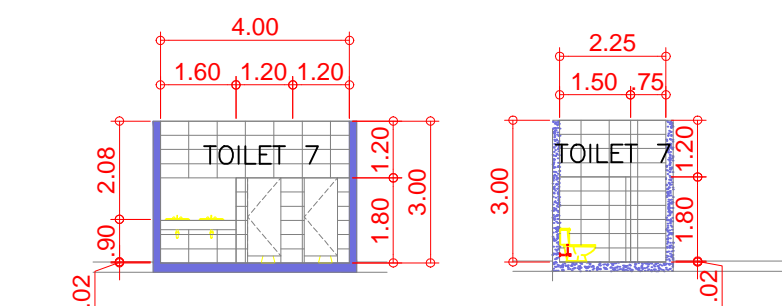
TOILET 6 FLOOR PLAN



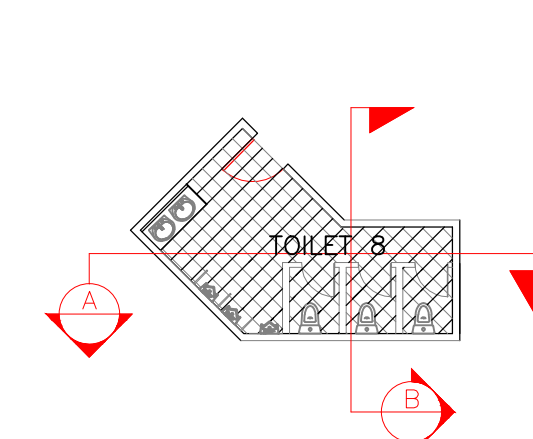
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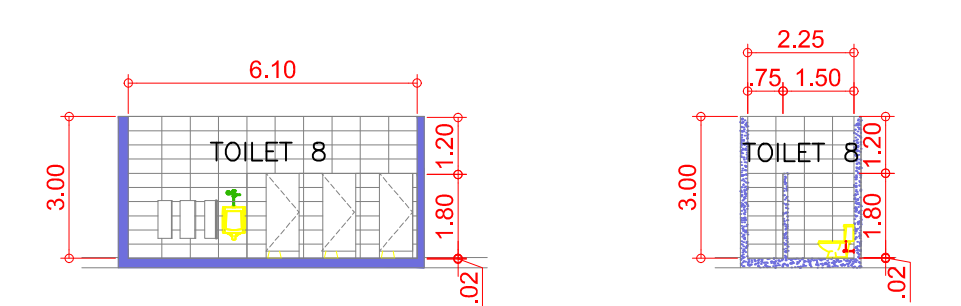
TOILET 7 FLOOR PLAN



SECTION THRU "A" SECTION THRU "B"

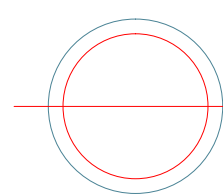


TOILET 8 FLOOR PLAN




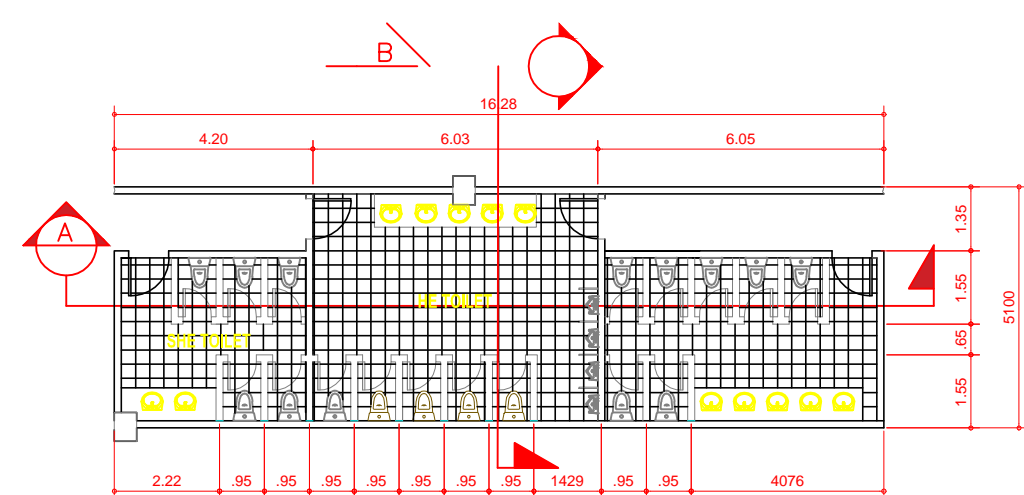
SECTION THRU "A" SECTION THRU "B"

3RD FLOOR (TOILET 5)
TOILET AND FIXTURE BLOW UPS

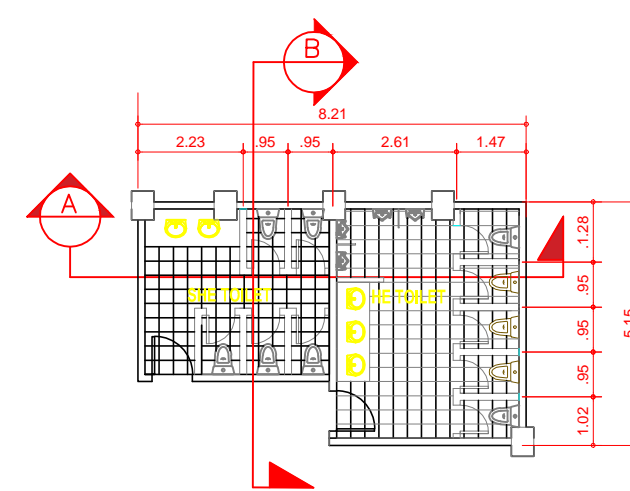


SCALE 1:100 MTS

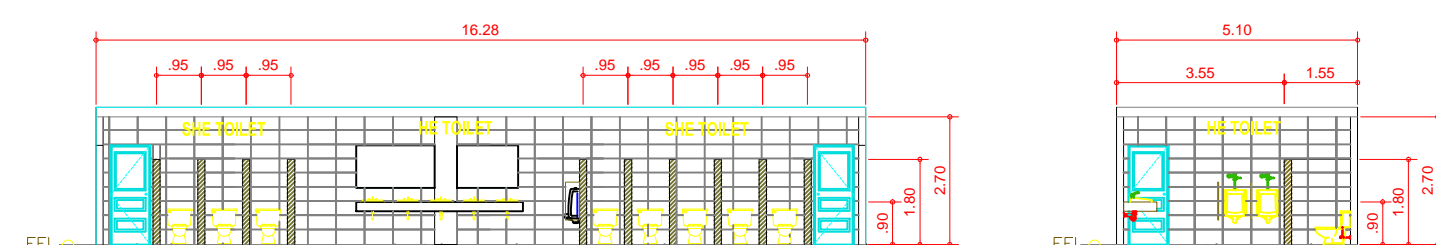
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|--|--|---|--|--|------------------|---------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | PROPOSED TRACK OVAL ROOFING LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DRAWN BY : | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> A </div> |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | | APPROVED BY : | |



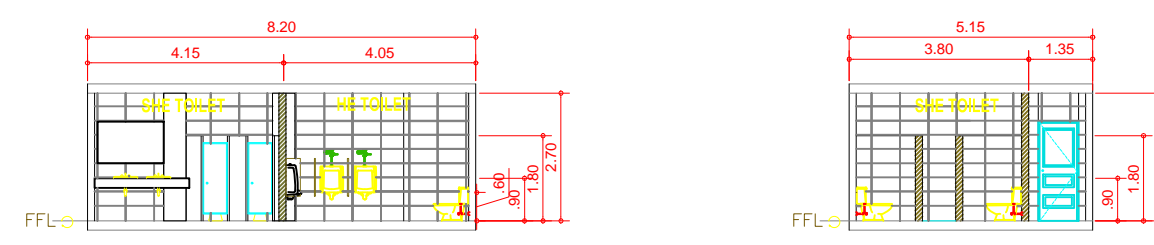
TOILET 1 FLOOR PLAN



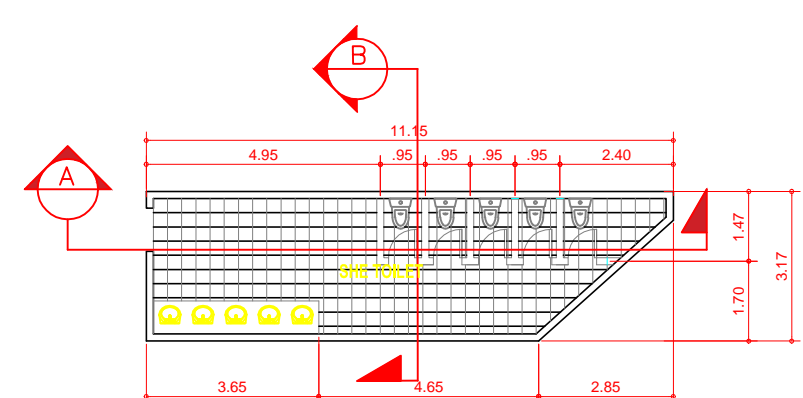
TOILET 2 FLOOR PLAN



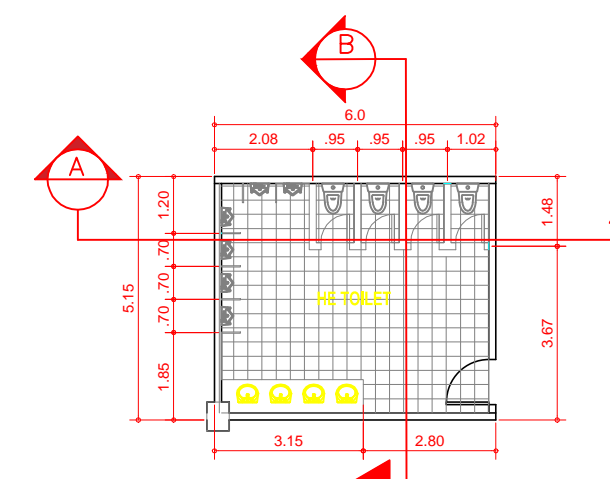
SECTION THRU "A" SECTION THRU "B"



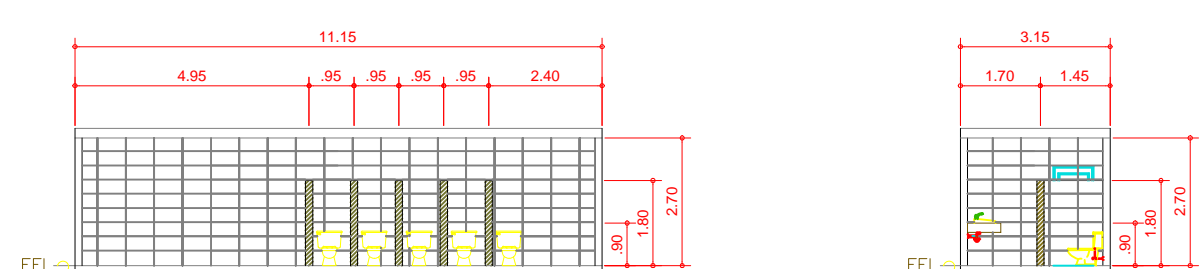
SECTION THRU "A" SECTION THRU "B"



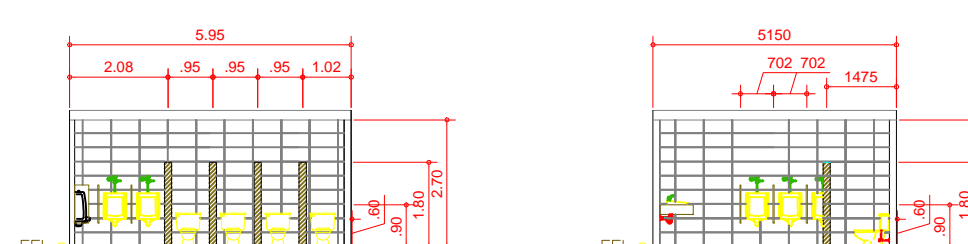
TOILET 3 (SHE) FLOOR PLAN



TOILET 3 (HE) FLOOR PLANS

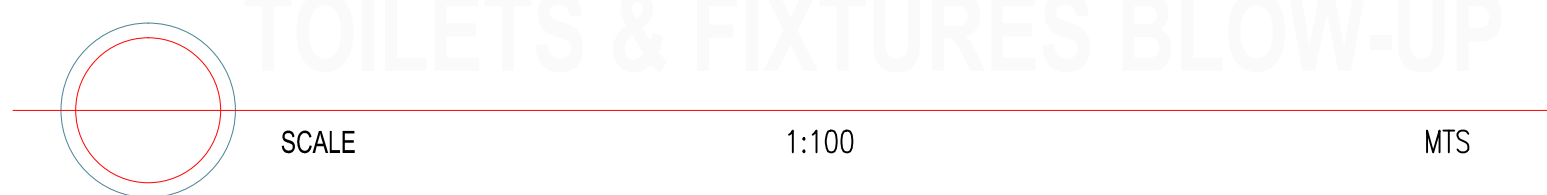



SECTION THRU "A" SECTION THRU "B"

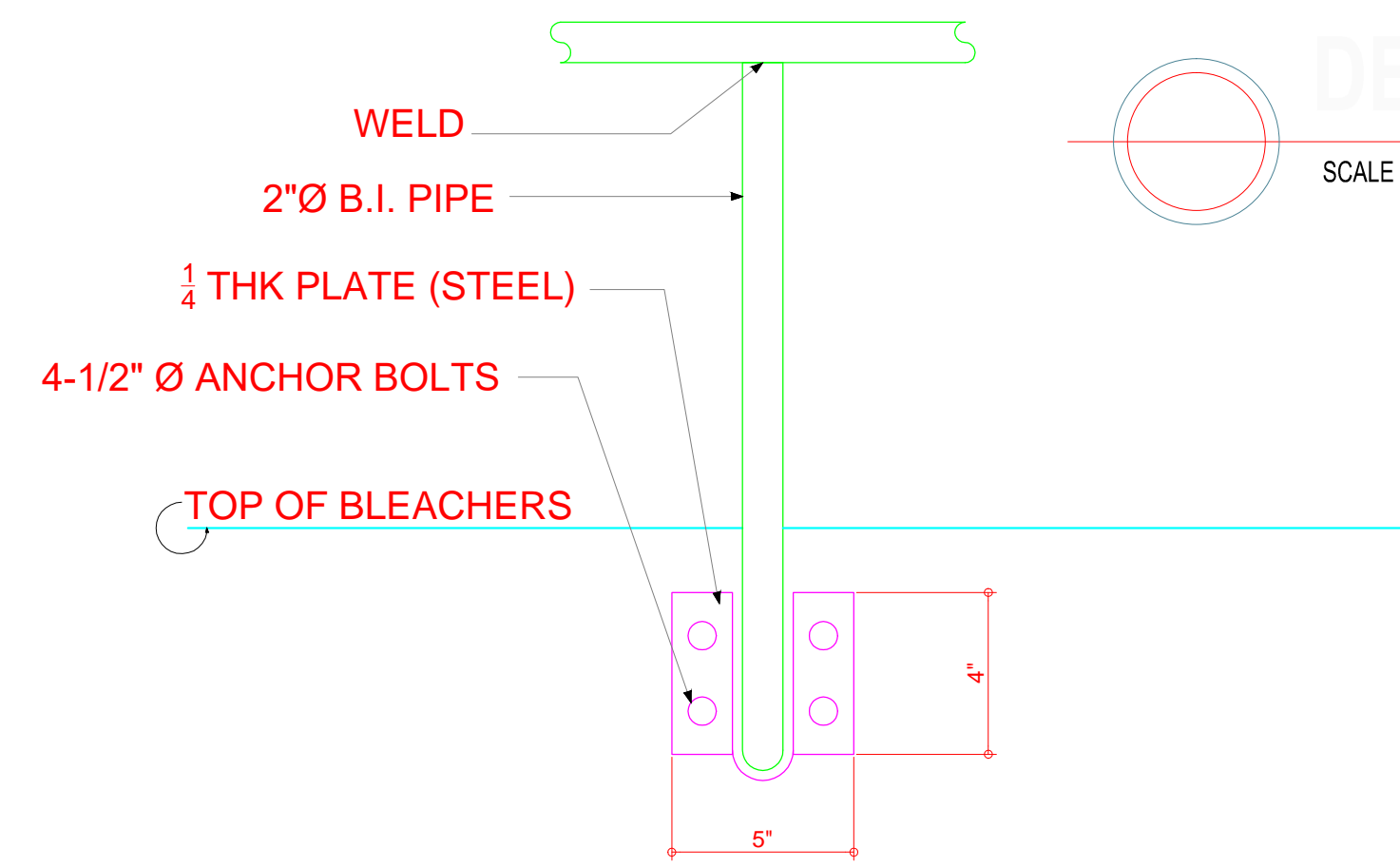


SECTION THRU "A" SECTION THRU "B"

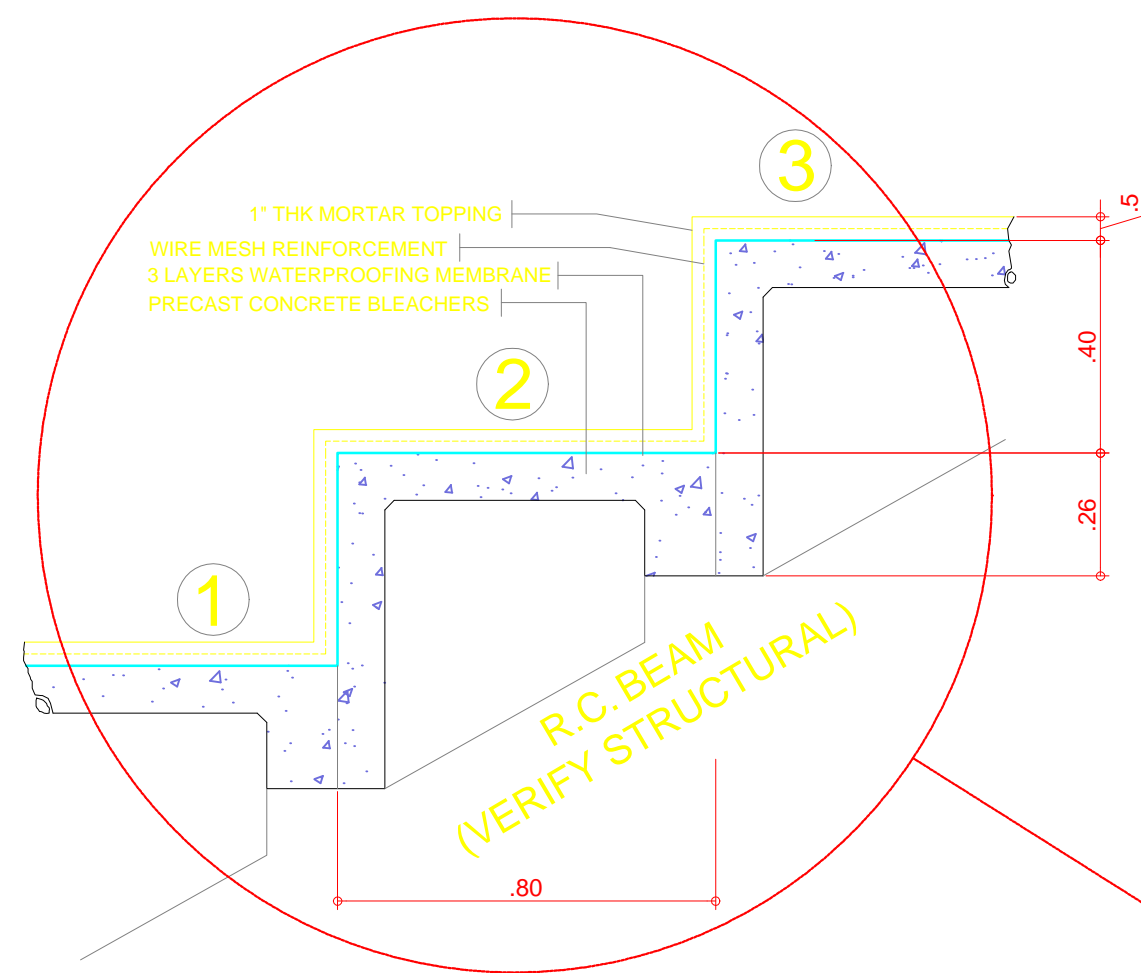
4TH FLOOR
TOILETS & FIXTURES BLOW-UP



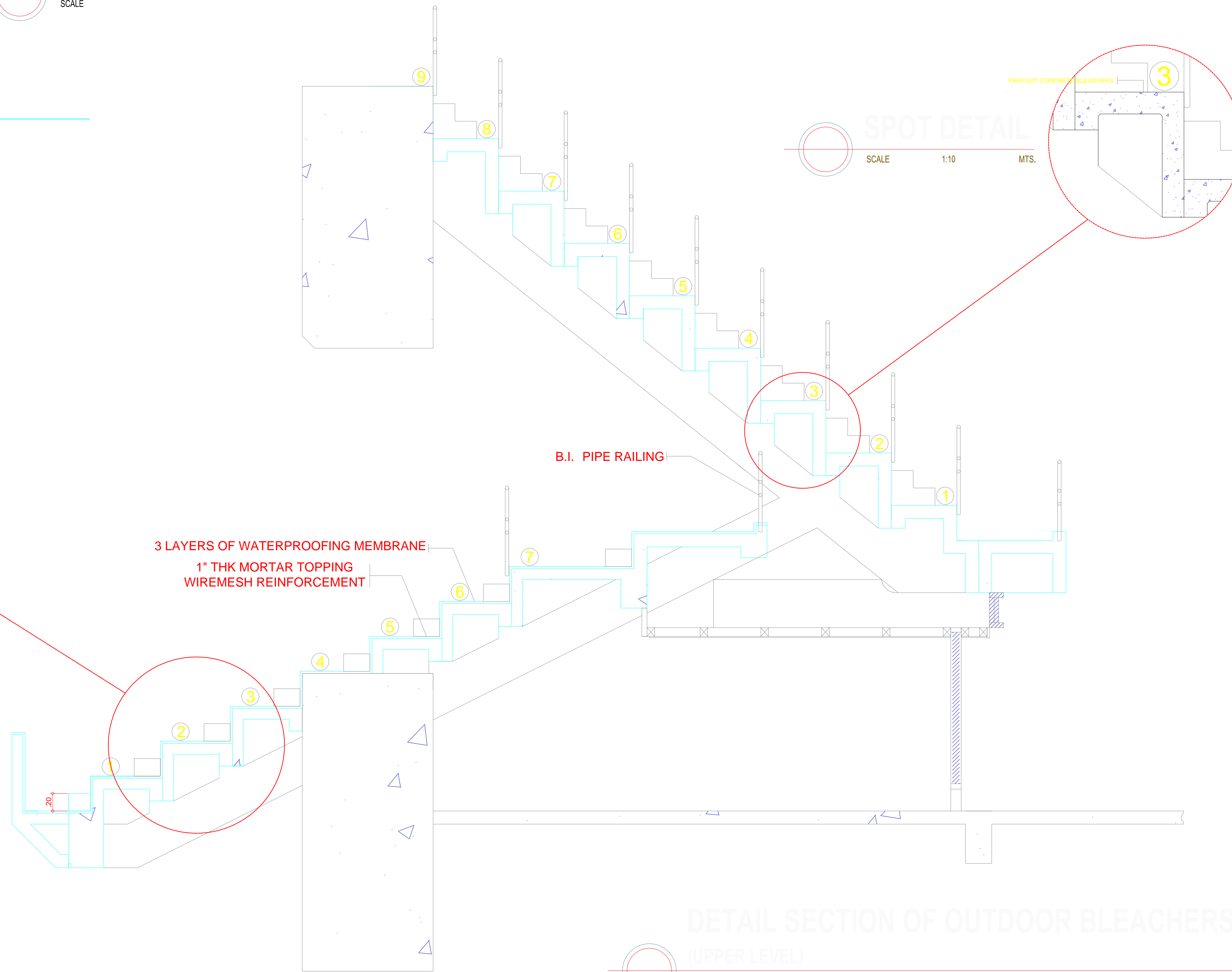
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|--|---|---|--|--|------------------|--------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DESIGN BY : | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> A </div> |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| APPROVED BY : | 13 | | | | | | |



DETAIL OF RAILING CONNECTION
SCALE NTS.




SPOT DETAIL
SCALE 1:10 MTS.



SPOT DETAIL
SCALE 1:10 MTS.

DETAIL SECTION OF OUTDOOR BLEACHERS
(UPPER LEVEL)
SCALE 1:10 MTS.

| | | | | | | | |
|--|---|---|--|--|------------------|--------------|---|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| APPROVED BY : | | | | | | | |

EQUIPMENT LIST FOR AREAS SHOWN

| QTY | Pole | | | Luminaires | | | | |
|-----|---|------|-----------------|-----------------|----------------|------------|-----------|-------------|
| | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | LUMINAIRE TYPE | QTY / POLE | THIS GRID | OTHER GRIDS |
| 24 | A1-A4, A6 A13-A16 A45-A48 A50 A52-A53 A55 A57-A60 A8-A9, A11 | | 18m | 18m | TLC-LED-600 | 2 | 1 | 1 |
| 24 | TOTALS | | | | | 48 | 24 | 24 |

GRID SUMMARY

Name: 03 Whole Area
Size: 28.0m x 15.0m
Spacing: 5.0m x 5.0m
Height: 1.0m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX

Scan Average: 504.80
Maximum: 647.20
Minimum: 317.57
Min / Avg: 0.63
Min / Max: 0.49
UG (adjacent pts): 1.60
CU: 0.86
No. of Points: 105

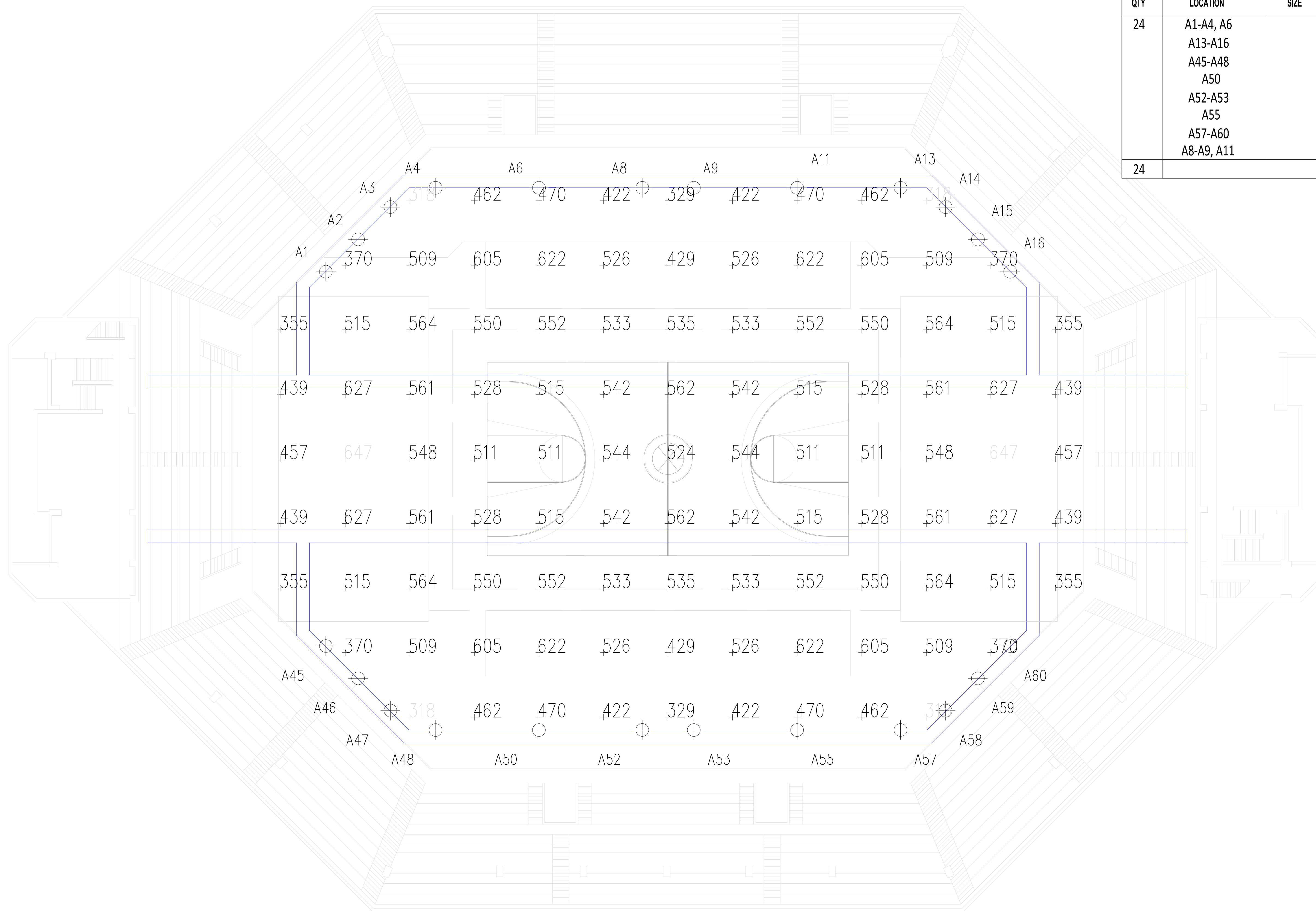
LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 65,600 lumens
No. of Luminaires: 24
Total Load: 13.92 kW

Lumen Maintenance

| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
|----------------|---------|---------|---------|
| TLC-LED-600 | >81,000 | >81,000 | >81,000 |


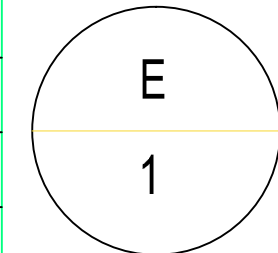
Reported per TM-21-11. See luminaire datasheet for details.

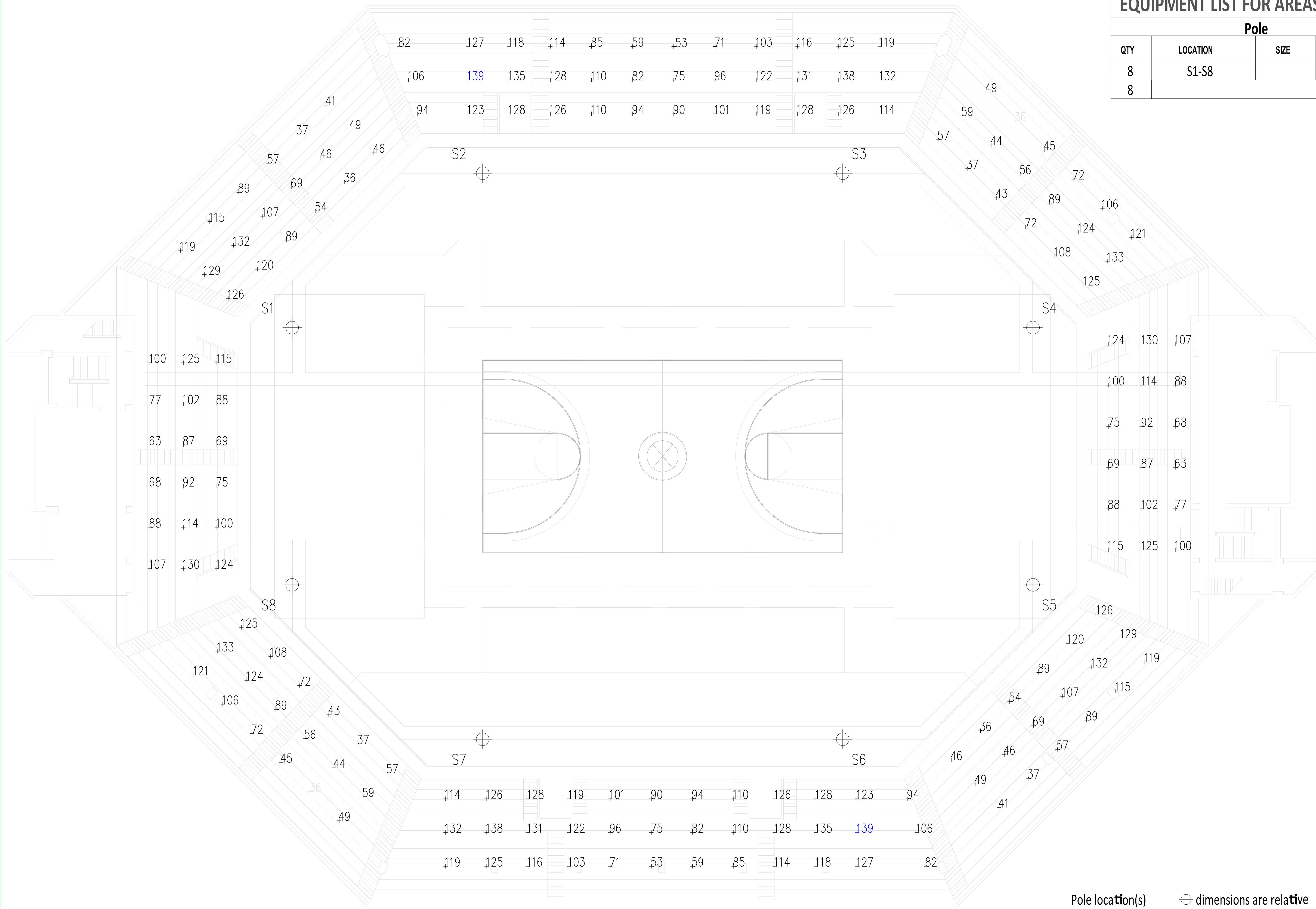


ILLUMINATION SUMMARY

SCALE 1:200 MTS.

Pole location(s) ⊕ dimensions are relative
 to 0,0 reference point(s) ⊗

| | | | | | | | |
|--|---|--|---|-------------------------------------|------------------|---------------|---|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DESIGN BY : |  |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | | APPROVED BY : | |



| EQUIPMENT LIST FOR AREAS SHOWN | | | | | | | | |
|--------------------------------|----------|------|-----------------|-----------------|----------------|------------|-----------|-------------|
| Pole | | | | Luminaires | | | | |
| QTY | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | LUMINAIRE TYPE | QTY / POLE | THIS GRID | OTHER GRIDS |
| 8 | S1-S8 | | 18m | 18m | TLC-LED-400 | 1 | 1 | 0 |
| 8 | TOTALS | | | | | 8 | 8 | 0 |

| GRID SUMMARY | |
|--------------|------------------|
| Name: | 04 Bleachers |
| Size: | 28.0m x 15.0m |
| Spacing: | 3.1m x 3.1m |
| Height: | 3.3m above grade |

| ILLUMINATION SUMMARY | | | |
|---|----------------|---------|---------|
| MAINTAINED HORIZONTAL LUX | | | |
| Scan Average: | 94.19 | | |
| Maximum: | 138.83 | | |
| Minimum: | 35.72 | | |
| Min / Avg: | 0.38 | | |
| Min / Max: | 0.26 | | |
| UG (adjacent pts): | 0.00 | | |
| CU: | 0.46 | | |
| No. of Points: | 180 | | |
| LUMINAIRE INFORMATION | | | |
| Color / CRI: | 5700K - 75 CRI | | |
| Luminaire Output: | 46,500 lumens | | |
| No. of Luminaires: | 8 | | |
| Total Load: | 3.2 kW | | |
| Lumen Maintenance | | | |
| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
| TLC-LED-400 | >81,000 | >81,000 | >81,000 |
| Reported per TM-21-11. See luminaire datasheet for details. | | | |

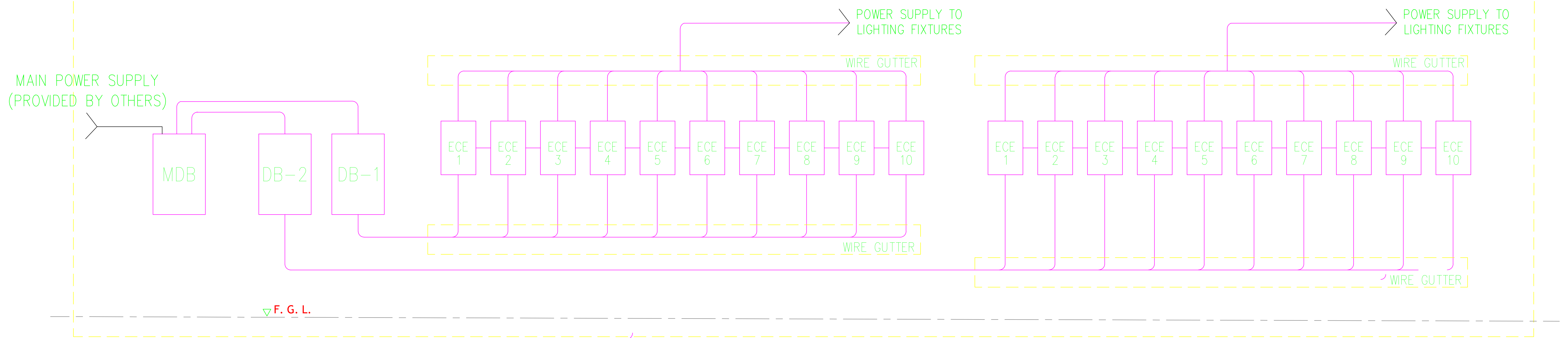
ILLUMINATION SUMMARY

SCALE 1:200 MTS.

Pole location(s) dimensions are relative to 0,0 reference point(s)


| | | | | | | | |
|--|--|--|---|---|------------------|--------------|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
| PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | DESIGN BY : | <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> E 2 </div> |
| | | | | | | DRAWN BY : | |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| APPROVED BY : | | | | | | | |

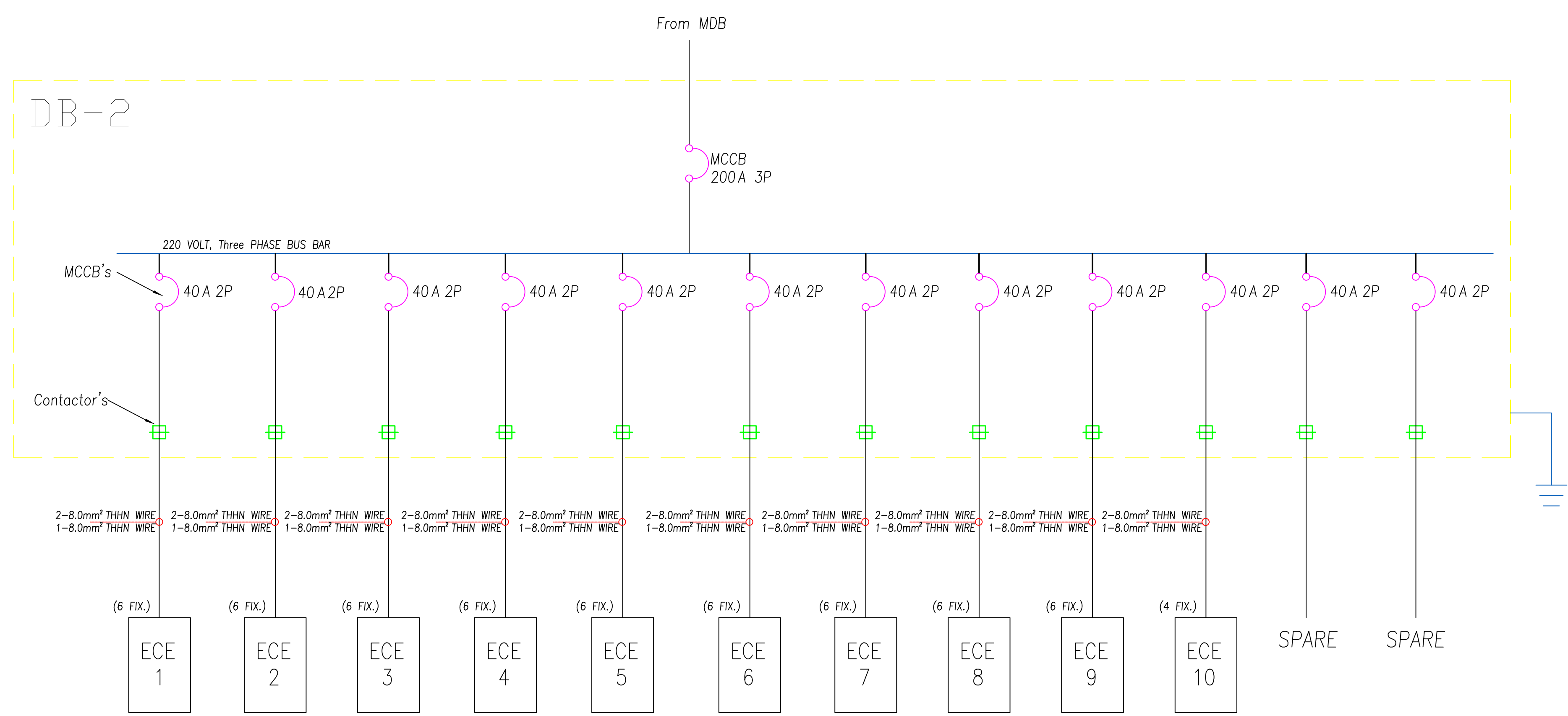
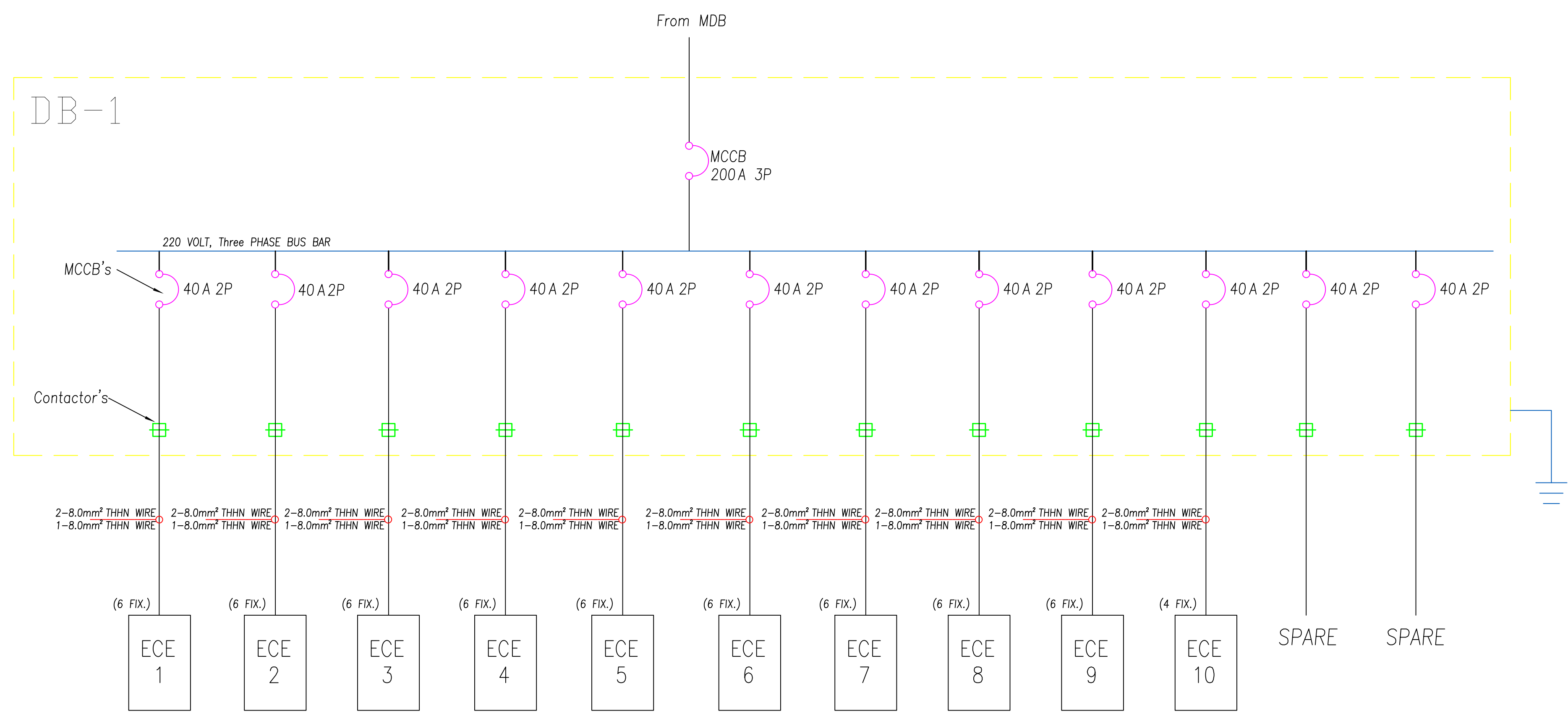
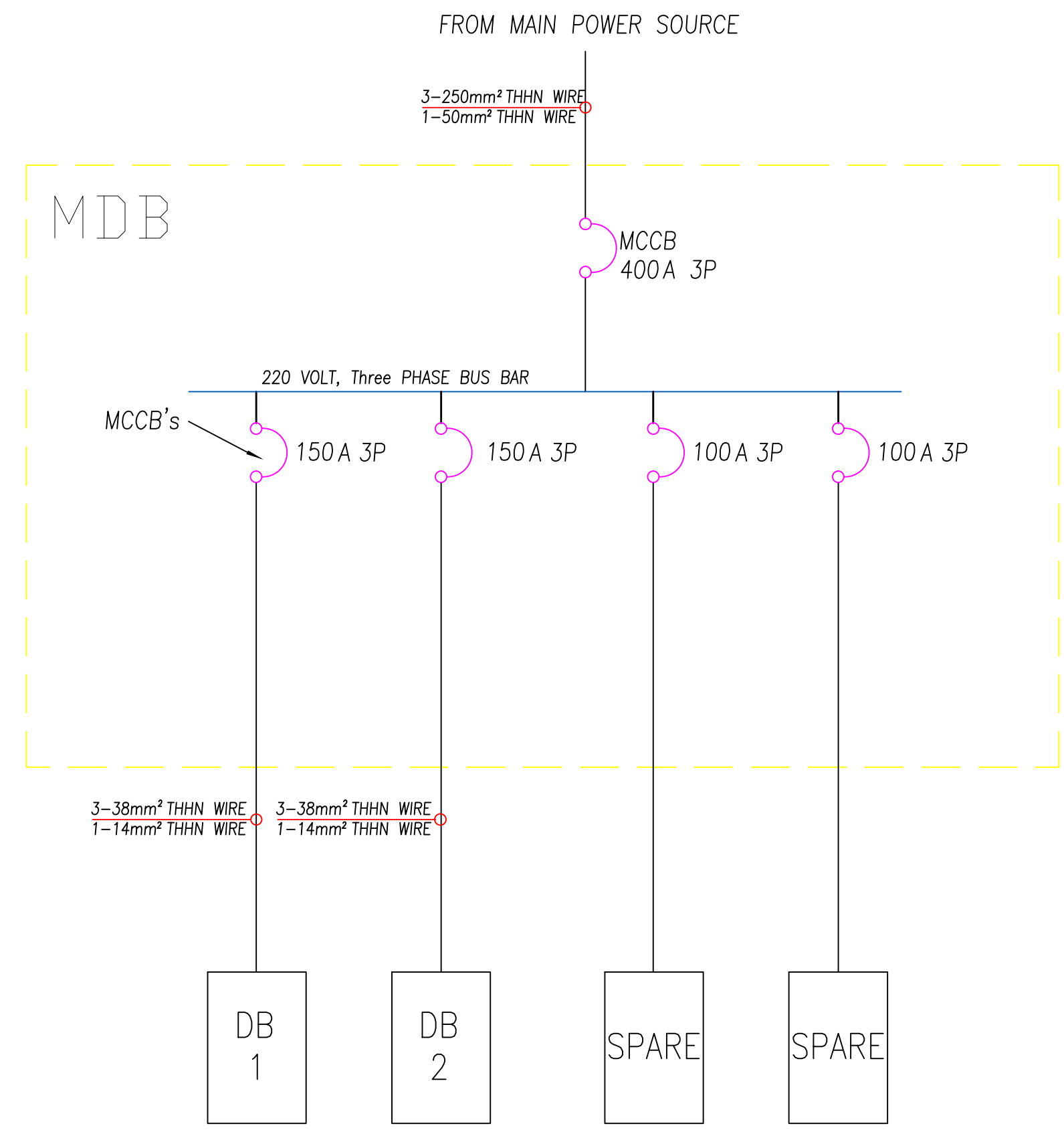
ELECTRICAL ROOM



NOTE : FOR SIZES OF CABLES, WIRES AND CONDUITS, SEE ELECTRICAL LOAD SCHEDULE AND DETAILS

POWER SINGLE LINE DIAGRAM
SCALE: NTS.

| | | | | | | | |
|--|---|--|---|-------------------------------------|------------------|---------------|---|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA | RENOVATION OF MULTI PURPOSE ARENA (MPA) LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY | ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT | DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR | HON. WILLIAM I. RAMIREZ CHAIRMAN | AS SHOWN | DRAWN BY : | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> E 4 </div> |
| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | | APPROVED BY : | |



DISTRIBUTION BOARD DETAIL (MDB & DB PANEL)

SCALE NTS.


| | | | | | | | |
|---|--|--|---|---|-------------------------------|---|--|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
| PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAÑO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | E 4 AS SHOWN | <small>DRAWN BY :</small> <small>CHECKED BY :</small> <small>DATE :</small> <small>APPROVED BY :</small> | E <hr style="border: 0; border-top: 1px solid black;"/> 5 |

| SCHEDULE OF LOADS | | | | | | | | | | | |
|---|------------------|--------------|---------|---|--------|--------|-----------------|--|-----------------|-----------------|---------|
| MDB | | | | | | | | | | | |
| CKT NO. | LOAD DESCRIPTION | Total Ampere | Voltage | Phase Connection (Amperes) | | | Circuit Breaker | | Wire | | Conduit |
| | | | V | AB | BC | CA | AT | P | MM ² | MM ² | INCHES |
| 1 | DB-1 | 2.20 | 220 | 48.40 | 52.80 | 52.80 | 150 | 3 | 3-8.0 | 14.0 | 1 1/2" |
| 2 | DB-2 | 2.20 | 220 | 48.40 | 52.80 | 52.80 | 150 | 3 | 3-8.0 | 14.0 | 1 1/2" |
| 3 | SPARE | - | - | 25.00 | 25.00 | 25.00 | 100 | 3 | - | - | - |
| 4 | SPARE | - | - | 25.00 | 25.00 | 25.00 | 100 | 3 | - | - | - |
| TOTAL CONNECTED LOADS | | | | 146.80 | 155.60 | 155.60 | | | | | |
| I = 155.60 x 1.732 @ 100% DEMAND FACTOR I = 269.50 Amp | | | | USE: 3 - 250mm ² THHN WIRE + 1-50MM ² IN 3 1/2" Ø IMC CONDUIT | | | | CIRCUIT BREAKER: 400 AT 3P, 250V WITH GROUND | | | |

| SCHEDULE OF LOADS | | | | | | | | | | | |
|---|------------------------|--------------|---------|--|-------|-------|-----------------|--|-----------------|-----------------|---------|
| DB-1 | | | | | | | | | | | |
| CKT NO. | LOAD DESCRIPTION | Total Ampere | Voltage | Phase Connection (Amperes) | | | Circuit Breaker | | Wire | | Conduit |
| | | | V | AB | BC | CA | AT | P | MM ² | MM ² | INCHES |
| 1 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 2 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 3 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 4 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 5 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 6 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 7 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 8 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 9 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 10 | 4 LIGHTS <TLC-LED-400> | 2.20 | 220 | 8.80 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 11 | SPARE | - | - | | 13.20 | | 40 | 2 | - | - | - |
| 12 | SPARE | - | - | | | 13.20 | 40 | 2 | - | - | - |
| TOTAL CONNECTED LOADS | | | | 48.40 | 52.80 | 52.80 | | | | | |
| I = 52.80 x 1.732 @ 100% DEMAND FACTOR I = 91.50 Amp | | | | USE: 3 - 38mm ² THHN WIRE + 1-14MM ² IN 1 1/2" Ø IMC CONDUIT | | | | CIRCUIT BREAKER: 150 AT 3P, 250V WITH GROUND | | | |

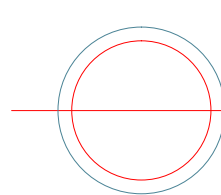
| SCHEDULE OF LOADS | | | | | | | | | | | |
|---|------------------------|--------------|---------|--|-------|-------|-----------------|--|-----------------|-----------------|---------|
| DB-2 | | | | | | | | | | | |
| CKT NO. | LOAD DESCRIPTION | Total Ampere | Voltage | Phase Connection (Amperes) | | | Circuit Breaker | | Wire | | Conduit |
| | | | V | AB | BC | CA | AT | P | MM ² | MM ² | INCHES |
| 1 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 2 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 3 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 4 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 5 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 6 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 7 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | 13.20 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 8 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | 13.20 | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 9 | 6 LIGHTS <TLC-LED-400> | 2.20 | 220 | | | 13.20 | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 10 | 4 LIGHTS <TLC-LED-400> | 2.20 | 220 | 8.80 | | | 40 | 2 | 2-8.0 | 8.0 | 3/4" |
| 11 | SPARE | - | - | | 13.20 | | 40 | 2 | - | - | - |
| 12 | SPARE | - | - | | | 13.20 | 40 | 2 | - | - | - |
| TOTAL CONNECTED LOADS | | | | 48.40 | 52.80 | 52.80 | | | | | |
| I = 52.80 x 1.732 @ 100% DEMAND FACTOR I = 91.50 Amp | | | | USE: 3 - 38mm ² THHN WIRE + 1-14MM ² IN 1 1/2" Ø IMC CONDUIT | | | | CIRCUIT BREAKER: 150 AT 3P, 250V WITH GROUND | | | |

MDB & DB - DESIGN AND LOAD COMPUTATION
SCALE: _____ NTS.

| | | | | | | | |
|--|---|---|--|--|------------------|---|----------------------|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| SCHEDULE OF LOADS | | | | | | | | |
|---|--|---------|---|--|---|-----------------|-----------------|------------|
| ECE PANEL: (TYPICAL: DB-1 TO DB-9) | | | | | | | | |
| CKT NO. | LOAD DESCRIPTION (each fixture - LED) | Voltage | Total Ampere | Circuit Breaker | | Wire | | Conduit |
| | | V | | AT | P | MM ² | MM ² | INCHES |
| 1 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | CABLE TRAY |
| 2 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | |
| 3 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | |
| 4 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | |
| 5 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | |
| 6 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | |
| TOTAL CONNECTED LOADS | | | 13.20 | | | | | |
| I = 13.20 @ 100% DEMAND FACTOR I = 13.20 Amp | | | USE: 2 - 8.0mm ² THHN 1 - 8.0mm ² GROUND WIRE IN 1" IMC CONDUIT | CIRCUIT BREAKER: 40 AT 2P, 250V WITH GROUND | | | | |


| SCHEDULE OF LOADS | | | | | | | | | |
|---|--|---------|---|--|---|-----------------|-----------------|------------|--|
| ECE PANEL: (TYPICAL: DB-1 TO DB-9) | | | | | | | | | |
| CKT NO. | LOAD DESCRIPTION (each fixture - LED) | Voltage | Total Ampere | Circuit Breaker | | Wire | | Conduit | |
| | | V | | AT | P | MM ² | MM ² | INCHES | |
| 1 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | CABLE TRAY | |
| 2 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | | |
| 3 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | | |
| 4 | 1-Light <TLC-LED-400> | 220 | 2.20 | | 2 | 2-3.5 | 3.5 | | |
| TOTAL CONNECTED LOADS | | | 8.80 | | | | | | |
| I = 8.80 @ 100% DEMAND FACTOR I = 8.80 Amp | | | USE: 2 - 8.0mm ² THHN 1 - 8.0mm ² GROUND WIRE IN 1" IMC CONDUIT | CIRCUIT BREAKER: 40 AT 2P, 250V WITH GROUND | | | | | |

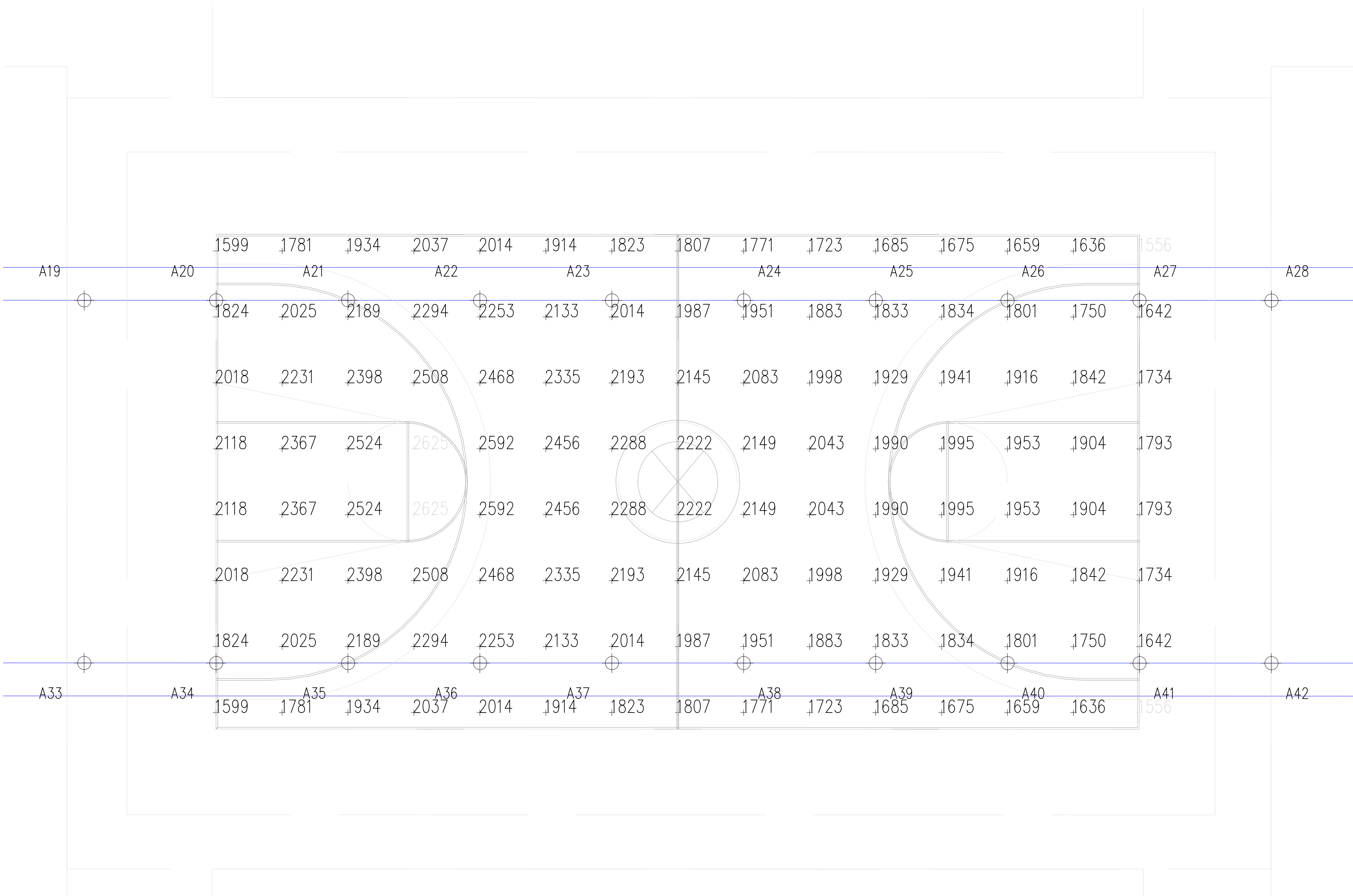


ECE DESIGN AND LOAD COMPUTATION

SCALE

NTS.

| | | | | | | | |
|---|--|--|---|---|------------------|---|---|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
|  PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small> | RENOVATION OF MULTI PURPOSE ARENA (MPA) <small>LOCATION: PHILSPORTS, ULTRA, MERALCO AVE., PASIG CITY</small> | ENGR. PEDRO I. PINEDA JR. <small>HEAD - ENGINEERING UNIT</small> | DIR. MERLITA R. IBAY <small>DEPUTY EXECUTIVE DIRECTOR</small> | HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small> | AS SHOWN | | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">E</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">7</div> </div> |
| | | | | | | <small>DRAWN BY :</small> <small>CHECKED BY :</small> <small>DATE :</small> <small>APPROVED BY :</small> | |



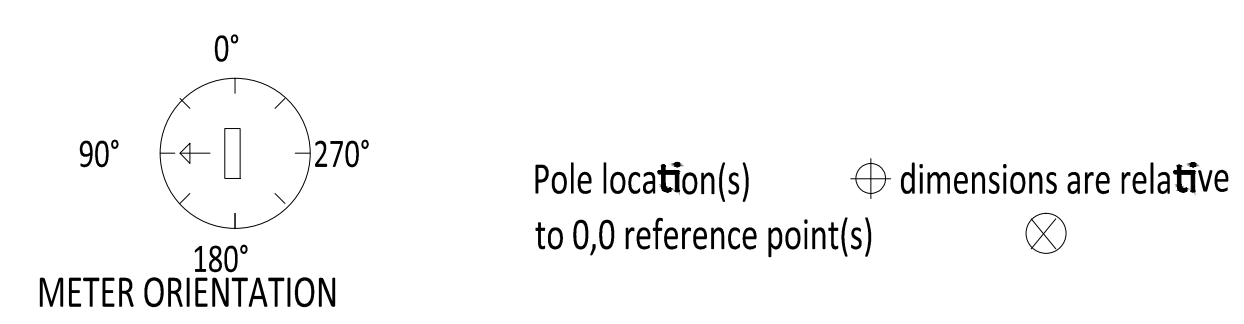
| EQUIPMENT LIST FOR AREAS SHOWN | | | | | | | | |
|--------------------------------|---|------|-----------------|-----------------|----------------|------------|-----------|-------------|
| Pole | | | | Luminaires | | | | |
| QTY | LOCATION | SIZE | GRADE ELEVATION | MOUNTING HEIGHT | LUMINAIRE TYPE | QTY / POLE | THIS GRID | OTHER GRIDS |
| 36 | A1-A16 A23-A24 A37-A38 A45-A60 | | 18m | 18m | TLC-LED-600 | 2 | 2 | 0 |
| 24 | A17-A22 A25-A36 A39-A44 | | 18m | 18m | TLC-LED-600 | 1 | 1 | 0 |
| 60 | TOTALS | | | | | 96 | 96 | 0 |

| GRID SUMMARY | |
|--------------|--------------------------|
| Name: | 02 Basketball - Vertical |
| Size: | 28.0m x 15.0m |
| Spacing: | 2.0m x 2.0m |
| Height: | 1.5m above grade |

| ILLUMINATION SUMMARY | | | |
|---|----------------|---------|---------|
| MAINTAINED VERTICAL LUX: 15° Tilt | | | |
| Entire Grid | | | |
| Scan Average: | 4798.36 | | |
| Maximum: | 5521.02 | | |
| Minimum: | 4008.92 | | |
| Min / Avg: | 0.84 | | |
| Min / Max: | 0.73 | | |
| UG (adjacent pts): | 1.12 | | |
| CU: | 0.36 | | |
| No. of Points: | 120 | | |
| LUMINAIRE INFORMATION | | | |
| Color / CRI: | 5700K - 75 CRI | | |
| Luminaire Output: | 65,600 lumens | | |
| No. of Luminaires: | 96 | | |
| Total Load: | 55.68 kW | | |
| Lumen Maintenance | | | |
| Luminaire Type | L90 hrs | L80 hrs | L70 hrs |
| TLC-LED-600 | >81,000 | >81,000 | >81,000 |
| Reported per TM-21-11. See luminaire datasheet for details. | | | |

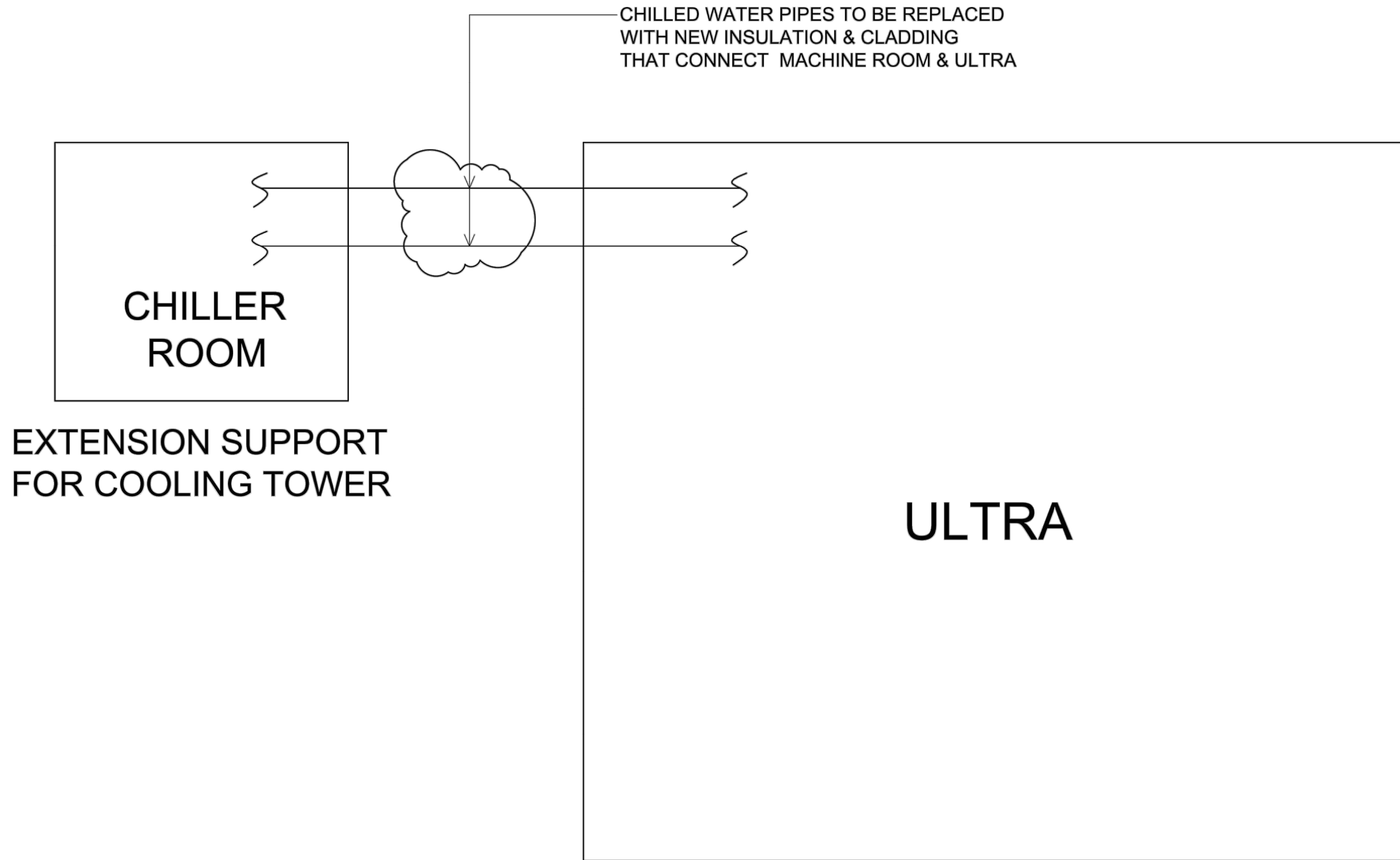
ILLUMINATION SUMMARY


SCALE 1:100 MTS.



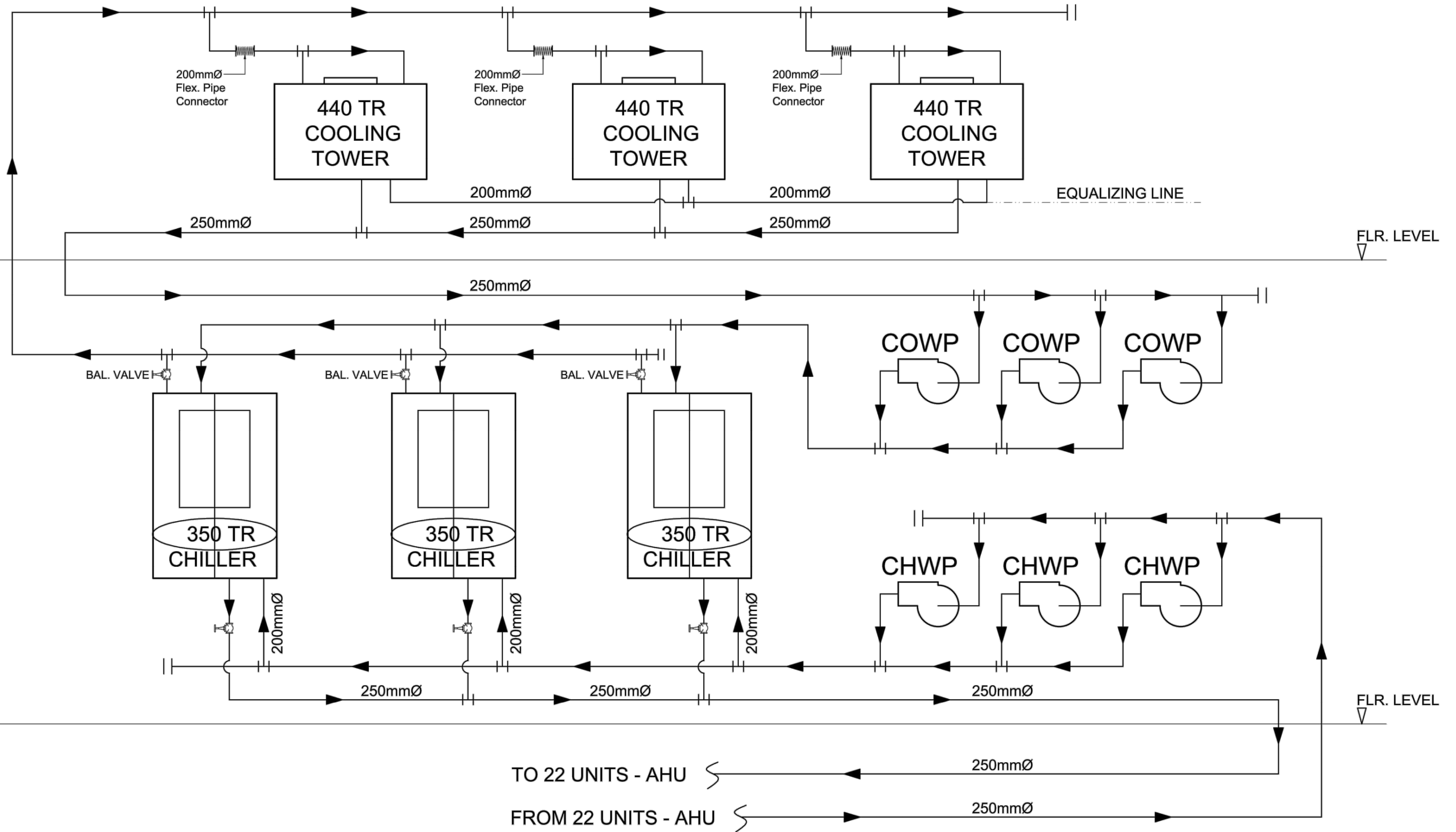
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| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| | | | | | | CHECKED BY : | |
| | | | | | | DATE : | |
| | | | | | | APPROVED BY : | |


ULTRA & MACHINE ROOM PIPE CONNECTION



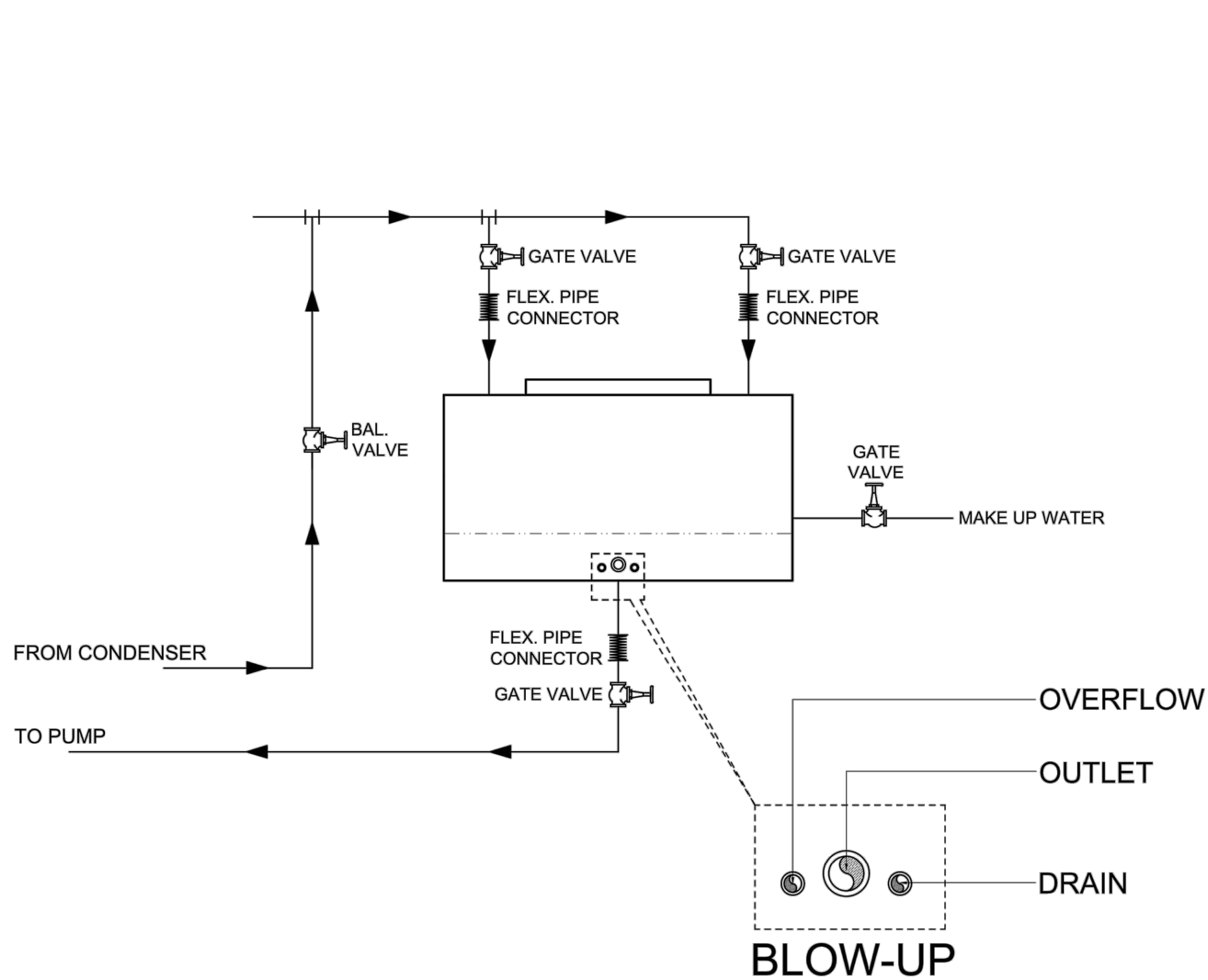
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| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| | | | | | | <small>DRAWN BY :</small> <small>CHECKED BY :</small> <small>DATE :</small> <small>APPROVED BY :</small> | |

A/C SYSTEM SCHEMATIC DIAGRAM

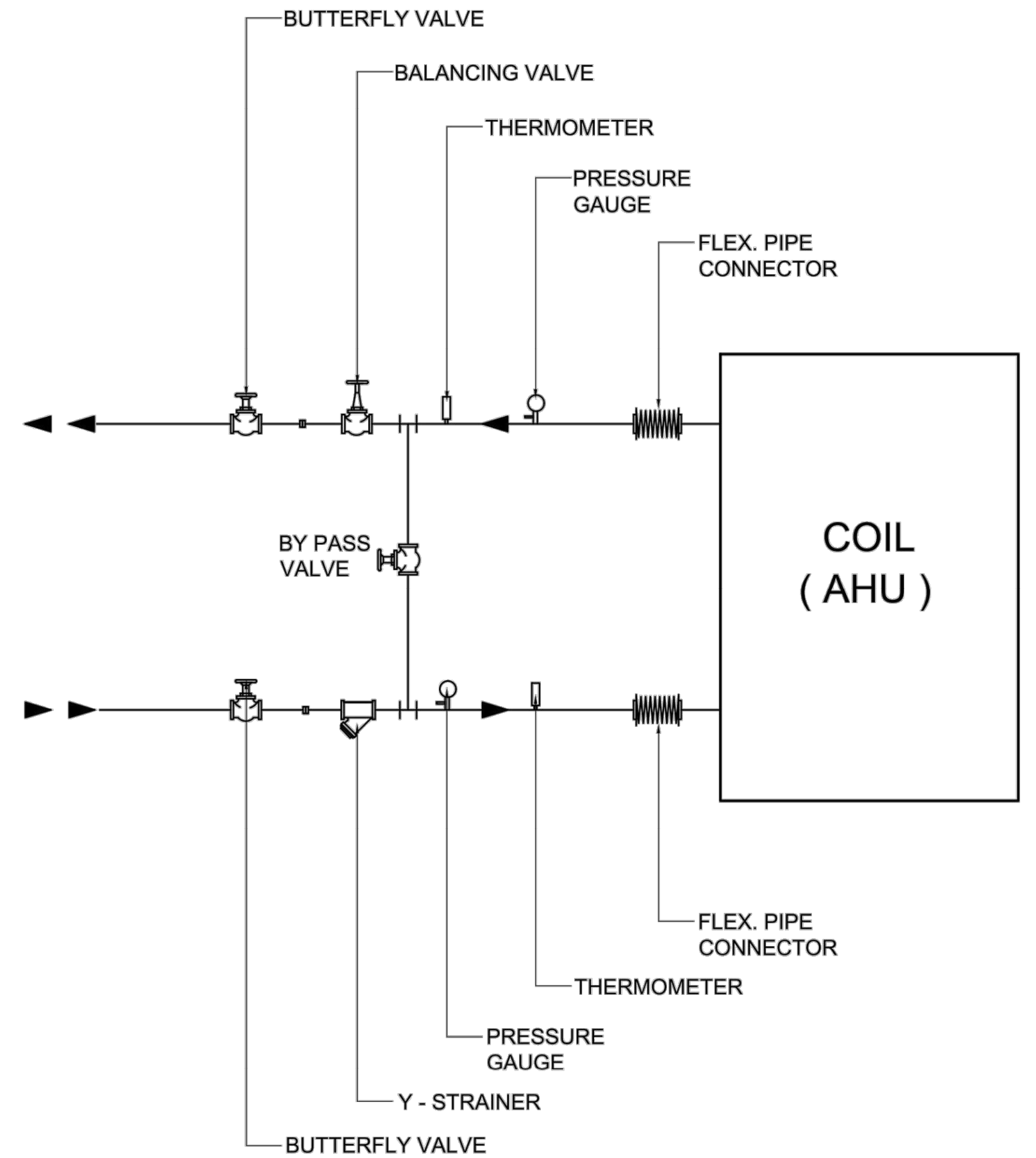



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| | | | | | | | |

COOLING TOWER VALVES HOOK-UP

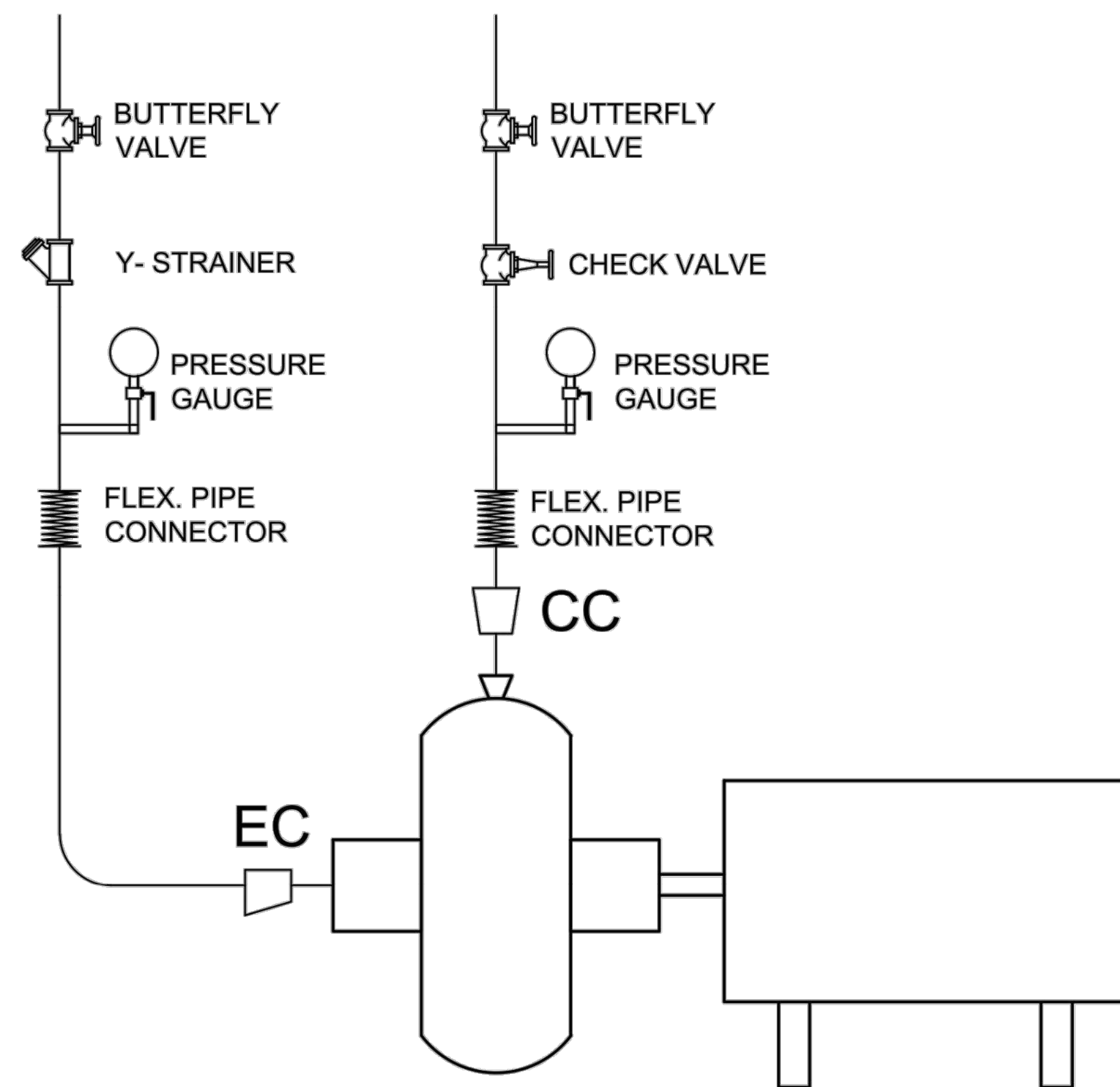


AIR HANDLING UNIT

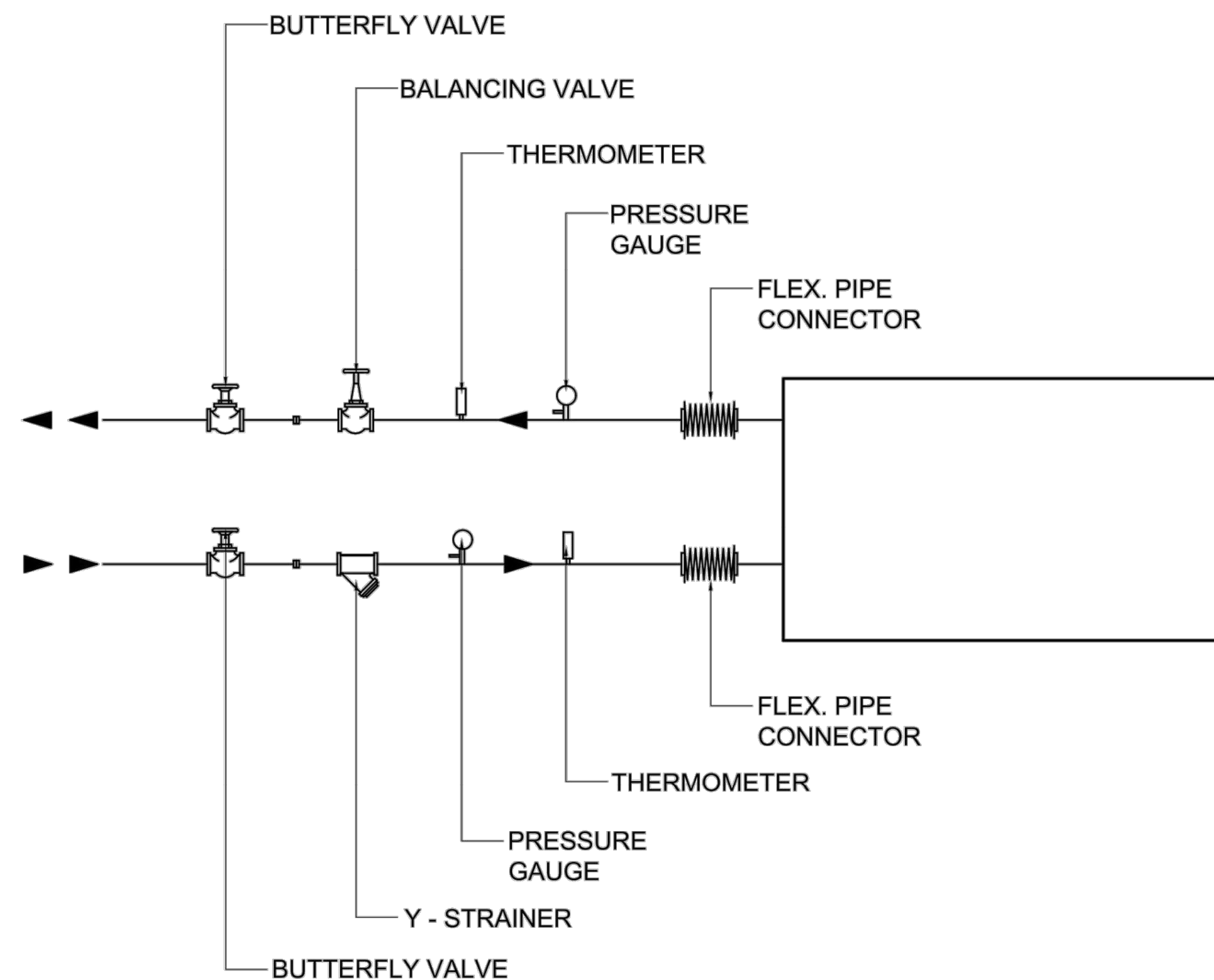


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| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| | | | | | | | |

PUMPS CHILLED WATER & CONDENSER WATER VALVES INSTRUMENTATION HOOK-UP

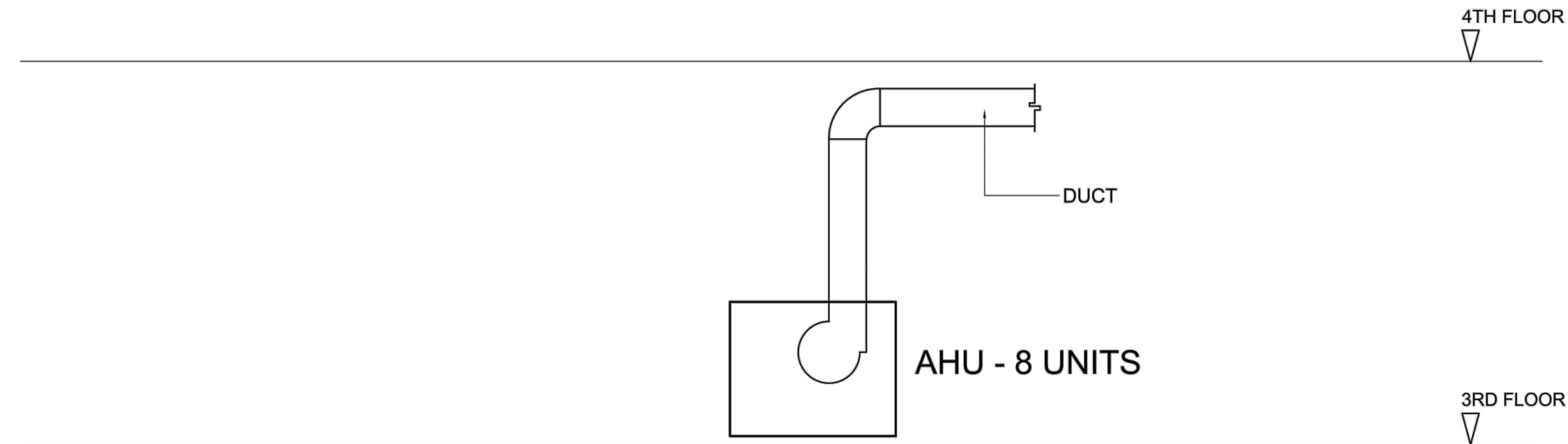
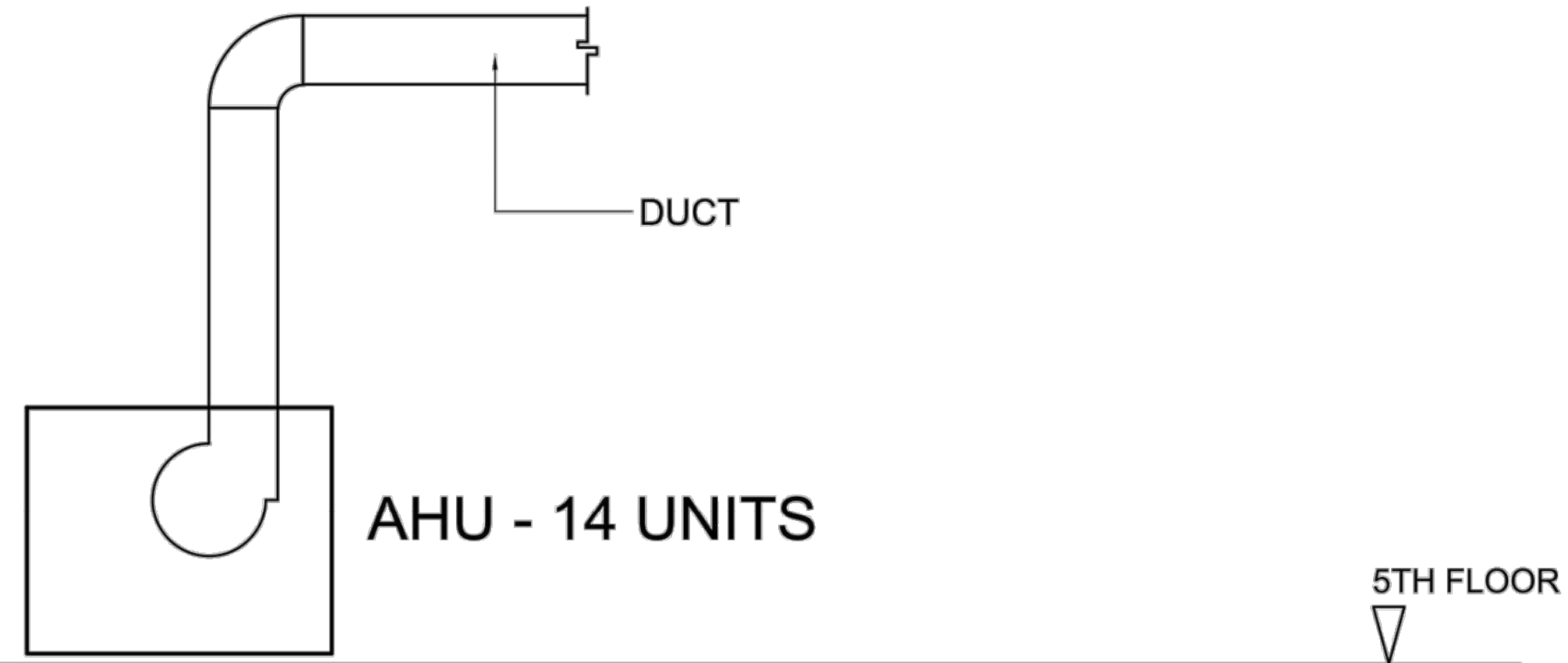


CONDENSER EVAPORATOR VALVES INSTRUMENTATION HOOK-UP




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|--|--|---|--|--|------------------|---|------------|
| OWNER | PROJECT TITLE : | SUBMITTED BY : | RECOMMENDING APPROVAL : | APPROVED BY : | SHEET CONTENTS : | DESIGN BY : | SHEET NO : |
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| | | | | | | DRAWN BY : CHECKED BY : DATE : APPROVED BY : | |

LOCATION OF AHU - 22 UNITS



SCOPE OF WORKS:

- 1.0 REPLACEMENT OF NEW CHW PIPE CONNECTIONS.
- 2.0 REPLACEMENT OF 22 AHU UNITS, VALVES & ACCESSORIES.
- 3.0 RE INSULATION OF CHW LINES.
- 4.0 REPAIR OF DEFECTIVE A/C & DUCTWORKS.
- 5.0 RE INSULATION OF ALL A/C DUCTWORKS.

| | | | | | | | |
|--|--|--|---|---|------------------|---|---|
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