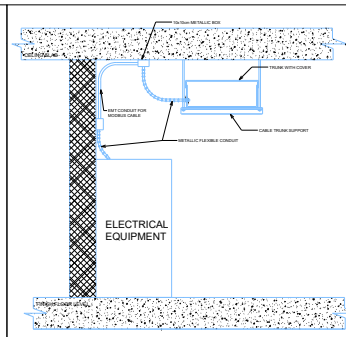
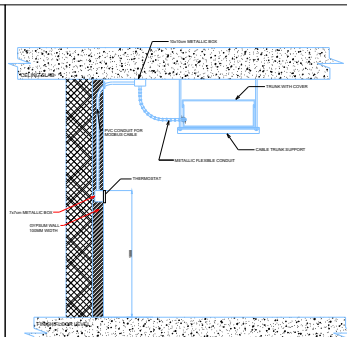


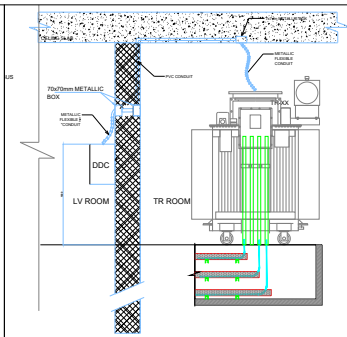
1 EMS TO BMS INSTALLATION DETAIL



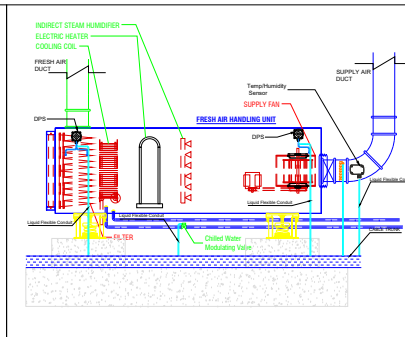
2 BUILDING MANAGEMENT SYSTEM MODUS & PHYSICAL POINTS CONNECTION TO ELECTRICAL EQUIPMENT



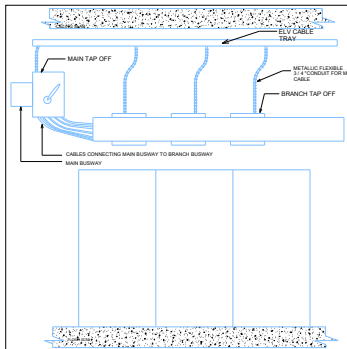
3 THERMOSTAT INSTALLATION DETAIL



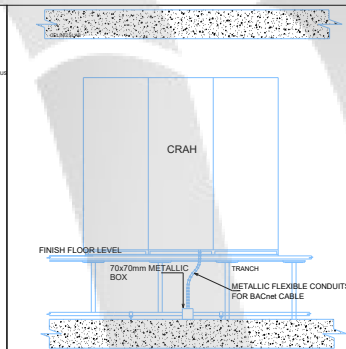
4 TRANSFORMER CONNECTION TO BMS INSTALLATION DETAIL



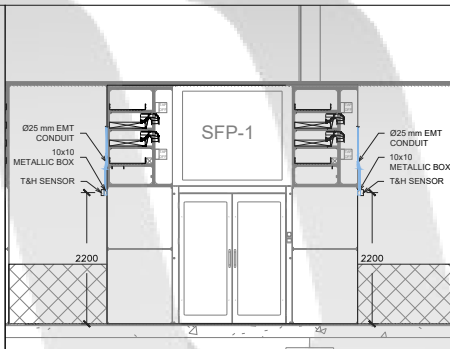
5 FAHUs INSTRUMENTS CONNECTION TO BMS INSTALLATION DETAIL



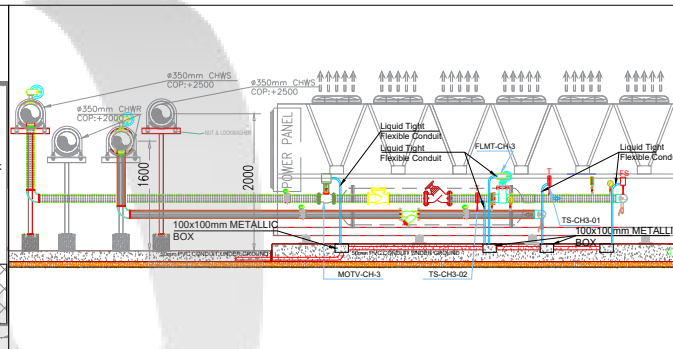
6 BMS CONNECTION TO BUSWAY TAP-OFF INSTALLATION DETAIL



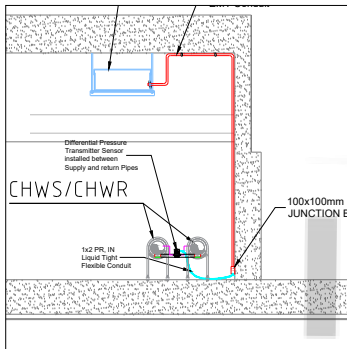
7 CRAH UNIT TO BMS INSTALLATION DETAIL



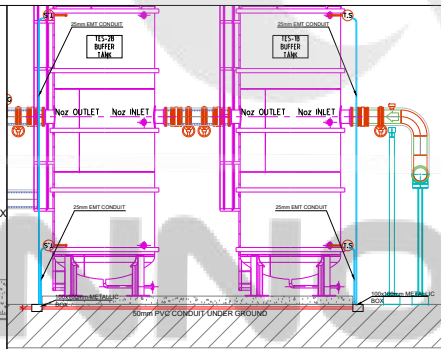
8 T/RH SENSORS INSTALLATION DETAIL



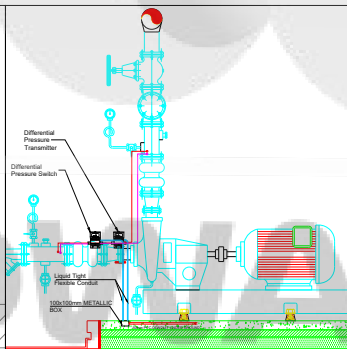
9 CHILLED WATER INSTRUMENTS INSTALLATION DETAIL



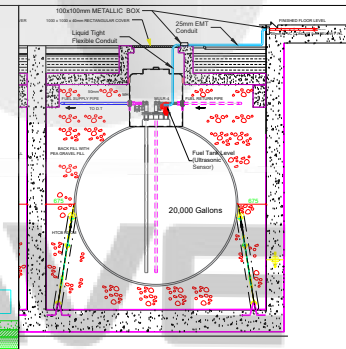
10 DPT SENSOR INSTALLATION DETAIL



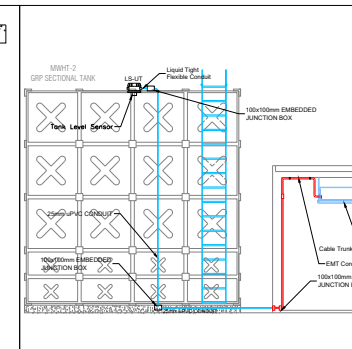
11 BUFFER TANKS TEMP. SENSORS INSTALLATION DETAIL



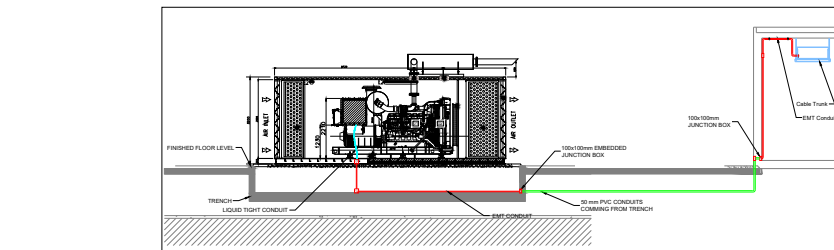
12 SCHWP DPT & DPS INSTALLATION DETAIL



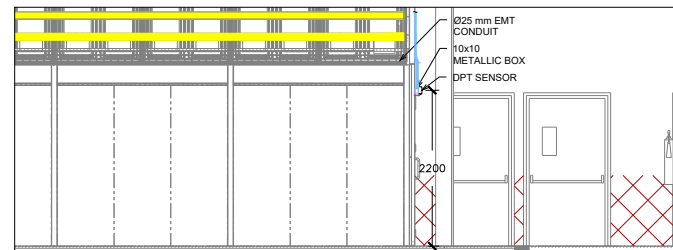
13 FUEL TANK LEVEL SENSOR INSTALLATION DETAIL



14 WATER TANK LEVEL SENSOR INSTALLATION DETAIL



15 GENERATOR BMS INSTALLATION DETAIL



16 DPT SENSOR BMS INSTALLATION DETAIL

SHOP DRAWING

- A-APPROVED
- B-APPROVED WITH COMMENTS
- C-CORRECT & RESUBMIT
- D-REJECTED

CHECKED BY: _____ DATE: _____

Rev.	Description of change	Date	Drawn	Approv.

PROJECT TITLE: _____

CLIENT: _____

CONTRACTOR: _____

CONTRACTOR NAME & LOGO HERE

COMPANY: _____

INNOVATION WAVE FOR ENGINEERING SERVICES

INNOVATION WAVE
Innovation Wave For Engineering Services

ISSUING STATUS: _____

SHOP DRAWING

DRAWING TITLE: _____

BMS Installation Details

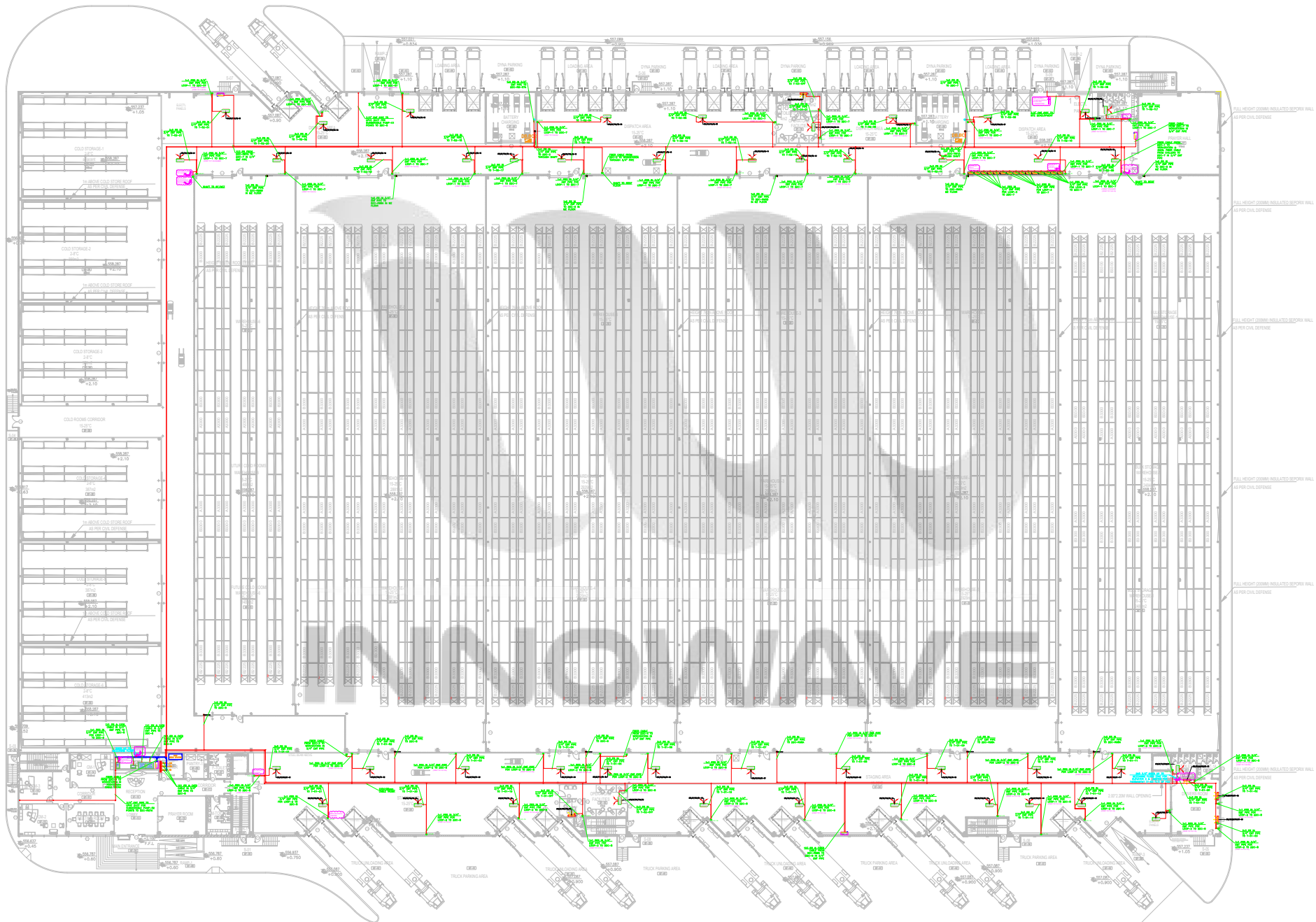
DESIGNED BY: _____

PREPARED BY: _____

CHECKED BY: _____

SCALE: _____

PROJECT NO: _____



Legend:

SYMBOL	DESCRIPTION
[Red Square]	DIRECT DIGITAL CONTROL
[Green Square]	THERMOSTAT
[Blue Square]	HUMIDITY SENSOR
[Red Square]	ROOM TEMPERATURE AND HUMIDITY SENSOR (RH/TS)
[Red Square]	15110 STEEL PALL BOX, WITH COVER
[Red Line]	LIQUID TIGHT FLEXIBLE PIPE
[Red Line]	3/4" EMT PIPE
[Blue Line]	Cable Tray
[Red Line]	PVC PIPE
[Green Line]	SWIFT FOR BMS CABLES

- Cable Types:**
- Control Cables:
 - FR: Shielded Twisted Cable (1 Pair, 2 Pairs, 3 Pairs).
 - Communication Cables:
 - FRS: RS485 Shielded Twisted Cable (1 Pair).
 - CAT6 Cable.
 - Fiber Cable.

CONTRACTOR			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			

CONSULTANT			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			

KEY PLAN:

REVISION	DESCRIPTION	DATE
REV 1		

ENGINEERS REVIEW COMMENTS		ACTION
APPROVED:		A
DESIGNED:		D
CHECKED:		C
DATE:		D

ENGINEER		DATE:
ARCH	MECHANICAL	DATE:

PROJECT TITLE:

CLIENT:

Client Name & Logo Here

CONTRACTOR:

Contractor Name & Logo Here

Company:

Innovation Wave For Engineering Services

DRAWING STATUS:

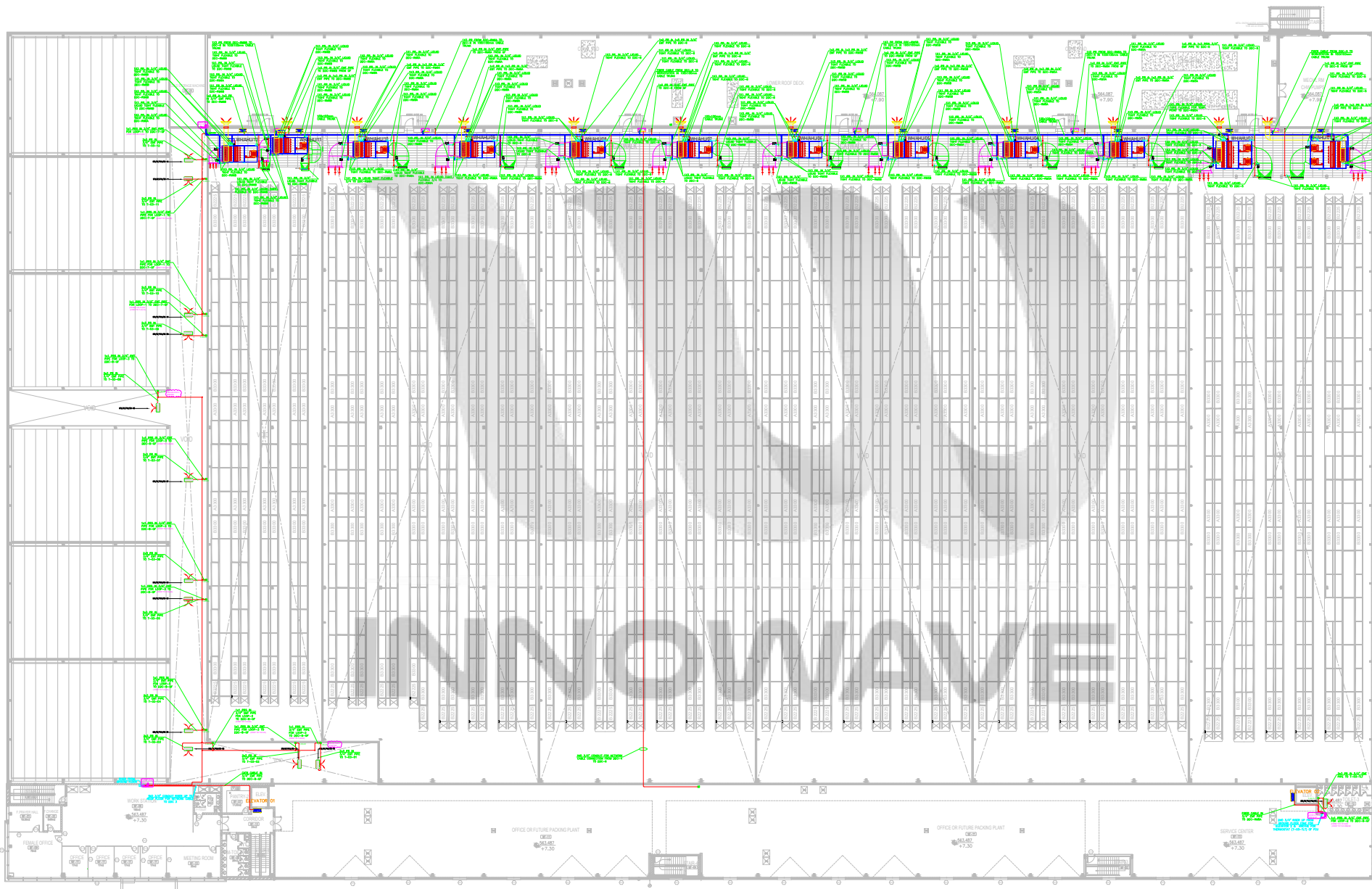
SHOP DRAWING

DRAWING TITLE:

BMS SYSTEM LAYOUT GROUND FLOOR

DRAWN BY:	APPROVED BY:	CHECKED BY:
A.K.	REF. DRAWING NO.	DATE

PROJECT NO.	DRAWING NO.	SHEET NO.	REV. NO.
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Legend:

SYMBOL	DESCRIPTION
[Pink square]	DIRECT DIGITAL CONTROL
[Green square]	THERMOSIST
[Blue square]	HUMIDITY SENSOR
[Red square]	ROOM TEMPERATURE AND HUMIDITY SENSOR (RH/TS)
[Red square]	15010 STEEL PALL BOX, WITH COVER
[Blue line]	LIQUID TIGHT FLEXIBLE PIPE
[Red line]	3/4" IMT PIPE
[Blue line]	Cable Tray
[Green line]	PVC PIPE
[Green square]	SWHT FOR BMS CABLES

- Cable Types:**
- Control Cables:
 - FR: Shielded Twisted Cable (1 Pair, 2 Pairs, 3 Pairs).
 - Communication Cables:
 - FRS: 6245 Shielded Twisted Cable (1 Pair).
 - CAT6 Cable.
 - Fiber Cable.

CONTRACTOR			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			
CONSULTANT			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			

KEY PLAN:

REV #	DESCRIPTION	DATE

ENGINEERS REVIEW COMMENTS

APPROVED:	DATE:	ACTION:

ENGINEER: _____ DATE: _____

ARCH	STRUCT	MCH/E	TECH	EL/E	PL/CL	LAND

PROJECT TITLE:

CLIENT: [Client Name & Logo Here](#)

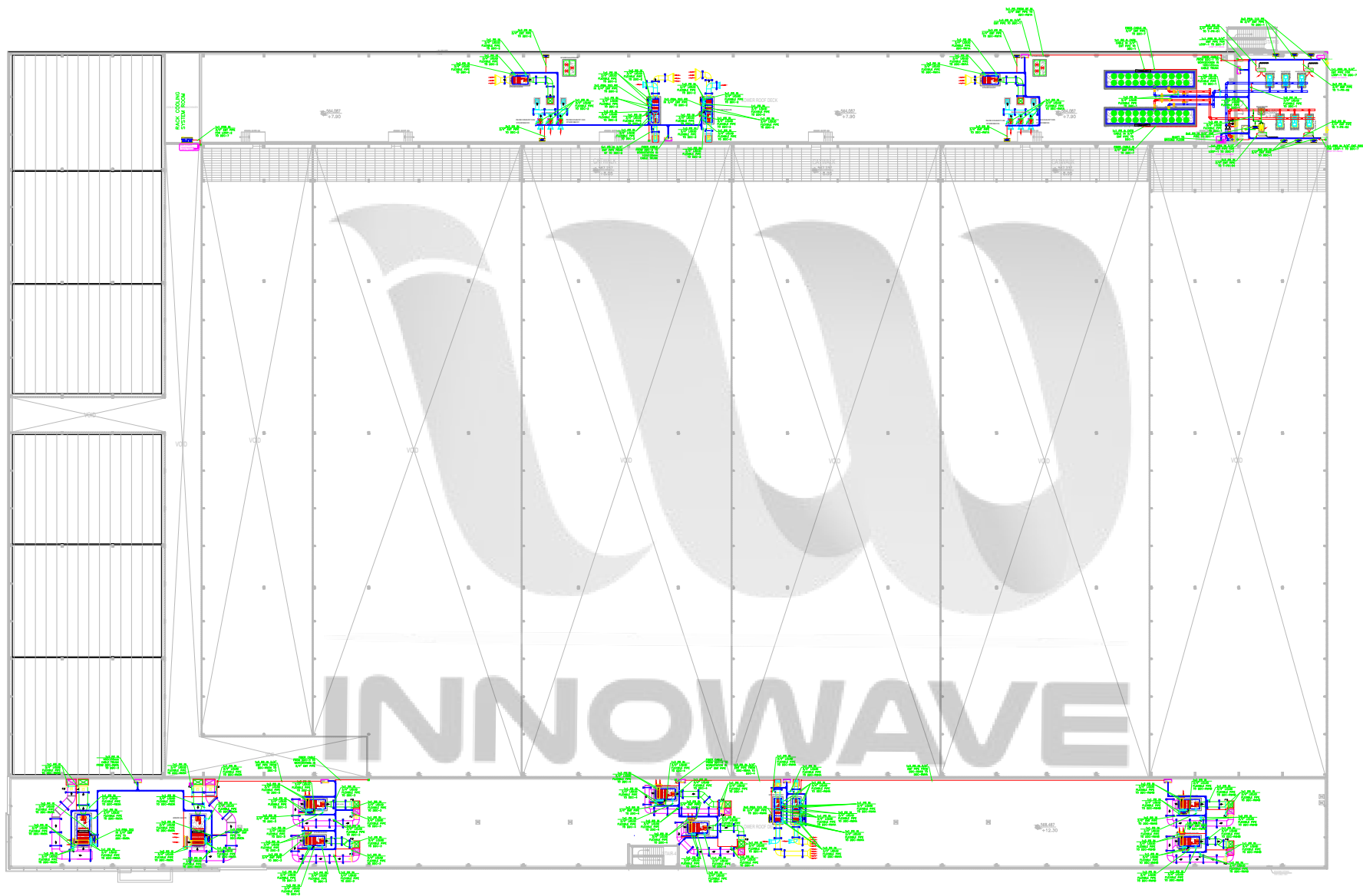
CONTRACTOR: [Contractor Name & Logo Here](#)

Company: **Innovation Wave For Engineering Services**

DRAWING STATUS: **SHOP DRAWING**

DRAWING TITLE: **BMS SYSTEM LAYOUT MEZ FLOOR**

DRAWN BY:	APPROVED BY:	REVIEWED BY:
A.K.	REF. DRAWINGS	A.A.
SCALE:		DATE:
PROJECT NO:	DRAWING NO:	SHEET NO: REV: NO:



Legend:

SIGNAL	DESCRIPTION
[Symbol]	DIRECT DIGITAL CONTROL
[Symbol]	THERMOSTAT
[Symbol]	HUMIDITY SENSOR
[Symbol]	ROOM TEMPERATURE AND HUMIDITY SENSOR (RH/SD)
[Symbol]	15110 STEEL PAIL BOX, WITH COVER
[Symbol]	LIQUID TIGHT FLEXIBLE PIPE
[Symbol]	3/4" EXT. PIPE
[Symbol]	Cable Tray
[Symbol]	PVC PIPE
[Symbol]	SWMT FOR BMS CABLES

- Cable Types:**
- Control Cables:
 - PR: Shielded Twisted Cable (1 Pair, 2 Pairs, 3 Pairs).
 - Communication Cables:
 - PRC: IS485 Shielded Twisted Cable (1 Pair).
 - CAT6 Cable.
 - Fiber Cable.

CONTRACTOR			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			

CONSULTANT			
ITEM	ARCH ENG	P.M.	STAMP
NAME			
SIGNATURE			
DATE			

KEY PLAN:

REV #	DESCRIPTION	DATE

ENGINEERS REVIEW COMMENTS		ACTION
APPROVED:		A
REVISIONS:		B
REVISION DATE:		C
REVISION:		D

ENGINEER		DATE:
ARCH	MECH/ELECTR	
	MECH/ELECTR	
	MECH/ELECTR	
	MECH/ELECTR	

PROJECT TITLE:

CLIENT:

Client Name & Logo Here

CONTRACTOR:

Contractor Name & Logo Here

Company:

Innovation Wave For Engineering Services

DRAWING STATUS:

SHOP DRAWING

DRAWING TITLE:

BMS SYSTEM LAYOUT ROOF FLOOR

DRAWN BY:	DESIGNED BY:	CHECKED BY:
A.K.	A.A.	
REF: 00000000	DATE:	

PROJECT NO.	DRAWING NO.	SHEET NO.	REV. NO.