



Toase-e Park Sanati Gohar Ofogh
Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Local Panel and Junction Box Wiring Diagrams

Document No.: EI027-HSE-VD – IN– DIG– 004- R1

Rev. R1

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STYRENE PARK OFFSITE

Document Title:

Local Panel and Junction Box Wiring Diagrams

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	20-07-2025	FI	F.SH	M.O	A.M
R0	11-09-2024	IFA	F.SH	M.O	A.M



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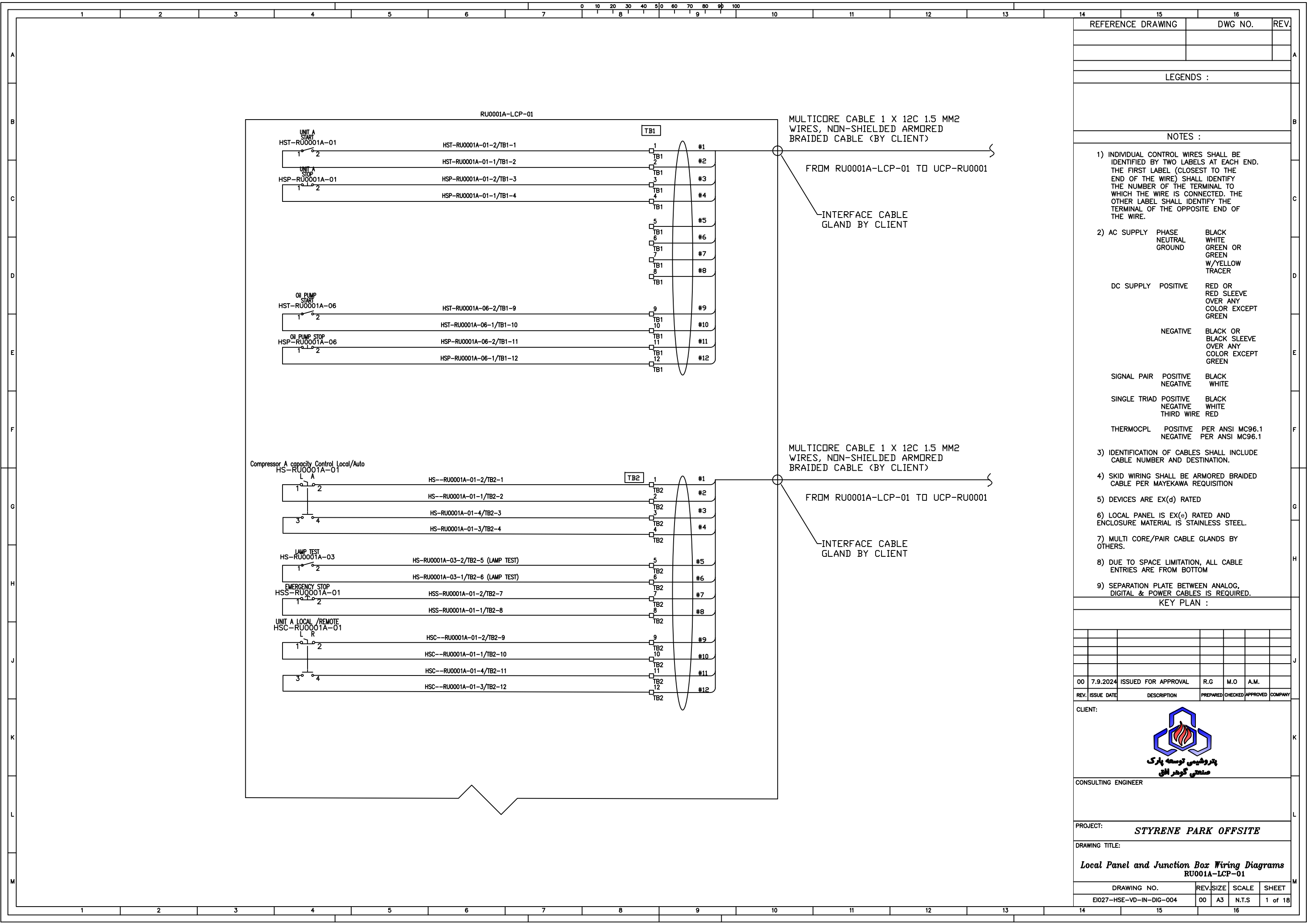
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Rev. R1

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REVISION RECORD SHEET

Page Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
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2	X	X						42							
3	X	X						43							
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REFERENCE DRAWING	DWG NO.	REV.

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 - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
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KEY PLAN :

00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

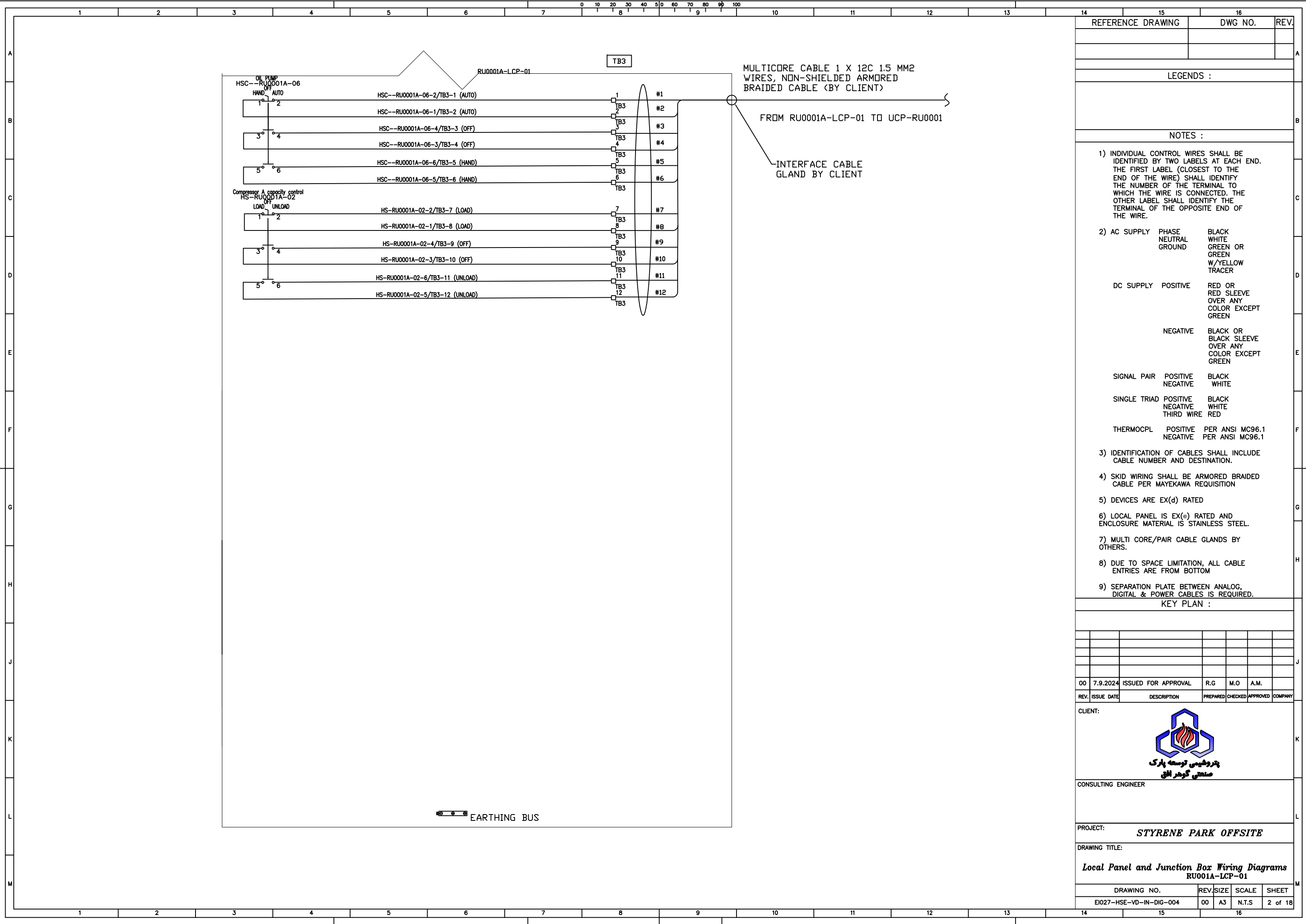



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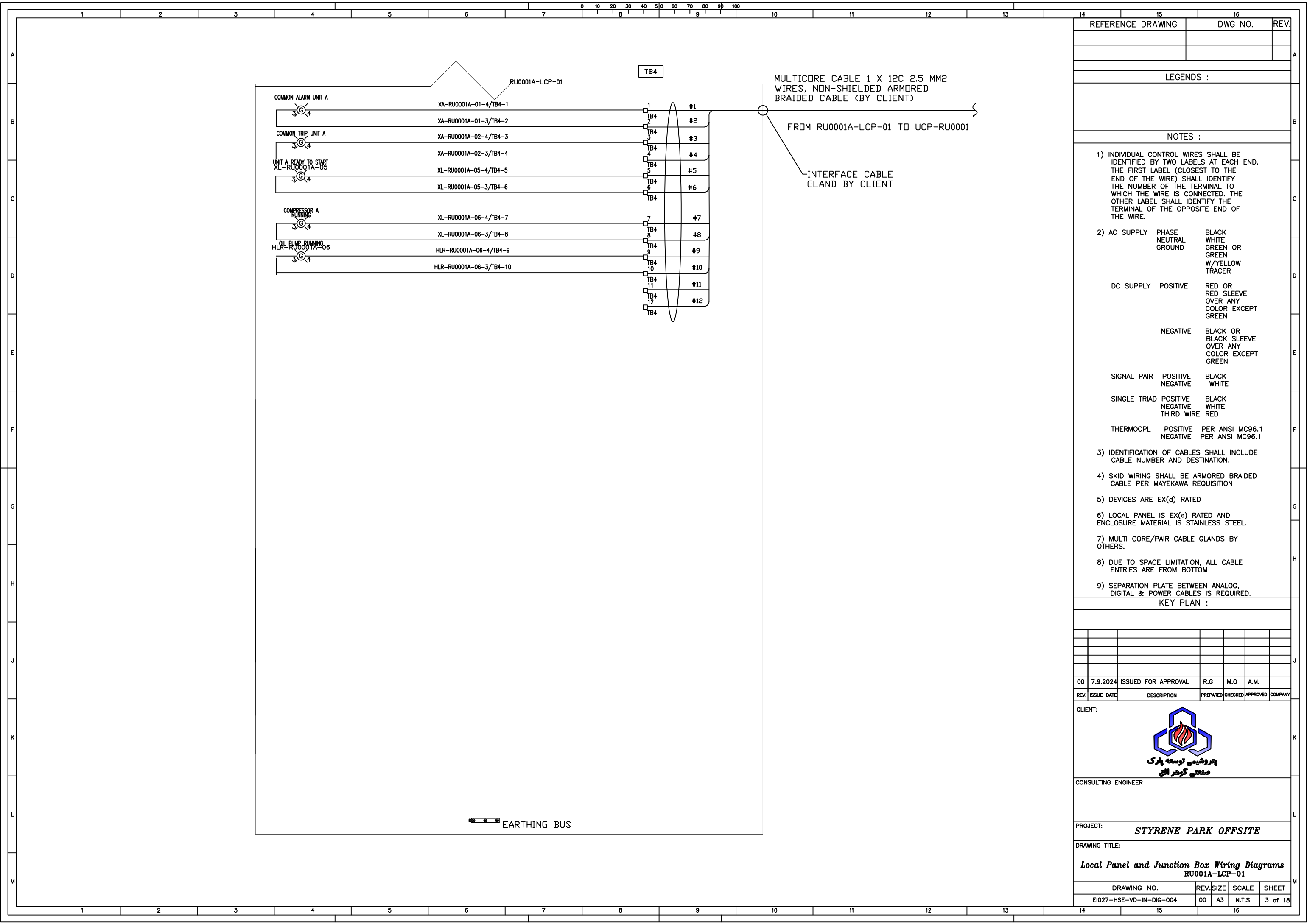
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:
**Local Panel and Junction Box Wiring Diagrams
RU0001A-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	1 of 18



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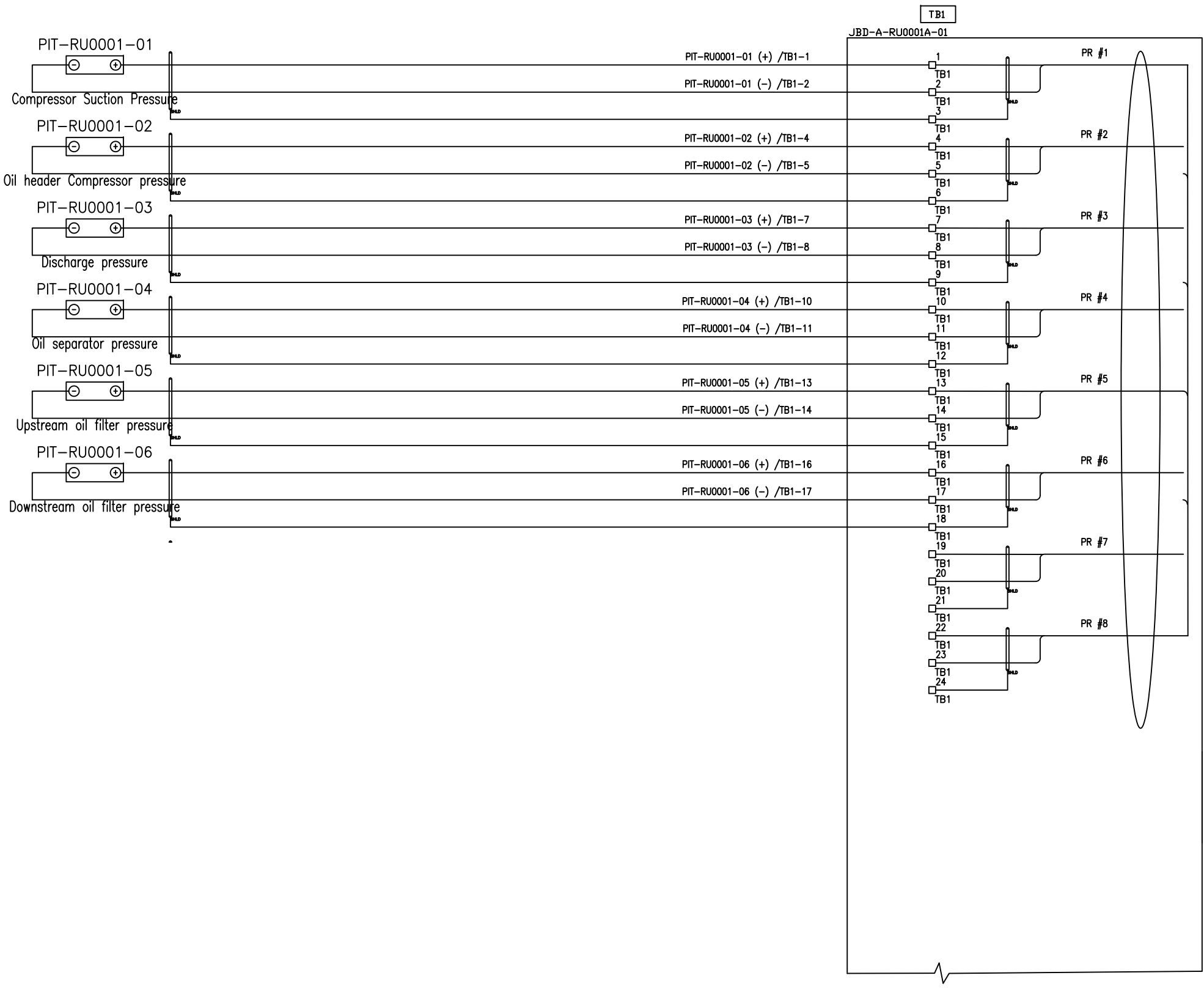


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RU001A-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
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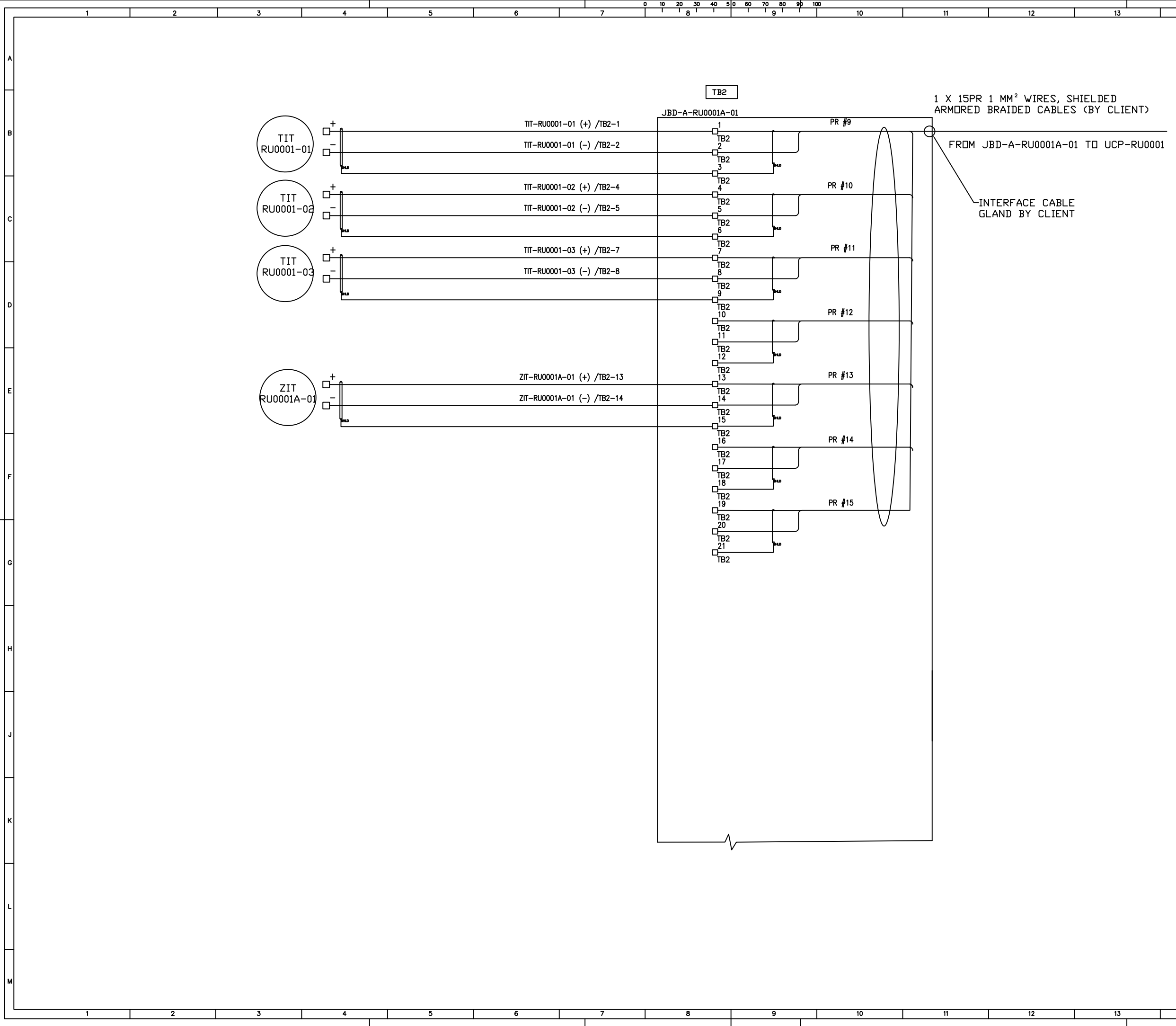
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**
JBD-A-RU0001A-01

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E027-HSE-VD-IN-DIG-004	00	A3	N.T.S	4 of 18



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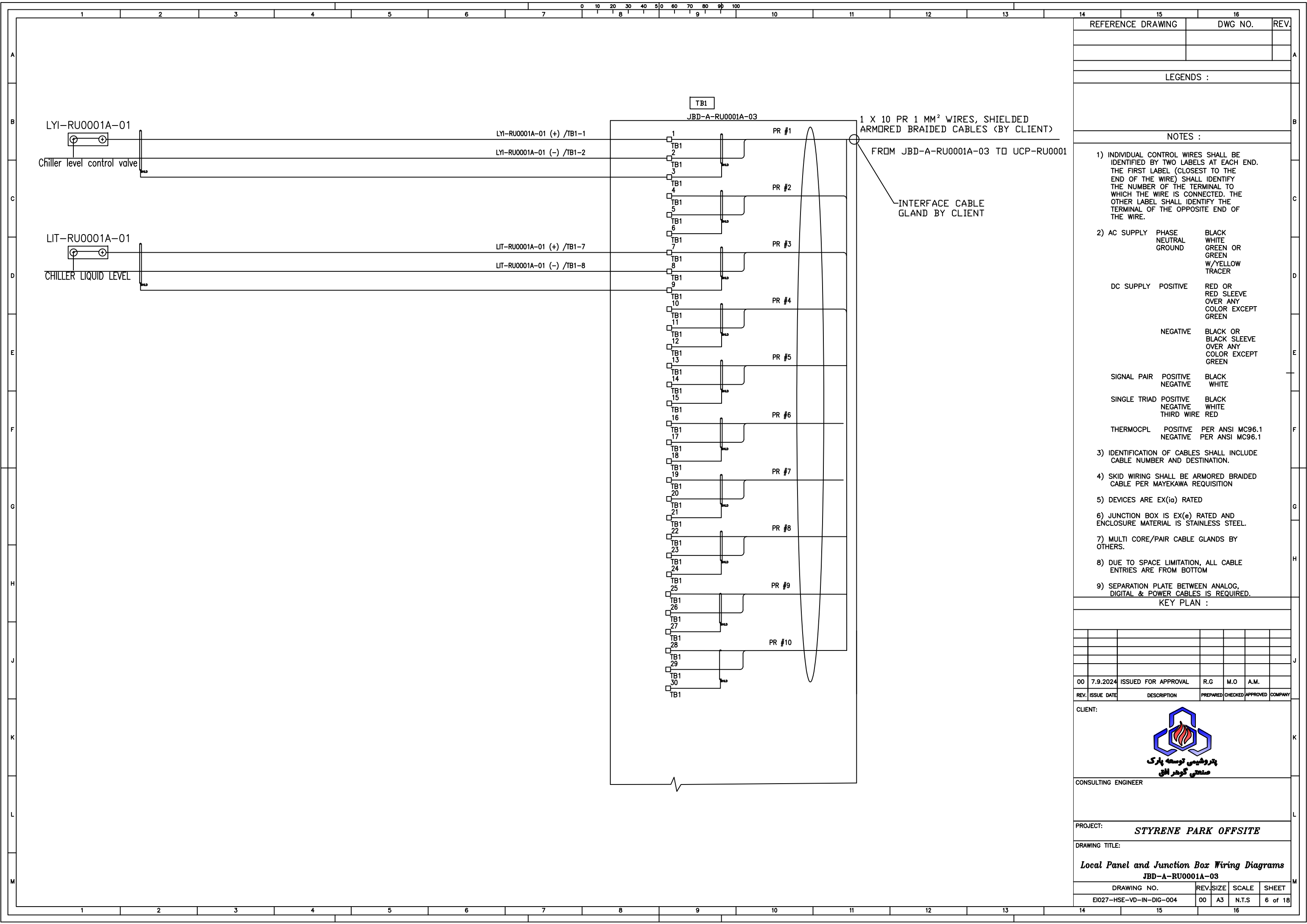


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JBD-A-RU0001A-01**

DRAWING NO.	REV.	SCALE	SHEET
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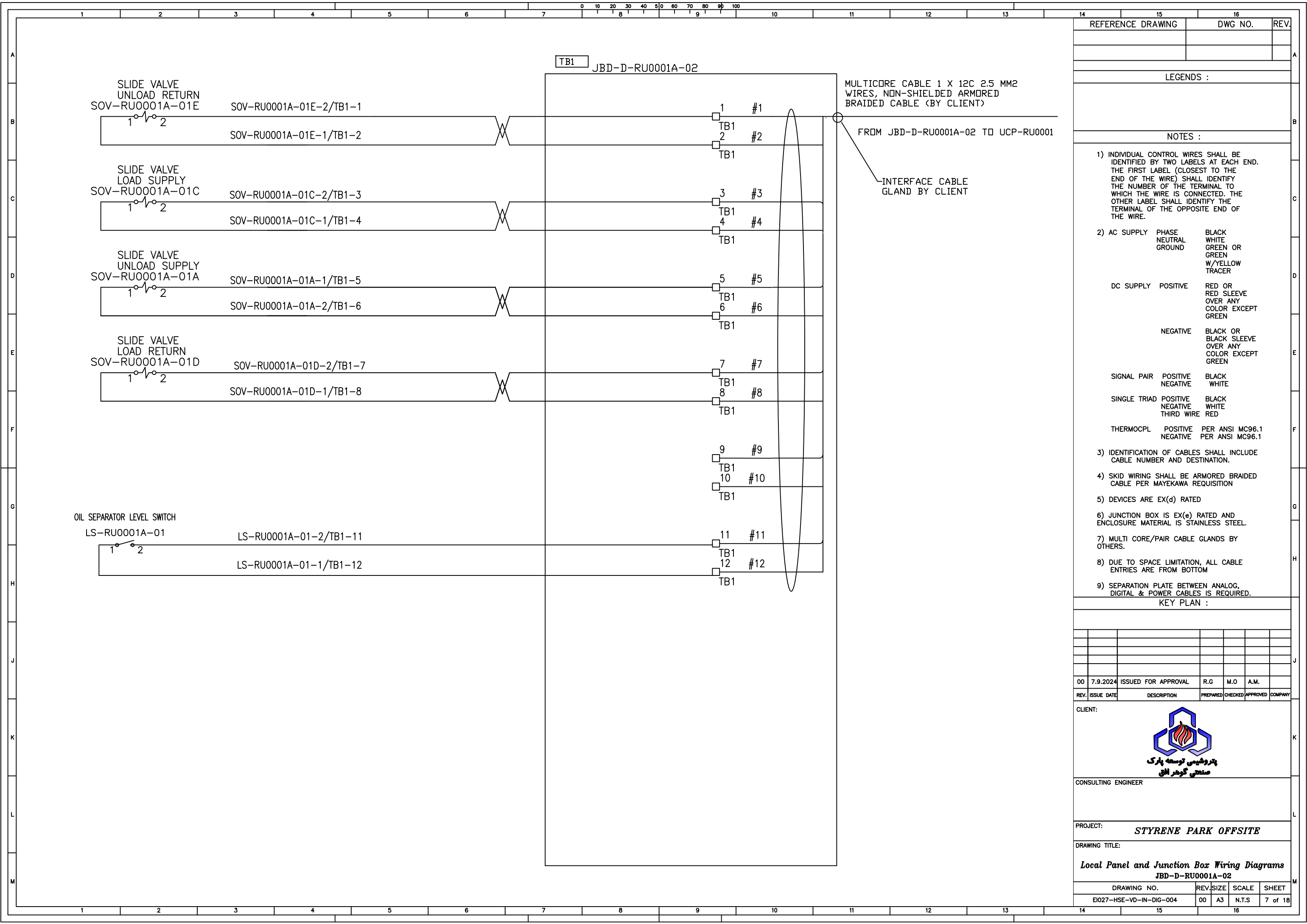
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**
JBD-A-RU0001A-03

DRAWING NO.	REV.	SIZE	SCALE	SHEET
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15	16	REV.
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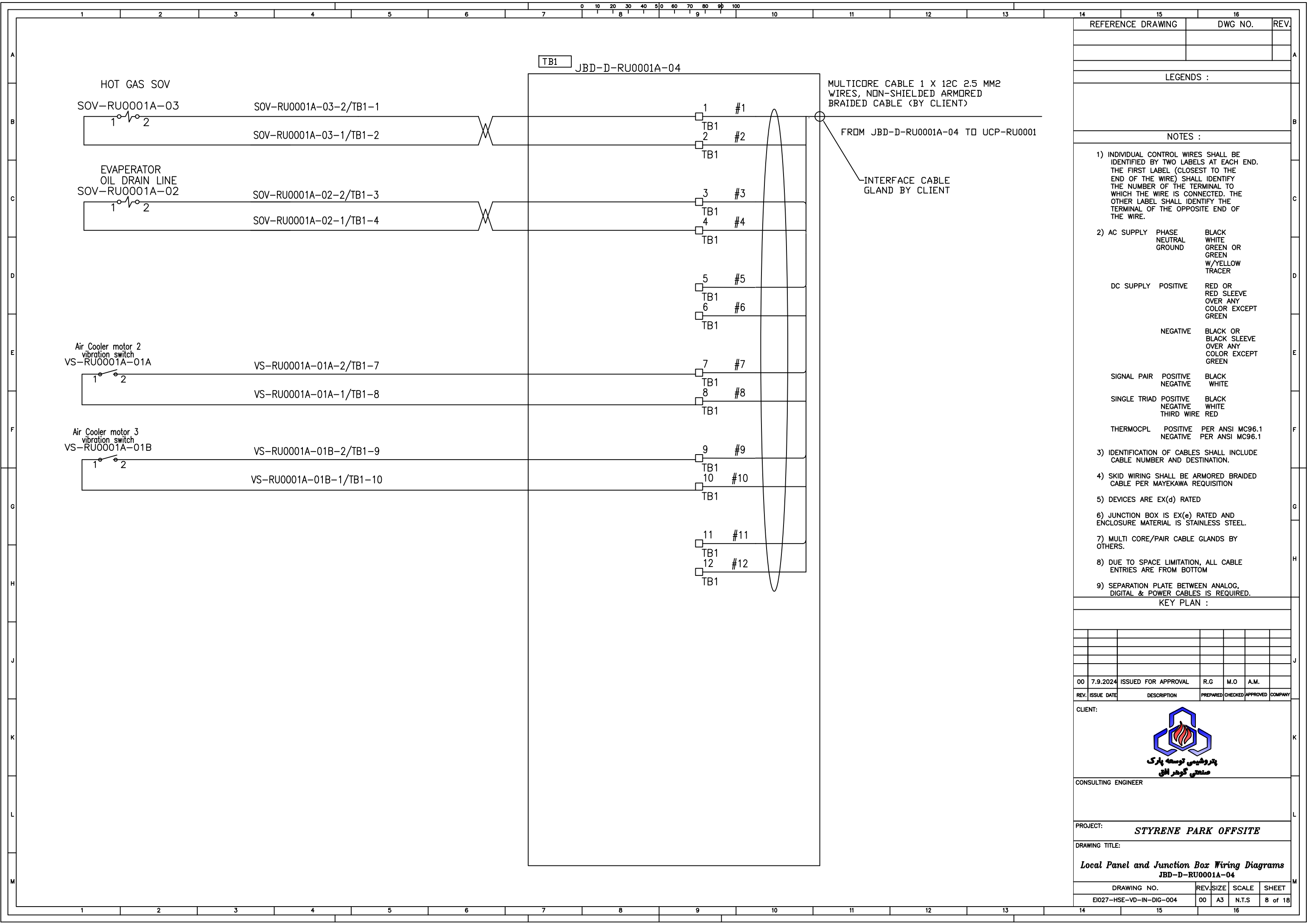


PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:

Local Panel and Junction Box Wiring Diagrams
JBD-D-RU0001A-02

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	7 of 18



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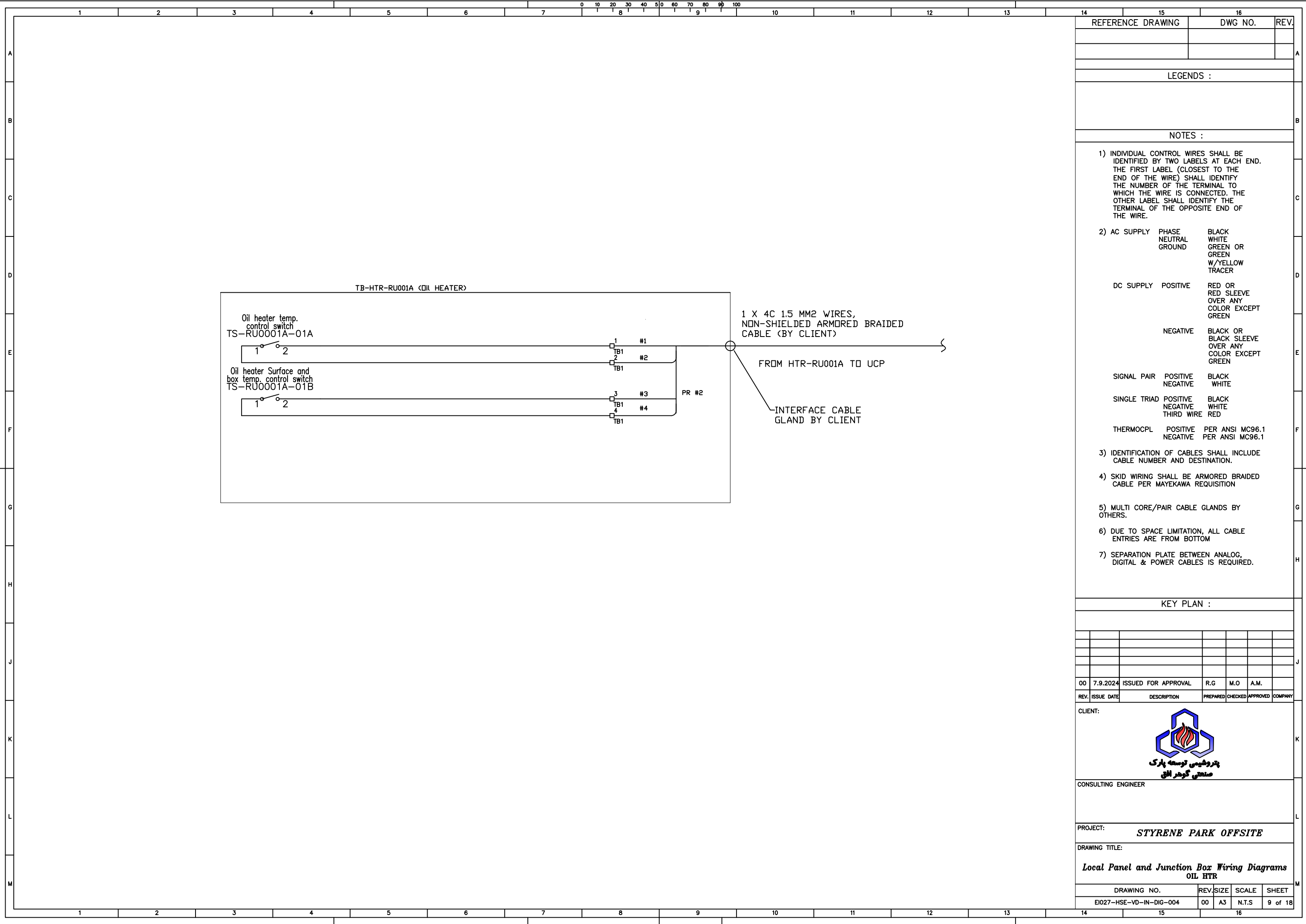
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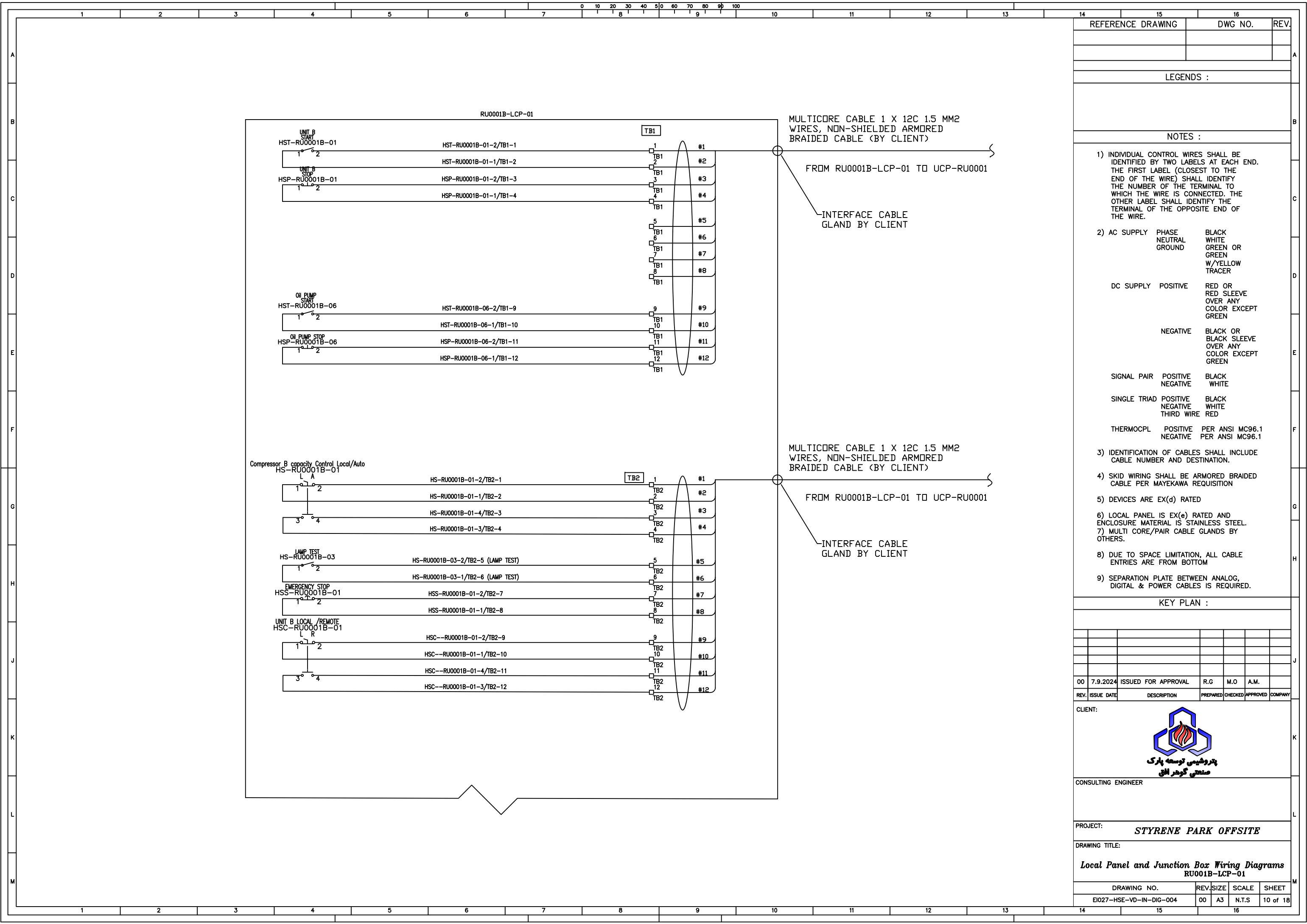
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15	16	REV.														
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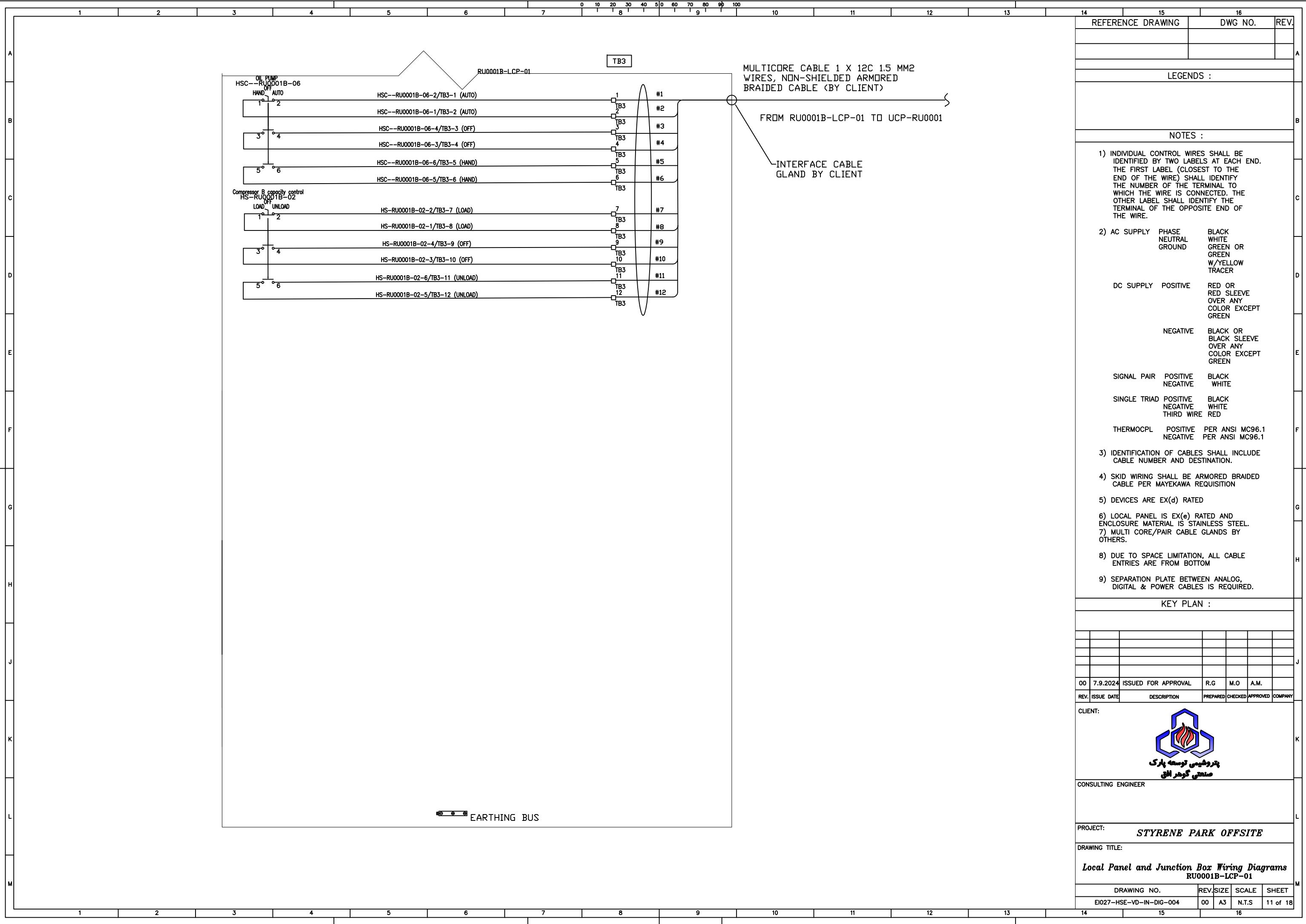
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صنعتی گوهر ابق

CONSULTING ENGINEER

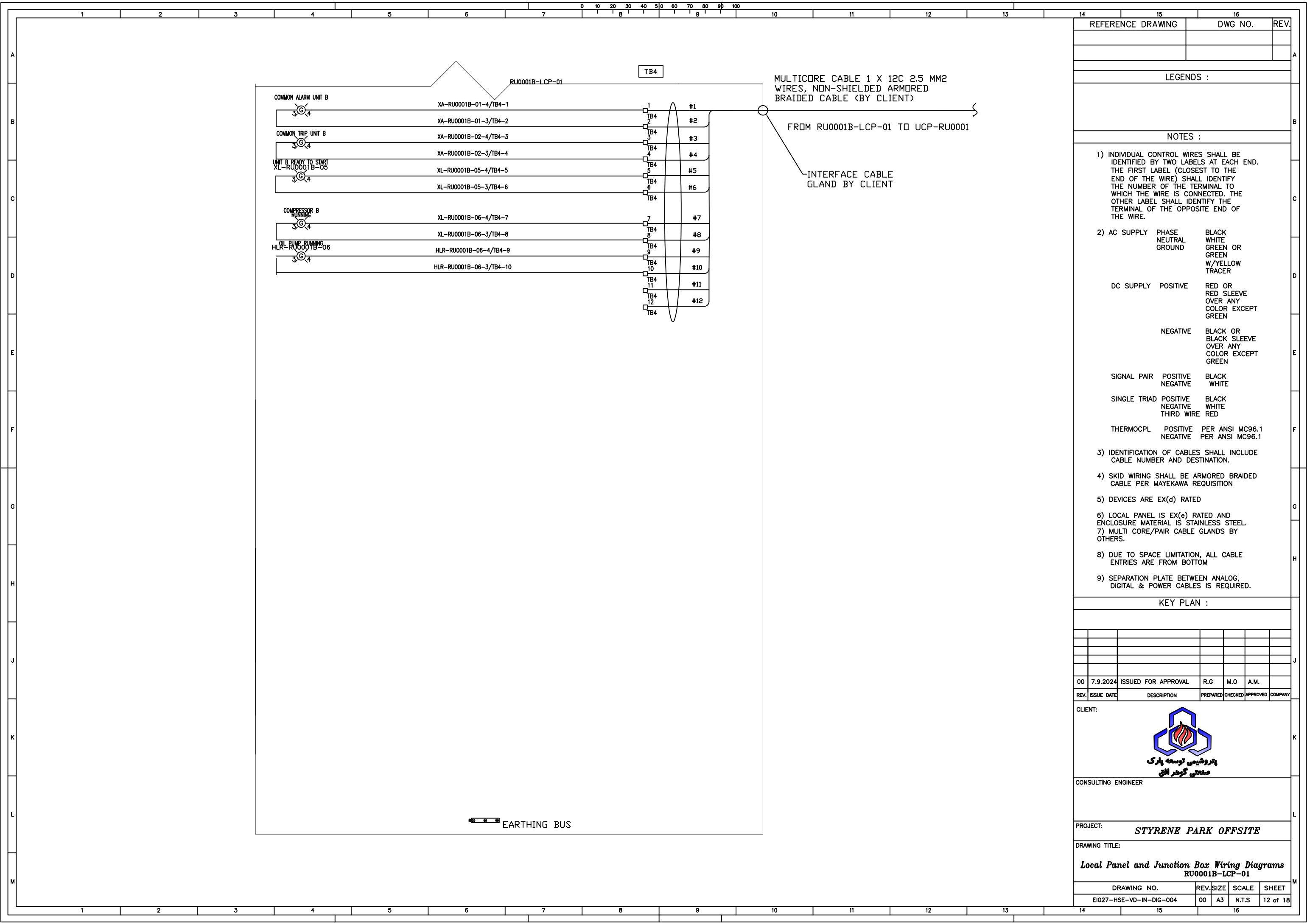
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams RU0001B-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	10 of 18



REFERENCE DRAWING		DWG NO.		REV.																																																																		
LEGENDS :																																																																						
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E027-HSE-YD-IN-DIG-004		00	A3	N.T.S	11 of 18																																																																	



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

- NOTES :
- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
 - AC SUPPLY PHASE
 NEUTRAL
 GROUND
 DC SUPPLY POSITIVE
 NEGATIVE
 SIGNAL PAIR POSITIVE
 NEGATIVE
 SINGLE TRIAD POSITIVE
 NEGATIVE
 THIRD WIRE
 THERMOCP L POSITIVE
 NEGATIVE
 - BLACK
 WHITE
 GREEN OR
 GREEN
 W/YELLOW
 TRACER
 RED OR
 RED SLEEVE
 OVER ANY
 COLOR EXCEPT
 GREEN
 BLACK OR
 BLACK SLEEVE
 OVER ANY
 COLOR EXCEPT
 GREEN
 BLACK
 WHITE
 PER ANSI MC96.1
 PER ANSI MC96.1
 - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
 - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
 - DEVICES ARE EX(d) RATED
 - LOCAL PANEL IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
 - MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
 - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
 - SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

KEY PLAN :

00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

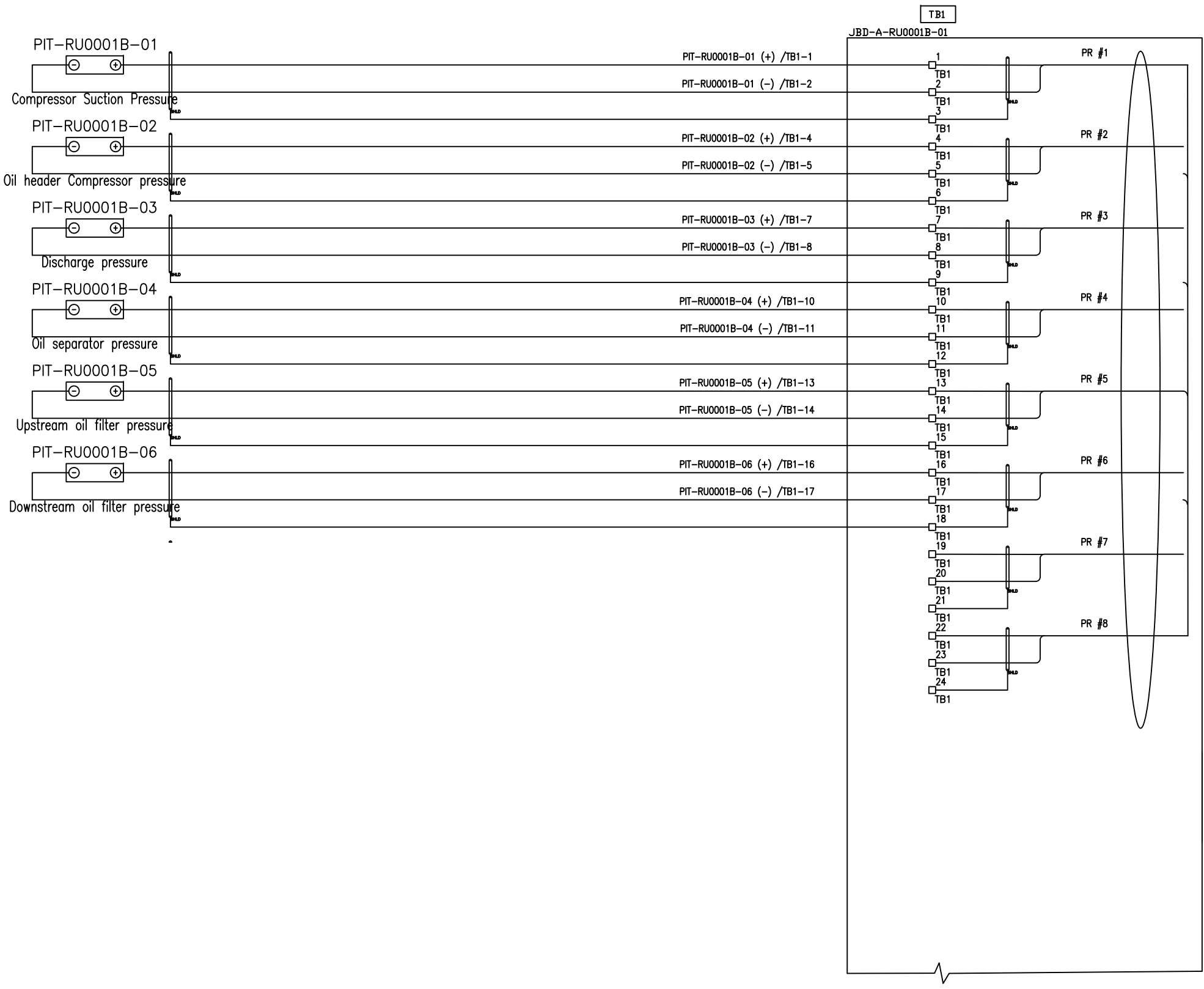


CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:
**Local Panel and Junction Box Wiring Diagrams
 RU0001B-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E027-HSE-VD-IN-DIG-004	00	A3	N.T.S	12 of 18



14	15	16
REFERENCE DRAWING	DWG NO.	REV.

- LEGENDS :
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- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
 - AC SUPPLY PHASE NEUTRAL GROUND BLACK WHITE GREEN OR GREEN W/YELLOW TRACER
DC SUPPLY POSITIVE RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN
NEGATIVE BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN
SIGNAL PAIR POSITIVE BLACK NEGATIVE WHITE
SINGLE TRIAD POSITIVE BLACK NEGATIVE WHITE THIRD WIRE RED
THERMOCP L POSITIVE PER ANSI MC96.1 NEGATIVE PER ANSI MC96.1
 - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
 - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
 - DEVICES ARE EX(i)a RATED
 - JUNCTION BOX IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
 - MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
 - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
 - SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

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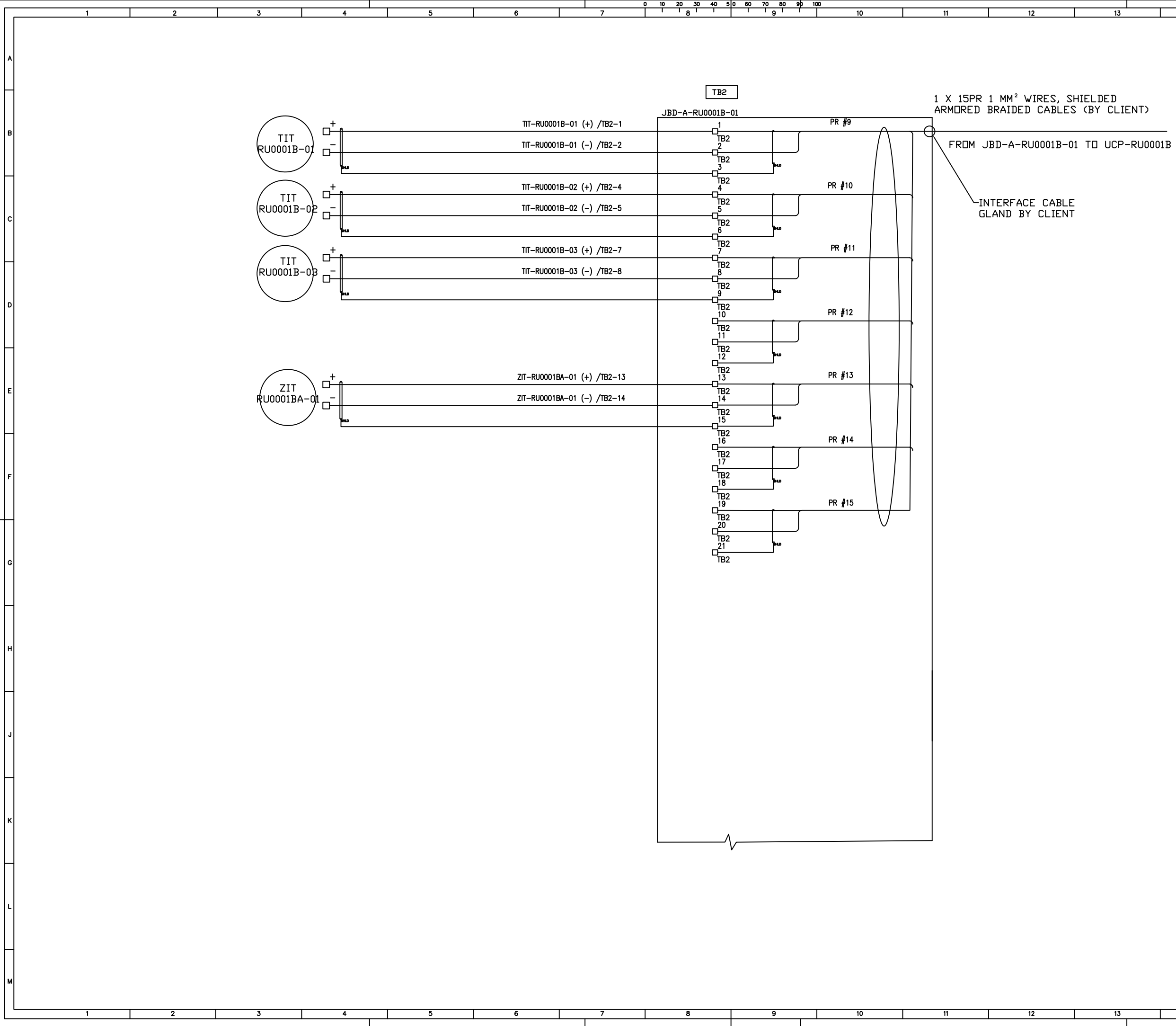
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**
JBD-A-RU0001A-01

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	13 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

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- 1) INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- 2) AC SUPPLY PHASE NEUTRAL GROUND
 DC SUPPLY POSITIVE NEGATIVE
 SIGNAL PAIR POSITIVE NEGATIVE
 SINGLE TRIAD POSITIVE NEGATIVE THIRD WIRE
 THERMOCP L POSITIVE NEGATIVE
- 3) IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- 4) SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
- 5) DEVICES ARE EX(ia) RATED
- 6) JUNCTION BOX IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
- 7) MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- 8) DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
- 9) SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

KEY PLAN :

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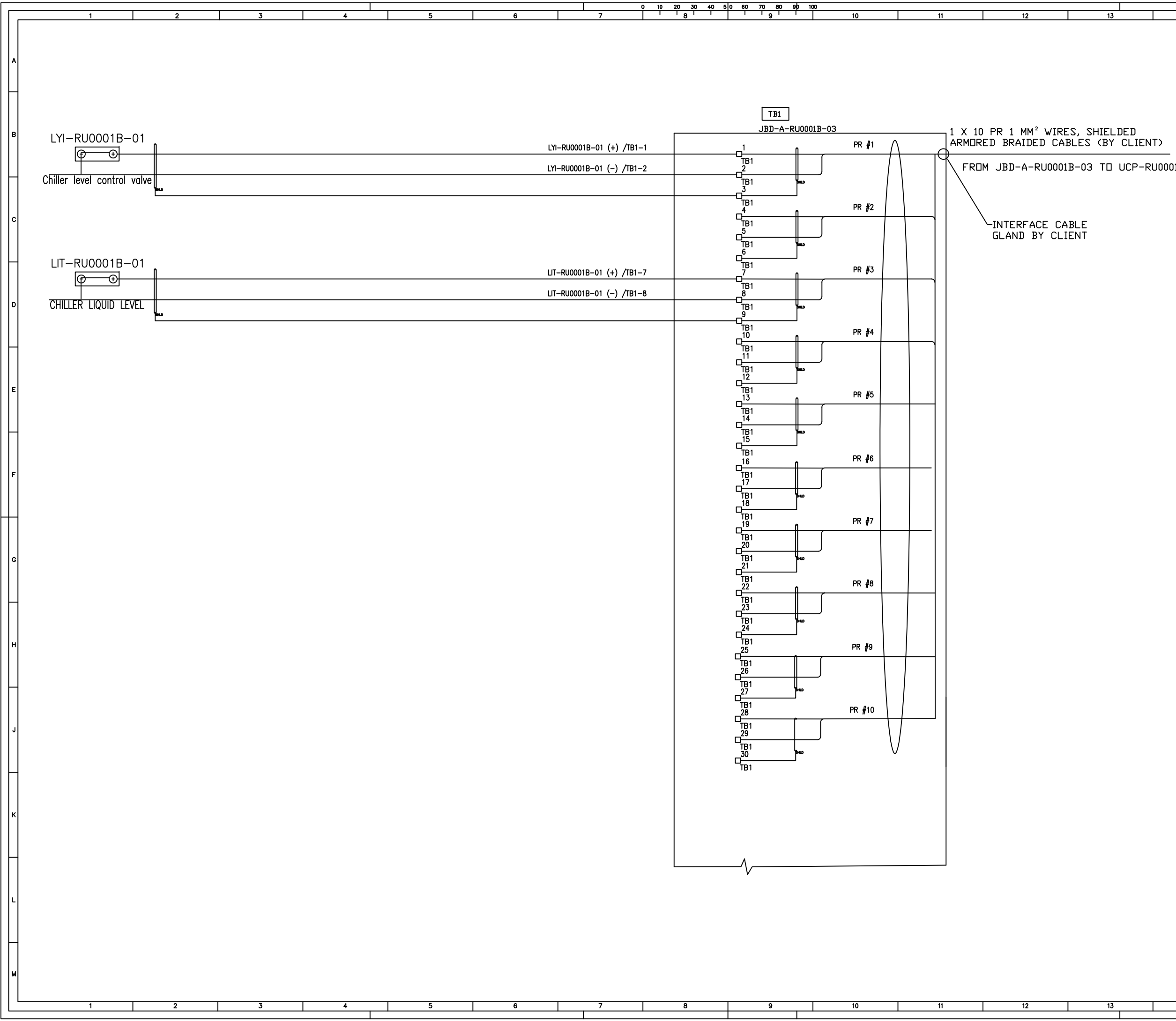


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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:
Local Panel and Junction Box Wiring Diagrams
JBD-A-RU0001A-01

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	14 of 18



REFERENCE DRAWING	DWG NO.	REV.
LEGENDS :		

- NOTES :
- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
 - AC SUPPLY PHASE: BLACK, NEUTRAL: WHITE, GROUND: GREEN OR GREEN W/YELLOW TRACER.
DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN.
NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
 - SIGNAL PAIR POSITIVE: BLACK, NEGATIVE: WHITE.
 - SINGLE TRIAD POSITIVE: BLACK, NEGATIVE: WHITE, THIRD WIRE: RED.
 - THERMOPL POSITIVE: PER ANSI MC96.1, NEGATIVE: PER ANSI MC96.1.
 - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
 - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION.
 - DEVICES ARE EX(i)a RATED.
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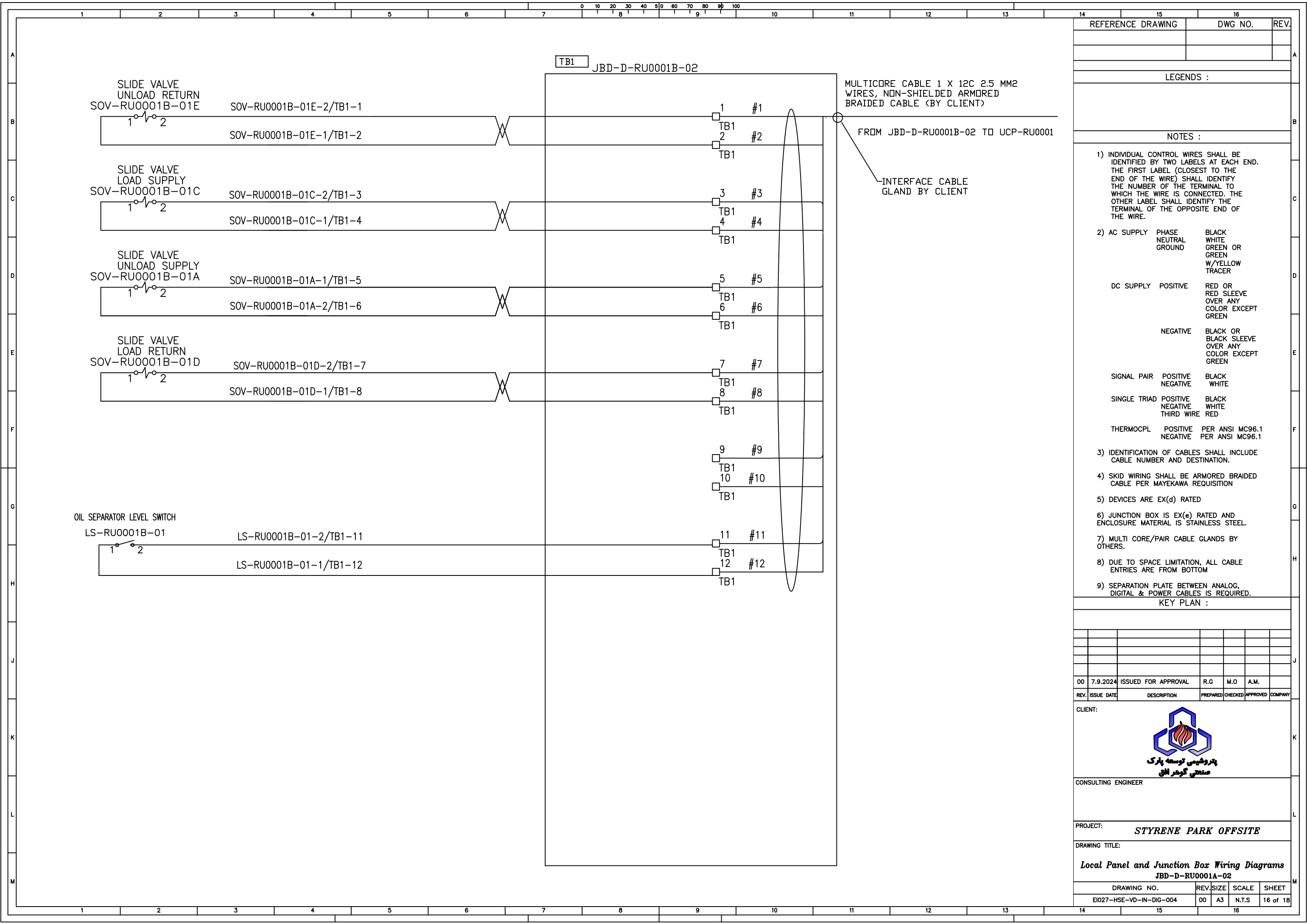
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**
JBD-A-RU0001A-03

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	15 of 18



14	15	16
REFERENCE DRAWING	DWG NO.	REV.
LEGENDS :		
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- AC SUPPLY PHASE NEUTRAL GROUND
 DC SUPPLY POSITIVE
 NEGATIVE
 SIGNAL PAIR POSITIVE NEGATIVE
 SINGLE TRIAD POSITIVE NEGATIVE THIRD WIRE
 THERMOCP L POSITIVE NEGATIVE
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
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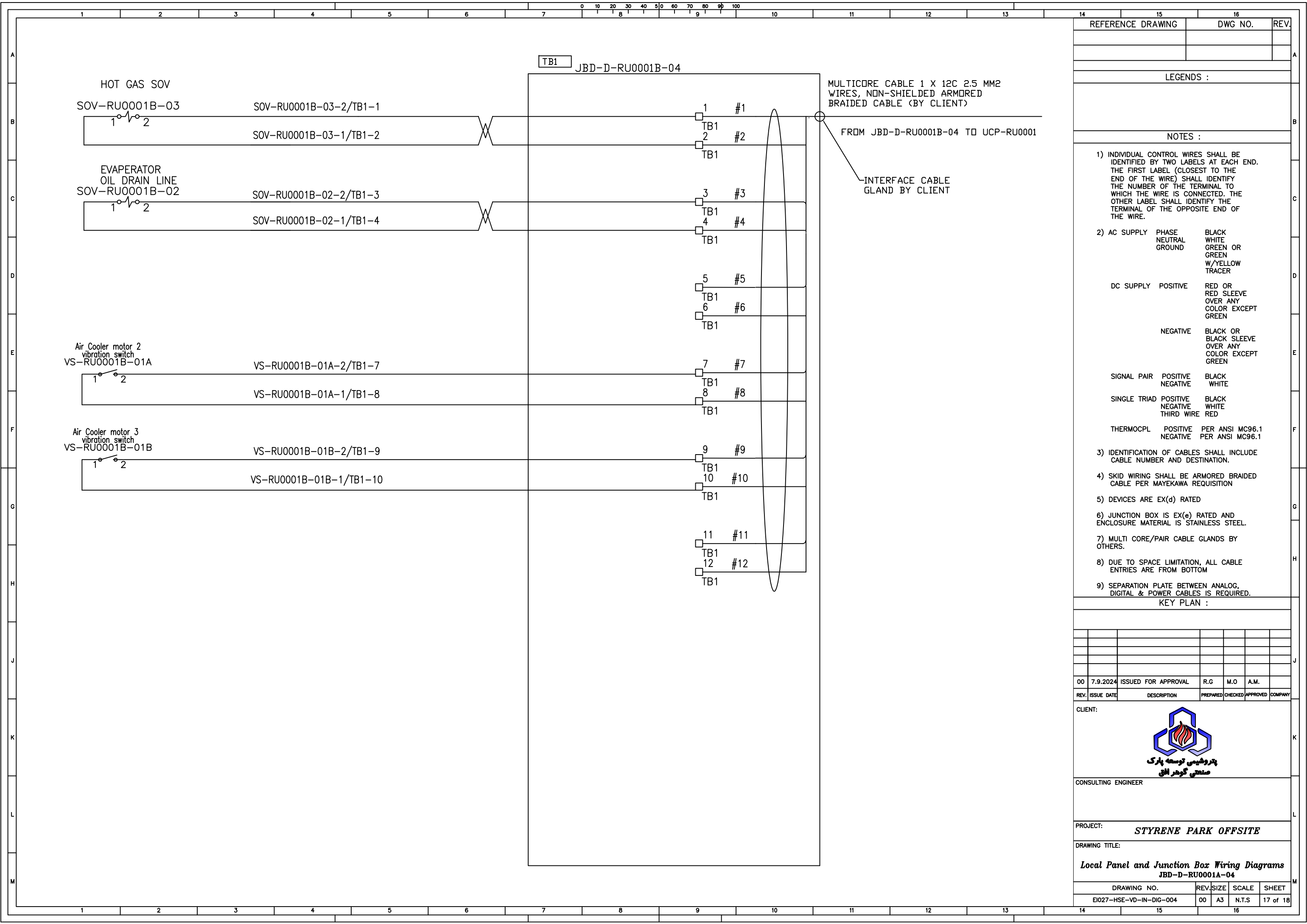
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**
JBD-D-RU0001A-02

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	16 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

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 DC SUPPLY POSITIVE
 DC SUPPLY NEGATIVE
 SIGNAL PAIR POSITIVE NEGATIVE
 SINGLE TRIAD POSITIVE NEGATIVE THIRD WIRE
 THERMOPL POSITIVE NEGATIVE
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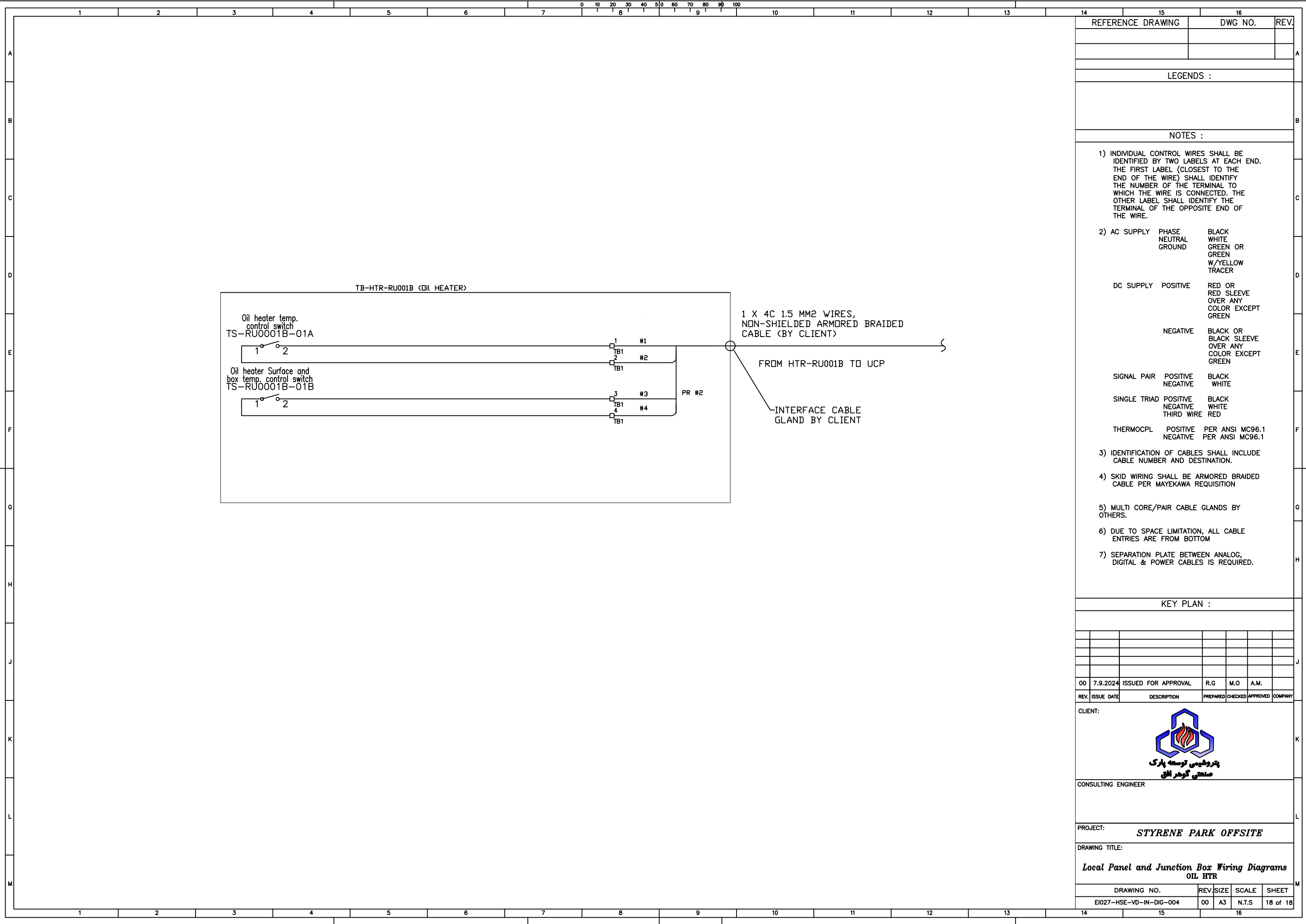
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams JBD-D-RU0001A-04**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	17 of 18



14	15	16				
REFERENCE DRAWING	DWG NO.	REV.				
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PROJECT: STYRENE PARK OFFSITE						
DRAWING TITLE: Local Panel and Junction Box Wiring Diagrams OIL HTR						
DRAWING NO.	REV.	SIZE	SCALE	SHEET		
E027-HSE-VD-IN-DIG-004	00	A3	N.T.S	18 of 18		