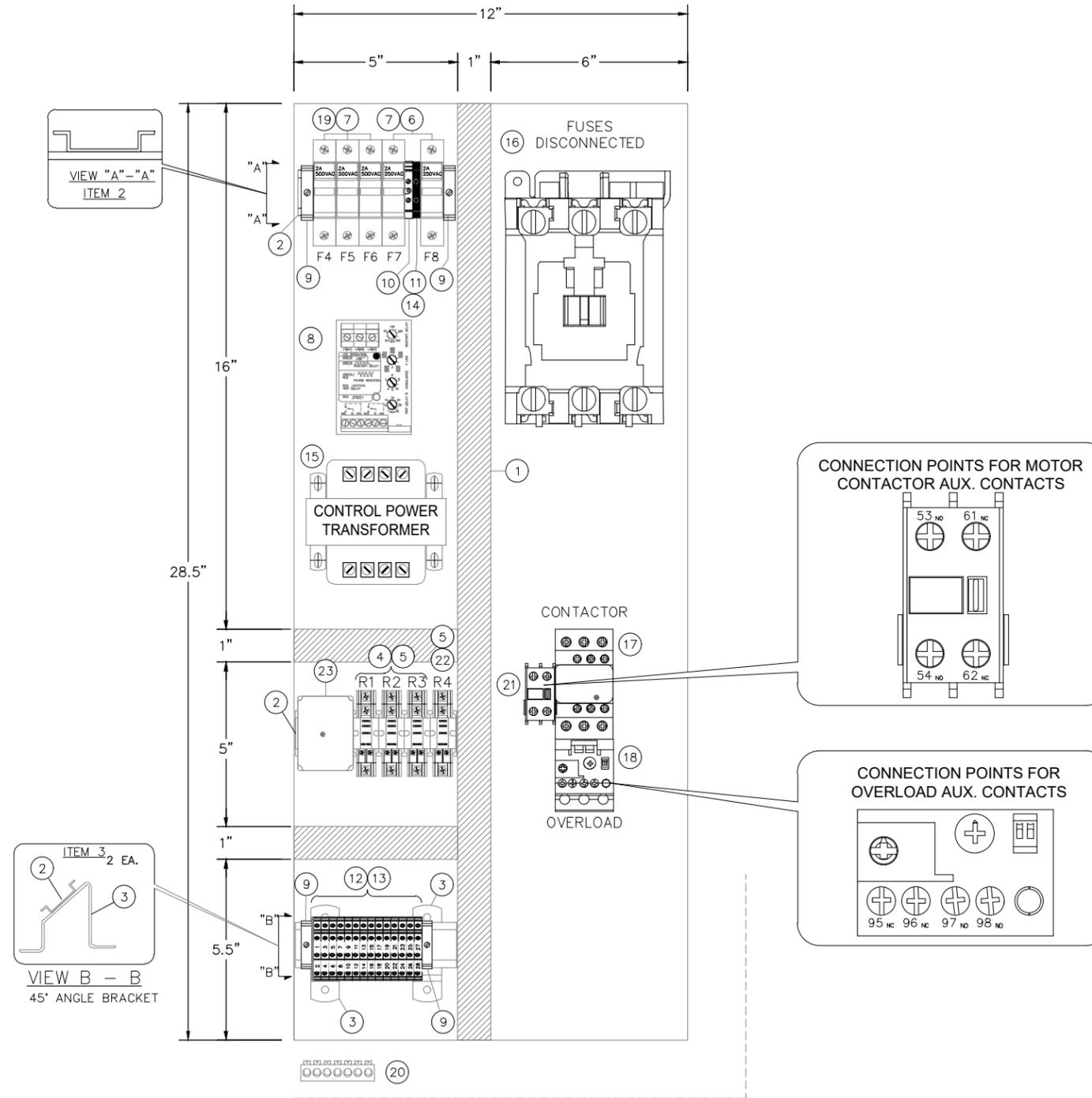


ITEM#	QTY	DESCRIPTION	PART NUMBER	MANUFACTURER
1	1	WELL-GUARD PUMP PANEL SIZE 1, MOTOR LOGIC SSOLR, 480 VAC, NEMA 3R	8940SSC4010	SCHNEIDER
2	1	SELECTOR SWITCH 600VAC 10A 30MM T-K	9001KS43BH13	SCHNEIDER
3	1	IDEC LED PILOT LIGHT 120V COLOR GREEN	APD199DN-G-120V	IDEC
4	1	SECONDARY SURGE ARRESTER	Z-650	MACLEAN PWR SYS
5	1	ARRESTER PROTECTION BRKT ALUM. 060	GENERIC	GENERIC

NOTES:
1. REMOVE RESET BUTTON AND WIRING, PLUG HOLE.

ENGINEERING AND DESIGN TEXAS REGISTERED ENGINEERING FIRM 4098	FILE:	NO.	REVISION/ISSUE	BY	CHK. REVIEW/APPR.	DATE	DWG. NO.	REFERENCE DRAWINGS
	DRAWN BY:	NO.	0 FOR REFERENCE	ML		9/15/23		
	MIDLAND, TEXAS	NO.						
SIZE-1 STARTER EXTERNAL LAYOUT OXY	REV. 0	SCALE 6" = 1'-0"	JOB NO.					



ITEM#	QTY	DESCRIPTION	PART NUMBER	MANUFACTURER
1	5FT	LIGHT GRAY NARROW FINGER WIRE DUCT	TIE-1015	IBOCO
2	1	STD. SLOTTED DIN RAIL TS35 - 2M	IBO OMEGA 3F	IBOCO
3	2	ST ANGLED DIN RAIL BRACKET	IBO ST	IBOCO
4	3	SINGLE POLE DT RELAY 24V 10A	RH1B-ULDC24V	IDEC
5	4	RELAY SOCKET, DIN RAIL, SCREW, 5 PINS, 10 A, 250 V	SH1B-05C	IDEC
6	2	2A 250VAC FUSE	FNM-2	BUSSMAN
7	5	32A RAIL MOUNT FUSE HOLDER WITH INDICATOR FOR 10 X 38 MM FUSE; 690 V	CHM1DIU	BUSSMAN
8	1	SSAC PHASE MONITOR	HLMUDRAAA	ABB
9	4	END STOP DIN RAIL MOUNT 1-3	20635116	ENTRELEC
10	1	ETR M4/6 WHITE TERM BLOCK	10505120	ENTRELEC
11	1	M4/6P GRND TERM BLOCK	16511316	ENTRELEC
12	14	M4/6 D2 GREY TERM BLOCK, DOUBLE DECK	11527122	ENTRELEC
13	1	END SECTION, SNAP ON, GREY, FEM6D, 1MM, TERMINAL BLOCK	11849923	ENTRELEC
14	1	FEM6 YELLOW ENDSECTION	010306221	ENTRELEC
15	1	INDUSTRIAL CONTROL TRANSFORMER 480 - 110 VAC	9070T200D1	SCHNEIDER
16	1	30/60A DISC SW WITH OPERATING MECHANISM	4056720051	SCHNEIDER
17	1	SER A SIZE 1, 120V, 600VAC, 15HP CONTACTOR	LC1D25G7	SCHNEIDER
18	1	OVERLOAD RELAY, TESYS LRD, 6.4A - 32A	LR9D32	SCHNEIDER
19	3	FUSE WITH 500VAC VOLTAGE RATING	FNQ-2	BUSSMAN
20	1	5-TERMINAL GROUND BAR KIT	PK7GTA	SCHNEIDER
21	1	AUX CONTACT BLOCK, TESYS DECA, 1 NO & 1 NC, TOP MOUNT (MOTOR CONTACTOR)	LADN11	SCHNEIDER
22	1	SINGLE POLE DT RELAY 120VAC 10A	RH1B-ULAC120V	IDEC
23	1	COIL-LOCK 8 TO 200 OHMS	1002-120V	PGSI

NOTES:

SIZE-1 STARTER
INTERNAL LAYOUT
OXY

ENGINEERING AND DESIGN
TEXAS REGISTERED
ENGINEERING FIRM #098



MIDLAND, TEXAS

REV. 0 | SCALE 6" = 1'-0" | JOB NO. | DRAWN BY: | FILE: |

9/15/23

ML

REVISION/ISSUE

0 FOR REFERENCE

NO.

DATE

BY

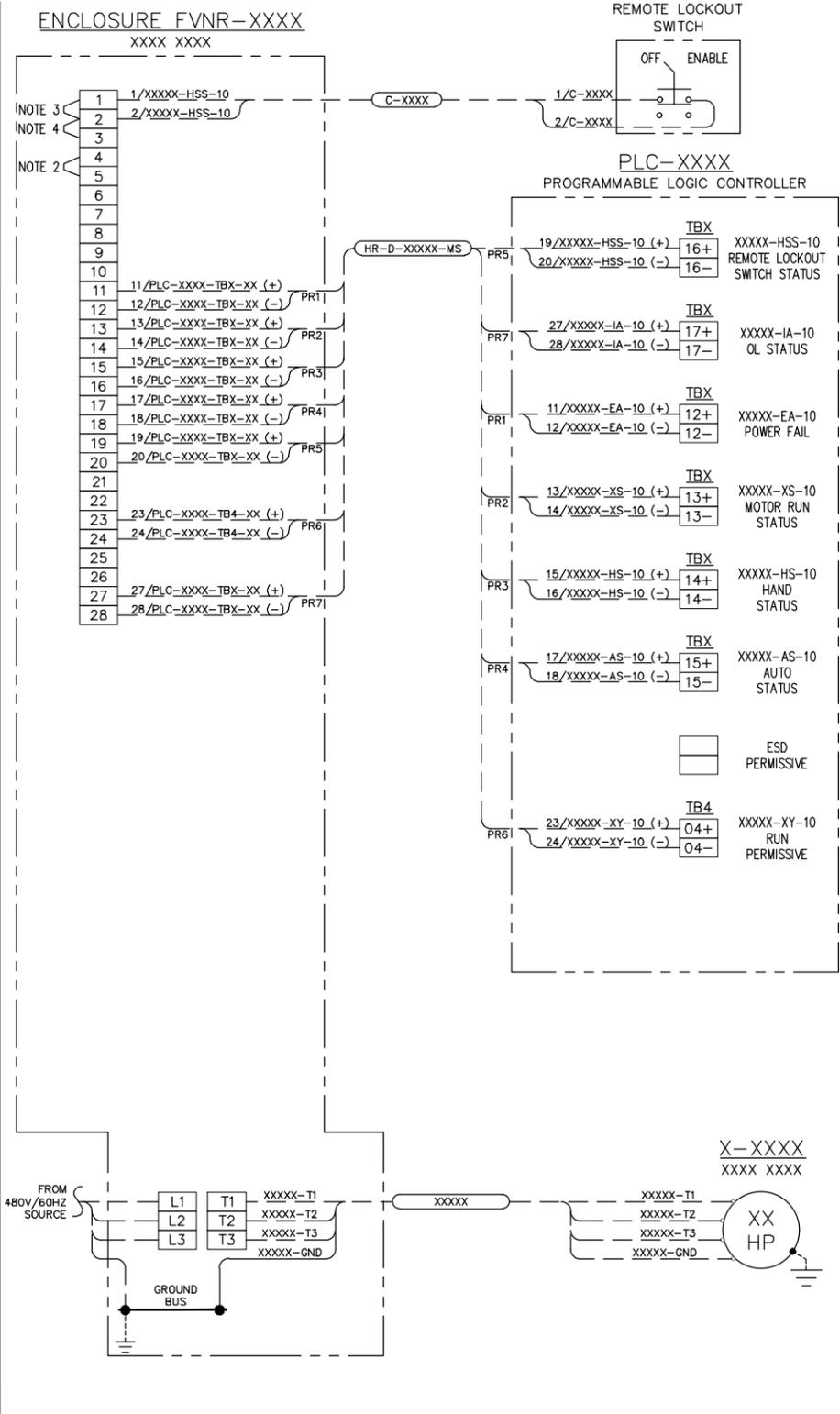
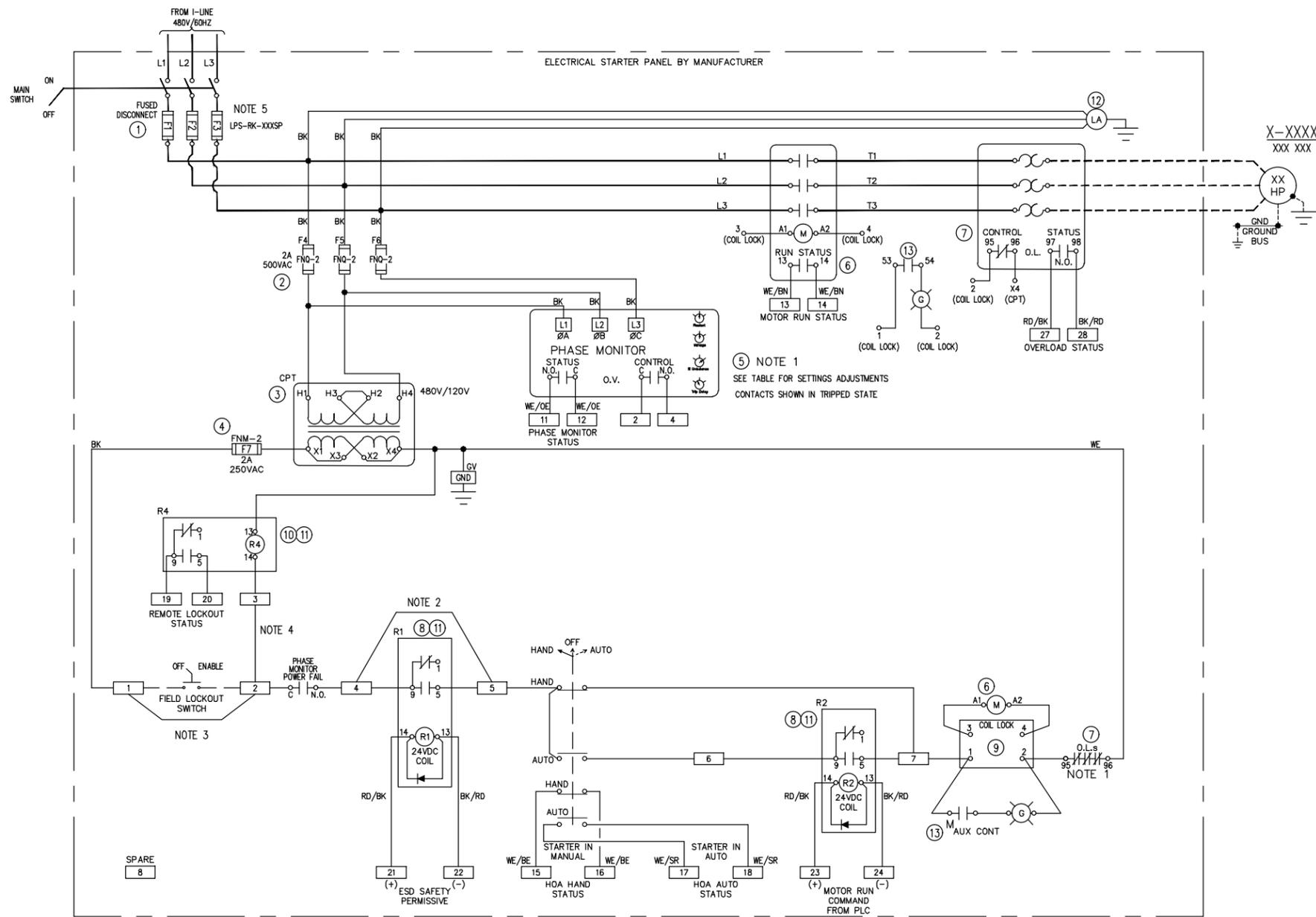
CHK

REVIEW

APPR

DWG. NO.

REFERENCE DRAWINGS



PARTS LIST

ITEM#	QTY	DESCRIPTION	PART NUMBER	MANUFACTURER
1	1	FUSE DISCONNECT, 600V, (SEE FUSING TABLE), WITH FUSES (3)	PER CONTACTOR SIZE	BUSSMAN
2	3	FUSE, 2A, 500VAC	FNO-2	BUSSMAN
3	1	INDUSTRIAL CONTROL TRANSFORMER 480-120VAC	9070T200D1	SQUARE D
4	2	FUSE, 2A, 250VAC	FNM-2	BUSSMAN
5	1	SSAC PHASE MONITOR RELAY	HLMUDRAAA	LITTLEFUSE
6	1	SER A SIZE 1, 120V, 600VAC, 15HP CONTACTOR	LCD25G7	SCHNEIDER
7	1	OVERLOAD RELAY, TESYS LRD, 6.4A - 32A	LR9D32	SCHNEIDER
8	3	SINGLE POLE DT RELAY 24VDC, 10A	RH1B-ULDC24V	IDEC
9	1	COIL-LOCK 8 TO 200 OHMS	1002-120V	PQSI
10	1	RELAY, SPDT, 120VAC	RH1B-ULAC120V	IDEC
11	4	SOCKET, FOR RH1B RELAYS DIN RAIL MOUNT	SH1B-05	IDEC
12	1	SURGE TEC, 48-62HZ 650V MAX, SECONDARY SURGE ARRESTER	Z3-650-3	MACLEAN PWR SYS
13	1	AUX CONTACT BLOCK, TESYS DECA, 1 NO & 1 NC, TOP MOUNT (MOTOR CONTACTOR)	LADN11	SCHNEIDER

OXY ORCM FUSING GUIDE

NEMA STARTER SIZE	MOTOR HP	MOTOR DISC SIZE [AMPS]	MOTOR FUSE SIZE [AMPS]	MOTOR FUSE TYPE
0	0.5	20	1	LPS-RK
	0.75	20	3	LPS-RK
	1	20	3	LPS-RK
	1.5	20	5	LPS-RK
	2	20	5	LPS-RK
	3	20	8	LPS-RK
1	5	20	12	LPS-RK
	7.5	30	20	LPS-RK
1	10	30	20	LPS-RK

LITTLEFUSE HML SERIES RELAYS

PHASE MONITOR RELAY: 200-480 VAC			
SETTING	RANGE OF ADJUSTMENT	SET POINTS	UNITS
RESTART DELAY	0.6-300	180	SECONDS
V LINE	200-480	480	VOLTS
UNBALANCE	2-10	10	PERCENT
TRIP DELAY	1-30	10	SECONDS

- NOTES:**
- INSTALLED BY PANEL FABRICATION SHOP.
 - REMOVE JUMPER BETWEEN TERMINALS 4 & 5 IF ESD RELAY (R1) IS USED.
 - REMOVE JUMPER BETWEEN TERMINALS 1 & 2 IF REMOTE LOCKOUT SWITCH WILL BE UTILIZED TO ENABLE OR DISABLE STARTER.
 - REMOVE JUMPER BETWEEN TERMINALS 2 & 3 IF REMOTE SWITCH WILL NOT BE USED TO ENABLE OR DISABLE THE STARTER.
 - FUSES SHALL BE LPSRK TYPE, AND THE CAPACITY SHALL BE SELECTED FROM THE OXY ORCM ELECTRICAL FUSING GUIDE.

ENGINEERING AND DESIGN
TEXAS REGISTERED
ENGINEERING FIRM #098

HIT
CONSULTANTS, INC.

MIDLAND, TEXAS

SIZE-1 STARTER
SCHEMATIC
OXY

DRAWN BY: [] FILE: []
REV. 0 ISCALE NO SCALE JOB NO. []
0 FOR REFERENCE
ML BY CHK (REVIEW APPR) DATE 9/15/23
NO. [] DWG. NO. [] REFERENCE DRAWINGS