



MOTOR CONTROL CENTER
FRONT VIEW
 SCALE: 1" = 1'-0"
 ELECTRICAL EQUIPMENT ROOM

UNIT SCHEDULE MOTOR CONTROL CENTER

SECTION	UNIT NO.	UNIT TYPE	NAME PLATE/DESCRIPTION	MOTOR HP	CIRCUIT BREAKER	STARTER
T1	T1A	MCB	TEMPORARY FEEDER BREAKER TO EXISTING SWITCHGEAR	—	600A	—
1	1A	MCS	MAIN BUS DISCONNECT	—	600A (1)	—
	1B	INSR	BUS MONITOR	—	—	—
	1C	INSR	POWER MONITOR	—	—	—
2	2A	FCB	PANELBOARD LP-1A/B, (TLP-1)	—	90A	—
	2B	FCB	PANELBOARD LP-2 (TLP-2)	—	15A	—
	2C	FCB	PANELBOARD LP-3 (TLP-3)	—	15A	—
	2D	FCB	EAST TOWER ELEVATOR	5	15A	—
	2E	FCB	WEST TOWER ELEVATOR	5	15A	—
	2F	TVSS	250 KA/PHASE TVSS	—	PER MFG'R.	—
3	3A	FVMH	HEATING PANEL HP1	—	30A	NEMA 1
	3B	FVMH	HEATING PANEL HP1A	—	50A	NEMA 1
	3C	FVMH	HEATING PANEL HP2	—	30A	NEMA 1
	3D	EMTY	SPARE SPACE	—	—	—
4	4A	FVMH	HEATER - EAST MACHINERY ROOM	—	30A	NEMA 1
	4B	FVMH	HEATER - WEST MACHINERY ROOM	—	30A	NEMA 1
	4C	FVR	EAST SPAN LOCK	5	MCP	NEMA 1
	4D	FVR	WEST SPAN LOCK	5	MCP	NEMA 1
5	5A	FCB	EAST MAIN DRIVE E1	100	250A	—
	5B	FCB	EAST MAIN DRIVE E2	100	250A	—
	5C	EMTY	SPARE SPACE	—	—	—
6	6A	FCB	WEST MAIN DRIVE W1	100	250A	—
	6B	FCB	WEST MAIN DRIVE W2	100	250A	—
	6C	EMTY	SPARE SPACE	—	—	—
7	7A	FVNR	EAST MOTOR BRAKE MOBE	1/4	MCP	NEMA 1
	7B	FVNR	EAST MACHINERY BRAKE MABE1	3/4	MCP	NEMA 1
	7C	FVNR	EAST MACHINERY BRAKE MABE2	3/4	MCP	NEMA 1
	7D	FVNR	WEST MOTOR BRAKE MOBW	1/4	MCP	NEMA 1
	7E	FVNR	WEST MACHINERY BRAKE MOBW1	3/4	MCP	NEMA 1
	7F	FVNR	WEST MACHINERY BRAKE MOBW2	3/4	MCP	NEMA 1
8	8A	FCB	EAST AUXILIARY DRIVE	10	30A	—
	8B	FCB	WEST AUXILIARY DRIVE	10	30A	—
	8C	EMTY	SPARE SPACE	—	—	—
	8D	EMTY	SPARE SPACE	—	—	—
	8E	EMTY	SPARE SPACE	—	—	—
	8F	EMTY	SPARE SPACE	—	—	—
9	9A	FVR	EAST TRAFFIC GATE	3/4	MCP	NEMA 1
	9B	FVR	WEST TRAFFIC GATE	3/4	MCP	NEMA 1
	9C	FVR	EAST BARRIER GATE	1	MCP	NEMA 1
	9D	FVR	WEST BARRIER GATE	1	MCP	NEMA 1

(1) SWITCH RATING

EMTY = EMPTY SPACE (BLANK DOOR)
 FCB = FEEDER CIRCUIT BREAKER
 FVMH = FULL VOLTAGE MECHANICALLY HELD
 FVNR = FULL VOLTAGE NON-REVERSING COMBINATION STARTER
 FVR = FULL VOLTAGE REVERSING COMBINATION STARTER
 INSR = INSTRUMENTATION SPACE (HINGED DOOR)
 MCP = MAIN CIRCUIT BREAKER
 MCS = MOTOR CIRCUIT PROTECTOR
 MCS = MOLDED CASE SWITCH
 TVSS = TRANSIENT VOLTAGE SURGE SUPPRESSOR

NOTES:

- MOTOR CONTROL CENTER SHALL INCLUDE RED INDICATOR LIGHT FOR "480 VOLT BUS ON"
- MOTOR CONTROL CENTER CONFIGURATION MAY BE ALTERED WITH APPROVAL OF THE ENGINEER. THE LAYOUT AND INSTALLATION PROCEDURES SHALL COMPLY WITH MANUFACTURES INSTRUCTIONS.
- FOR LOCATION OF MOTOR CONTROL CENTER IN THE ELECTRICAL EQUIPMENT ROOM, SEE DRAWING NO. 39.
- PROVIDE NAMEPLATE AT RIGHT TOP CORNER OF EACH UNIT, ATTACHED WITH STAINLESS STEEL OR BRONZE SCREWS. NAME-PLATES SHALL BE 1" x 3", LAMINATED PHENOLIC WITH BLACK BACKGROUND AND WHITE LETTERING WITH DESCRIPTION AS INDICATED IN UNIT SCHEDULE.
- INSTALL LOCAL POWER MONITOR DISPLAY IN MAIN BREAKER DOOR AT APPROXIMATELY EYE LEVEL.
- TEMPORARY INCOMING POWER TERMINATIONS WILL BE MADE IN MCC SECTION T1 AND ROUTED TO EXISTING SWITCHGEAR.

STATE OF NORTH CAROLINA			
DEPARTMENT OF TRANSPORTATION			
RALEIGH			
CAPE FEAR RIVER CROSSING			
WILMINGTON, NORTH CAROLINA			
MOTOR CONTROL CENTER			
DESIGNED	G.L. FASICK	DATE	APRIL, 2005
CHECKED	L.R. BAKER	DRAWING NO.	8 OF 53

