



ONE-LINE DIAGRAM
NO SCALE

PANEL:				DEADSLIP			LOCATION:			OCRACOKE DOCK					
OPTIONS															
VOLTS L-L:		208		MAIN OVERCURRENT:		400A MCB		BUS MATERIAL:		Cu		MOUNTING:		SURFACE	
VOLTS L-N:		120		MAIN BUS RATING:		400A		NEUTRAL SIZE:		100%		ENCLOSURE TYPE:		NEMA 4X	
PHASE:		3		MINIMUM A.I.C.:								GROUND:		SEPARATELY DERIVED	
WIRE:		4													
LOAD DATA															
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#	
1	20 A	1		SPARE	0	1700			1700	HOIST MOTOR 1 (3/4HP)		1	20 A	2	
3	20 A	1		SPARE	0		1700		1700	HOIST MOTOR 2 (3/4HP)		1	20 A	4	
5	20 A	1		SPARE	0			720	720	DOCK RECEPTACLES		1	20 A	6	
7	20 A	1		RAIL LTS	112	132			20	SAFETY PEDESTAL		1	15 A	8	
9		1		SPACE			0			SPACE		1		10	
11		1		SPACE				0		SPACE		1		12	
13		1		SPACE		0				SPACE		1		14	
15		1		SPACE			0			SPACE		1		16	
17	20 A	1		RECEPTACLE	1920			1920		SPACE		1		18	
19					19214	19214								20	
21	200 A	3		SHORE POWER 1	19214		19214							22	
23					19214			19214						24	
25						19214			19214					26	
27							19214		19214	SHORE POWER 2		3	200 A	28	
29								19214	19214					30	
TOTAL CONNECTED LOAD (VA) PER PHASE:						40260	40128	41068							
CONNECTED LOAD (AMPS) PER PHASE:						336	334	342							
TOTAL CONNECTED LOAD (VA):						121457	NEC ARTICLE 220 LOAD (VA):						67953		
AVERAGE CONNECTED LOAD (AMPS):						337	AVERAGE ARTICLE LOAD (AMPS):						189		
NOTES:															
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNANT LOADING AND RECEPTACLES VA.														
2.	PROVIDE MANUFACTURER'S STANDARD SPD.														
3.	PANEL SCHEDULES ARE BASED ON RECORD DRAWINGS PROVIDED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY CONNECTED LOADS PRIOR TO MODIFICATION OF PANELS.														
4.	LOADS DEPICTED IN ITALICIZED FONT ARE REPRESENTATIVE OF EXISTING LOADS. LOADS DEPICTED IN BOLD FONT ARE REPRESENTATIVE OF NEW LOADS TO BE CONNECTED.														

LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER.	LAMPS- NUMBER/ TYPE	FIXTURE WATTS	LUMEN OUTPUT	TOTAL LLF	CCT	MOUNTING	REMARKS
P1	LITHONIA LIGHTING	DSX0 LED P1 AMBLW AMCRI AFR	LED	27.42	1359	0.8	2,700K	POLE	15' MH
NOTES									
1.	THE FIXTURES LISTED ABOVE ARE THE BASIS OF DESIGN. TO SUPPLY EQUIVALENT FIXTURES PROVIDE THE FOLLOWING WITH BID DOCUMENTS: 1) COMPLETE PRODUCT SPECIFICATION SHEETS MARKED WITH CATALOG NUMBER AND FIXTURE TYPE, 2) CALCULATION REPORTS SHOWING THE DESIGN CRITERIA HAS BEEN MET, 3) A SUMMARY OF ALL ALTERATIONS DEVIATING FROM THE BASIS OF DESIGN, 4) ELECTRONIC COPIES OF THE IES FILES USED, 5) WRITTEN VERIFICATION THAT THE SUBMITTED FIXTURES MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. EQUIVALENT FIXTURES SHALL BE VERIFIED BY THE ENGINEER FOR ADEQUACY DURING THE BID REVIEW PHASE. THE CONTRACTOR SHALL STILL BEAR THE RESPONSIBILITY OF PROVIDING AND INSTALLING FIXTURES THAT MEET THE DESIGN CRITERIA AND THE QUALITY OF THE BASIS OF DESIGN PRODUCTS, AT NO ADDITIONAL COST.								

LIGHTING DESIGN CRITERIA								
APPLICATION	HORIZONTAL TARGETS			VERTICAL TARGETS			UNIFORMITY TARGETS	
	E (fc)	TYPE	ELEV.	E (fc)	TYPE	ELEV.	MAX:MIN	AVG:MIN
OCRACOKE DOCK	0.5	AVG	FLOOR	N/A	N/A	N/A	4:1	10:1
1. DESIGN CRITERIA ARE BASED ON THE UFC 3-530-01								

ANSI D (34x227)

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GRAPHIC SCALE

Digitally signed by Andrew K Gibbs
Date: 2026.02.17 07:33:55-06'00'

PROJECT ENGINEER		Designed By	RICHARD FERREIRA	County	HYDE COUNTY
		Entered By	RICHARD FERREIRA	Division	FERRY DIVISION
		Project Engineer	ANDREW GIBBS	Plan Date	1-14-2026
		Project Manager	ALLISON THORBURN		
Rev.	Date	Drawn	Description		Ch'k'd App'd

NCDOT PASSENGER FERRY
DOCK REPLACEMENT -
OCRACOKE ISLAND

E-003
ELECTRICAL DIAGRAMS AND SCHEDULES