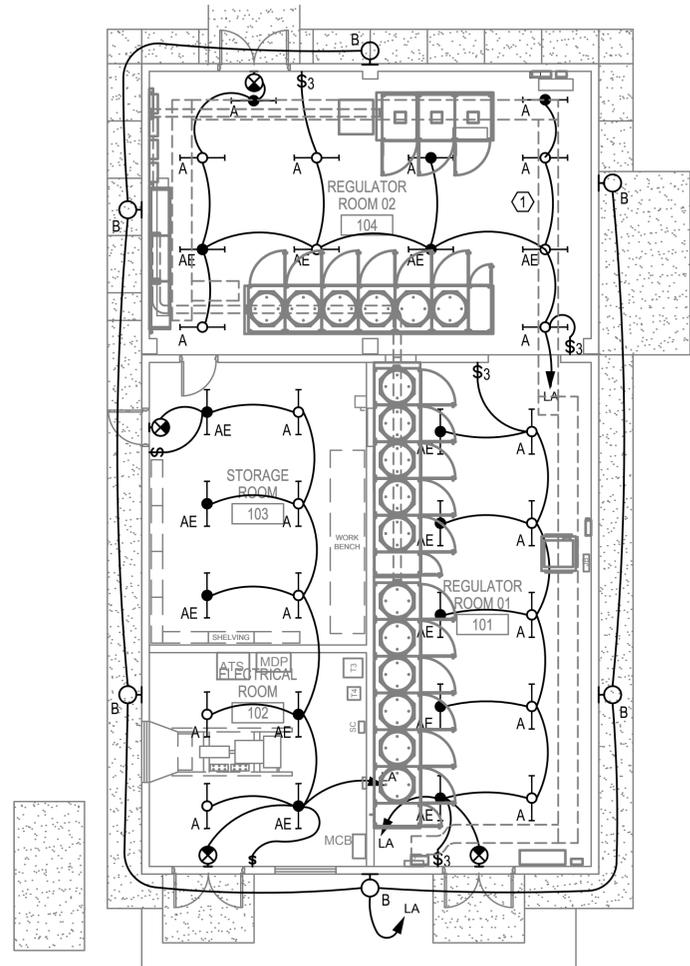


FILE NAME: P:\FBI\1641-9K\AE\2051\34800_AE\2051\34800-EL101.dwg LAYOUT NAME: EL101 PLOTTED: Tuesday, June 09, 2015 - 11:11am USER: lcbarm



1 NEW VAULT LIGHTING PLAN
1/8"=1'-0"

GENERAL NOTES:

- A. ALL ELECTRICAL WORK SHALL BE PER NEC AND ALL LOCAL APPLICABLE CODES AND ORDINANCES.
- B. NEW WORK IS INDICATED BY BOLD LINEWEIGHT. EXISTING WORK TO REMAIN IS INDICATED BY SCREENED LINEWEIGHT.
- C. ALL CIRCUITS SHALL HAVE NEUTRAL (EXCEPT 3W, 3PH.), AND GROUND CONDUCTORS AND THESE SHALL NOT BE SHARED WITH OTHER CIRCUITS. ALL SINGLE PHASE BRANCH (LINE TO NEUTRAL LOADS) CIRCUITS SHALL HAVE SEPARATE NEUTRAL. NEUTRALS SHALL NOT BE SHARED AS IN MULTI-WIRE CIRCUITS. ALL GROUND CONDUCTORS SHALL BE INSULATED AND COLOR CODED GREEN.
- D. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOOR OR CEILINGS SHALL BE FIRE STOPPED TO MAINTAIN THE FIRE RESISTANT RATING.
- E. THE EMERGENCY FIXTURE BATTERY PACKS ARE TO BE UN-SWITCHED. AN UN-SWITCHED LIGHTING CIRCUIT PHASE CONDUCTOR SHALL BE PROVIDED AND INSTALLED TO SERVE SELF-CONTAINED EMERGENCY BATTERY PACKS IN NEW FIXTURES. THIS UN-SWITCHED PHASE CONDUCTOR SHALL BE ON THE SAME LIGHTING BRANCH CIRCUIT SERVING SWITCHED LAMPS. THE EMERGENCY BATTERY PACKS SHALL ONLY ENERGIZE DESIGNATED FIXTURE LAMPS WHEN THE LIGHTING BRANCH CIRCUIT IS DE-ENERGIZED. THE EXIT LIGHTS SHALL BE PERMANENTLY ENERGIZED, WITH THEIR INTEGRAL EMERGENCY BATTERY PACK ONLY ON ENERGIZING THE EXIT LIGHT WHEN THE LIGHTING BRANCH CIRCUIT TO WHICH IT IS CONNECTED IS DE-ENERGIZED.
- F. CIRCUIT DIRECTORY: ALL CIRCUITS AND CIRCUIT MODIFICATIONS SHALL BE LEGIBLY IDENTIFIED AS TO PURPOSE OR USE ON A NEW CIRCUIT DIRECTORY LOCATED ON THE INSIDE OF THE PANEL DOOR. AT THIS FACILITY LABELING COMPLYING WITH NEC SHALL BE STRICTLY ADHERED TO.
- G. FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS BEFORE STARTING WORK.
- H. PROTECT ALL FINISHED FLOORS, WALLS, CEILINGS AND EQUIPMENT SCHEDULED TO REMAIN. PATCH AND REPAIR ALL ELEMENTS THAT ARE DAMAGED FROM CONSTRUCTION ACTIVITIES.
- I. NOTIFY THE CONTRACTING OFFICER OF ANY VARIANCE BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS.
- J. ALL UTILITIES TO THE VAULT MUST BE MAINTAINED DURING CONSTRUCTION. ANY INTERRUPTION OF UTILITIES MUST BE PLANNED IN ADVANCE AND APPROVED BY THE AIRFIELD MANAGER.

KEYED NOTES:

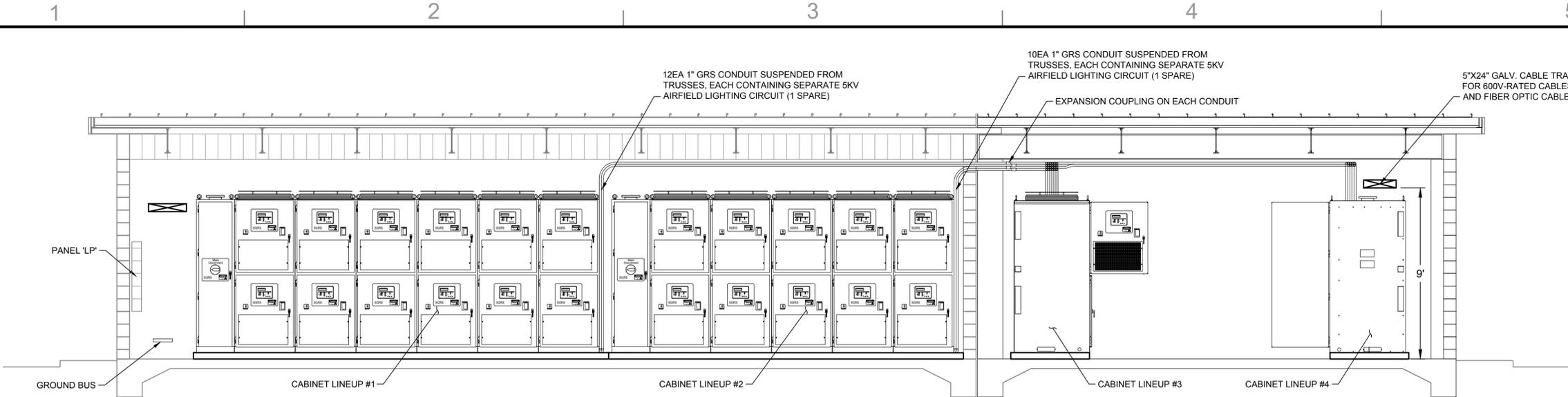
- 1. COORDINATE MOUNTING OF FIXTURES WITH LOCATION OF CABLES TRAYS.



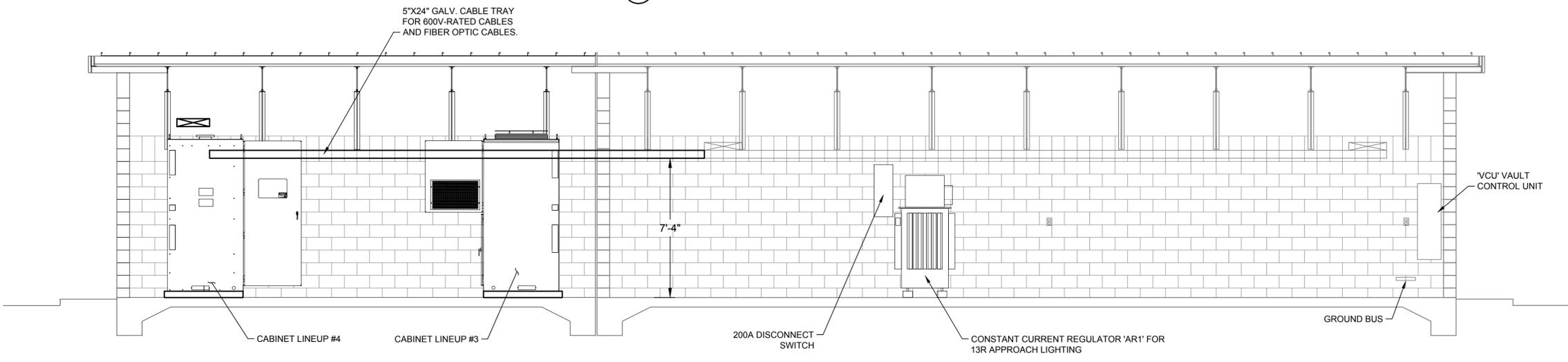
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1/8"=1'-0"

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES DS DRW NJS CHK DMW PM / DM BRANCH MANAGER CHIEF ENG / ARCH FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI, TEXAS NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT ELECTRICAL LIGHTING VAULT PLANS	
SCALE: AS NOTED PROJECT NO.: CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.: 15095106 SHEET 36 OF 54	
EL101 <small>DRAWFORM REVISION: 5 APRIL 2012</small>	

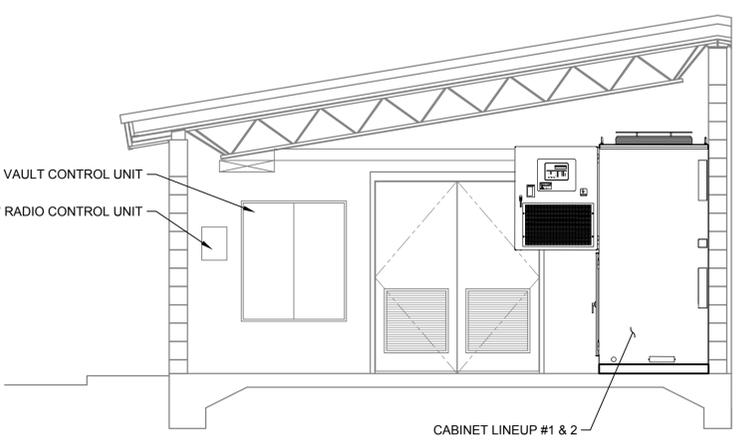
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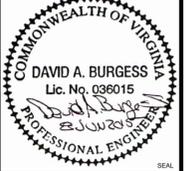
1 WEST WALL, REGULATOR ROOM #1
SCALE: NTS



2 EAST WALL, REGULATOR ROOMS 1 & 2
SCALE: NTS



3 SOUTHWALL, REGULATOR ROOM #1
SCALE: NTS

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT INTERIOR ELEVATIONS		
SCALE: NTS EPROJCT NO: CONSTR. CONTR. NO. NAVFAC DRAWING NO: 15095108 SHEET 38 OF 54 E-200 <small>DRAWFORM REVISION: 5 APRIL 2012</small>		

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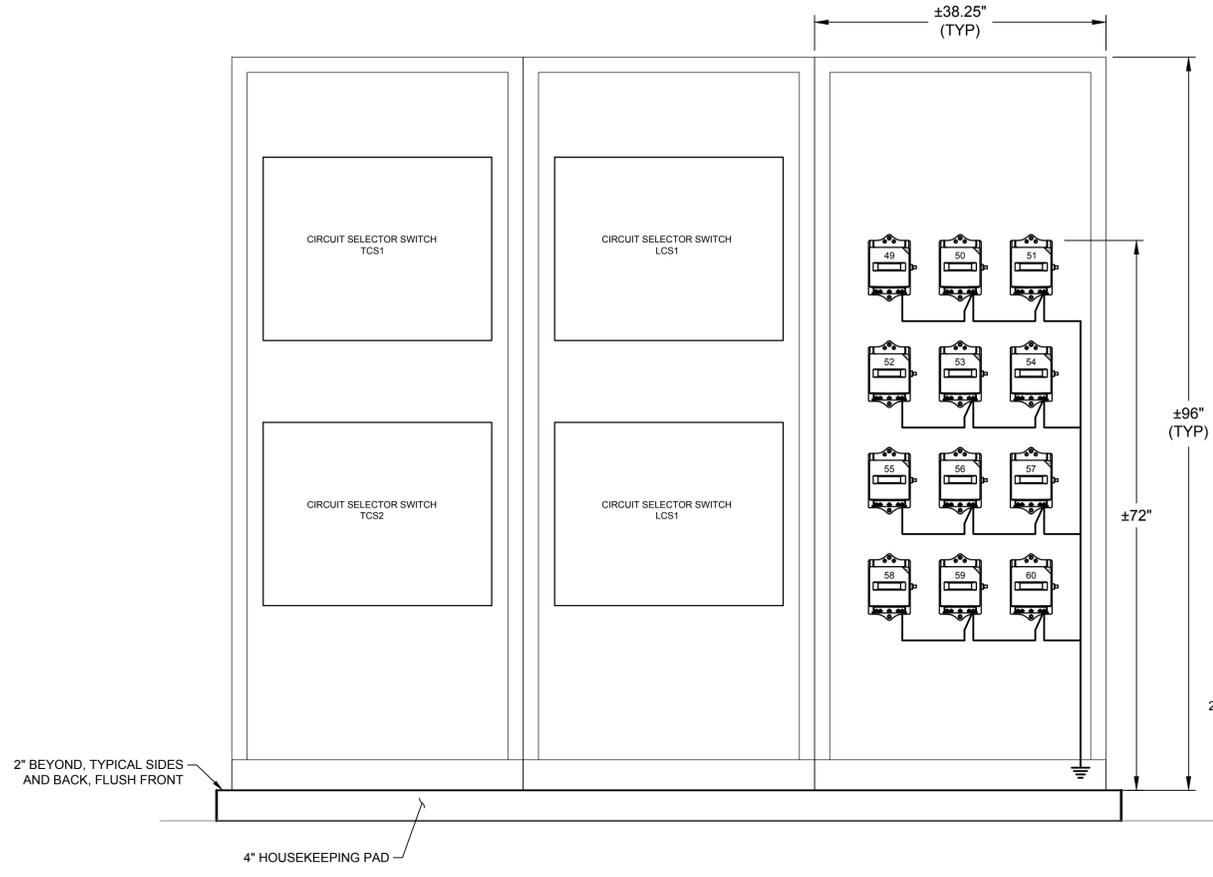
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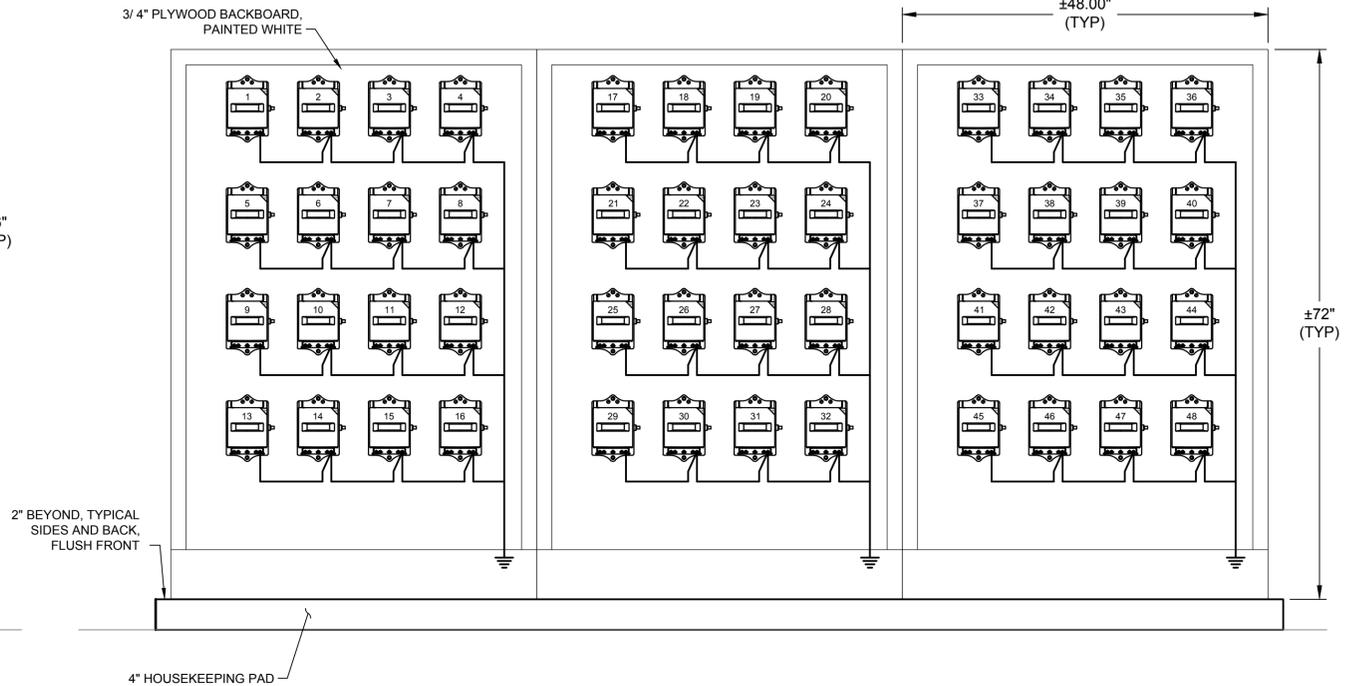
A



1 CABINET LINEUP #4
SCALE: NTS

CABINET #4 NOTES:

1. SAFETY CUTOUT ENCLOSURE CABINETS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 - 1.1. ±48" DEEP.
 - 1.2. INDUSTRIAL TYPE ENCLOSURE SIMILAR TO CABINET REGULATOR ENCLOSURE.
 - 1.3. PROTECTED AGAINST DUST, DIRT, DRIPPING WATER, AND EXTERNAL CONDENSATION OF NON-CORROSIVE LIQUIDS.
 - 1.4. SHALL INCLUDE AN EXHAUST FAN AND VENTILATION KIT FOR PROPER CONVECTION COOLING.
 - 1.5. ALL ENCLOSURE DOORS SHALL HAVE KEYED LOCKS.
 - 1.6. DOORS NOT SHOWN FOR CLARITY. THE DOORS SHALL HAVE A THREE-POINT LATCHING SYSTEM.
2. APPLY ADHESIVE REFERENCE LABELS TO S-1 CUTOUTS AS SHOWN.
3. BOND GROUND CUTOUT GROUNDS AND ENCLOSURE TO COMMON GROUND. BOND EQUIPMENT GROUND TO FACILITY GROUND WITH #6 AWG EQUIPMENT GROUND CONDUCTOR.



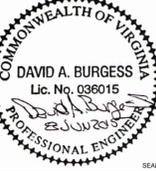
2 CABINET LINEUP #5
SCALE: NTS

CABINET #5 NOTES:

1. SAFETY CUTOUT ENCLOSURE CABINETS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 - 1.1. 18" DEEP.
 - 1.2. NEMA TYPE 12 ENCLOSURE.
 - 1.3. 12 GAUGE STEEL.
 - 1.4. SEAMS CONTINUOUSLY WELDED AND GROUND SMOOTH, NO HOLES OR KNOCKOUTS.
 - 1.5. STIFFENERS ON BACK OF MAINTAIN FLATNESS AND INCREASE RIGIDITY.
 - 1.6. LIFTING EYES.
 - 1.7. 3-POINT LATCHES OPERATED BY OIL-TIGHT KEY-LOCKING HANDLE.
 - 1.8. LATCH ROD ROLLERS FOR EASY DOOR OPENING.
 - 1.9. CONCEALED, EASY-TO-REMOVE HINGES.
 - 1.10. INTERNAL MOUNTING CHANNELS WELDED HORIZONTALLY AT SIDES, AT TOP, BOTTOM, AND CENTER.
 - 1.11. MOUNT ANGLES TO TO SUPPORT PLYWOOD BACKBOARD.
 - 1.12. OIL-RESISTANT DOOR GASKET.
 - 1.13. BONDING PROVISION ON DOOR.
2. APPLY ADHESIVE REFERENCE LABELS TO S-1 CUTOUTS AS SHOWN.
3. FURNISH AND INSTALL 3/4" PLYWOOD BACKBOARD FOR MOUNTING OF S-1 CUTOUTS AND CABLES. INSTALL ON ANGLES PROVIDED WITH ENCLOSURE. INSTALL CABLES IN A NEAT AND ORDERLY APPEARANCE USING CABLE TIES FASTENED TO THE BACKBOARD.
4. BOND GROUND CUTOUT GROUNDS AND ENCLOSURE TO COMMON GROUND. BOND EQUIPMENT GROUND TO FACILITY GROUND WITH #6 AWG EQUIPMENT GROUND CONDUCTOR.

FILE NAME: N:\14072\04 CAD\03p-Youth\155165-H-E202.dwg LAYOUT NAME: E202 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm

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DESCRIPTION	

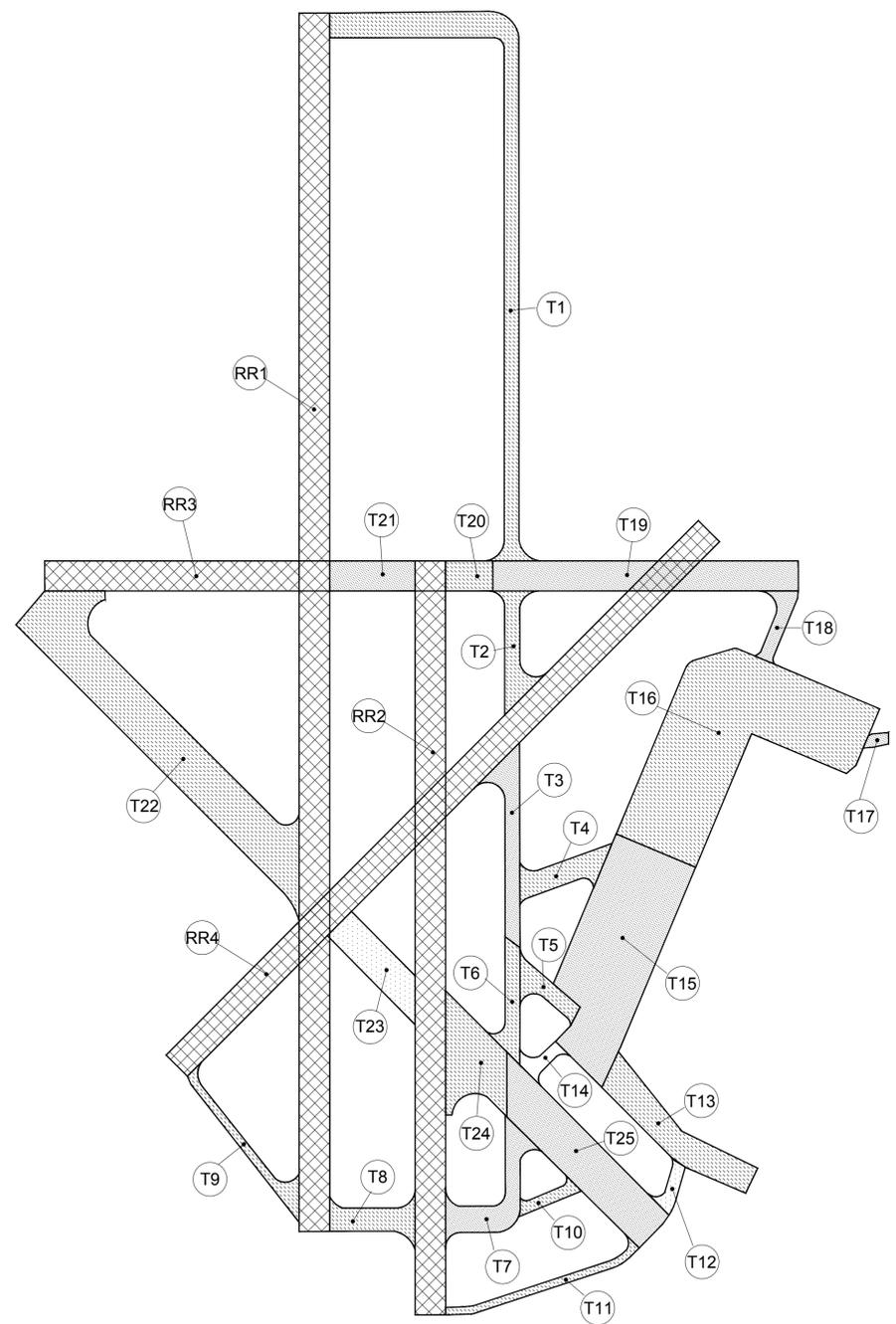


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FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	DAB DRW DAB CHK JMM
PROJECT MANAGER	
IPIT TECH BRANCH HEAD	
CHIEF ENGINEER (CORE)	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 AIRFIELD LIGHTING VAULT
 S-1 CUTOUT CABINET DETAILS

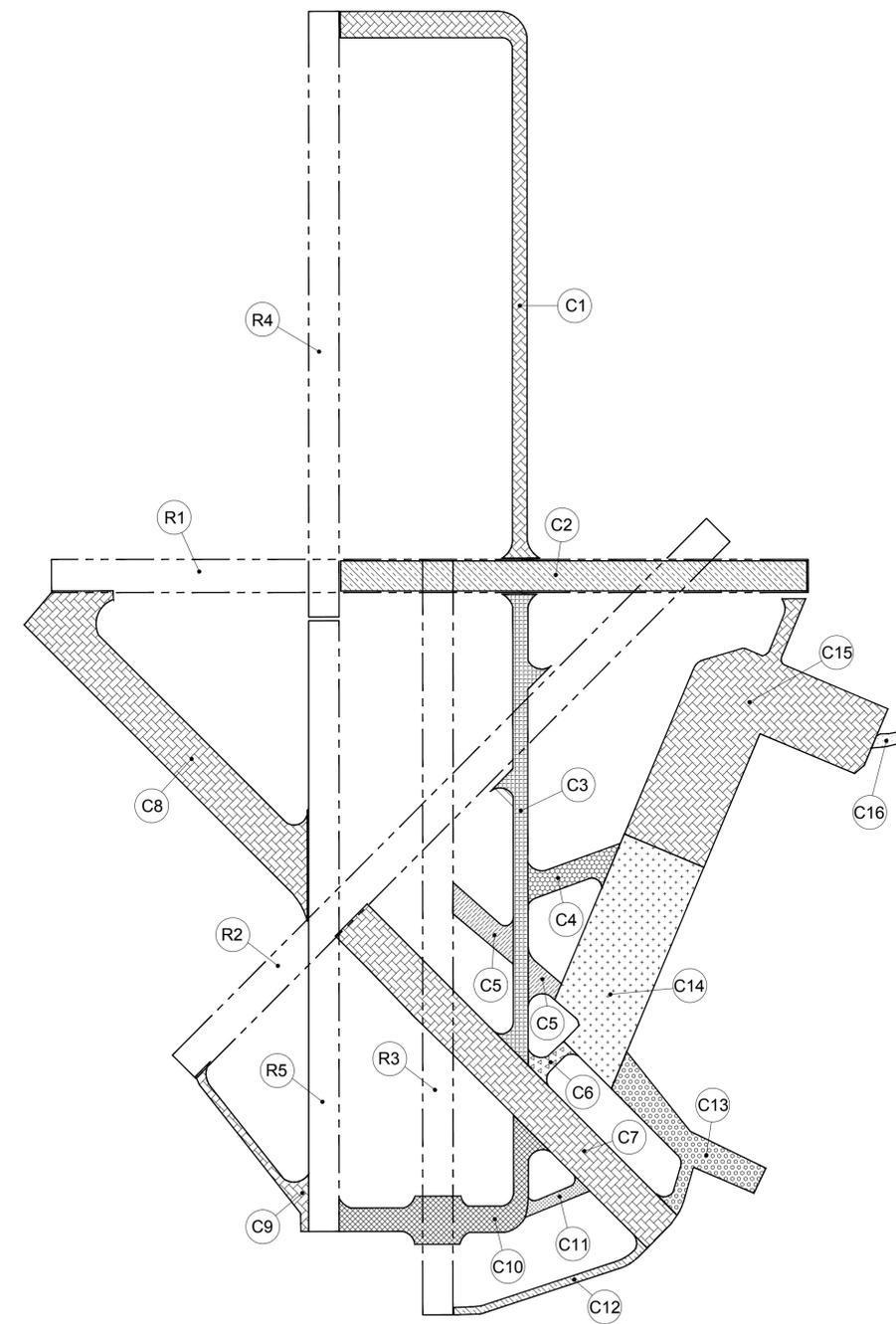
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095110
SHEET	40 of 54
E-202	
DRAWFORM REVISION: 5 APRIL 2012	

FILE NAME: N:\14072\14 CAD\03a-10a\135163-E-400.dwg LAYOUT NAME: E400 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm



RR - 4 RUNWAY CIRCUITS ON 4 CONSTANT CURRENT REGULATORS (CCRs)
 T - 25 TAXIWAY CIRCUITS ON 3 CCRs & 7 CIRCUIT SELECTOR SWITCHES (CCSs)

1 EXISTING LIGHTING CONTROL ZONES
 SCALE: NTS



R - 5 RUNWAY CIRCUITS ON 5 CONSTANT CURRENT REGULATORS (CCRs)
 C - 16 TAXIWAY CIRCUITS ON 13 CCRs & 2 CIRCUIT SELECTOR SWITCHES (CCSs)

2 PROPOSED LIGHTING CONTROL ZONES
 SCALE: NTS

DATE	8 JUN 15	APPR.
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ACTIVITY		
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PROJECT MANAGER		
IPIT TECH. BRANCH HEAD		
CHIEF ENGINEER (CORE)		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST	NAVAL AIR STATION JACKSONVILLE	
CIBL CORE	CORPUS CHRISTI, TEXAS	
NAS CORPUS CHRISTI	NAS CORPUS CHRISTI AIRFIELD REPAIRS	
	AIRFIELD LIGHTING VAULT	
	LIGHTING CONTROL ZONES	
SCALE:	NTS	
PROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	15095111	
SHEET	41	OF 54
E-400		
DRAWING REVISION: 5 APRIL 2012		

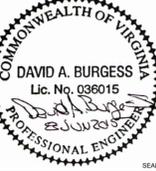
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EQUIPMENT SCHEDULE			
LABEL	DESCRIPTION	RATINGS	NOTES
1	CCR 'AR1', RW 13R APPROACH LIGHTS	50 KW, 20A, 480V INPUT, OIL-FILLED	
2	CCR 'RR-B', RW 17-35 EDGE LIGHTS	15 KW, 6.6A, 480V INPUT, DRY-TYPE	
3	CCR 'RR-A', RW 4-22 EDGE LIGHTS	15 KW, 6.6A, 480V INPUT, DRY-TYPE	
4	CCR 'RR2', RW 13L-31R EDGE LIGHTS	50 KW, 20A, 480V INPUT, OIL-FILLED	
5	CCR 'RR1', RW 13R-31L EDGE LIGHTS	70 KW, 20A, 480V INPUT, OIL-FILLED	
6	PULLBOX		
7	'LP', LIGHTING PANEL	120/240V, 225A, 1PH, 3W, MCB, NEMA 1	
8	CCR 'TR3', TW EDGE LIGHTS	20 KW, 20A, 480V INPUT, DRY-TYPE	
9	CCR 'TR2', TW EDGE LIGHTS	50 KW, 20A, 480V INPUT, OIL-FILLED	
10	CCR 'TR1', TW EDGE LIGHTS	50 KW, 20A, 480V INPUT, OIL-FILLED	
11	CCR 'TR5', SPARE	50 KW, 20A, 480V INPUT, OIL-FILLED	
12	CCR 'TR4', SPARE	20 KW, 20A, 480V INPUT, DRY-TYPE	
13	'JB1', JUNCTION BOX	WAVE-OFF CONTROL POWER	
14	'TCS-7', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
15	'TCS-6', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
16	'TCS-5', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
17	'TCS-4', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
18	'TCS-3', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
19	'TCS-2', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
20	'TCS-1', TW CIRCUIT SELECTOR SWITCH	4 CKT, 20A	
21	'VCU', VAULT CONTROL UNIT		
22	'RCU', RADIO CONTROLLER UNIT		
23	'MCB', MAIN CIRCUIT BREAKER		INCOMING POWER SHUTOFF
24	'MDP', MAIN DISTRIBUTION PANEL		
25	'LC', LIGHTING CONTACTOR		13R APPROACH STROBE LIGHT CONTACTOR
26	'T4', STEP-UP TRANSFORMER	25 KVA, 1 PH, 480 - 2.4KV	TRANSFORMER FOR 13R APPROACH STROBE LIGHTS

1 EQUIPMENT SCHEDULE
SCALE: NTS



2 EXISTING VAULT EQUIPMENT LAYOUT
SCALE: NTS

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DESCRIPTION					
   					
APPROVED					
FOR COMMANDER NAVFAC					
ACTIVITY					
SATISFACTORY TO DATE					
DES	DAB	DRW	DAB	CHK	JMM
PROJECT MANAGER					
IP/T TECH. BRANCH HEAD					
CHIEF ENGINEER (CORE)					
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND				
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST	NAVAL AIR STATION JACKSONVILLE				
CIBL CORE	CORPUS CHRISTI, TEXAS				
NAS CORPUS CHRISTI	NAS CORPUS CHRISTI AIRFIELD REPAIRS				
	AIRFIELD LIGHTING VAULT				
	EXISTING EQUIPMENT LAYOUT				
SCALE:	NTS				
PROJECT NO.:					
CONSTR. CONTR. NO.					
NAVFAC DRAWING NO.	15095112				
SHEET	42	OF	54		
E-401					
DRAWFORM REVISION: 5 APRIL 2012					

VAULT CONSTRUCTION NOTES:

STEP 1

1. RELOCATE AIRFIELD LIGHTING CIRCUITS

- 1.1. PRIOR TO EXCAVATION FOR THE BUILDING EXTENSION, THE TWO 3W-4" DUCTBANKS FOR THE TAXIWAY, RUNWAY AND APPROACH LIGHTING CIRCUITS MUST BE TEMPORARILY RELOCATED, BY REMOVING THE CONDUIT ENCASING THE CABLE AND BURING THE DUCT DEEPER IN THE GROUND.
- 1.2. EXCAVATE AND EXPOSE THE EXISTING AIRFIELD LIGHTING DUCT UNDER THE BUILDING EXTENSION.
- 1.3. INSTALL 3'X3' HANDHOLE OVER INTERSECTION OF EXISTING DUCTS. REMOVE PVC ENCASUREMENT OVER CABLE FROM HANDHOLE TO EXISTING VAULT EXTERIOR.
- 1.4. DISCONNECT EXISTING AIRFIELD LIGHTING CABLES FROM POWER SUPPLY SOURCES AND REMOVE FROM EXISTING CONDUIT AND

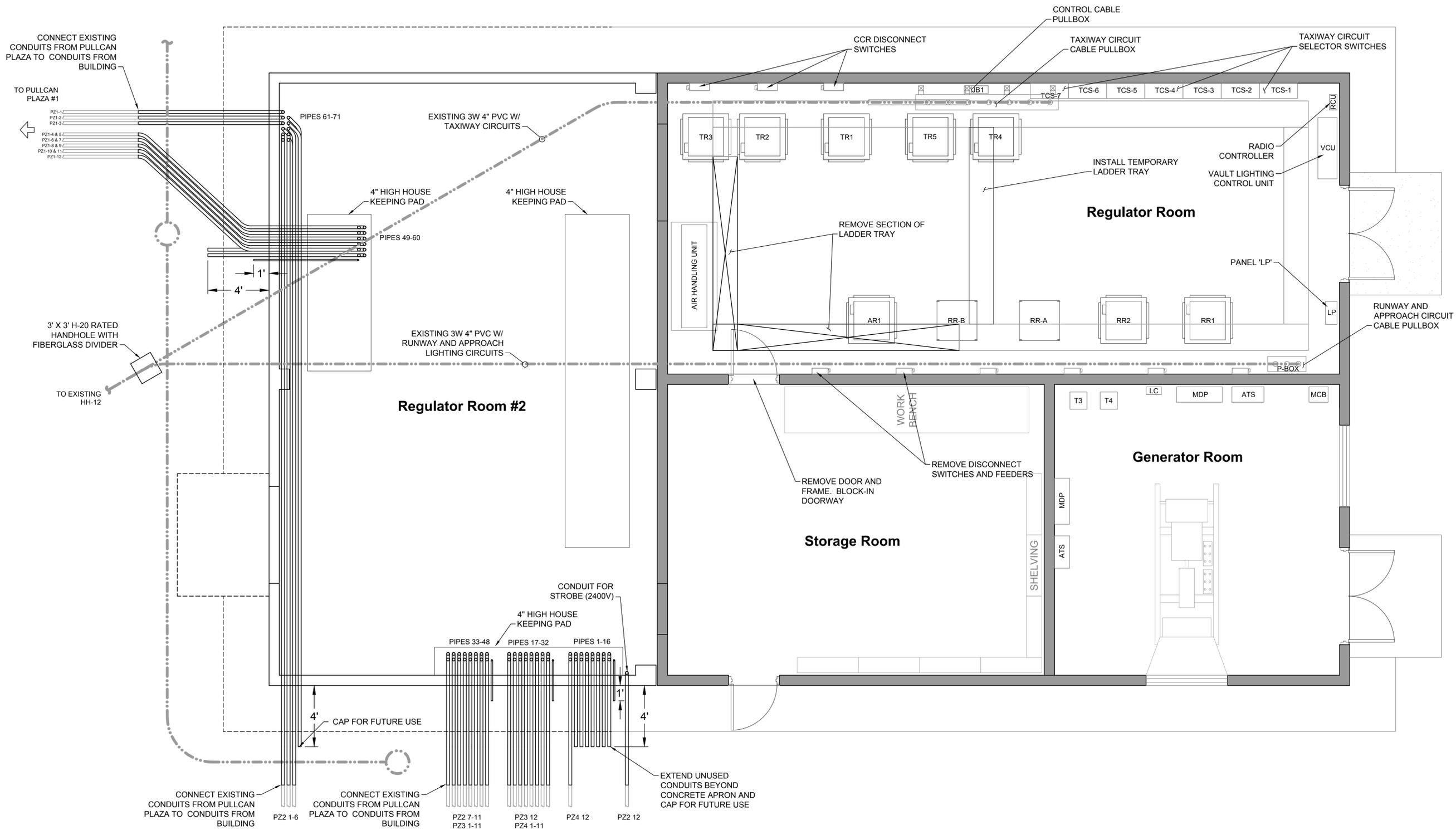
WIREWAY WITH GREAT CARE. EXPECTED CABLES INCLUDE 12EA TAXIWAY CABLES, 1EA RW 22 REIL CONTROL CABLE, 2EA 7/C WAVE CONTROL CABLES, 1EA 7/C APPROACH STROBE CONTROL CABLE, 2EA APPROACH STROBE 2400V CABLE, AND 12 EA RUNWAY CABLES.

- 1.5. FURNISH AND INSTALL 4EA 4-INCH DIAMETER LIQUIDTIGHT FLEXIBLE METAL DUCT FOR EXISTING AIRFIELD LIGHTING CABLES FROM HANDHOLE TO CUT PVC AT EXISTING VAULT EXTERIOR. INSTALL DUCT AT A LOCATION AND DEPTH WHICH WILL NOT INTERFERE WITH FACILITY CONSTRUCTION. MARK THE ACTIVE ELECTRICAL HAZARD FOR WORKER SAFETY. TWO EMPTY DUCTS NOT REPLACED SHALL BE CAPPED.
- 1.6. PULL EXISTING AIRFIELD LIGHTING CABLES THROUGH LFMC DUCT. CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL CABLE BY SPLICING IF NECESSARY DUE TO LONGER LENGTH OF LFMC DUCT OVER EXISTING PVC DUCT.
- 1.7. VERIFY OPERATION OF ALL RECONNECTED CIRCUITS.

2. BEGIN BUILDING EXTENSION

3. DEMOLITION
- 3.1. INSTALL TEMPORARY LADDER TRAY ACROSS REGULATOR ROOM #1.
- 3.2. RELOCATE POWER AND CONTROL CABLES FROM LADDER TRAY TO BE REMOVED INTO TEMPORARY LADDER TRAY.
- 3.3. REMOVE LADDER TRAY TO MAKE WAY FOR LINEUP #2 OF CABINET-STYLE REGULATORS.
- 3.4. VERIFY OPERATION OF ALL RECONNECTED CIRCUITS.
- 3.5. REMOVE DESIGNATED DISCONNECT SWITCHES ON SOUTH WALL REGULATOR ROOM #1

4. BLOCK-IN DOORWAY BETWEEN REGULATOR ROOM #1 AND STORAGE ROOM.



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ACTIVITY
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DES: DAB DRW: DAB CHK: JMM
PROJECT MANAGER
IP/T TECH. BRANCH HEAD
CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 CORPUS CHRISTI, TEXAS
**NAS CORPUS CHRISTI AIRFIELD REPAIRS
 AIRFIELD LIGHTING VAULT**
 PROPOSED EQUIPMENT LAYOUT, STEP 1

SCALE: NTS
 EPROJECT NO:
 CONSTR. CONTR. NO.
 NAVFAC DRAWING NO: 15095113
 SHEET 43 OF 54
E-402
 DRAWFORM REVISION: 5 APRIL 2012

FILE NAME: N:\14072\04 CAD\03p-Youth\153163-E-402.dwg LAYOUT NAME: E402 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm

VAULT CONSTRUCTION NOTES:

STEP 2

1. EQUIPMENT

- 1.1. RELOCATE CONSTANT CURRENT REGULATOR AR-1 TO OPPOSITE WALL.
- 1.2. MOVE CCRs RR1, RR2, RR-A, AND RR-B CLOSER TOGETHER TO MAKE ROOM FOR HOUSEKEEPING PAD.
- 1.3. REMOVE TWO WALL-MOUNT DISCONNECTS IN THE WAY OF CABINET LINEUP #2.
- 1.4. INSTALL HOUSEKEEPING PAD FOR CABINET LINEUP #2, #3 AND #4.
- 1.5. INSTALL S-1 CUTOUT CABINETS.
- 1.6. INSTALL WINDCONE POWER AND CONTACTOR PANELS.
- 1.7. INSTALL CABINET LINEUPS #2, #3, AND #4.

2. POWER

- 2.1. REMOVE AND REPLACE CABLE TRAY OVER ENTRY DOOR CLOSER TO WALL.
- 2.2. INSTALL 5" X 24" GALVANIZED STEEL CABLE TRAY FOR 600V AND BELOW CABLES AND FIBER OPTIC CABLES

2.3. INSTALL AR-1 FEEDER AND DISCONNECT SWITCH.

- 2.4. RELOCATE 'AR-1' AND CONNECT TO DISCONNECT SWITCH.
- 2.5. INSTALL FEEDERS FOR CABINET LINEUPS #2 & #3 AND PANEL 'NP'.

3. CONTROL

- 3.1. REMOVE EXISTING AR-1 CONTROL CIRCUIT AND INSTALL AR-1 CONTROL CIRCUIT TO LOCATION.
- 3.2. INSTALL VAULT COMPUTER.
- 3.3. RUN CONTROL WIREWAY AND CABLES FROM VAULT COMPUTER TO CABINET LINEUPS #2, #3 #4, AND WALL-MOUNT IRMS DEVICES.
- 3.4. RUN CONTROL WIREWAY AND CABLES FROM EXISTING 'VCU' TO CABINET LINEUPS #2, #3 AND #4.
- 3.5. INSTALL FIBER OPTIC CABLING FROM LINEUP #2 AND LINEUP #3 TO IRM/CVMs USING CABLE TRAY.
- 3.6. INSTALL ALL DATA CABLING AND ALL UPS POWER CABLING FROM VAULT COMPUTER CABINET TO IRM CVMs USING CABLE TRAY.

4. AIRFIELD LIGHTING CABLE

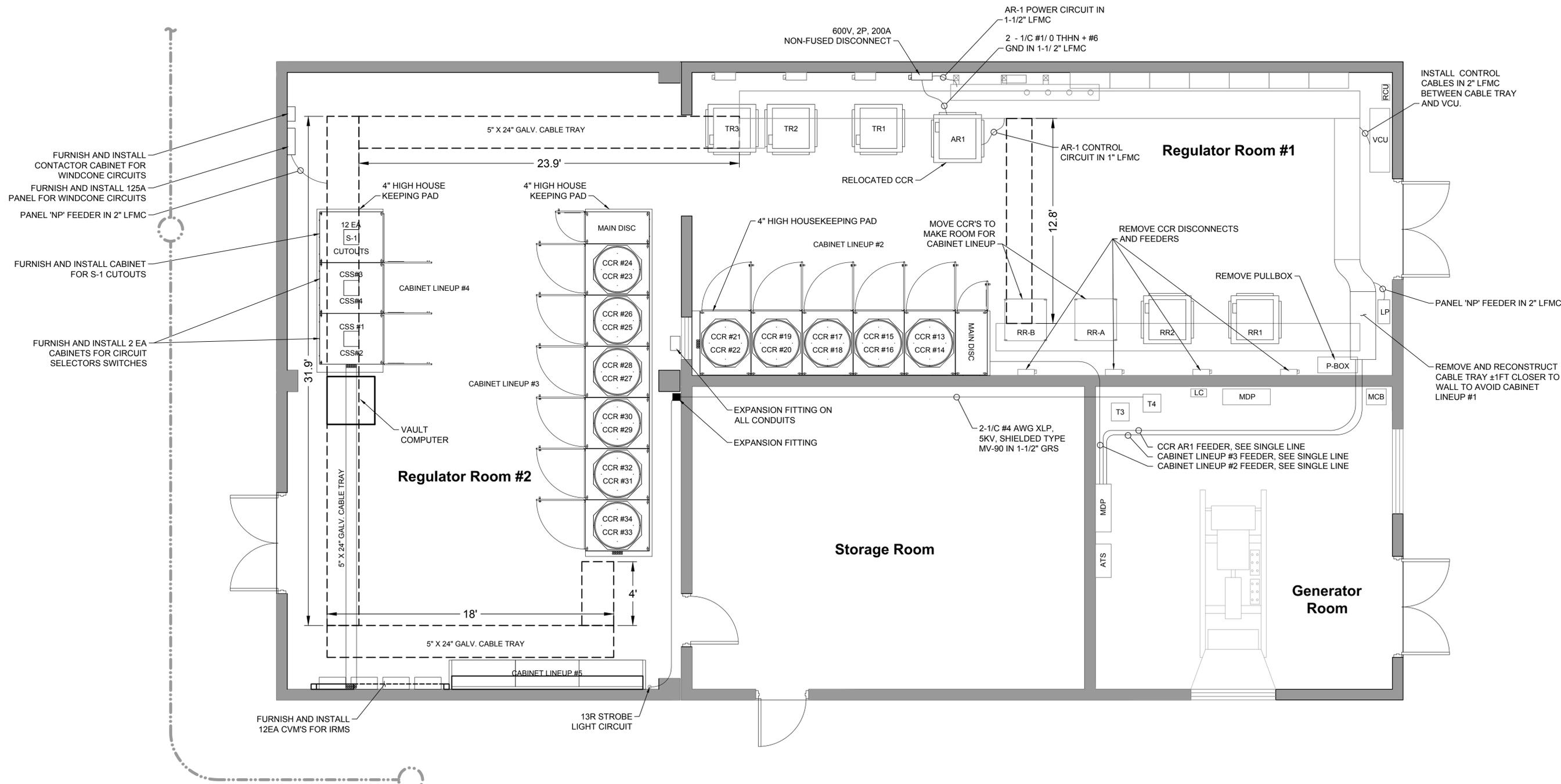
- 4.1. DISCONNECT 2400V STROBE LIGHTING CABLE FROM TRANSFORMER 'T4' AND REMOVE CABLE FROM PULLBOX IN REGULATOR ROOM #1. PULL 2400V STROBE LIGHTING CABLE THROUGH CONDUIT AS SHOWN AND SPLICE TO EXISTING STROBE LIGHTING CIRCUIT OUTSIDE VAULT.
- 4.2. INSTALL 5KV CABLES IN 1" GRS CONDUITS FROM CABINET LINEUPS #2 & #3 TO THE CIRCUIT SELECTOR SWITCHES IN CABINET LINEUP #4 AND S-1 CUTOUTS IN CABINET LINEUP #5 AS REQUIRED. INSTALL 5KV CABLES IN 1" GRS FROM CABINET LINEUP #4 (CIRCUIT SELECTOR SWITCHES) TO DCME/IRMS MODULES, AND FROM THE MODULES TO THE S-1 CUTOUTS.
- 4.3. INSTALL EXPANSION COUPLING ON CONDUIT WHERE CROSSING BUILDING CONSTRUCTION JOINT.

5. TESTING

- 5.1. PREPARE TEST PLAN AND SUBMIT FOR APPROVAL NOT LESS THAN TWO WEEKS IN ADVANCE OF TESTING. TEST PLAN SHALL INCLUDE: TYPE OF TEST, DATE & TIME OF TEST, LOCATION OF TEST, TEST STANDARDS & REFERENCES, TEST PROCEDURES, DIAGRAMS IF NECESSARY, NAME OF TESTER(S), TEST EQUIPMENT USED, REQUIRED

PASSING RESULTS, AND SAFETY REQUIREMENTS.

- 5.2. TEST CONTROL & POWER CABLES PER SPECIFICATION.
- 5.3. TEST CCRs AND MAIN DISCONNECT. TEST CCRs. TEST S-1 CUTOUTS. TEST RELAY PANEL.
- 5.4. TEST MONITORING OF ALL CCRs.
- 5.5. TEST VCU OPERATION, TOWER AND PILOT CONTROL. PERFORM OPERATIONS TEST OF ALL POSSIBLE FUNCTIONS.
- 5.6. TEST ALL IRMS FUNCTIONS.
- 5.7. TEST 13R APPROACH LIGHTING. TEST 13R STROBE LIGHTING.
- 5.8. MEGGER ALL AIRFIELD CIRCUITS WORKED ON, RECORD RESULTS FOR RECORD.
- 5.9. TEST RESULTS SHALL BE PROVIDED WITHIN THREE (3) WORKING DAYS AFTER TEST COMPLETION.



1 EQUIPMENT LAYOUT, STEP 2
SCALE: NTS

FILE NAME: N:\14072\04 CAD\03a-Youth\155163-1-E403.dwg LAYOUT NAME: E403 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm

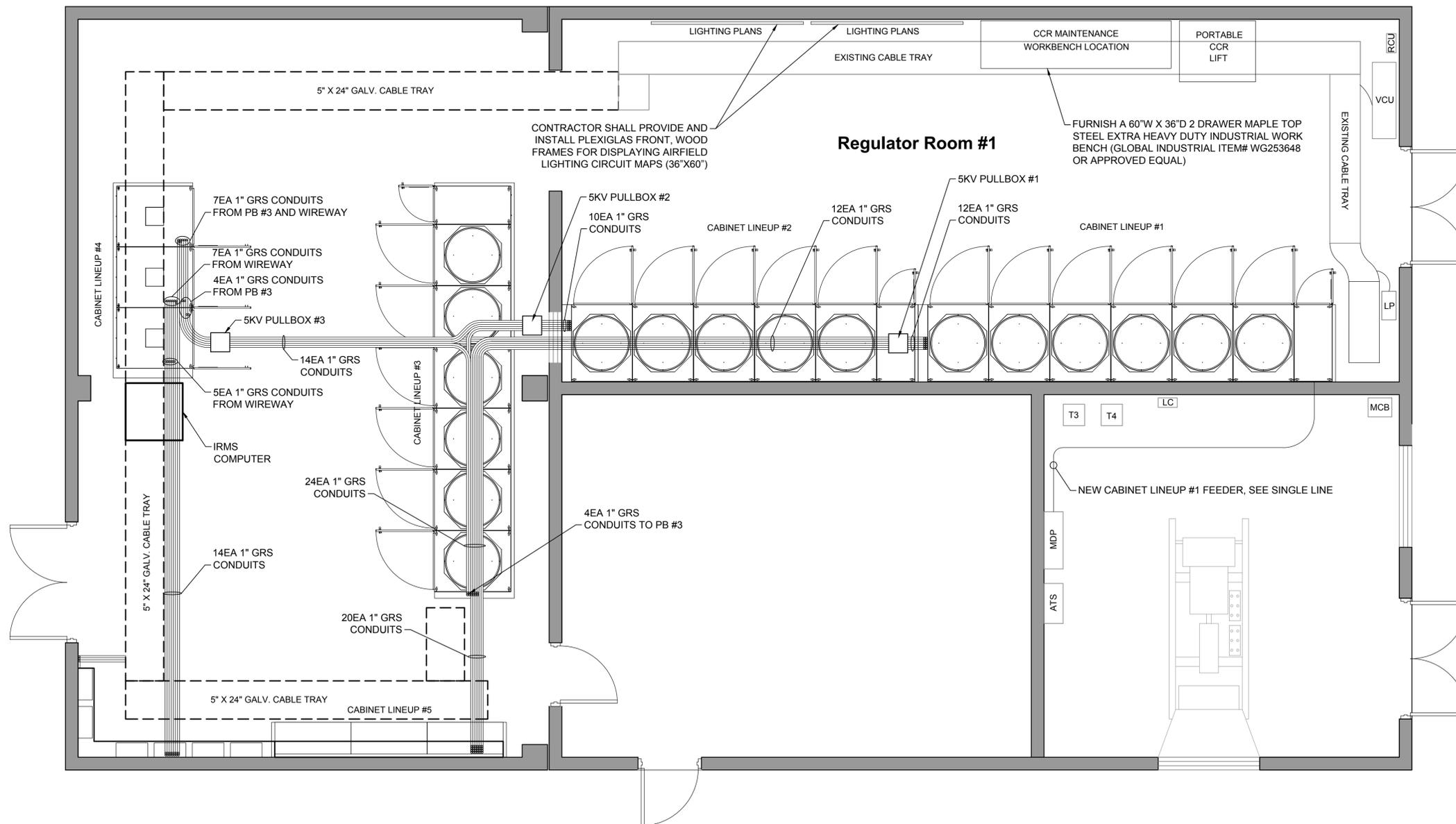
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT PROPOSED EQUIPMENT LAYOUT, STEP 2	
SCALE: NTS PROJECT NO: CONSTR. CONTR. NO. NAVFAC DRAWING NO. 15095114 SHEET 44 OF 54 E-403 <small>DRAWING REVISION: 5 APRIL 2012</small>	

VAULT CONSTRUCTION NOTES:

STEP 3

1. EQUIPMENT
 - 1.1. REMOVE RUNWAY CCRs RR1, RR2, RR-A, AND RR-B, DISCONNECTS, PULLBOX, AND ASSOCIATED CONDUITS, CABLES AND WIREWAYS.
 - 1.2. INSTALL HOUSEKEEPING PAD FOR CABINET LINEUP #1.
 - 1.3. INSTALL CABINET LINEUP #1.
 - 1.4. MAKE NEW TAXIWAY CCRs OPERATIONAL, TRANSITION FROM OLD CCRs TO NEW CCRs.
 - 1.5. WHEN NEW TAXIWAY CCRs ARE OPERATIONAL, REMOVE OLD TAXIWAY CCRs TR1, TR2 AND TR3. REMOVE CIRCUIT SELECTOR SWITCHES. REMOVE CABLES AND WIREWAY.
2. POWER
 - 2.1. INSTALL FEEDER FOR CABINET LINEUP #1.
3. CONTROL
 - 3.1. INSTALL NEW LIGHTING CONTROL CABLE BETWEEN VCU AND CONSTANT CURRENT REGULATORS, SO THAT EXISTING TAXIWAY REGULATORS MAY REMAIN OPERATIONAL WHILE NEW CONTROL CIRCUITS ARE INSTALLED AND TESTED.
- 3.2. INSTALL NEW FIBER OPTIC CABLING FROM LINEUP #1 TO IRM/CVMs USING CABLE TRAY.
- 3.3. WHEN READY TO TRANSITION CIRCUITS, DISCONNECT CONTROL CABLES TO OLD TAXIWAY CCRs AND CONNECT CONTROL CABLES FOR NEW CCRs.
- 3.4. REMOVE AND DISPOSE OF CONTROL CABLES FOR OLD TAXIWAY CCRs.
4. AIRFIELD LIGHTING CABLE
 - 4.1. INSTALL 5KV CABLES IN 1" GRS CONDUITS FROM CABINET LINEUP #1 TO THE CIRCUIT SELECTOR SWITCHES IN CABINET LINEUP #4 AND S-1 CUTOUPS IN CABINET LINEUP #5 AS REQUIRED. INSTALL 5KV CABLES IN 1" GRS FROM CABINET LINEUP #4 (CIRCUIT SELECTOR SWITCHES) TO DCME/IRMS MODULES, AND FROM THE MODULES TO THE S-1 CUTOUPS.
 - 4.2. INSTALL EXPANSION COUPLINGS ON THREE PULLCANS, AND ONE HANDHOLE AT THE EXTERIOR OF THE AIRFIELD LIGHTING VAULT THAT WERE USED TO BYPASS CABLES AROUND CONSTRUCTION WORK.
5. TESTING
 - 5.1. PREPARE TEST PLAN AND SUBMIT FOR APPROVAL NOT LESS THAN TWO WEEKS IN ADVANCE OF TESTING. TEST PLAN SHALL INCLUDE: TYPE OF TEST, DATE & TIME OF TEST, LOCATION OF TEST, TEST STANDARDS & REFERENCES,

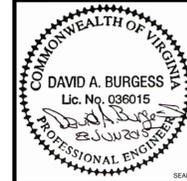
- TEST PROCEDURES, DIAGRAMS IF NECESSARY, NAME OF TESTER(S), TEST EQUIPMENT USED, REQUIRED PASSING RESULTS, AND SAFETY REQUIREMENTS.
- 5.2. TEST CONTROL & POWER CABLES PER SPECIFICATION.
- 5.3. TEST CCRs AND MAIN DISCONNECT. TEST MONITORING OF ALL CCRs.
- 5.4. TEST VCU OPERATION, TOWER AND PILOT CONTROL. PERFORM OPERATIONS TEST OF ALL POSSIBLE FUNCTIONS.
- 5.5. TEST ALL IRMS FUNCTIONS.
- 5.6. MEGGER ALL AIRFIELD CIRCUITS WORKED ON, RECORD RESULTS FOR RECORD.
- 5.7. TEST RESULTS SHALL BE PROVIDED WITHIN THREE (3) WORKING DAYS AFTER TEST COMPLETION.



1 PROPOSED EQUIPMENT LAYOUT, STEP 3
SCALE: 1"=5'

FILE NAME: N:\14072\04 CAD\03p-10a\155163-1-E404.dwg LAYOUT NAME: E404 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm

ISSUED FOR BID	0	DATE	8 JUN 15
DESCRIPTION			



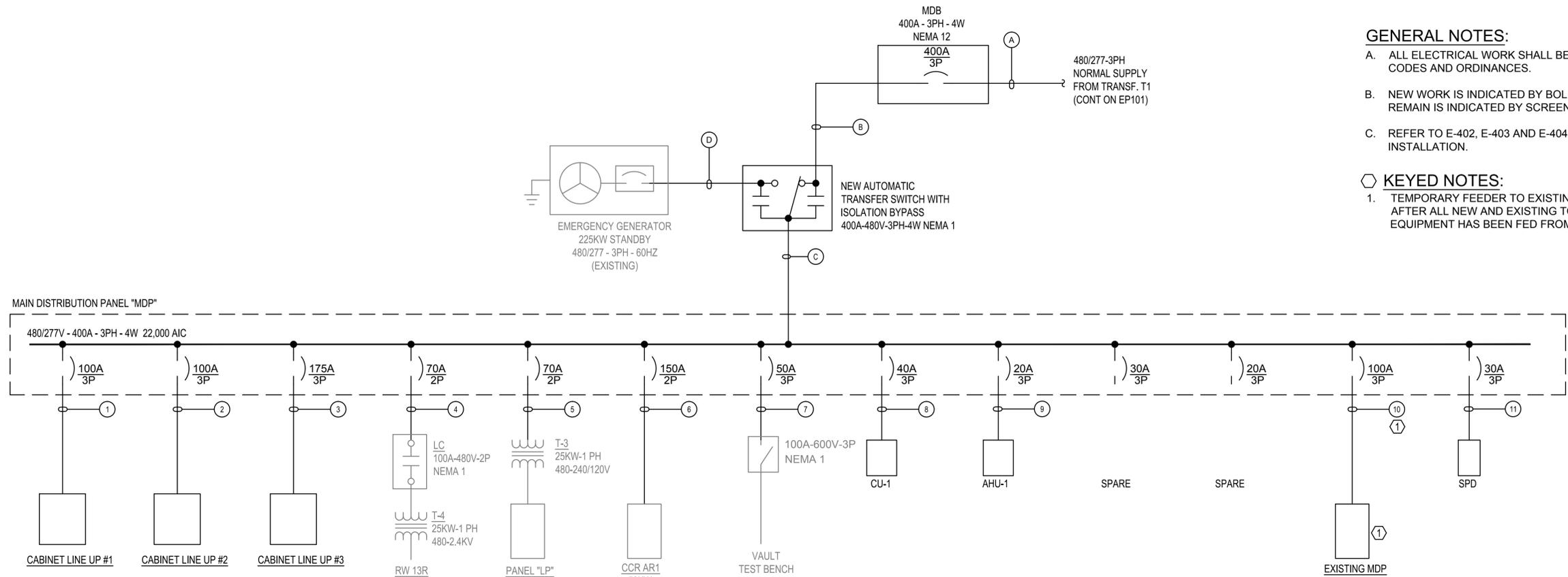
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	DAB DRW DAB CHK JMM
PROJECT MANAGER	
IP/T TECH. BRANCH HEAD	
CHIEF ENGINEER (CORE)	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 SOUTH EAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 AIRFIELD LIGHTING VAULT
 PROPOSED EQUIPMENT LAYOUT, STEP 3

SCALE:	NTS
PROJECT NO.:	15095115
CONSTR. CONTR. NO.	
NAVAC DRAWING NO.	15095115
SHEET	45 OF 54
E-404	

DRAWFORM REVISION: 5 APRIL 2012

FILE NAME: P:\FBI\1641-9K\NAE\2051134800-NAE_Corpus_Christi_Airfield_Repairs\20_DESIGN\040\134800-E-601.dwg LAYOUT NAME: E-601 PLOTTED: Tuesday, June 09, 2015 - 11:12am USER: lsbarn



- GENERAL NOTES:**
- A. ALL ELECTRICAL WORK SHALL BE PER NEC AND ALL LOCAL APPLICABLE CODES AND ORDINANCES.
 - B. NEW WORK IS INDICATED BY BOLD LINEWEIGHT. EXISTING WORK TO REMAIN IS INDICATED BY SCREENED LINEWEIGHT.
 - C. REFER TO E-402, E-403 AND E-404 FOR EQUIPMENT SEQUENCE OF INSTALLATION.
- KEYED NOTES:**
- 1. TEMPORARY FEEDER TO EXISTING MDP. REMOVE AFTER ALL NEW AND EXISTING TO REMAIN EQUIPMENT HAS BEEN FED FROM THE NEW MDP.

CABLE AND CONDUIT SCHEDULE										
CABLE AND CONDUIT DATA				SERVICE			DESTINATION			REMARKS
ID	CONDUIT	WIRE SIZE	GROUND	VOLTAGE	FUNCTION	FROM	TO			
A	2-4"	2 SETS EACH WITH 3-250kcmil, THWN, 600V	1-#1/0 NEUT.	480Y/277V - 3PH	480V BUILDING SERVICE	300KVA PAD MTD TRANSFORMER "T1"	AIRFIELD VAULT SERVICE DISCONNECT "MCB"	INSTALL A SET ONE CABLES IN EACH CONDUIT		
B	2-3"	2 SETS EACH WITH 3-#4/0 AWG CU	1-#3 NEUT.	480Y/277V - 3PH	ATS FEEDER	AIRFIELD VAULT SERVICE DISCONNECT "MCB"	AIRFIELD VAULT ATS			
C	2-3"	2 SETS EACH WITH 3-#4/0 AWG CU	1-#3 NEUT.	480Y/277V - 3PH	MDP FEEDER	AIRFIELD VAULT ATS	AIRFIELD VAULT MDP			
D	3"	3-#500kcmil, THWN, 600V	(1) #1/0 NEUT.	480Y/277V - 3PH	480V EMERG. SERVICE	DIESEL GENERATOR "GEN"	AIRFIELD VAULT ATS			
E	2-4"	3-1/C #4 AWG CU, XLP, 15KV, SHIELDED TYPE MV-90	1-#4 NEUT.	4.16Y/2.4 KV - 3PH	4.16KV DISTR. FEEDER (CENTER LOOP)	PAD MTD SWGR "SW-1A"	ELEC. HANDHOLE "HH-??"	SPLICE TO EXST CABLES IN HANDHOLE		
1	2"/TRAY	3-#2, THWN, 600V	1-#8 AWG	480V - 3PH	CABINET LINE UP #1 FEEDER	AIRFIELD VAULT MDP	CABINET LINE UP #1			
2	2"/TRAY	3-#2, THWN, 600V	1-#8 AWG	480V - 3PH	CABINET LINE UP #2 FEEDER	AIRFIELD VAULT MDP	CABINET LINE UP #2			
3	3"/TRAY	3-#3/0, THWN, 600V	1-#6 AWG	480V - 3PH	CABINET LINE UP #3 FEEDER	AIRFIELD VAULT MDP	CABINET LINE UP #3			
4	1 1/2"/ TRAY	2- #4, THWN, 600V	1#6 AWG	480V - 1PH	TRANSFORMER T4 FEEDER	AIRFIELD VAULT MDP	13R APP. STROBE LIGHTING CONTACTOR			
5	1 1/2"	2- #4, THWN, 600V	1#6 AWG	480V - 1PH	TRANSFORMER T3 FEEDER	AIRFIELD VAULT MDP	LIGHTING TRANSFORMER "T3"			
6	2"/ TRAY	2- #1/0, THWN, 600V	1-#6 AWG	480V - 1PH	CCR "AR1" FEEDER	AIRFIELD VAULT MDP	REGULATOR "AR1"			
7	1"/ TRAY	3#6, THWN, 600V	1#10 AWG	480V - 3PH	TEST BENCH FEEDER	AIRFIELD VAULT MDP	TEST BENCH 480V DISC. SW.			
8	3/4"	3#8, THWN, 600V	1#10 AWG	480V - 3PH	CU-1 FEEDER	AIRFIELD VAULT MDP	CU-1			
9	3/4"	3#12, THWN, 600V	1#12 AWG	480V - 3PH	AHU-1 FEEDER	AIRFIELD VAULT MDP	AHU-1			
10	2"	3-#2, THWN, 600V	1-#8 AWG	480V - 3PH	TEMPORARY OLD MDP FEEDER	AIRFIELD VAULT MDP	OLD MDP			
11	3/4"	3-#10, THWN, 600V	1-#10 AWG	480V - 3PH	SURGE PROTECTION DEVICE	AIRFIELD VAULT MDP	SPD			

ISSUED FOR BID	0	DATE	8 JUN 15
DESCRIPTION			

APPROVED FOR COMMANDER NAVFAC

SATISFACTORY TO DATE

DES DS | DRW NJS | CHK DWM

PM / DM

BRANCH MANAGER

CHIEF ENG / ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION JACKSONVILLE
CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI
AIRFIELD LIGHTING VAULT
NEW MDP AIRFIELD VAULT SINGLE-LINE DIAGRAM

SCALE: AS NOTED

PROJECT NO.: 15095116

CONSTR. CONTR. NO.

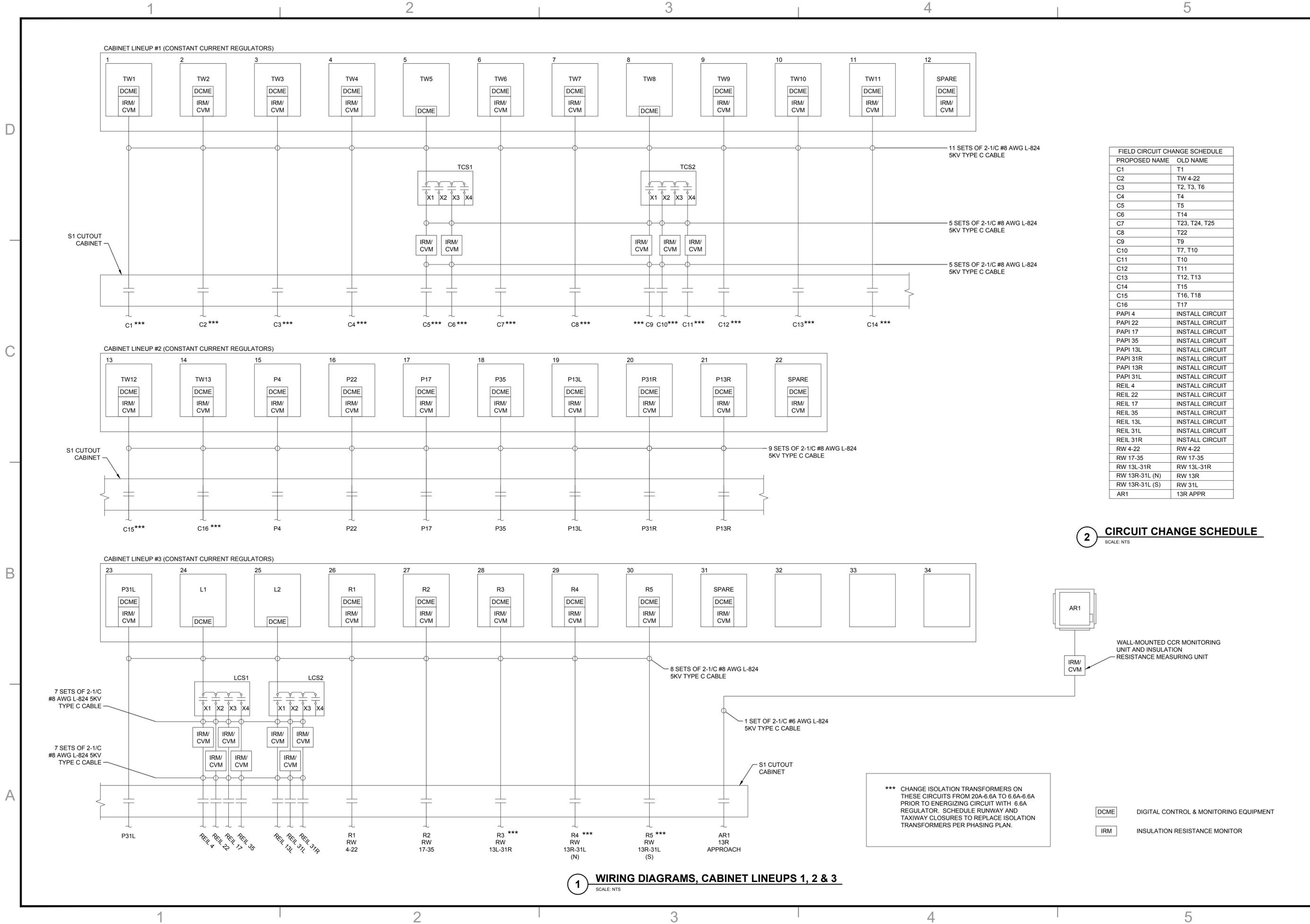
NAVAC DRAWING NO. 15095116

SHEET 46 OF 54

E-601

DRAWFORM REVISION: 5 APRIL 2012

FILE NAME: N:\14072\04 CAD\03a-Yan\155163-1-E610.dwg LAYOUT NAME: E610 PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: mm



FIELD CIRCUIT CHANGE SCHEDULE	
PROPOSED NAME	OLD NAME
C1	T1
C2	TW 4-22
C3	T2, T3, T6
C4	T4
C5	T5
C6	T14
C7	T23, T24, T25
C8	T22
C9	T9
C10	T7, T10
C11	T10
C12	T11
C13	T12, T13
C14	T15
C15	T16, T18
C16	T17
PAPI 4	INSTALL CIRCUIT
PAPI 22	INSTALL CIRCUIT
PAPI 17	INSTALL CIRCUIT
PAPI 35	INSTALL CIRCUIT
PAPI 13L	INSTALL CIRCUIT
PAPI 31R	INSTALL CIRCUIT
PAPI 13R	INSTALL CIRCUIT
PAPI 31L	INSTALL CIRCUIT
REIL 4	INSTALL CIRCUIT
REIL 22	INSTALL CIRCUIT
REIL 17	INSTALL CIRCUIT
REIL 35	INSTALL CIRCUIT
REIL 13L	INSTALL CIRCUIT
REIL 31L	INSTALL CIRCUIT
REIL 31R	INSTALL CIRCUIT
RW 4-22	RW 4-22
RW 17-35	RW 17-35
RW 13L-31R	RW 13L-31R
RW 13R-31L (N)	RW 13R
RW 13R-31L (S)	RW 31L
AR1	13R APPR

2 CIRCUIT CHANGE SCHEDULE
SCALE: NTS

1 WIRING DIAGRAMS, CABINET LINEUPS 1, 2 & 3
SCALE: NTS

*** CHANGE ISOLATION TRANSFORMERS ON THESE CIRCUITS FROM 20A-6.6A TO 6.6A-6.6A PRIOR TO ENERGIZING CIRCUIT WITH 6.6A REGULATOR. SCHEDULE RUNWAY AND TAXIWAY CLOSURES TO REPLACE ISOLATION TRANSFORMERS PER PHASING PLAN.

DCME DIGITAL CONTROL & MONITORING EQUIPMENT
IRM INSULATION RESISTANCE MONITOR

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	

COMMONWEALTH OF VIRGINIA
DAVID A. BURGESS
Lic. No. 036015
PROFESSIONAL ENGINEER

LEIDOS ENGINEERING, LLC
ONE WEST 3RD ST.
TULSA, OK 74103

9711 Foster Court, Suite 100
Richmond, Virginia 23234
phone: (804) 275-8301 • fax: (804) 275-8371
www.deltairport.com
Delta Project No. 14072 A&W&P

APPROVED FOR COMMANDER NAVFAC
ACTIVITY: 13R APPR

SATISFACTORY TO DATE
DES: DAB | DRW: DAB | CHK: JMM
PROJECT MANAGER: IPT TECH. BRANCH HEAD
CHIEF ENGINEER (CORE):

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
CIBL CORE
NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS
AIRFIELD LIGHTING VAULT
5KV CABLE WIRING DIAGRAM

SCALE: NTS
EPROJECT NO.: 15095118
CONSTR. CONTR. NO.:
NAVFAC DRAWING NO.:
SHEET 48 of 54
E-610
DRAWFORM REVISION: 5 APRIL 2012

CCR POS #	CCR NAME	KW	OUTPUT CURRENT	STEPS	MONITORING	CCS POS #	CIRCUIT SELECTOR NAME	LOOP 1	LOOP 2	LOOP 3	LOOP 4
1	TW1	10	6.6A	5	TYPE C* W/ IRMS						
2	TW2	10	6.6A	5	TYPE C* W/ IRMS						
3	TW3	10	6.6A	5	TYPE C* W/ IRMS						
4	TW4	10	6.6A	5	TYPE C* W/ IRMS						
5	TW5	10	6.6A	5	TYPE C*	1	TCS1	C5	C6		
6	TW6	10	6.6A	5	TYPE C* W/ IRMS						
7	TW7	10	6.6A	5	TYPE C* W/ IRMS						
8	TW8	10	6.6A	5	TYPE C*	2	TCS2	C9	C10	C11	
9	TW9	10	6.6A	5	TYPE C* W/ IRMS						
10	TW10	10	6.6A	5	TYPE C* W/ IRMS						
11	TW11	10	6.6A	5	TYPE C* W/ IRMS						
12	SPARE	10	6.6A	5	TYPE C* W/ IRMS						

CABINET LINEUP #1 (CONSTANT CURRENT REGULATORS)

CCR #	CCR NAME	KW	OUTPUT CURRENT	STEPS	MONITORING
13	TW12	10	6.6A	5	TYPE C* W/ IRMS
14	TW13	15	6.6A	5	TYPE C* W/ IRMS
15	P4	4	6.6A	5	TYPE C* W/ IRMS
16	P22	4	6.6A	5	TYPE C* W/ IRMS
17	P17	4	6.6A	5	TYPE C* W/ IRMS
18	P35	4	6.6A	5	TYPE C* W/ IRMS
19	P13L	4	6.6A	5	TYPE C* W/ IRMS
20	P31R	4	6.6A	5	TYPE C* W/ IRMS
21	P13R	4	6.6A	5	TYPE C* W/ IRMS
22	SPARE	15	6.6A	5	TYPE C* W/ IRMS

CABINET LINEUP #2 (CONSTANT CURRENT REGULATORS)

CCR POS #	CCR NAME	KW	OUTPUT CURRENT	STEPS	MONITORING	CCS POS #	CIRCUIT SELECTOR NAME	LOOP 1	LOOP 2	LOOP 3	LOOP 4
23	P31L	4	6.6A	5	TYPE C* W/ IRMS						
24	L1	7.5	6.6A	5	TYPE C*	3	LCS1	C3	C4	C5	C6
25	L2	4	6.6A	5	TYPE C*	4	LCS2	C7	C8	C9	C10
26	R1	20	6.6A	5	TYPE C* W/ IRMS						
27	R2	30	6.6A	5	TYPE C* W/ IRMS						
28	R3	30	6.6A	5	TYPE C* W/ IRMS						
29	R4	20	6.6A	5	TYPE C* W/ IRMS						
30	R5	20	6.6A	5	TYPE C* W/ IRMS						
31	SPARE	30	6.6A	5	TYPE C* W/ IRMS						
32	FUTURE										
33	FUTURE										
34	FUTURE										

CABINET LINEUP #3 (CONSTANT CURRENT REGULATORS)

1 CONSTANT CURRENT REGULATOR (CCR) INDEX
SCALE: NTS

MAIN DISC	CCR POSITION #1	CCR POSITION #3	CCR POSITION #5	CCR POSITION #7	CCR POSITION #9	CCR POSITION #11
	CCR POSITION #2	CCR POSITION #4	CCR POSITION #6	CCR POSITION #8	CCR POSITION #10	CCR POSITION #12

CABINET LINEUP #1 (CONSTANT CURRENT REGULATORS)

MAIN DISC	CCR POSITION #13	CCR POSITION #15	CCR POSITION #17	CCR POSITION #19	CCR POSITION #21
	CCR POSITION #14	CCR POSITION #16	CCR POSITION #18	CCR POSITION #20	CCR POSITION #22

CABINET LINEUP #2 (CONSTANT CURRENT REGULATORS)

MAIN DISC	CCR POSITION #23	CCR POSITION #25	CCR POSITION #27	CCR POSITION #29	CCR POSITION #31	CCR POSITION #33
	CCR POSITION #24	CCR POSITION #26	CCR POSITION #28	CCR POSITION #30	CCR POSITION #32	CCR POSITION #34

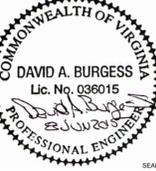
CABINET LINEUP #3 (CONSTANT CURRENT REGULATORS)

2 REGULATOR CABINETS ELEVATION VIEW
SCALE: NTS

CABINET-STYLE REGULATOR SYSTEM REQUIREMENTS

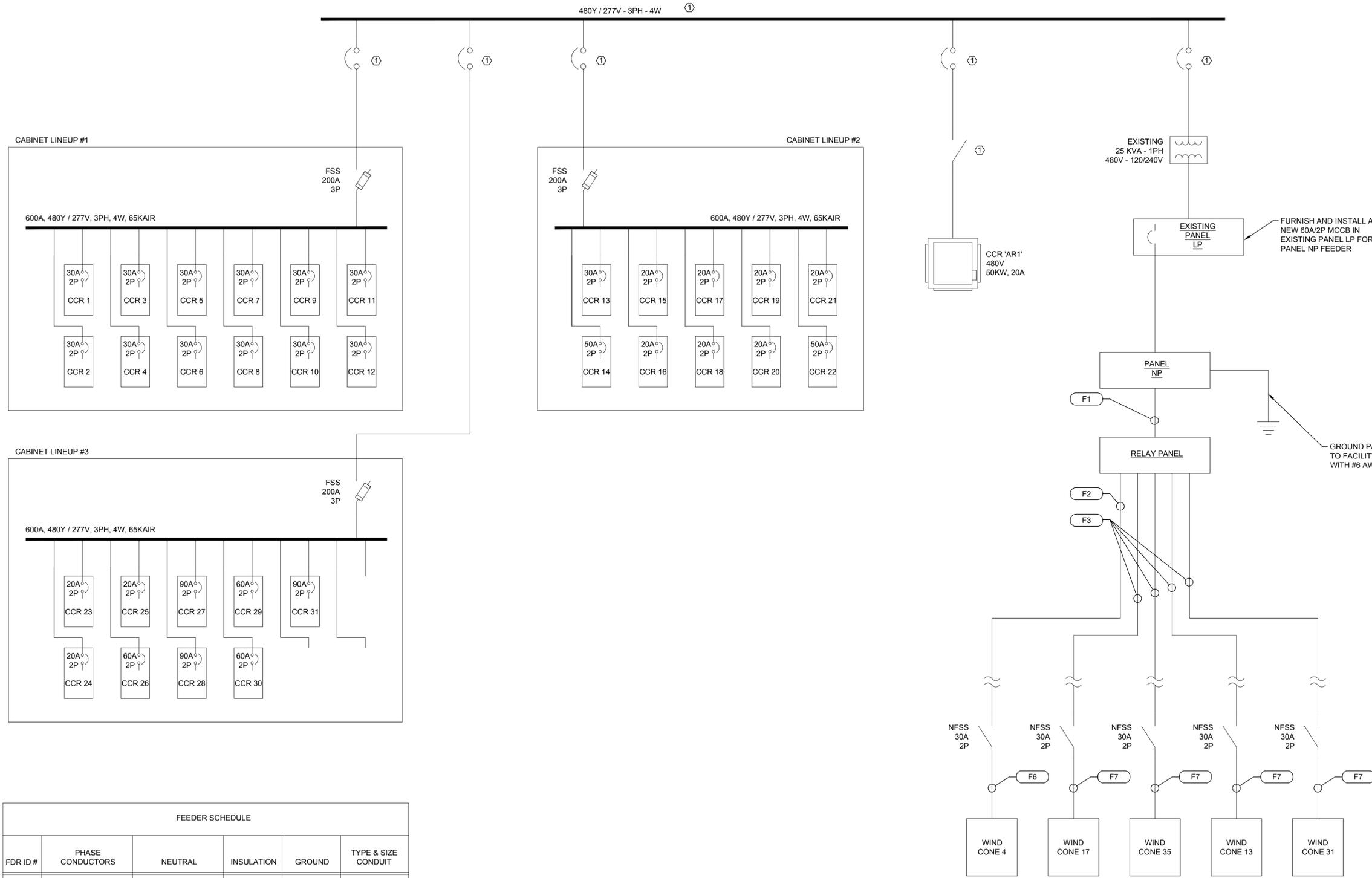
- CABINET-STYLE REGULATOR SYSTEM (CSRS)
 - CONTRACTOR SHALL FURNISH AND INSTALL A CABINET-STYLE CONSTANT CURRENT REGULATOR SYSTEM WITH REGULATORS COMPLYING WITH FAA ADVISORY CIRCULAR 14-75345-10G, AS SPECIFIED BELOW:
 - TYPE: L-829 REGULATORS WITH MONITORING.
 - CLASS: 6.6A OR 20A REGULATORS AS SHOWN.
 - STYLES: 3 OR 5 STEP REGULATORS AS SHOWN.
 - RATINGS: KW RATINGS AS SHOWN.
 - OPTIONS
 - INDIVIDUALLY REMOVABLE AND INTERCHANGEABLE CONSTANT CURRENT REGULATORS.
 - FERRORESONANT TYPE CONSTANT CURRENT REGULATORS.
 - INTEGRAL DIGITAL VOLTAGE AND CURRENT METER TO MEASURE INCOMING POWER TO CSRS LINEUP.
 - INTEGRAL DIGITAL MONITORING & CONTROL EQUIPMENT (DCME) IN REGULATOR CABINET WITH A FRONT-MOUNTED DIGITAL DISPLAY CAPABLE OF DISPLAYING ALL REQUIRED OUTPUT.
 - FUSED DISCONNECT INTEGRAL WITH SINGLE BUS FEEDING ALL REGULATORS.
 - CABLE PULL-BOX CABINET IN THE CENTER OF THE SWITCHGEAR LINE UP AS SHOWN IN THE PROJECT DRAWINGS.
 - FORCED AIR COOLING SYSTEM.
 - ALL ENCLOSURE DOORS SHALL HAVE KEYED LOCKS.
 - A MOTORIZED REGULATOR LIFTING DEVICE. THE LIFT SHALL BE ON WHEELS OR CASTORS SUCH THAT IT CAN BE ROLLED AND ALIGNED WITH EACH REGULATOR.
 - A CURRENT SENSING RELAY (CSR) SHALL BE INSTALLED ON EACH REGULATOR OUTPUT. THE CSR SHALL PROVIDE A CONTACT CLOSURE FOR FEEDBACK. THE CONTACT CLOSURE SHALL BE WIRED TO A TERMINAL STRIP AT THE BOTTOM OF THE SGRS ENCLOSURE FOR CONNECTION TO EXTERNAL MONITORING EQUIPMENT.
- PRODUCTION TESTING
 - BEFORE SHIPMENT, THE CSRS SYSTEM SHALL BE ASSEMBLED AS AN OPERATING SYSTEM AT THE CSRS MANUFACTURER'S TEST FACILITIES.
 - THE CSRS MANUFACTURER SHALL MAKE THE PRODUCTION TESTING AVAILABLE FOR REPRESENTATIVE(S) OF THE GOVERNMENT TO WITNESS TESTING OF THE SYSTEM IF REQUESTED.
 - THE CSRS MANUFACTURER SHALL COMPLETE PRODUCTION AND OPERATIONAL TESTING PRIOR TO SHIPMENT OF EQUIPMENT TO THE PROJECT SITE.
 - TWO (2) HARD COPY, AND ONE DIGITAL (PDF) COPY, OF THE PRODUCTION TEST REPORTS SHALL BE FURNISHED TO THE C.O.R. NO LATER THAN DELIVERY OF THE EQUIPMENT TO THE PROJECT SITE.
- CONTRACTOR INSTALLATION REQUIREMENTS. THE EQUIPMENT INSTALLATION AND MOUNTING SHALL COMPLY WITH THE REQUIREMENT OF THE NATIONAL ELECTRIC CODE AND THE LOCAL CODE AGENCY HAVING JURISDICTION.
 - WIRING AND CONNECTIONS
 - ALL WIRES CALLED OUT IN THE DRAWINGS ASSOCIATED WITH EQUIPMENT THAT IS TO BE CONTROLLED OR MONITORED SHOULD BE PULLED, TERMINATED AND DRESSED AT THE APPROPRIATE TERMINAL BLOCKS AND AT THE ASSOCIATED EQUIPMENT.
 - IN WIRING TO THE TERMINAL BLOCKS, THE CONTRACTOR SHALL LEAVE SUFFICIENT EXTRA LENGTH ON EACH CONTROL LEAD TO MAKE FUTURE CHANGES IN CONNECTIONS AT THE TERMINAL BLOCK.
 - MARKING AND LABELING
 - ALL EQUIPMENT, CONTROL WIRES, TERMINAL BLOCKS, ETC., SHALL BE TAGGED, MARKED OR LABELED AS SPECIFIED BELOW:
 - WIRE IDENTIFICATION: THE CONTRACTOR SHALL FURNISH AND INSTALL SELF-STICKING WIRE LABELS OR IDENTIFYING TAGS ON ALL CONTROL WIRES AT THE POINT WHERE THEY CONNECT TO THE CONTROL EQUIPMENT OR TO THE TERMINAL BLOCKS.
- WIRE LABELS, IF USED, SHALL BE OF THE SELF-STICKING, PRE-PRINTED TYPE AND OF THE MANUFACTURER'S RECOMMENDED SIZE FOR THE WIRE INVOLVED. IDENTIFICATION MARKING DESIGNATED IN THE PLANS SHALL BE FOLLOWED.
- TAGS, IF USED, SHALL BE NONFERROUS METAL OR PLASTIC. EACH TAG SHALL BE SECURELY TIED TO THE PROPER WIRE BY A NONMETALLIC CORD OR PLASTIC WIRE TIE.
- POWER, SERIES CIRCUIT AND COMMUNICATIONS CABLES
 - THE CONTRACTOR SHALL INSTALL, TERMINATE AND TEST ALL POWER, SERIES CIRCUIT AND COMMUNICATIONS CABLES REQUIRED FOR THE PROJECT.
 - ALL CIRCUIT WIRING SHALL BE COMPLETED AND TESTED.
 - TESTS SHALL INCLUDE RESISTANCE TESTING TO VERIFY PROPER FIELD CABLING INSTALLATION.
 - ALL TEST DATA SHALL BE RECORDED AND COMPOSED INTO A TEST REPORT AND SHALL BE SUBMITTED TO THE C.O.R. FOR APPROVAL.
 - COMMISSIONING OF THE SYSTEM SHALL NOT BEGIN UNTIL ALL TEST REPORTS ARE SUBMITTED AND APPROVED AND A COPY PROVIDED TO THE CSRS MANUFACTURER.
- ON-SITE TRAINING
 - THE CSRS MANUFACTURER SHALL PROVIDE TRAINING DURING THE COMMISSIONING TRIP.
 - THE CONTRACTOR SHALL PROVIDE DIGITAL AUDIO & VIDEO RECORDINGS OF THE TRAINING CLASSES. VIDEO RECORDING MUST BE COORDINATED IN ADVANCE WITH THE C.O.R. TO SECURE ANY NECESSARY APPROVALS.
 - ALL TRAINING SESSIONS SHALL BE HELD IN A FACILITY AT THE AIR STATION.
 - THE CONTRACTOR AND/OR CSRS MANUFACTURER SHALL PROVIDE ALL REQUIRED VISUAL AIDS AND PROJECTORS.
 - MAINTENANCE TRAINING
 - THE CSRS MANUFACTURER SHALL PROVIDE ONE (1), 8 HOUR (ONE DAY) TRAINING CLASS FOR MAINTENANCE PERSONNEL. THIS TRAINING SHALL INCLUDE DISCUSSION AND REVIEW OF THE FOLLOWING:
 - SYSTEM BLOCK DIAGRAM
 - SYSTEM ASSEMBLIES AND WIRING DIAGRAMS
 - CSRS OPERATION
 - MAINTENANCE AND TROUBLESHOOTING
 - TRAINING CLASSES MAY HAVE UP TO 6 PEOPLE PER CLASS.
- SPARE PARTS
 - DISTRIBUTED CONTROL AND MONITORING EQUIPMENT (DCME) ASSEMBLY
 - CURRENT/VOLTAGE MODULE (CVM)
 - INSULATION RESISTANCE MODULE (IRM)
 - FUSES (5) OF EACH TYPE
- SYSTEM SERVICE AND SUPPORT
 - CSRS MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE AND SUPPORT DURING THE WARRANTY PERIOD.
 - CSRS MANUFACTURER SHALL PROVIDE 7 DAYS A WEEK / 24 HOURS A DAY SUPPORT PHONE LINE.
 - CSRS MANUFACTURER SHALL PROVIDE TECHNICAL SUPPORT WITHIN FOUR (4) HOURS OF THE INITIAL CALL.
 - CSRS MANUFACTURER SHALL PROVIDE FREE PHONE CONSULTATION AND TECHNICAL SUPPORT AS REQUIRED DURING THE WARRANTY PERIOD AND IF NECESSARY BE ON-SITE WITHIN 24 HOURS.

FILE NAME: N:\14072\04 CAD\03p-Youth\155163-E611.dwg LAYOUT NAME: E611 PLOTTED: Tuesday, June 09, 2015 9:44am USER: mm

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
	
	
	
	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	DAB DRW
CHK	JMM
PROJECT MANAGER	
IPIT TECH BRANCH HEAD	
CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CORPUS CHRISTI, TEXAS NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT CABINET-STYLE REGULATOR SCHEDULE	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095119
SHEET	49 of 54
E-611	
DRAWFORM REVISION: 5 APRIL 2012	

1 2 3 4 5

KEYNOTES:
 1. REFER TO E-601 FOR COMPLETE SINGLE-LINE DIAGRAM.



FEEDER SCHEDULE					
FDR ID #	PHASE CONDUCTORS	NEUTRAL	INSULATION	GROUND	TYPE & SIZE CONDUIT
F1	5x 1-1/C#12 AWG	5x 1-1/C#12 AWG	THHN	#12 AWG	3/4" EMT
F2	1-1/C #8 AWG	1-1/C #8 AWG	THHN	#8 AWG	3/4" GRS/PVC
F3	1-1/C #10 AWG	1-1/C #10 AWG	THHN	#10 AWG	3/4" GRS/PVC

1 AIRFIELD LIGHTING EQUIPMENT SINGLE-LINE DIAGRAM
 SCALE: NTS

FILE NAME: N:\14072\04 CAD\03a-Youm\155163-E-613.dwg LAYOUT NAME: E613 PLOTTED: Tuesday, June 09, 2015 - 9:46am USER: mm

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES: DAB DRW: DAB CHK: JMM PROJECT MANAGER IPT TECH BRANCH HEAD CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CHIEF CORE NAS CORPUS CHRISTI CORPUS CHRISTI, TEXAS AIRFIELD LIGHTING REPAIRS AIRFIELD LIGHTING VAULT SINGLE LINE DIAGRAM	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095121
SHEET:	51 of 54
E-613 <small>DRAWING REVISION: 5 APRIL 2012</small>	

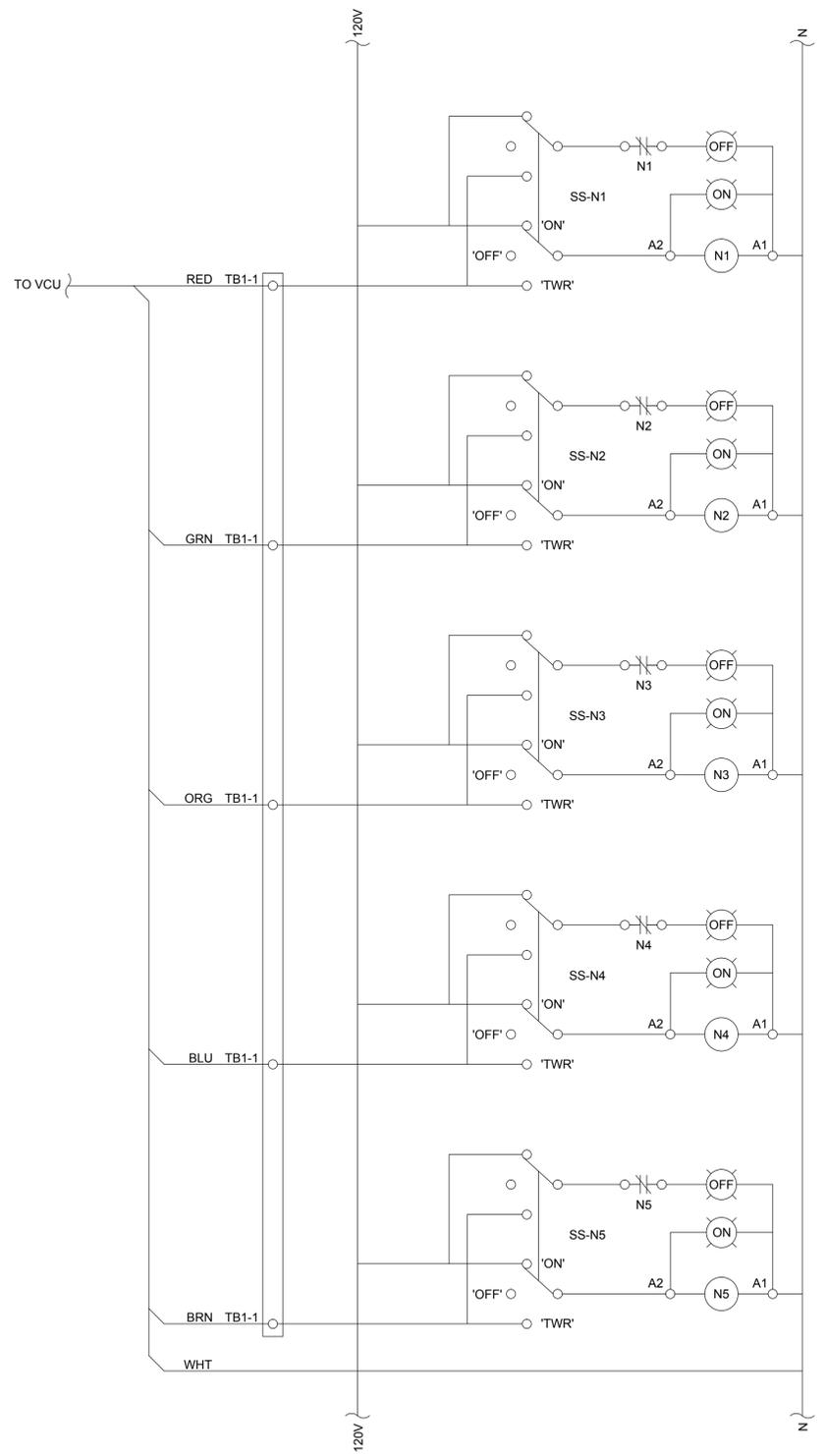
1

2

3

4

5



1 LADDER DIAGRAM
SCALE: NTS

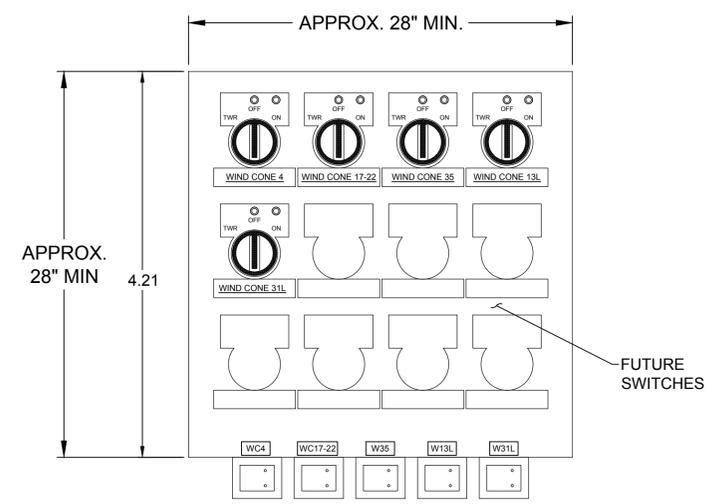
PANEL NAME: NP
 FED FROM: LP
 MOUNTING: SURFACE
 ENCLOSURE: NEMA 1

VOLTS: 120/240V
 PHASES: 1
 WIRES: 3

A.I.C. RATING: 10kAIC
 MAINS TYPE: MLO
 BUS RATING: 100A

CIRC. NO.	LOAD	TRIP (A)	FRAME (A)	LOAD (VA)	A	B	LOAD (VA)	FRAME (A)	TRIP (A)	LOAD	CIRC. NO.
1	WIND CONE 17	15	1	109	218		109	1	15	WIND CONE 4	2
3	WIND CONE 13	15	1	109		218	109	1	15	WIND CONE 35	4
5	SPARE	15	1		109		109	1	15	WIND CONE 31	6
7	RELAY PANEL	15	1	125		125		1	15	SPARE	8
9	SPARE	15	1		0			1	15	SPARE	10
11	SPARE	15	1		0			1	15	SPARE	12
13	SPARE	15	1		0			1	15	SPARE	14
15	SPARE	15	1			0		1	15	SPARE	16
					327	343					
TOTAL VA:					670						
PHASE VOLTAGE (V):					240						
CONNECTED AMPS (A):					2.8						

2 PANEL "NP" SCHEDULE
SCALE: NTS



3 RELAY PANEL COVER
SCALE: NTS

- RELAY PANEL NOTES:
- THE CONTRACTOR SHALL CUSTOM FABRICATE AND INSTALL THE CONTROL PANEL DESCRIBED HERE FOR THE WIND CONES. MODIFICATIONS TO THE LAYOUT SHOWN ABOVE TO IMPROVE PERFORMANCE OR EFFICIENCY ARE ACCEPTABLE. PROVIDE CAPACITY FOR FUTURE INSTALLATION OF AT LEAST SEVEN (7) MORE SIMILAR SWITCHES AND ASSOCIATED RELAYS. DIMENSIONS MAY BE MODIFIED AND ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 - RELAYS: 20A @240V, 3-POLE, 3 NO CONTACTS, 120V COIL VOLTAGE, 1 NC AUXILIARY CONTACT. NEMA ICS 2 ELECTRICALLY HELD MAGNETIC LIGHTING CONTACTOR WITH CONTINUOUSLY RATED COILS. CONTACTORS SHALL BE STANDARD TYPE BALLASTS AND TUNGSTEN LIGHTING AS WELL AS GENERAL USE AND RESISTIVE HEATING LOADS.
 - PILOT DEVICES: NEMA ICS 5, COVER-MOUNTED TYPE OR FLANGE-MOUNTED 30MM TYPE BASED ON ENCLOSURE SELECTION. CONTACTS SHALL BE RATED NEMA B600 FOR COVER-MOUNTED DEVICES AND NEMA A600 FOR FLANGE-MOUNTED 30MM DEVICES.
 - SELECTOR SWITCH SHALL BE REMOTE/ON/OFF, TWO POLE, TRIPLE THROW.
 - INDICATING LIGHTS SHALL BE LED-TYPE, RED FOR 'OFF' AND GREEN FOR 'ON'.
 - SURGE PROTECTION: SURGE LOGIC TVS120XR50S OR APPROVED EQUAL. PROVIDE A SEPARATE SURGE PROTECTION DEVICE (SPD) FOR EACH WIND CONE CIRCUIT. PROVIDE A LABEL ADJACENT TO EACH SPD INDICATING THE CIRCUIT.
 - ENCLOSURE: NEMA ICS 6, TYPE 1, HINGED, LATCHABLE COVER. PURPOSES.

FILE NAME: N:\14072\04 CAD\03p-Youm\155163-E-614.dwg LAYOUT NAME: E614 PLOTTED: Tuesday, June 09, 2015 - 9:44am USER: mm

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES: DAB DRW: DAB CHK: JMM PROJECT MANAGER IPT TECH. BRANCH HEAD CHIEF ENGINEER (CORE)	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT RELAY PANEL DIAGRAM	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095122
SHEET:	52 of 54
E-614 <small>DRAWFORM REVISION: 5 APRIL 2012</small>	

1

2

3

4

5

	OFF	ON	1	2	3	4	5
RW 4-22	✓		✓	✓	✓	✓	✓
RW 17-35	✓		✓	✓	✓	✓	✓
RW 13L-31R	✓		✓	✓	✓	✓	✓
RW 13R-31L	✓		✓	✓	✓	✓	✓
RW 13R STROBES	✓	✓					
RW 13R APPROACH	✓		✓	✓	✓	✓	✓
TW 1	✓	✓					
TW 2	✓	✓					
TW 3	✓	✓					
TW 4	✓	✓					
TW 5	✓	✓					
TW 6	✓	✓					
TW 7	✓	✓					
TW 8	✓	✓					
TW 9	✓	✓					
TW 10	✓	✓					
TW 11	✓	✓					
TW 12	✓	✓					
TW 13	✓	✓					
TW 14	✓	✓					
TW 15	✓	✓					
TW 16	✓	✓					
TW 17	✓	✓					
TW 18	✓	✓					
TW 19	✓	✓					
TW 20	✓	✓					
TW 21	✓	✓					
TW 22	✓	✓					
TW 23	✓	✓					
TW 24	✓	✓					
TW 25	✓	✓					
TW BRIGHTNESS			✓	✓	✓	✓	✓

1 EXISTING LIGHTING CONTROL
SCALE: NTS

	TWR CTRL	TOWER OVERRIDE							PILOT CONTROL (RADIO)			
		OFF	ON	1	2	3	4	5	IDLE	3 CLICKS	5 CLICKS	7 CLICKS
RW 4-22	✓	✓	-	✓	✓	✓	✓	✓	OFF	1	3	5
RW 17-35	✓	✓	-	✓	✓	✓	✓	✓	OFF	1	3	5
RW 13L-31R	✓	✓	-	✓	✓	✓	✓	✓	OFF	1	3	5
RW 13R-31L	✓	✓	-	✓	✓	✓	✓	✓	OFF	1	3	5
RW 13R STROBES	✓	✓	-	✓	✓	✓	✓	✓				
RW 13R APPROACH	✓	✓	-	✓	✓	✓	✓	✓				
REIL 4	✓	✓	-	✓	✓	✓	-	-				
REIL 22	✓	✓	-	✓	✓	✓	-	-				
REIL 17	✓	✓	-	✓	✓	✓	-	-				
REIL 35	✓	✓	-	✓	✓	✓	-	-				
REIL 13L	✓	✓	-	✓	✓	✓	-	-				
REIL 31R	✓	✓	-	✓	✓	✓	-	-				
PAPI 4	✓	✓	-	-	-	✓	-	✓				
PAPI 22	✓	✓	-	-	-	✓	-	✓				
PAPI 17	✓	✓	-	-	-	✓	-	✓				
PAPI 35	✓	✓	-	-	-	✓	-	✓				
PAPI 13L	✓	✓	-	-	-	✓	-	✓				
PAPI 31R	✓	✓	-	-	-	✓	-	✓				
PAPI 13R	✓	✓	-	-	-	✓	-	✓				
PAPI 31L	✓	✓	-	-	-	✓	-	✓				
TW 1	✓	✓	-	✓	✓	✓	✓	✓				
TW 2	✓	✓	-	✓	✓	✓	✓	✓				
TW 3	✓	✓	-	✓	✓	✓	✓	✓				
TW 4	✓	✓	-	✓	✓	✓	✓	✓				
TW 5	✓	✓	-	✓	✓	✓	✓	✓				
TW 6	✓	✓	-	✓	✓	✓	✓	✓				
TW 7	✓	✓	-	✓	✓	✓	✓	✓				
TW 8	✓	✓	-	✓	✓	✓	✓	✓				
TW 9	✓	✓	-	✓	✓	✓	✓	✓				
TW 10	✓	✓	-	✓	✓	✓	✓	✓				
TW 11	✓	✓	-	✓	✓	✓	✓	✓				
WC 4	✓	✓	✓	-	-	-	-	-				
WC 17-22	✓	✓	✓	-	-	-	-	-				
WC 35	✓	✓	✓	-	-	-	-	-				
WC 13L	✓	✓	✓	-	-	-	-	-				
WC 31L	✓	✓	✓	-	-	-	-	-				

- NOTES:
- PAPI'S SHALL ONLY BE ON AT NIGHT WHEN THE RUNWAY LIGHTS ARE ON.
 - TOWER CONTROL SHALL ALWAYS OVERRULE PILOT CONTROL.

2 LIGHTING CONTROLS
SCALE: NTS

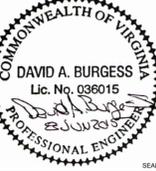
NOTES:

- THESE TABLES ARE PROVIDED TO THE CONTRACTOR FOR INFORMATION PURPOSES ONLY. AIRFIELD LIGHTING CONTROL WILL BE ACCOMPLISHED BY THE NAVY SYSTEM THROUGH THE VAULT CONTROL UNIT 'VCU'. THE AIRFIELD LIGHTING COMPUTER PROVIDED BY THE CONTRACTOR SHALL BE FOR MANAGEMENT OF THE INSULATION RESISTANCE MONITORING SYSTEM AND ONLY LOCAL MONITORING AND CONTROL OF THE SWITCHGEAR REGULATORS.
- THE EXISTING AIRFIELD LIGHTING CONTROL SYSTEM WILL REMAIN IN-PLACE. THE CONTRACTOR WILL PROVIDE CABLING TO INTERFACE WITH THE VAULT CONTROL UNIT 'VCU' AS SHOWN IN THE PROJECT DRAWINGS. THE CONTRACTOR SHALL CONFIGURE THE AIRFIELD LIGHTING SYSTEM TO OPERATE MANUALLY FROM THE LIGHTING VAULT UNTIL THE GOVERNMENT REPROGRAMS THE AIRFIELD LIGHTING CONTROL SYSTEM TO ACCOMMODATE THE NEWLY INSTALLED REGULATORS AND CIRCUIT CONFIGURATION.

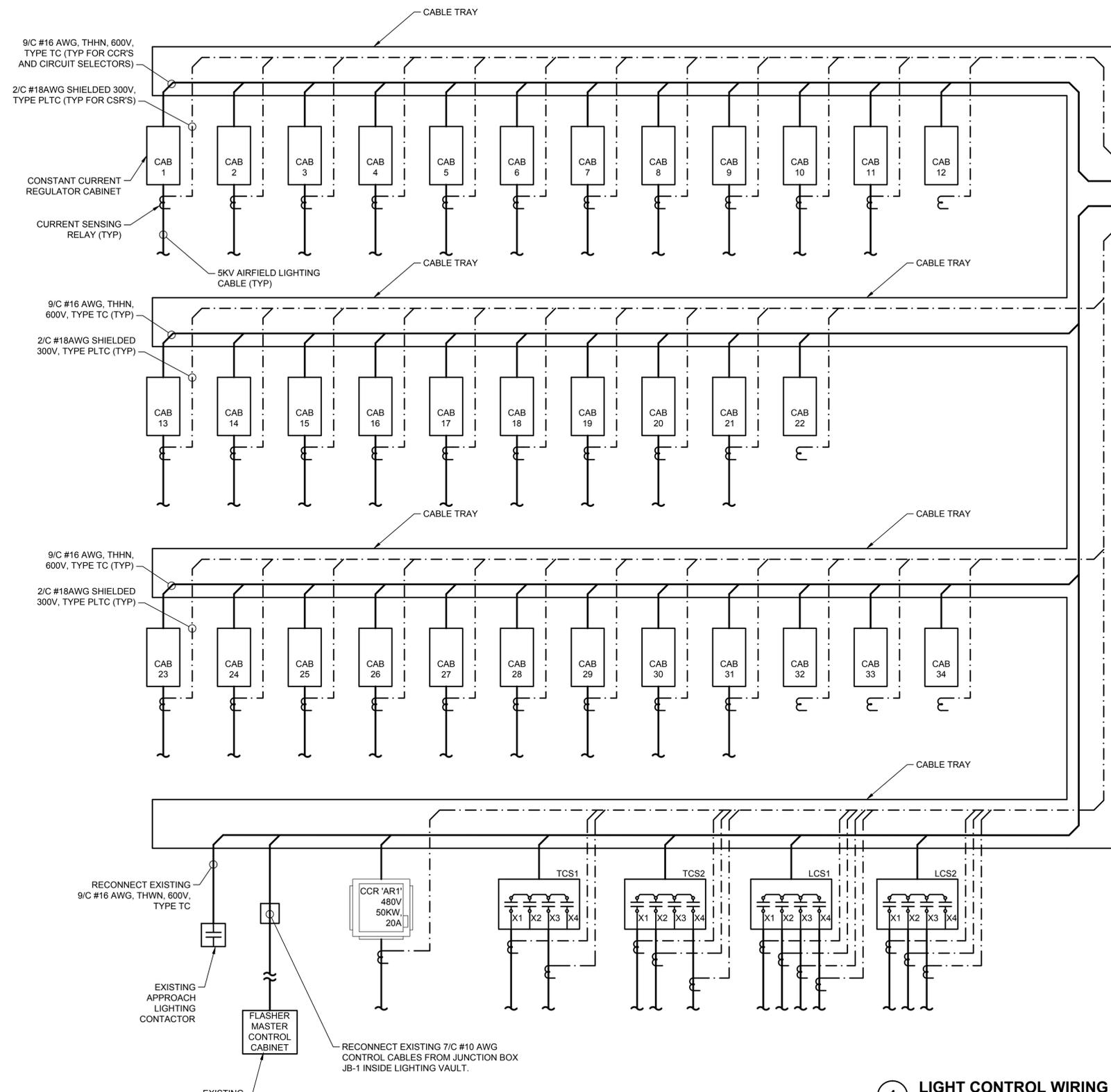
NOTES:

- THESE TABLES ARE PROVIDED TO THE CONTRACTOR FOR INFORMATION PURPOSES ONLY. AIRFIELD LIGHTING CONTROL WILL BE ACCOMPLISHED BY THE NAVY PROCURED AIRFIELD LIGHTING CONTROL SYSTEM (AFLCS). THE AFLCS IS MANUFACTURED AND SERVICED BY EDGECON. THE PROGRAMMING OF THE AFLCS SHALL BE BY EDGECON IN COORDINATION WITH THE NAVY.
- THE AFLCS INSTRUCTIONS AND PRESET FUNCTIONS SHOWN ARE SHOWN AS EXAMPLES OF TYPICAL SYSTEMS. THE MANUAL, TOWER, PILOT CONTROL, AND PRESET FUNCTIONS ARE TO BE DETERMINED BY LOCAL CONTROL AND IN ACCORDANCE WITH NAVY STANDARDS. FUNCTIONAL REQUIREMENTS ARE TO BE PROVIDED TO EDGECON SYSTEMS, INC. FOR DESIGN AND PROGRAMMING OF THE AFLCS MODIFICATIONS OR REPLACEMENT REQUIRED FOR THIS PROJECT.

FILE NAME: N:\14072\04 CAD\03p-10a\135163-E-615.dwg LAYOUT NAME: E615 PLOTTED: Tuesday, June 09, 2015 - 9:46am USER: mm

ISSUED FOR BID	0	DATE	8 JUN 15
DESCRIPTION			
			
			
			
			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO DATE			
DES	DAB	DRW	DAB
CHK	JMM		
PROJECT MANAGER			
IPT TECH BRANCH HEAD			
CHIEF ENGINEER (CORE)			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI, TEXAS NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT LIGHTING CONTROL INSTRUCTIONS			
SCALE: NTS			
PROJECT NO.:			
CONSTR. CONTR. NO.:			
NAVFAC DRAWING NO. 15095123			
SHEET 53 OF 54			
E-615			
DRAWFORM REVISION: 5 APRIL 2012			

FILE NAME: N:\14072\04 CAD\03a-10a\135163-E-616.dwg LAYOUT NAME: E616 PLOTTED: Tuesday, June 09, 2015 - 9:40am USER: mm



- LIGHTING CONTROL SYSTEM NOTES:**
1. THE VAULT CONTROL UNIT (VCU) IS EXISTING AND IS THE TERMINATION POINT FOR LIGHTING CONTROL CABLES AND OUTPUT CURRENT SENSORS. THE VCU EQUIPMENT IS NOT WITHIN THE SCOPE OF THE VAULT CONTRACTOR'S WORK. THE VAULT CONTRACTOR MUST EXTEND CONTROL CABLES TO THE VCU PROVIDING SLACK FOR TERMINATIONS. HOWEVER, TERMINATIONS OF CONTROL CABLES ON THE VCU WILL BE MADE BY OTHERS. ANY MODIFICATIONS TO THE VCU WILL BE DONE BY OTHERS. THE EXISTING AIRFIELD LIGHTING CONTROL SYSTEM (AFLCS) IS A NAVY STANDARD SYSTEM MANUFACTURED AND SUPPORTED BY EDGECON SYSTEMS, INC.
 2. EXTENSIVE MODIFICATION AND POSSIBLE REPLACEMENT OF THE VCU IS EXPECTED TO OCCUR WHILE THE VAULT PROJECT IS ONGOING. THE VAULT CONTRACTOR SHALL COORDINATE WORK SCHEDULES AND TESTING WITH THE CONTRACTOR PERFORMING WORK ON THE LIGHTING CONTROL SYSTEM. FINAL TESTING OF THE VAULT PROJECT SHALL INCLUDE OPERATIONAL TESTING USING THE MODIFIED/REPLACED VCU. THE VAULT CONTRACTOR SHALL PARTICIPATE IN THE FINAL TESTING AND PUNCHLIST DEVELOPMENT TO ADDRESS ANY WORK ITEMS ASSOCIATED WITH THE WORK ACCOMPLISHED BY THE VAULT CONTRACTOR.
 3. THE VAULT CONTRACTOR SHALL REPLACE ALL CONTROL CABLES TO ALL REGULATOR CABINETS WITH REGULATORS (INCLUDING SPARES) AND SENSORS FROM THE EQUIPMENT TO THE VCU, AS SHOWN IN THESE PLANS. CONTROL CABLES SHALL BE INSTALLED IN CABLE TRAY, EMT, AND OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) FROM THE CABLE TRAY TO THE EQUIPMENT ITEM.
 4. FURNISH AND INSTALL CURRENT SENSING RELAYS AND ASSOCIATED CONTROL CABLES TO THE VCU ON EACH OUTGOING AIRFIELD LIGHTING CIRCUIT, EITHER ON A CONSTANT CURRENT REGULATOR OR CIRCUIT SELECTOR SWITCH OUTPUT AS SHOWN.
 5. ANY WORK AFFECTING THE ABILITY OF THE AIR TRAFFIC CONTROL TOWER (ATCT) TO CONTROL THE AIRFIELD LIGHTING SYSTEM MUST BE COORDINATED WITH, AND APPROVED BY, THE GOVERNMENT NOT LESS THAN 10 WORKING DAYS PRIOR TO THE DAY OF THE IMPACT.

1 LIGHT CONTROL WIRING DIAGRAM
SCALE: NTS

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED	
ACTIVITY	FOR COMMANDER NAVFAC
SATISFACTORY TO DATE	DES DAB DRW DAB CHK JMM
PROJECT MANAGER	IPF TECH BRANCH HEAD
CHIEF ENGINEER (CORE)	
NAVIGATION ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE NAS CORPUS CHRISTI NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT LIGHTING CONTROL WIRING DIAGRAM	
SCALE:	NTS
PROJECT NO.:	
CONSTR. CONTR. NO.:	
NAVFAC DRAWING NO.:	15095124
SHEET	54 of 54
E-616	
DRAWING REVISION: 5 APRIL 2012	